

INSTRUCTION MANUAL

FOR

DGC-2020HD

DIGITAL GENSET CONTROLLER

Modbus® Protocol



B Basler Electric®

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Preface

This instruction manual provides information about DGC-2020HD Digital Genset Controllers with the Modbus® Protocol. To accomplish this, the following information is provided:

- General information
- Default register table
- Legacy register table

Conventions Used in this Manual

Important safety and procedural information is emphasized and presented in this manual through Warning, Caution, and Note boxes. Each type is illustrated and defined as follows.

Warning!

Warning boxes call attention to conditions or actions that may cause personal injury or death.

Caution

Caution boxes call attention to operating conditions that may lead to equipment or property damage.

Note

Note boxes emphasize important information pertaining to Digital Genset Controller installation or operation.

DGC-2020HD Instruction Manual Catalog

Available instruction manuals for the DGC-2020HD are listed in Table 1.

Table 1. Instruction Manuals

Part Number	Description
9469300993	Quick Start
9469300994	Installation
9469300995	Configuration
9469300996	Operation
9469300997	Accessories
9469300998	Modbus® Protocol (this manual)



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Warning!

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General Information

This document describes the Modbus® communications protocol employed by DGC-2020HD systems and how to exchange information with DGC-2020HD systems over a Modbus network. DGC-2020HD systems communicate by emulating a subset of the Modicon 984 Programmable Controller.

Modbus communications use a master-slave technique in which only the master can initiate a transaction. This transaction is called a query. When appropriate, a slave (DGC-2020HD) responds to the query. When a Modbus master communicates with a slave, information is provided or requested by the master. Information residing in the DGC-2020HD is grouped categorically as follows:

- General
- Binary Points
- Bias Control
- Breaker Settings
- Bus Condition Detection
- DGC Settings
- Pulse Outputs
- Control Settings
- Global Settings
- Configuration
- Remote Module Settings
- Metering
- Protection Settings
- Selectable Parameters

All supported data can be read as specified in the Register Table. Abbreviations are used in the Register Table to indicate the register type. Register types are:

- Read/Write = RW
- Read Only = R

When a slave receives a query, the slave responds by either supplying the requested data to the master or performing the requested action. A slave device never initiates communications on the Modbus and will always generate a response to the query unless certain error conditions occur. The DGC-2020HD is designed to communicate on the Modbus network only as a slave device.

Refer to the *Configuration* and *Installation* manuals for Modbus communication setup and wiring.

Caution

This product contains one or more *nonvolatile memory* devices. Nonvolatile memory is used to store information (such as settings) that needs to be preserved when the product is power-cycled or otherwise restarted. Established nonvolatile memory technologies have a physical limit on the number of times they can be erased and written. In this product, the limit is 100,000 erase/write cycles. During product application, consideration should be given to communications, logic, and other factors that may cause frequent/repeated writes of settings or other information that is retained by the product. Applications that result in such frequent/repeated writes may reduce the useable product life and result in loss of information and/or product inoperability.

Message Structure

Device Address Field

The device address field contains the unique Modbus address of the slave being queried. The addressed slave repeats the address in the device address field of the response message. This field is 1 byte.

Although Modbus protocol limits a device address from 1 - 247. The address is user-selectable at installation and can be altered during real-time operation.

Function Code Field

The function code field in the query message defines the action to be taken by the addressed slave. This field is echoed in the response message and is altered by setting the most significant bit (MSB) of the field to 1 if the response is an error response. This field is 1 byte in length.

The DGC-2020HD maps all available data into the Modicon 984 holding register address space supports the following function codes:

- Function 03 (03 hex) - read holding registers
- Function 06 (06 hex) - preset single register
- Function 08 (08 hex), subfunction 00 - diagnostics: return query data
- Function 08 (08 hex), subfunction 01 - diagnostics: restart communications option
- Function 08 (08 hex), subfunction 04 - diagnostics: force listen only mode
- Function 16 (10 hex) - preset multiple registers

Data Block Field

The query data block contains additional information needed by the slave to perform the requested function. The response data block contains data collected by the slave for the queried function. An error response will substitute an exception response code for the data block. The length of this field varies with each query.

Error Check Field

The error check field provides a method for the slave to validate the integrity of the query message contents and allows the master to confirm the validity of response message contents. This field is 2 bytes.

Modbus Modes of Operation

A standard Modbus network offers the remote terminal unit (RTU) transmission mode and Modbus TCP mode for communication. DGC-2020HD systems support the Modbus TCP mode and RS-485 mode at the same time. To enable editing over Modbus TCP, or RS-485, the unsecured access level for the port must be configured to the appropriate access level. See the *Security* chapter in the *Configuration* manual for more information on security and access levels. These two modes of operation are described below.

A master can query slaves individually or universally. A universal ("broadcast") query, when allowed, evokes no response from any slave device. If a query to an individual slave device requests actions unable to be performed by the slave, the slave response message contains an exception response code defining the error detected. Exception response codes are quite often enhanced by the information found in the "Error Details" block of holding registers.

The Modbus protocol defines a simple Protocol Data Unit (PDU) independent of the underlying communication layers. The mapping of the Modbus protocol on specific buses or networks can introduce some additional fields on the Application Data Unit (ADU). See Figure 1.

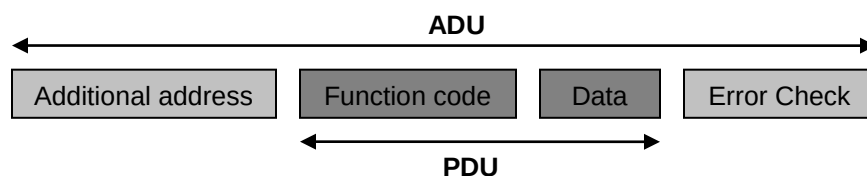


Figure 1. General Modbus Frame

The client that initiates a Modbus transaction builds the Modbus Application Data Unit. The function code indicates to the server which kind of action to perform.

Modbus Over Serial Line

Message Structure

Master initiated queries and DGC-2020HD responses share the same message structure. Each message is comprised of four message fields. They are:

- Device Address (1 byte)
- Function Code (1 byte)
- Data Block (n bytes)
- Error Check field (2 bytes)

Each 8-bit byte in a message contains two 4-bit hexadecimal characters. The message is transmitted in a continuous stream with the LSB of each byte of data transmitted first. Transmission of each 8-bit data byte occurs with one start bit and either one or two stop bits. Parity checking is performed, when enabled, and can be either odd or even. The transmission baud rate is user-selectable, and can be set at installation and altered during real-time operation. DGC-2020HD Modbus supports baud rates up to 115200. The factory default baud rate is 19200.

DGC-2020HD systems support RS-485 compatible serial interfaces. This interface is accessible from the left side panel of the DGC-2020HD.

Message Framing and Timing Considerations

When receiving a message via the RS-485 communication port, the DGC-2020HD requires an inter-byte latency of 3.5 character times before considering the message complete.

Once a valid query is received, the DGC-2020HD waits a specified amount of time before responding. This time delay is set on the Modbus Setup screen under Communications in BESTCOMSPlus®. This parameter contains a value from 10 - 10,000 milliseconds. The default value is 10 milliseconds.

Table 1 provides the response message transmission time (in seconds) and 3.5 character times (in milliseconds) for various message lengths and baud rates.

Table 1. Timing Considerations

Baud Rate	3.5 Character Time (ms)	Message Tx Time(s)	
		128 Bytes	256 Bytes
2400	16.04	0.59	1.17
4800	8.021	0.29	0.59
9600	4.0104	0.15	0.29
19200	2.0052	0.07	0.15

Modbus on TCP/IP

Application Data Unit

The following describes the encapsulation of a Modbus request or response when it is carried on a Modbus TCP/IP network. See Figure 2.

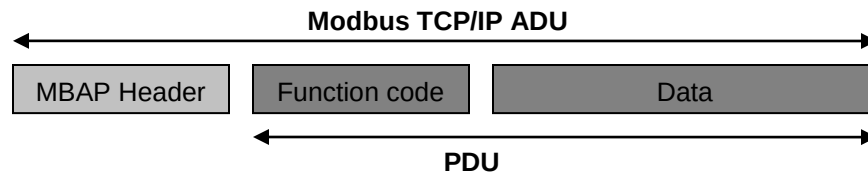


Figure 2. Modbus Request/Response Over TCP/IP

A dedicated header is used on TCP/IP to identify the Modbus Application Data Unit. It is called the MBAP header (Modbus Application Protocol header).

This header provides some differences compared to the Modbus RTU application data unit used on a serial line:

- The Modbus 'slave address' field usually used on Modbus Serial Line is replaced by a single byte 'Unit Identifier' within the MBAP header. The 'Unit Identifier' is used to communicate via devices such as bridges, routers, and gateways that use a single IP address to support multiple independent Modbus end units.
- All Modbus requests and responses are designed in such a way that the recipient can verify that a message is finished. For function codes where the Modbus PDU has a fixed length, the function code alone is sufficient. For function codes carrying a variable amount of data in the request or response, the data field includes a byte count.
- When Modbus is carried over TCP, additional length information is carried in the MBAP header to allow the recipient to recognize message boundaries even if the message has been split into multiple packets for transmission. The existence of explicit and implicit length rules and use of a CRC-32 error check code (on Ethernet) results in an infinitesimal chance of undetected corruption to a request or response message.

MBAP Header Description

The MBAP Header contains the fields listed in Table 2.

Table 2. MBAP Header Fields

Fields	Length	Description	Client	Server
Transaction Identifier	2 Bytes	Identification of a Modbus request/response transaction.	Initialized by the client.	Recopied by the server from the received request.
Protocol Identifier	2 Bytes	0 = Modbus protocol.	Initialized by the client.	Recopied by the server from the received request.
Length	2 Bytes	Number of following bytes.	Initialized by the client (request).	Initialized by the server (response).
Unit Identifier	1 Byte	Identification of a remote slave connected on a serial line or on other buses.	Initialized by the client.	Recopied by the server from the received request.

The header is 7 bytes long:

- *Transaction Identifier* – Used for transaction pairing, the Modbus server copies in the response the transaction identifier of the request.
- *Protocol Identifier* – Used for intra-system multiplexing. The Modbus protocol is identified by the value 0.
- *Length* – A byte count of the following fields, including the Unit Identifier and data fields.
- *Unit Identifier* – Used for intra-system routing purpose. It is typically used to communicate to a Modbus or a Modbus serial line slave through a gateway between an Ethernet TCP/IP network

and a Modbus serial line. This field is set by the Modbus Client in the request and must be returned with the same value in the response by the server.

Note: All Modbus TCP ADU are sent via TCP on registered port 502.

Error Handling and Exception Responses

Any query received that contains a non-existent device address, a framing error, or CRC error is ignored. No response is transmitted. Queries addressed to the DGC-2020HD with an unsupported function or illegal values in the data block result in an error response message with an exception response code. The exception response codes supported by the DGC-2020HD are provided in Table 3.

Table 3. Supported Exception Response Codes

Code	Name	Description
01	Illegal Function	The query Function/Subfunction Code is unsupported; query read of more than 125 registers; query preset of more than 100 registers.
02	Illegal Data Address	A register referenced in the data block does not support queried read/write; query preset of a subset of a numerical register group.
03	Illegal Data Value	A preset register data block contains an incorrect number of bytes or one or more data values out of range.

DGC-2020HD Modbus via Ethernet

Modbus can communicate through Ethernet if the IP address of the DGC-2020HD is configured as described in the *Communication* chapter in the *Configuration* manual.

Detailed Message Query and Response for RTU Transmission Mode

A detailed description of DGC-2020HD supported message queries and responses is provided in the following paragraphs.

Read Holding Registers

Query

This query message requests a register or block of registers to be read. The data block contains the starting register address and the quantity of registers to be read. A register address of N will read holding register N+1. If the query is a broadcast (device address = 0), no response message is returned.

Device Address

Function Code = 03 (hex)

Starting Address Hi

Starting Address Lo

No. of Registers Hi

No. of Registers Lo

CRC Hi error check

CRC Lo error check

The number of registers cannot exceed 125 without causing an error response with the exception code for an illegal function.

Response

The response message contains the data queried. The data block contains the block length in bytes followed by the data (one Data Hi byte and one Data Lo byte) for each requested register.

Reading an unassigned holding register returns a value of zero.

Device Address

Function Code = 03 (hex)

Byte Count

Data Hi (For each requested register, there is one Data Hi and one Data Lo.)

Data Lo

.

Data Hi

Data Lo

CRC Hi error check

CRC Lo error check

Return Query Data

This query contains data to be returned (looped back) in the response. The response and query messages should be identical. If the query is a broadcast (device address = 0), no response message is returned.

Device Address

Function Code = 08 (hex)

Subfunction Hi = 00 (hex)

Subfunction Lo = 00 (hex)

Data Hi = xx (don't care)

Data Lo = xx (don't care)

CRC Hi error check

CRC Lo error check

Restart Communications Option

This query causes the remote communications function of the DGC-2020HD to restart, terminating an active listen only mode of operation. No effect is made upon primary relay operations. Only the remote communications function is affected. If the query is a broadcast (device address = 0), no response message is returned.

If the DGC-2020HD receives this query while in the listen only mode, no response message is generated. Otherwise, a response message identical to the query message is transmitted prior to the communications restart.

Device Address

Function Code = 08 (hex)

Subfunction Hi = 00 (hex)

Subfunction Lo = 01 (hex)

Data Hi = xx (don't care)

Data Lo = xx (don't care)

CRC Hi error check

CRC Lo error check

Listen Only Mode

This query forces the addressed DGC-2020HD to the listen only mode for Modbus communications, isolating it from other devices on the network. No responses are returned.

While in the listen only mode, the DGC-2020HD continues to monitor all queries. The DGC-2020HD does not respond to any other query until the listen only mode is removed. All write requests with a query to Preset Multiple Registers (Function Code = 16) are also ignored. When the DGC-2020HD receives the restart communications query, the listen only mode is removed.

Device Address

Function Code = 08 (hex)

Subfunction Hi = 00 (hex)

Subfunction Lo = 04 (hex)

Data Hi = xx (don't care)
 Data Lo = xx (don't care)
 CRC Hi error check
 CRC Lo error check

Preset Multiple Registers

A preset multiple registers query could address multiple registers in one slave or multiple slaves. If the query is a broadcast (device address = 0), no response message is returned.

Query

A Preset Multiple Register query message requests a register or block of registers to be written. The data block contains the starting address and the quantity of registers to be written, followed by the Data Block byte count and data. The DGC-2020HD will perform the write when the device address in query is a broadcast address or the same as the DGC-2020HD Modbus Unit ID (device address).

A register address of N will write Holding Register N+1.

Data will cease to be written if any of the following exceptions occur:

- Queries to write to Read Only registers result in an error response with Exception Code of "Illegal Data Address".
- Queries attempting to write more than 100 registers cause an error response with Exception Code "Illegal Function".
- An incorrect Byte Count will result in an error response with Exception Code of "Illegal Data Value".
- There are several instances of registers that are grouped together to collectively represent a single numerical DGC-2020HD data value (i.e. - floating point data, 32-bit integer data, and strings). A query to write a subset of such a register group will result in an error response with Exception Code "Illegal Data Address".
- A query to write a not allowed value (out of range) to a register results in an error response with Exception Code of "Illegal Data Value".

Device Address

Function Code = 10 (hex)

Starting Address Hi

Starting Address Lo

No. of Registers Hi

No. of Registers Lo

Byte Count

Data Hi

Data Lo

.

.

Data Hi

Data Lo

CRC Hi error check

CRC Lo error check

Response

The response message echoes the starting address and the number of registers. There is no response message when the query is a broadcast (device address = 0).

Device Address

Function Code = 10 (hex)

Starting Address Hi

Starting Address Lo

No. of Registers Hi

No. of Registers Lo
 CRC Hi Error Check
 CRC Lo Error Check

Preset Single Register

A Preset Single Register query message requests a single register to be written. If the query is a broadcast (device address = 0), no response message is returned.

Note: Only data types INT16, INT8, UINT16, UINT8, and String (not longer than 2 bytes), can be preset by this function.

Query

Data will cease to be written if any of the following exceptions occur.

- Queries to write to Read Only registers result in an error response with Exception Code of “Illegal Data Address”.
- A query to write an unallowed value (out of range) to a register results in an error response with Exception Code of “Illegal Data Value”.

Device Address

Function Code = 06 (hex)

Address Hi

Address Lo

Data Hi

Data Lo

CRC Hi error check

CRC Lo error check

Response

The response message echoes the Query message after the register has been altered.

Data Formats

DGC-2020HD systems support the following data types:

- Data types mapped to 1 register
 - o Unsigned Integer 8 (UInt8)
 - o Unsigned Integer 16 (UInt16)
 - o Strings maximum 2 characters long (String)
- Data types mapped to 2 registers
 - o Signed Integer 32 (Int32)
 - o Unsigned Integer 32 (UInt32)
 - o 32-bit bit-mapped parameters
 - o Floating Point (Float)
 - o IP Address (IP Address)
 - o Strings maximum 4 characters long (String)
- Data types mapped to more than 2 registers
 - o Strings longer than 4 characters (String)

Short Integer Data Format/Byte Character Data Format (UInt8)

The Modbus short integer data format uses a single holding register to represent an 8-bit data value. The holding register high byte will always be zero.

Example: The value 132 represented in short integer format is hexadecimal 0x84. This number will read from a holding register as follows:

Holding Register	Value
K (Hi Byte)	hex 00
K (Lo Byte)	hex 84

The same byte alignments are required to write.

Integer Data Format (Uint16) or Bit-Mapped Variables in Uint16 Format

The Modbus integer data format uses a single holding register to represent a 16-bit data value.

Example: The value 4660 represented in integer format is hexadecimal 0x1234. This number will read from a holding register as follows:

Holding Register	Value
K (Hi Byte)	hex 12
K (Lo Byte)	hex 34

The same byte alignments are required to write.

The Uint16 Data Format is listed in *Binary Points* below.

Example: Register 1100 occupies 16 rows in the Register Table where each row gives the name of specific bit-mapped data such as 1100-0 indicates bit 0 of register 1100 is mapped to RF-TRIG.

Long Integer Data Format (Uint32, Int32, and IP Address)

The Modbus long integer data format uses two consecutive holding registers to represent a 32-bit data value. The first register contains the low-order 16 bits and the second register contains the high-order 16 bits.

Example: The value 95,800 represented in long integer format is hexadecimal 0x00017638. This number will read from two consecutive holding registers as follows:

Holding Register	Value
K (Hi Byte)	hex 76
K (Lo Byte)	hex 38
K+1(Hi Byte)	hex 00
K+1(Lo Byte)	hex 01

The same byte alignments are required to write.

32-bit Bit-Mapped Parameter Mapping

The register arrangement for 32-bit bit-mapped parameters is illustrated in Figure 3. The Alarm Metering registers 44812 and 44813 in the legacy Modbus map are shown as an example. In this example, Bit 25 is set indicating an Overcrank condition and Bit 17 is set indicating a Global Alarm.

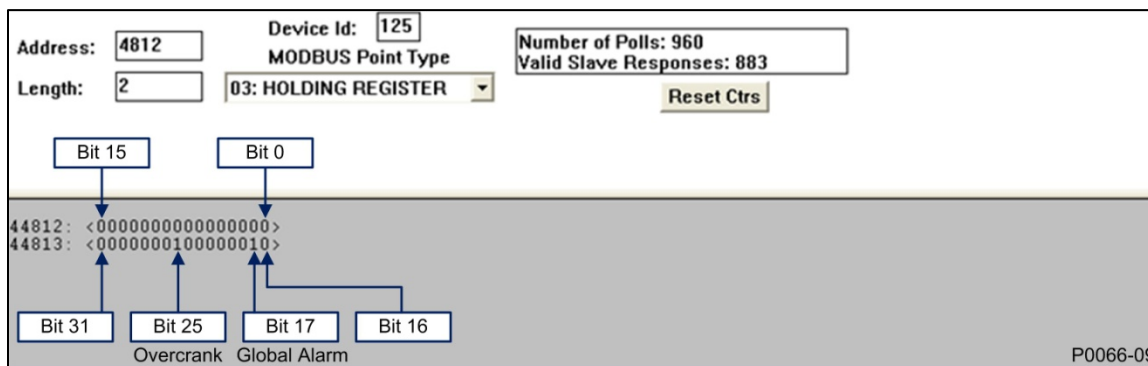


Figure 3. 32-Bit Bit-Mapped Parameter Mapping

The Alarm Metering register bits are defined as follows:

- Bit 0 through Bit 15 = Not Used
- Bit 16 = Unexpected Shutdown
- Bit 17 = Global Alarm
- Bit 18 = Auto Restart Failure
- Bit 19 = Fuel Leak Detect
- Bit 20 = Battery Charger Failure
- Bit 21 = Transfer Fail
- Bit 22 = Low Coolant Level
- Bit 23 = ECU Shutdown
- Bit 24 = Emergency Shutdown
- Bit 25 = Overcrank
- Bit 26 = Loss of ECU Comms
- Bit 27 = Global Sender Fail
- Bit 28 = Low Fuel Level
- Bit 29 = Low Oil Pressure
- Bit 30 = Hi Coolant Temp
- Bit 31 = Overspeed

Floating Point Data Format (Float)

The Modbus floating point data format uses two consecutive holding registers to represent a data value. The first register contains the low-order 16 bits of the following 32-bit format:

- MSB is the sign bit for the floating-point value (0 = positive).
- The next 8 bits are the exponent biased by 127 decimal.
- The 23 LSBs comprise the normalized mantissa. The most-significant bit of the mantissa is always assumed to be 1 and is not explicitly stored, yielding an effective precision of 24 bits.

The value of the floating-point number is obtained by multiplying the binary mantissa times two raised to the power of the unbiased exponent. The assumed bit of the binary mantissa has the value of 1.0, with the remaining 23 bits providing a fractional value. Table 4 shows the floating-point format.

Table 4. Floating Point Format

Sign	Exponent + 127	Mantissa
1 Bit	8 Bits	23 Bits

The floating-point format allows for values ranging from approximately 8.43×10^{-37} to 3.38×10^{38} . A floating-point value of all zeroes is the value zero. A floating-point value of all ones (not a number) signifies a value currently not applicable or disabled.

Example: The value 95,800 represented in floating-point format is hexadecimal 47BB1C00. This number will read from two consecutive holding registers as follows:

Holding Register	Value
K (Hi Byte)	hex 1C
K (Lo Byte)	hex 00
K+1(Hi Byte)	hex 47
K+1(Lo Byte)	hex BB

The same byte alignments are required to write.

String Data Format (String)

The Modbus string data format uses one or more holding registers to represent a sequence, or string, of character values. If the string contains a single character, the holding register high byte will contain the ASCII character code and the low byte will be zero.

Example: The string "PASSWORD" represented in string format will read as follows:

Holding Register	Value
K (Hi Byte)	'P'
K (Lo Byte)	'A'
K+1(Hi Byte)	'S'
K+1(Lo Byte)	'S'
K+2(Hi Byte)	'W'
K+2(Lo Byte)	'O'

K+3(Hi Byte) 'R'
K+3(Lo Byte) 'D'

Example: If the above string is changed to "P", the new string will read as follows:

<u>Holding Register</u>	<u>Value</u>
K (Hi Byte)	'P'
K (Lo Byte)	hex 00
K+1(Hi Byte)	hex 00
K+1(Lo Byte)	hex 00
K+2(Hi Byte)	hex 00
K+2(Lo Byte)	hex 00
K+3(Hi Byte)	hex 00
K+3(Lo Byte)	hex 00

The same byte alignments are required to write.

CRC Error Check

This field contains a two-byte CRC value for transmission error detection. The master first calculates the CRC and appends it to the query message. The DGC-2020HD system recalculates the CRC value for the received query and performs a comparison to the query CRC value to determine if a transmission error has occurred. If so, no response message is generated. If no transmission error has occurred, the slave calculates a new CRC value for the response message and appends it to the message for transmission.

The CRC calculation is performed using all bytes of the device address, function code, and data block fields. A 16-bit CRC-register is initialized to all 1's. Then each eight-bit byte of the message is used in the following algorithm:

First, exclusive-OR the message byte with the low-order byte of the CRC-register. The result, stored in the CRC-register, will then be right-shifted eight times. The CRC-register MSB is zero-filled with each shift. After each shift, the CRC-register LSB is examined. If the LSB IS a 1, the CRC-register is then exclusive-ORed with the fixed polynomial value A001 (hex) prior to the next shift. Once all bytes of the message have undergone the above algorithm, the CRC-register will contain the message CRC value to be placed in the error check field.



General Register Table

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Reserved			1-35					
Land Line Modem	Modem Answer Rings	GG	37	UInt8	1	R W	n/a	1 - 9
Land Line Modem	Modem Offline Delay	GG	38	UInt16	2	R W	Minute	1 - 240
Land Line Modem	Inter Dialout Activation Delay	GG	39	UInt8	1	R W	n/a	15 SEC=15 30 SEC=30 60 SEC=60 120 SEC=120
Land Line Modem	Pager Buffer Limit	GG	40	UInt8	1	R W	n/a	80 CHARS=80 120 CHARS=120 160 CHARS=160 200 CHARS=200
Land Line Modem	Pager Comms Data Format	GG	41	UInt8	1	R W	n/a	8 Bit No Parity=0 7 Bit Even Parity=1
System Data	Model Number	GG	42	String	64	R	n/a	0 - 64
System Data	Firmware Part Number	GG	74	String	64	R	n/a	0 - 64
System Data	External Version	GG	106	String	32	R	n/a	0 - 32
System Data	External Boot Version	GG	122	String	32	R	n/a	0 - 32
Time	Date	GG	138	String	16	R	n/a	0 - 16
Time	Time	GG	146	String	16	R	n/a	0 - 16
Time	Year	GG	154	UInt32	4	R W	n/a	2000 - 2099
Time	Month	GG	156	UInt32	4	R W	n/a	1 - 12
Time	Day	GG	158	UInt32	4	R W	n/a	1 - 31
Time	Hour	GG	160	UInt32	4	R W	n/a	0 - 23
Time	Minute	GG	162	UInt32	4	R W	n/a	0 - 59
Time	Second	GG	164	UInt32	4	R W	n/a	0 - 59
Time	Millisecond	GG	166	UInt32	4	R W	n/a	0 - 999
Time	Time Zone Hour Offset	GG	168	Int32	4	R W	n/a	-24 - 24
Time	Time Zone Minute Offset	GG	170	Int32	4	R W	n/a	-59 - 59
Time	DST Config	GG	172	UInt32	4	R W	n/a	Disabled=0 Floating=1 Fixed=2
Time	DST UTC Respective	GG	174	UInt32	4	R W	n/a	No=0 Yes=1
Time	DST Start Month	GG	176	UInt32	4	R W	n/a	January=0 February=1 March=2 April=3 May=4 June=5 July=6 August=7 September=8 October=9 November=10 December=11
Time	DST Start Day	GG	178	UInt32	4	R W	n/a	1 - 31
Time	DST Start Week Of Month	GG	180	UInt32	4	R W	n/a	First=0 Second=1 Third=2 Fourth=3 Last=4
Time	DST Start Day Of Week	GG	182	UInt32	4	R W	n/a	Sunday=0 Monday=1 Tuesday=2 Wednesday=3 Thursday=4 Friday=5 Saturday=6
Time	DST Start Hour	GG	184	UInt32	4	R W	n/a	0 - 23
Time	DST Start Minute	GG	186	UInt32	4	R W	n/a	0 - 59
Time	DST End Month	GG	188	UInt32	4	R W	n/a	January=0 February=1 March=2 April=3 May=4 June=5 July=6 August=7 September=8 October=9 November=10 December=11
Time	DST End Day	GG	190	UInt32	4	R W	n/a	1 - 31

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Time	DST End Week Of Month	GG	192	UInt32	4	R W	n/a	First=0 Second=1 Third=2 Fourth=3 Last=4
Time	DST End Day Of Week	GG	194	UInt32	4	R W	n/a	Sunday=0 Monday=1 Tuesday=2 Wednesday=3 Thursday=4 Friday=5 Saturday=6
Time	DST End Hour	GG	196	UInt32	4	R W	n/a	0 - 23
Time	DST End Minute	GG	198	UInt32	4	R W	n/a	0 - 59
Time	DST Bias Hours	GG	200	Int32	4	R W	n/a	-23 - 23
Time	DST Bias Minutes	GG	202	Int32	4	R W	n/a	-59 - 59
Time	Twelve-Hour Mode	GG	204	UInt32	4	R W	n/a	12 Hour Mode=0 24 Hour Mode=1
Time	Date Format	GG	206	UInt32	4	R W	n/a	YYYY-MM-DD=0 MM-DD-YYYY=1 DD-MM-YYYY=2
Unit Information	Style Number	GG	222	String	32	R W	n/a	0 - 32
Unit Information	Serial Number	GG	238	String	32	R W	n/a	0 - 32
Load Detection	EPS Threshold	GG	240	UInt32	4	R W	Percent	3 - 10
Load Detection	Low-Line Scale	GG	242	Float	4	R W	n/a	0.001 - 3
Load Share Settings	System Type	GG	244	UInt32	4	R W	n/a	Single Generator=0 Multiple Generator=1 Segmented Bus System=2
Load Share Settings	Enable Comms Fail Pre Alarm	GG	246	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Auto Restart	Auto Restart Enable	GG	248	UInt32	4	R W	n/a	No=0 Yes=1
Auto Restart	Auto Restart Timeout Sec	GG	250	UInt32	4	R W	Second	30 - 1800
Auto Restart	Auto Restart Attempts	GG	252	UInt32	4	R W	n/a	1 - 10
ECU Config	CANBus Enabled By User	GG	254	UInt32	4	R W	n/a	Disabled=0 Enabled=1
ECU Config	DTC Enable	GG	256	UInt32	4	R W	n/a	Disabled=0 Enabled=1
ECU Config	J1939 Source Address	GG	258	UInt32	4	R W	n/a	1 - 253
ECU Config	ECU Control Output	GG	260	UInt32	4	R W	n/a	FL CNTCT=0 PS CNTCT=1
ECU Config	Pulsing Enable	GG	262	UInt32	4	R W	n/a	Disabled=0 Enabled=1
ECU Config	ECU Settling Time	GG	264	UInt32	4	R W	Millisecond	5500 - 30000
ECU Config	ECU Pulse Cycle Time	GG	266	UInt32	4	R W	Minute	1 - 60
ECU Config	ECU Disconnect Time	GG	268	UInt32	4	R W	Second	1 - 60
ECU Config	ECU Connect Time	GG	270	UInt32	4	R W	Second	1 - 60
ECU Config	CAN Bus Eng Ctrl Param Transmit Enable	GG	272	UInt32	4	R W	n/a	Disabled=0 Enabled=1
ECU Config	Requested MTU SMC Eng Operating Mode	GG	274	UInt32	4	R W	n/a	1 - 2
ECU Config	SPN Conversion Method	GG	276	UInt32	4	R W	n/a	1 - 4
ECU Config	Voltage Regulator CANbus type	GG	278	UInt32	4	R W	n/a	None=0 Marathon=1 Basler=2 J1939=3
ECU Config	Voltage Regulator Primary Voltage Setpoint	GG	280	UInt32	4	R W	Decivolt	1000 - 6000
ECU Config	Voltage Regulator Alternate Voltage Setpoint	GG	282	UInt32	4	R W	Decivolt	1000 - 6000
ECU Config	Voltage Regulator Voltage Adjust Bandwidth	GG	284	UInt32	4	R W	Centivolt	0 - 3000
ECU Config	Voltage Regulator Field Current	GG	286	UInt32	4	R W	Milliamp	0 - 3000000
ECU Config	Voltage Regulator Primary Underfrequency Knee	GG	288	UInt32	4	R W	Decihertz	400 - 700
ECU Config	Voltage Regulator Alternate Underfrequency Knee	GG	290	UInt32	4	R W	Centiunit	400 - 700
ECU Config	Voltage Regulator Underfrequency Slope	GG	292	UInt32	4	R W	n/a	100 - 500
ECU Config	ECU Comms Fail Pre-Alarm Enable	GG	294	UInt32	4	R W	n/a	Disabled=0 Enabled=1
ECU Config	Active DTC Pre-Alarm Enable Data	GG	296	UInt32	4	R W	n/a	Disabled=0 Enabled=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Auto Transfer Switch	Contact Input	GG	298	Uint32	4	R W	n/a	None=0 Input 1=1 Input 2=2 Input 3=3 Input 4=4 Input 5=5 Input 6=6 Input 7=7 Input 8=8 Input 9=9 Input 10=10 Input 11=11 Input 12=12 Input 13=13 Input 14=14 Input 15=15 Input 16=16
Auto Transfer Switch	Contact Recognition	GG	300	Uint32	4	R W	n/a	Always=0 Engine Running=1
Auto Transfer Switch	Alarm Configuration	GG	302	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Auto Transfer Switch	Activation Delay	GG	304	Uint32	4	R W	Second	0 - 300
Grounded Delta Override	Contact Input	GG	306	Uint32	4	R W	n/a	None=0 Input 1=1 Input 2=2 Input 3=3 Input 4=4 Input 5=5 Input 6=6 Input 7=7 Input 8=8 Input 9=9 Input 10=10 Input 11=11 Input 12=12 Input 13=13 Input 14=14 Input 15=15 Input 16=16
Grounded Delta Override	Contact Recognition	GG	308	Uint32	4	R W	n/a	Always=0 Engine Running=1
Grounded Delta Override	Alarm Configuration	GG	310	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Grounded Delta Override	Activation Delay	GG	312	Uint32	4	R W	Second	0 - 300
Battle Override	Contact Input	GG	314	Uint32	4	R W	n/a	None=0 Input 1=1 Input 2=2 Input 3=3 Input 4=4 Input 5=5 Input 6=6 Input 7=7 Input 8=8 Input 9=9 Input 10=10 Input 11=11 Input 12=12 Input 13=13 Input 14=14 Input 15=15 Input 16=16
Battle Override	Contact Recognition	GG	316	Uint32	4	R W	n/a	Always=0 Engine Running=1
Battle Override	Alarm Configuration	GG	318	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Battle Override	Activation Delay	GG	320	Uint32	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Low-Line Override	Contact Input	GG	322	Uint32	4	R W	n/a	None=0 Input 1=1 Input 2=2 Input 3=3 Input 4=4 Input 5=5 Input 6=6 Input 7=7 Input 8=8 Input 9=9 Input 10=10 Input 11=11 Input 12=12 Input 13=13 Input 14=14 Input 15=15 Input 16=16
Low-Line Override	Contact Recognition	GG	324	Uint32	4	R W	n/a	Always=0 Engine Running=1
Low-Line Override	Alarm Configuration	GG	326	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Low-Line Override	Activation Delay	GG	328	Uint32	4	R W	Second	0 - 300
Single-Phase AC Override	Contact Input	GG	330	Uint32	4	R W	n/a	None=0 Input 1=1 Input 2=2 Input 3=3 Input 4=4 Input 5=5 Input 6=6 Input 7=7 Input 8=8 Input 9=9 Input 10=10 Input 11=11 Input 12=12 Input 13=13 Input 14=14 Input 15=15 Input 16=16
Single-Phase AC Override	Contact Recognition	GG	332	Uint32	4	R W	n/a	Always=0 Engine Running=1
Single-Phase AC Override	Alarm Configuration	GG	334	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Single-Phase AC Override	Activation Delay	GG	336	Uint32	4	R W	Second	0 - 300
Battery Charger Fail	Contact Input	GG	338	Uint32	4	R W	n/a	None=0 Input 1=1 Input 2=2 Input 3=3 Input 4=4 Input 5=5 Input 6=6 Input 7=7 Input 8=8 Input 9=9 Input 10=10 Input 11=11 Input 12=12 Input 13=13 Input 14=14 Input 15=15 Input 16=16
Battery Charger Fail	Contact Recognition	GG	340	Uint32	4	R W	n/a	Always=0 Engine Running=1
Battery Charger Fail	Alarm Configuration	GG	342	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Battery Charger Fail	Activation Delay	GG	344	Uint32	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Low Coolant Level	Contact Input	GG	346	Uint32	4	R W	n/a	None=0 Input 1=1 Input 2=2 Input 3=3 Input 4=4 Input 5=5 Input 6=6 Input 7=7 Input 8=8 Input 9=9 Input 10=10 Input 11=11 Input 12=12 Input 13=13 Input 14=14 Input 15=15 Input 16=16
Low Coolant Level	Contact Recognition	GG	348	Uint32	4	R W	n/a	Always=0 Engine Running=1
Low Coolant Level	Alarm Configuration	GG	350	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Low Coolant Level	Activation Delay	GG	352	Uint32	4	R W	Second	0 - 300
Fuel Leak Detect	Contact Input	GG	354	Uint32	4	R W	n/a	None=0 Input 1=1 Input 2=2 Input 3=3 Input 4=4 Input 5=5 Input 6=6 Input 7=7 Input 8=8 Input 9=9 Input 10=10 Input 11=11 Input 12=12 Input 13=13 Input 14=14 Input 15=15 Input 16=16
Fuel Leak Detect	Contact Recognition	GG	356	Uint32	4	R W	n/a	Always=0 Engine Running=1
Fuel Leak Detect	Alarm Configuration	GG	358	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Fuel Leak Detect	Activation Delay	GG	360	Uint32	4	R W	Second	0 - 300
Emergency Stop	Contact Input	GG	362	Uint32	4	R W	n/a	None=0 Input 1=1 Input 2=2 Input 3=3 Input 4=4 Input 5=5 Input 6=6 Input 7=7 Input 8=8 Input 9=9 Input 10=10 Input 11=11 Input 12=12 Input 13=13 Input 14=14 Input 15=15 Input 16=16
Emergency Stop	Contact Recognition	GG	364	Uint32	4	R W	n/a	Always=0 Engine Running=1
Emergency Stop	Alarm Configuration	GG	366	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Emergency Stop	Activation Delay	GG	368	Uint32	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Single-Phase Override	Contact Input	GG	370	Uint32	4	R W	n/a	None=0 Input 1=1 Input 2=2 Input 3=3 Input 4=4 Input 5=5 Input 6=6 Input 7=7 Input 8=8 Input 9=9 Input 10=10 Input 11=11 Input 12=12 Input 13=13 Input 14=14 Input 15=15 Input 16=16
Single-Phase Override	Contact Recognition	GG	372	Uint32	4	R W	n/a	Always=0 Engine Running=1
Config Element 1	Contact Recognition	GG	374	Uint32	4	R W	n/a	Always=0 Engine Running=1
Config Element 1	Alarm Configuration	GG	376	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Element 1	Activation Delay	GG	378	Uint32	4	R W	Second	0 - 300
Config Element 2	Contact Recognition	GG	380	Uint32	4	R W	n/a	Always=0 Engine Running=1
Config Element 2	Alarm Configuration	GG	382	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Element 2	Activation Delay	GG	384	Uint32	4	R W	Second	0 - 300
Config Element 3	Contact Recognition	GG	386	Uint32	4	R W	n/a	Always=0 Engine Running=1
Config Element 3	Alarm Configuration	GG	388	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Element 3	Activation Delay	GG	390	Uint32	4	R W	Second	0 - 300
Config Element 4	Contact Recognition	GG	392	Uint32	4	R W	n/a	Always=0 Engine Running=1
Config Element 4	Alarm Configuration	GG	394	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Element 4	Activation Delay	GG	396	Uint32	4	R W	Second	0 - 300
Config Element 5	Contact Recognition	GG	398	Uint32	4	R W	n/a	Always=0 Engine Running=1
Config Element 5	Alarm Configuration	GG	400	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Element 5	Activation Delay	GG	402	Uint32	4	R W	Second	0 - 300
Config Element 6	Contact Recognition	GG	404	Uint32	4	R W	n/a	Always=0 Engine Running=1
Config Element 6	Alarm Configuration	GG	406	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Element 6	Activation Delay	GG	408	Uint32	4	R W	Second	0 - 300
Config Element 7	Contact Recognition	GG	410	Uint32	4	R W	n/a	Always=0 Engine Running=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Config Element 7	Alarm Configuration	GG	412	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Element 7	Activation Delay	GG	414	Uint32	4	R W	Second	0 - 300
Config Element 8	Contact Recognition	GG	416	Uint32	4	R W	n/a	Always=0 Engine Running=1
Config Element 8	Alarm Configuration	GG	418	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Element 8	Activation Delay	GG	420	Uint32	4	R W	Second	0 - 300
Contact Input 1	Contact Recognition	GG	422	Uint32	4	R W	n/a	Always=0 Engine Running=1
Contact Input 1	Alarm Configuration	GG	424	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Contact Input 1	Activation Delay	GG	426	Uint32	4	R W	Second	0 - 300
Contact Input 2	Contact Recognition	GG	428	Uint32	4	R W	n/a	Always=0 Engine Running=1
Contact Input 2	Alarm Configuration	GG	430	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Contact Input 2	Activation Delay	GG	432	Uint32	4	R W	Second	0 - 300
Contact Input 3	Contact Recognition	GG	434	Uint32	4	R W	n/a	Always=0 Engine Running=1
Contact Input 3	Alarm Configuration	GG	436	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Contact Input 3	Activation Delay	GG	438	Uint32	4	R W	Second	0 - 300
Contact Input 4	Contact Recognition	GG	440	Uint32	4	R W	n/a	Always=0 Engine Running=1
Contact Input 4	Alarm Configuration	GG	442	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Contact Input 4	Activation Delay	GG	444	Uint32	4	R W	Second	0 - 300
Contact Input 5	Contact Recognition	GG	446	Uint32	4	R W	n/a	Always=0 Engine Running=1
Contact Input 5	Alarm Configuration	GG	448	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Contact Input 5	Activation Delay	GG	450	Uint32	4	R W	Second	0 - 300
Contact Input 6	Contact Recognition	GG	452	Uint32	4	R W	n/a	Always=0 Engine Running=1
Contact Input 6	Alarm Configuration	GG	454	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Contact Input 6	Activation Delay	GG	456	Uint32	4	R W	Second	0 - 300
Contact Input 7	Contact Recognition	GG	458	Uint32	4	R W	n/a	Always=0 Engine Running=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Contact Input 7	Alarm Configuration	GG	460	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Contact Input 7	Activation Delay	GG	462	Uint32	4	R W	Second	0 - 300
Contact Input 8	Contact Recognition	GG	464	Uint32	4	R W	n/a	Always=0 Engine Running=1
Contact Input 8	Alarm Configuration	GG	466	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Contact Input 8	Activation Delay	GG	468	Uint32	4	R W	Second	0 - 300
Contact Input 9	Contact Recognition	GG	470	Uint32	4	R W	n/a	Always=0 Engine Running=1
Contact Input 9	Alarm Configuration	GG	472	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Contact Input 9	Activation Delay	GG	474	Uint32	4	R W	Second	0 - 300
Contact Input 10	Contact Recognition	GG	476	Uint32	4	R W	n/a	Always=0 Engine Running=1
Contact Input 10	Alarm Configuration	GG	478	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Contact Input 10	Activation Delay	GG	480	Uint32	4	R W	Second	0 - 300
Contact Input 11	Contact Recognition	GG	482	Uint32	4	R W	n/a	Always=0 Engine Running=1
Contact Input 11	Alarm Configuration	GG	484	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Contact Input 11	Activation Delay	GG	486	Uint32	4	R W	Second	0 - 300
Contact Input 12	Contact Recognition	GG	488	Uint32	4	R W	n/a	Always=0 Engine Running=1
Contact Input 12	Alarm Configuration	GG	490	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Contact Input 12	Activation Delay	GG	492	Uint32	4	R W	Second	0 - 300
Contact Input 13	Contact Recognition	GG	494	Uint32	4	R W	n/a	Always=0 Engine Running=1
Contact Input 13	Alarm Configuration	GG	496	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Contact Input 13	Activation Delay	GG	498	Uint32	4	R W	Second	0 - 300
Contact Input 14	Contact Recognition	GG	500	Uint32	4	R W	n/a	Always=0 Engine Running=1
Contact Input 14	Alarm Configuration	GG	502	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Contact Input 14	Activation Delay	GG	504	Uint32	4	R W	Second	0 - 300
Contact Input 15	Contact Recognition	GG	506	Uint32	4	R W	n/a	Always=0 Engine Running=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Contact Input 15	Alarm Configuration	GG	508	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Contact Input 15	Activation Delay	GG	510	Uint32	4	R W	Second	0 - 300
Contact Input 16	Contact Recognition	GG	512	Uint32	4	R W	n/a	Always=0 Engine Running=1
Contact Input 16	Alarm Configuration	GG	514	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Contact Input 16	Activation Delay	GG	516	Uint32	4	R W	Second	0 - 300
CEM 1 Contact Input 1	Contact Recognition	GG	518	Uint32	4	R W	n/a	Always=0 Engine Running=1
CEM 1 Contact Input 1	Alarm Configuration	GG	520	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 1 Contact Input 1	Activation Delay	GG	522	Uint32	4	R W	Second	0 - 300
CEM 1 Contact Input 2	Contact Recognition	GG	524	Uint32	4	R W	n/a	Always=0 Engine Running=1
CEM 1 Contact Input 2	Alarm Configuration	GG	526	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 1 Contact Input 2	Activation Delay	GG	528	Uint32	4	R W	Second	0 - 300
CEM 1 Contact Input 3	Contact Recognition	GG	530	Uint32	4	R W	n/a	Always=0 Engine Running=1
CEM 1 Contact Input 3	Alarm Configuration	GG	532	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 1 Contact Input 3	Activation Delay	GG	534	Uint32	4	R W	Second	0 - 300
CEM 1 Contact Input 4	Contact Recognition	GG	536	Uint32	4	R W	n/a	Always=0 Engine Running=1
CEM 1 Contact Input 4	Alarm Configuration	GG	538	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 1 Contact Input 4	Activation Delay	GG	540	Uint32	4	R W	Second	0 - 300
CEM 1 Contact Input 5	Contact Recognition	GG	542	Uint32	4	R W	n/a	Always=0 Engine Running=1
CEM 1 Contact Input 5	Alarm Configuration	GG	544	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 1 Contact Input 5	Activation Delay	GG	546	Uint32	4	R W	Second	0 - 300
CEM 1 Contact Input 6	Contact Recognition	GG	548	Uint32	4	R W	n/a	Always=0 Engine Running=1
CEM 1 Contact Input 6	Alarm Configuration	GG	550	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 1 Contact Input 6	Activation Delay	GG	552	Uint32	4	R W	Second	0 - 300
CEM 1 Contact Input 7	Contact Recognition	GG	554	Uint32	4	R W	n/a	Always=0 Engine Running=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
CEM 1 Contact Input 7	Alarm Configuration	GG	556	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 1 Contact Input 7	Activation Delay	GG	558	UInt32	4	R W	Second	0 - 300
CEM 1 Contact Input 8	Contact Recognition	GG	560	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 1 Contact Input 8	Alarm Configuration	GG	562	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 1 Contact Input 8	Activation Delay	GG	564	UInt32	4	R W	Second	0 - 300
CEM 1 Contact Input 9	Contact Recognition	GG	566	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 1 Contact Input 9	Alarm Configuration	GG	568	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 1 Contact Input 9	Activation Delay	GG	570	UInt32	4	R W	Second	0 - 300
CEM 1 Contact Input 10	Contact Recognition	GG	572	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 1 Contact Input 10	Alarm Configuration	GG	574	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 1 Contact Input 10	Activation Delay	GG	576	UInt32	4	R W	Second	0 - 300
CEM 2 Contact Input 1	Contact Recognition	GG	578	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 2 Contact Input 1	Alarm Configuration	GG	580	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 2 Contact Input 1	Activation Delay	GG	582	UInt32	4	R W	Second	0 - 300
CEM 2 Contact Input 2	Contact Recognition	GG	584	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 2 Contact Input 2	Alarm Configuration	GG	586	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 2 Contact Input 2	Activation Delay	GG	588	UInt32	4	R W	Second	0 - 300
CEM 2 Contact Input 3	Contact Recognition	GG	590	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 2 Contact Input 3	Alarm Configuration	GG	592	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 2 Contact Input 3	Activation Delay	GG	594	UInt32	4	R W	Second	0 - 300
CEM 2 Contact Input 4	Contact Recognition	GG	596	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 2 Contact Input 4	Alarm Configuration	GG	598	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 2 Contact Input 4	Activation Delay	GG	600	UInt32	4	R W	Second	0 - 300
CEM 2 Contact Input 5	Contact Recognition	GG	602	UInt32	4	R W	n/a	Always=0 Engine Running=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
CEM 2 Contact Input 5	Alarm Configuration	GG	604	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 2 Contact Input 5	Activation Delay	GG	606	UInt32	4	R W	Second	0 - 300
CEM 2 Contact Input 6	Contact Recognition	GG	608	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 2 Contact Input 6	Alarm Configuration	GG	610	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 2 Contact Input 6	Activation Delay	GG	612	UInt32	4	R W	Second	0 - 300
CEM 2 Contact Input 7	Contact Recognition	GG	614	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 2 Contact Input 7	Alarm Configuration	GG	616	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 2 Contact Input 7	Activation Delay	GG	618	UInt32	4	R W	Second	0 - 300
CEM 2 Contact Input 8	Contact Recognition	GG	620	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 2 Contact Input 8	Alarm Configuration	GG	622	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 2 Contact Input 8	Activation Delay	GG	624	UInt32	4	R W	Second	0 - 300
CEM 2 Contact Input 9	Contact Recognition	GG	626	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 2 Contact Input 9	Alarm Configuration	GG	628	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 2 Contact Input 9	Activation Delay	GG	630	UInt32	4	R W	Second	0 - 300
CEM 2 Contact Input 10	Contact Recognition	GG	632	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 2 Contact Input 10	Alarm Configuration	GG	634	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 2 Contact Input 10	Activation Delay	GG	636	UInt32	4	R W	Second	0 - 300
CEM 3 Contact Input 1	Contact Recognition	GG	638	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 3 Contact Input 1	Alarm Configuration	GG	640	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 3 Contact Input 1	Activation Delay	GG	642	UInt32	4	R W	Second	0 - 300
CEM 3 Contact Input 2	Contact Recognition	GG	644	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 3 Contact Input 2	Alarm Configuration	GG	646	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 3 Contact Input 2	Activation Delay	GG	648	UInt32	4	R W	Second	0 - 300
CEM 3 Contact Input 3	Contact Recognition	GG	650	UInt32	4	R W	n/a	Always=0 Engine Running=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
CEM 3 Contact Input 3	Alarm Configuration	GG	652	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 3 Contact Input 3	Activation Delay	GG	654	UInt32	4	R W	Second	0 - 300
CEM 3 Contact Input 4	Contact Recognition	GG	656	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 3 Contact Input 4	Alarm Configuration	GG	658	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 3 Contact Input 4	Activation Delay	GG	660	UInt32	4	R W	Second	0 - 300
CEM 3 Contact Input 5	Contact Recognition	GG	662	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 3 Contact Input 5	Alarm Configuration	GG	664	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 3 Contact Input 5	Activation Delay	GG	666	UInt32	4	R W	Second	0 - 300
CEM 3 Contact Input 6	Contact Recognition	GG	668	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 3 Contact Input 6	Alarm Configuration	GG	670	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 3 Contact Input 6	Activation Delay	GG	672	UInt32	4	R W	Second	0 - 300
CEM 3 Contact Input 7	Contact Recognition	GG	674	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 3 Contact Input 7	Alarm Configuration	GG	676	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 3 Contact Input 7	Activation Delay	GG	678	UInt32	4	R W	Second	0 - 300
CEM 3 Contact Input 8	Contact Recognition	GG	680	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 3 Contact Input 8	Alarm Configuration	GG	682	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 3 Contact Input 8	Activation Delay	GG	684	UInt32	4	R W	Second	0 - 300
CEM 3 Contact Input 9	Contact Recognition	GG	686	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 3 Contact Input 9	Alarm Configuration	GG	688	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 3 Contact Input 9	Activation Delay	GG	690	UInt32	4	R W	Second	0 - 300
CEM 3 Contact Input 10	Contact Recognition	GG	692	UInt32	4	R W	n/a	Always=0 Engine Running=1
CEM 3 Contact Input 10	Alarm Configuration	GG	694	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 3 Contact Input 10	Activation Delay	GG	696	UInt32	4	R W	Second	0 - 300
CEM 4 Contact Input 1	Contact Recognition	GG	698	UInt32	4	R W	n/a	Always=0 Engine Running=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
CEM 4 Contact Input 1	Alarm Configuration	GG	700	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 4 Contact Input 1	Activation Delay	GG	702	Uint32	4	R W	Second	0 - 300
CEM 4 Contact Input 2	Contact Recognition	GG	704	Uint32	4	R W	n/a	Always=0 Engine Running=1
CEM 4 Contact Input 2	Alarm Configuration	GG	706	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 4 Contact Input 2	Activation Delay	GG	708	Uint32	4	R W	Second	0 - 300
CEM 4 Contact Input 3	Contact Recognition	GG	710	Uint32	4	R W	n/a	Always=0 Engine Running=1
CEM 4 Contact Input 3	Alarm Configuration	GG	712	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 4 Contact Input 3	Activation Delay	GG	714	Uint32	4	R W	Second	0 - 300
CEM 4 Contact Input 4	Contact Recognition	GG	716	Uint32	4	R W	n/a	Always=0 Engine Running=1
CEM 4 Contact Input 4	Alarm Configuration	GG	718	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 4 Contact Input 4	Activation Delay	GG	720	Uint32	4	R W	Second	0 - 300
CEM 4 Contact Input 5	Contact Recognition	GG	722	Uint32	4	R W	n/a	Always=0 Engine Running=1
CEM 4 Contact Input 5	Alarm Configuration	GG	724	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 4 Contact Input 5	Activation Delay	GG	726	Uint32	4	R W	Second	0 - 300
CEM 4 Contact Input 6	Contact Recognition	GG	728	Uint32	4	R W	n/a	Always=0 Engine Running=1
CEM 4 Contact Input 6	Alarm Configuration	GG	730	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 4 Contact Input 6	Activation Delay	GG	732	Uint32	4	R W	Second	0 - 300
CEM 4 Contact Input 7	Contact Recognition	GG	734	Uint32	4	R W	n/a	Always=0 Engine Running=1
CEM 4 Contact Input 7	Alarm Configuration	GG	736	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 4 Contact Input 7	Activation Delay	GG	738	Uint32	4	R W	Second	0 - 300
CEM 4 Contact Input 8	Contact Recognition	GG	740	Uint32	4	R W	n/a	Always=0 Engine Running=1
CEM 4 Contact Input 8	Alarm Configuration	GG	742	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 4 Contact Input 8	Activation Delay	GG	744	Uint32	4	R W	Second	0 - 300
CEM 4 Contact Input 9	Contact Recognition	GG	746	Uint32	4	R W	n/a	Always=0 Engine Running=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
CEM 4 Contact Input 9	Alarm Configuration	GG	748	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 4 Contact Input 9	Activation Delay	GG	750	Uint32	4	R W	Second	0 - 300
CEM 4 Contact Input 10	Contact Recognition	GG	752	Uint32	4	R W	n/a	Always=0 Engine Running=1
CEM 4 Contact Input 10	Alarm Configuration	GG	754	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
CEM 4 Contact Input 10	Activation Delay	GG	756	Uint32	4	R W	Second	0 - 300
Auto Config Detect	Enable	GG	758	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Auto Config Detect	Single-Phase Detection Threshold	GG	760	Float	4	R W	Volt	0 - 480
Auto Config Detect	Single-Phase Detection Gen Connection	GG	762	Uint32	4	R W	n/a	AB=0 AC=1
Auto Config Detect	Low-Line Detection Threshold	GG	764	Float	4	R W	Volt	0 - 480
ECU Config	MDEC Module Type	GG	766	Uint32	4	R W	n/a	201=1 302=2 303=3 304=4
ECU Config	MDEC Speed Demand Source	GG	768	Uint32	4	R W	n/a	ALG CAN=0 U/D ECU=1 U/D CAN=2 ALG ECU=3 Frequency=4 DEF ECU=5
ECU Config	G Volvo Accel Pedal Position	GG	770	Uint32	4	R W	Percent	0 - 100
ECU Config	Volvo RPM Select	GG	772	Uint32	4	R W	n/a	Primary=0 Secondary=1
ECU Config	J1939 Start/Stop Config	GG	774	Uint32	4	R W	n/a	Standard=0 Volvo Penta=1 MTU MDEC=2 MTU ADEC=3 MTU ECU7/8=4 GM/Doosan=5 Cummins=6 MTU SMC=7 Scania=8 John Deere=9 Isuzu=10 Daimler CPC4=11
ECU Config	MTU Request Test Overspeed	GG	776	Uint32	4	R W	n/a	Off=0 On=1
ECU Config	MTU Governor Switchover Parameters	GG	778	Uint32	4	R W	n/a	Off=0 On=1
ECU Config	MTU Intermittent Oil Prime Request	GG	780	Uint32	4	R W	n/a	Off=0 On=1
ECU Config	MTU Trip Info Reset Request	GG	782	Uint32	4	R W	n/a	Off=0 On=1
ECU Config	MTU Speed Inc	GG	784	Uint32	4	R W	n/a	Off=0 On=1
ECU Config	MTU Speed Dec	GG	786	Uint32	4	R W	n/a	Off=0 On=1
ECU Config	MTU Speed Demand Limit Boolean	GG	788	Uint32	4	R W	n/a	Off=0 On=1
ECU Config	MTU Mode Switch	GG	790	Uint32	4	R W	n/a	Off=0 On=1
ECU Config	MTU Increased Idle	GG	792	Uint32	4	R W	n/a	0 - 1000
ECU Config	MTU Gov Param Set Select	GG	794	Uint32	4	R W	n/a	0 - 1000
ECU Config	MTU Fan Override	GG	796	Uint32	4	R W	n/a	Off=0 On=1
ECU Config	MTU Prime On Engine Start	GG	798	Uint32	4	R W	n/a	Off=0 On=1
ECU Config	MTU Can Rating SW 1	GG	800	Uint32	4	R W	n/a	Off=0 On=1
ECU Config	MTU Can Rating SW 2	GG	802	Uint32	4	R W	n/a	Off=0 On=1
ECU Config	MTU Disable Cylinder Cutout 1	GG	804	Uint32	4	R W	n/a	Off=0 On=1
ECU Config	MTU Disable Cylinder Cutout 2	GG	806	Uint32	4	R W	n/a	Off=0 On=1
ECU Config	MTU Ecu 7 Module Type	GG	808	Uint32	4	R W	n/a	501=0 502=1
ECU Config	MTU Nmt Alive Repeat Milliseconds	GG	810	Uint32	4	R W	Millisecond	100 - 500
ECU Config	Generator Parameter Transmit Enable	GG	812	Uint32	4	R W	n/a	Disabled=0 Enabled=1
ECU Config	DPF Manual Regenerate	GG	814	Uint32	4	R W	n/a	Off=0 On=1
ECU Config	DPF Regeneration Disable	GG	816	Uint32	4	R W	n/a	Off=0 On=1
ECU Config	J1939 Speed Torque Transmit Enable	GG	818	Uint32	4	R W	n/a	Disabled=0 Enabled=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
ECU Config	Clear Active DTC List	GG	820	UInt32	4	R W	n/a	Disabled=0 Enabled=1
ECU Config	Clear Previous DTC List	GG	822	UInt32	4	R W	n/a	Disabled=0 Enabled=1
ECU Config	John Deere Regeneration Interlock	GG	824	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Email	SMTP Server IP Address	GG	826	IP Address	4	R W	n/a	n/a
Email	Mode	GG	828	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Broadcast Logic	Enable	GG	830	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Load Share Settings	Aux Input	GG	832	UInt32	4	R W	n/a	Analog Input 1=0 Analog Input 2=1 Analog Input 3=2 Analog Input 4=3 AEM 1 Analog Input 1=4 AEM 1 Analog Input 2=5 AEM 1 Analog Input 3=6 AEM 1 Analog Input 4=7 AEM 1 Analog Input 5=8 AEM 1 Analog Input 6=9 AEM 1 Analog Input 7=10 AEM 1 Analog Input 8=11 AEM 2 Analog Input 1=12 AEM 2 Analog Input 2=13 AEM 2 Analog Input 3=14 AEM 2 Analog Input 4=15 AEM 2 Analog Input 5=16 AEM 2 Analog Input 6=17 AEM 2 Analog Input 7=18 AEM 2 Analog Input 8=19 AEM 3 Analog Input 1=20 AEM 3 Analog Input 2=21 AEM 3 Analog Input 3=22 AEM 3 Analog Input 4=23 AEM 3 Analog Input 5=24 AEM 3 Analog Input 6=25 AEM 3 Analog Input 7=26 AEM 3 Analog Input 8=27 AEM 4 Analog Input 1=28 AEM 4 Analog Input 2=29 AEM 4 Analog Input 3=30 AEM 4 Analog Input 4=31 AEM 4 Analog Input 5=32 AEM 4 Analog Input 6=33 AEM 4 Analog Input 7=34 AEM 4 Analog Input 8=35
ECU Config	Engine ECU Address	GG	834	UInt32	4	R W	n/a	0 - 254

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
ECU Config	Coolant Temperature Source	GG	836	UInt32	4	R W	n/a	ECU=0 DGC Input=1
ECU Config	Oil Pressure Source	GG	838	UInt32	4	R W	n/a	ECU=0 DGC Input=1
Contact Input 1	Contact Type	GG	840	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
Contact Input 2	Contact Type	GG	842	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
Contact Input 3	Contact Type	GG	844	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
Contact Input 4	Contact Type	GG	846	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
Contact Input 5	Contact Type	GG	848	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
Contact Input 6	Contact Type	GG	850	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
Contact Input 7	Contact Type	GG	852	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
Contact Input 8	Contact Type	GG	854	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
Contact Input 9	Contact Type	GG	856	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
Contact Input 10	Contact Type	GG	858	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
Contact Input 11	Contact Type	GG	860	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
Contact Input 12	Contact Type	GG	862	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
Contact Input 13	Contact Type	GG	864	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
Contact Input 14	Contact Type	GG	866	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
Contact Input 15	Contact Type	GG	868	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
Contact Input 16	Contact Type	GG	870	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 1 Contact Input 1	Contact Type	GG	872	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 1 Contact Input 2	Contact Type	GG	874	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 1 Contact Input 3	Contact Type	GG	876	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 1 Contact Input 4	Contact Type	GG	878	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 1 Contact Input 5	Contact Type	GG	880	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 1 Contact Input 6	Contact Type	GG	882	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 1 Contact Input 7	Contact Type	GG	884	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 1 Contact Input 8	Contact Type	GG	886	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 1 Contact Input 9	Contact Type	GG	888	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 1 Contact Input 10	Contact Type	GG	890	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 2 Contact Input 1	Contact Type	GG	892	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 2 Contact Input 2	Contact Type	GG	894	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 2 Contact Input 3	Contact Type	GG	896	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 2 Contact Input 4	Contact Type	GG	898	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 2 Contact Input 5	Contact Type	GG	900	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 2 Contact Input 6	Contact Type	GG	902	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 2 Contact Input 7	Contact Type	GG	904	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 2 Contact Input 8	Contact Type	GG	906	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 2 Contact Input 9	Contact Type	GG	908	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 2 Contact Input 10	Contact Type	GG	910	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 3 Contact Input 1	Contact Type	GG	912	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
CEM 3 Contact Input 2	Contact Type	GG	914	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 3 Contact Input 3	Contact Type	GG	916	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 3 Contact Input 4	Contact Type	GG	918	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 3 Contact Input 5	Contact Type	GG	920	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 3 Contact Input 6	Contact Type	GG	922	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 3 Contact Input 7	Contact Type	GG	924	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 3 Contact Input 8	Contact Type	GG	926	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 3 Contact Input 9	Contact Type	GG	928	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 3 Contact Input 10	Contact Type	GG	930	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 4 Contact Input 1	Contact Type	GG	932	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 4 Contact Input 2	Contact Type	GG	934	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 4 Contact Input 3	Contact Type	GG	936	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 4 Contact Input 4	Contact Type	GG	938	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 4 Contact Input 5	Contact Type	GG	940	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 4 Contact Input 6	Contact Type	GG	942	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 4 Contact Input 7	Contact Type	GG	944	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 4 Contact Input 8	Contact Type	GG	946	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 4 Contact Input 9	Contact Type	GG	948	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
CEM 4 Contact Input 10	Contact Type	GG	950	UInt32	4	R W	n/a	Normally Open=0 Normally Closed=1
OEL	Alarm Configuration	GG	952	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
OEL	Activation Delay	GG	954	Float	4	R W	n/a	0 - 300
UEL	Alarm Configuration	GG	956	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
UEL	Activation Delay	GG	958	Float	4	R W	n/a	0 - 300
V/Hz Limit	Alarm Configuration	GG	960	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
V/Hz Limit	Activation Delay	GG	962	Float	4	R W	n/a	0 - 300
Security Center	Save Changes (Note: Any write to this register, regardless of value, causes a save to occur.)	GG	964	UInt32	4	R W	n/a	0 - 4294967295
ECU Config	Isuzu Memory Clear Request	GG	966	UInt32	4	R W	n/a	Off=0 On=1
ECU Config	Isuzu Escape Mode Request	GG	968	UInt32	4	R W	n/a	Off=0 On=1
ECU Config	Active DTC Alarm Enable Data	GG	970	UInt32	4	R W	n/a	Disabled=0 Enabled=1



Binary Points Register Table

Name	Description	Register	Bit	Type	Bytes	R/W	Range
Scale Factor Override	Alternate Frequency Override	1000	0	UInt16	2	R	False=0 True=1
Reserved		1000	1				
System Data	Logic 0	1000	2	UInt16	2	R	False=0 True=1
System Data	Logic 1	1000	3	UInt16	2	R	False=0 True=1
Alarms	Real-Time Clock Alarm	1000	4	UInt16	2	R	False=0 True=1
Alarms	Date/Time Set Alarm	1000	5	UInt16	2	R	False=0 True=1
Alarms	Firmware Change Alarm	1000	6	UInt16	2	R	False=0 True=1
Alarms	Frequency Out-of-Range Alarm	1000	7	UInt16	2	R	False=0 True=1
Alarms	Ethernet Link 1 Lost Alarm	1000	8	UInt16	2	R	False=0 True=1
Alarms	Ethernet Link 2 Lost Alarm	1000	9	UInt16	2	R	False=0 True=1
Alarms	USB COM Alarm	1000	10	UInt16	2	R	False=0 True=1
Alarms	IRIG Sync Lost Alarm	1000	11	UInt16	2	R	False=0 True=1
Alarms	Logic = None Alarm	1000	12	UInt16	2	R	False=0 True=1
Alarms	No User Setting Alarm	1000	13	UInt16	2	R	False=0 True=1
Alarms	NTP Sync Lost Alarm	1000	14	UInt16	2	R	False=0 True=1
Alarms	uP Reset Alarm	1000	15	UInt16	2	R	False=0 True=1
Alarms	Programmable Alarm 1	1001	0	UInt16	2	R	False=0 True=1
Alarms	Programmable Alarm 2	1001	1	UInt16	2	R	False=0 True=1
Alarms	Programmable Alarm 3	1001	2	UInt16	2	R	False=0 True=1
Alarms	Programmable Alarm 4	1001	3	UInt16	2	R	False=0 True=1
Alarms	Programmable Alarm 5	1001	4	UInt16	2	R	False=0 True=1
Alarms	Programmable Alarm 6	1001	5	UInt16	2	R	False=0 True=1
Alarms	Programmable Alarm 7	1001	6	UInt16	2	R	False=0 True=1
Alarms	Programmable Alarm 8	1001	7	UInt16	2	R	False=0 True=1
Alarms	Programmable Alarm 9	1001	8	UInt16	2	R	False=0 True=1
Alarms	Programmable Alarm 10	1001	9	UInt16	2	R	False=0 True=1
Alarms	Programmable Alarm 11	1001	10	UInt16	2	R	False=0 True=1
Alarms	Programmable Alarm 12	1001	11	UInt16	2	R	False=0 True=1
Alarms	Programmable Alarm 13	1001	12	UInt16	2	R	False=0 True=1
Alarms	Programmable Alarm 14	1001	13	UInt16	2	R	False=0 True=1
Alarms	Programmable Alarm 15	1001	14	UInt16	2	R	False=0 True=1
Alarms	Programmable Alarm 16	1001	15	UInt16	2	R	False=0 True=1
Alarms	Unsupported Number of AEMs	1002	0	UInt16	2	R	False=0 True=1
Alarms	Unsupported Number of CEMs	1002	1	UInt16	2	R	False=0 True=1
Alarms	Logic Alarm	1002	2	UInt16	2	R	False=0 True=1
Alarms	Logic Pre-Alarm	1002	3	UInt16	2	R	False=0 True=1
Alarms	Global Sender Fail Alarm	1002	4	UInt16	2	R	False=0 True=1
Alarms	Clock Not Set Alarm	1002	5	UInt16	2	R	False=0 True=1
Alarms	Clock Battery Low Alarm	1002	6	UInt16	2	R	False=0 True=1
Alarm Report	Alarm Output (Global Alarm)	1002	7	UInt16	2	R	False=0 True=1
Pre-Alarm Report	Alarm Output (Global Pre-Alarm)	1002	8	UInt16	2	R	False=0 True=1
Contact Outputs	Output 1	1002	9	UInt16	2	R	False=0 True=1
Contact Outputs	Output 2	1002	10	UInt16	2	R	False=0 True=1
Contact Outputs	Output 3	1002	11	UInt16	2	R	False=0 True=1
Contact Outputs	Output 4	1002	12	UInt16	2	R	False=0 True=1
Contact Outputs	Output 5	1002	13	UInt16	2	R	False=0 True=1
Contact Outputs	Output 6	1002	14	UInt16	2	R	False=0 True=1
Contact Outputs	Output 7	1002	15	UInt16	2	R	False=0 True=1
Contact Outputs	Output 8	1003	0	UInt16	2	R	False=0 True=1
Contact Outputs	Output 9	1003	1	UInt16	2	R	False=0 True=1
Contact Outputs	Output 10	1003	2	UInt16	2	R	False=0 True=1
Contact Outputs	Output 11	1003	3	UInt16	2	R	False=0 True=1
Contact Outputs	Output 12	1003	4	UInt16	2	R	False=0 True=1
Contact Outputs	Preheat Prelube Relay	1003	5	UInt16	2	R	False=0 True=1
Contact Outputs	Fuel Solenoid Relay	1003	6	UInt16	2	R	False=0 True=1
Contact Outputs	Master Start Relay	1003	7	UInt16	2	R	False=0 True=1
Virtual Switch	Virtual Switch 1	1003	8	UInt16	2	R	False=0 True=1
Virtual Switch	Virtual Switch 2	1003	9	UInt16	2	R	False=0 True=1
Virtual Switch	Virtual Switch 3	1003	10	UInt16	2	R	False=0 True=1
Virtual Switch	Virtual Switch 4	1003	11	UInt16	2	R	False=0 True=1
Virtual Switch	Virtual Switch 5	1003	12	UInt16	2	R	False=0 True=1
Virtual Switch	Virtual Switch 6	1003	13	UInt16	2	R	False=0 True=1
Buzzer	Alarm Silence Active	1003	14	UInt16	2	R	False=0 True=1
Power Meter	PF Lagging	1003	15	UInt16	2	R	False=0 True=1
Power Meter 2	PF Lagging	1004	0	UInt16	2	R	False=0 True=1
Power Meter 3	PF Lagging	1004	1	UInt16	2	R	False=0 True=1
27P-1	Block	1004	2	UInt16	2	R	False=0 True=1
27P-1	Pickup	1004	3	UInt16	2	R	False=0 True=1
27P-1	Trip	1004	4	UInt16	2	R	False=0 True=1
27P-1	Pre-Alarm	1004	5	UInt16	2	R	False=0 True=1
27P-1	Alarm	1004	6	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
27P-2	Block	1004	7	UInt16	2	R	False=0 True=1
27P-2	Pickup	1004	8	UInt16	2	R	False=0 True=1
27P-2	Trip	1004	9	UInt16	2	R	False=0 True=1
27P-2	Pre-Alarm	1004	10	UInt16	2	R	False=0 True=1
27P-2	Alarm	1004	11	UInt16	2	R	False=0 True=1
27P-3	Block	1004	12	UInt16	2	R	False=0 True=1
27P-3	Pickup	1004	13	UInt16	2	R	False=0 True=1
27P-3	Trip	1004	14	UInt16	2	R	False=0 True=1
27P-3	Pre-Alarm	1004	15	UInt16	2	R	False=0 True=1
27P-3	Alarm	1005	0	UInt16	2	R	False=0 True=1
27P-4	Block	1005	1	UInt16	2	R	False=0 True=1
27P-4	Pickup	1005	2	UInt16	2	R	False=0 True=1
27P-4	Trip	1005	3	UInt16	2	R	False=0 True=1
27P-4	Pre-Alarm	1005	4	UInt16	2	R	False=0 True=1
27P-4	Alarm	1005	5	UInt16	2	R	False=0 True=1
27P-5	Block	1005	6	UInt16	2	R	False=0 True=1
27P-5	Pickup	1005	7	UInt16	2	R	False=0 True=1
27P-5	Trip	1005	8	UInt16	2	R	False=0 True=1
27P-5	Pre-Alarm	1005	9	UInt16	2	R	False=0 True=1
27P-5	Alarm	1005	10	UInt16	2	R	False=0 True=1
27P-6	Block	1005	11	UInt16	2	R	False=0 True=1
27P-6	Pickup	1005	12	UInt16	2	R	False=0 True=1
27P-6	Trip	1005	13	UInt16	2	R	False=0 True=1
27P-6	Pre-Alarm	1005	14	UInt16	2	R	False=0 True=1
27P-6	Alarm	1005	15	UInt16	2	R	False=0 True=1
59P-1	Block	1006	0	UInt16	2	R	False=0 True=1
59P-1	Pickup	1006	1	UInt16	2	R	False=0 True=1
59P-1	Trip	1006	2	UInt16	2	R	False=0 True=1
59P-1	Pre-Alarm	1006	3	UInt16	2	R	False=0 True=1
59P-1	Alarm	1006	4	UInt16	2	R	False=0 True=1
59P-2	Block	1006	5	UInt16	2	R	False=0 True=1
59P-2	Pickup	1006	6	UInt16	2	R	False=0 True=1
59P-2	Trip	1006	7	UInt16	2	R	False=0 True=1
59P-2	Pre-Alarm	1006	8	UInt16	2	R	False=0 True=1
59P-2	Alarm	1006	9	UInt16	2	R	False=0 True=1
59P-3	Block	1006	10	UInt16	2	R	False=0 True=1
59P-3	Pickup	1006	11	UInt16	2	R	False=0 True=1
59P-3	Trip	1006	12	UInt16	2	R	False=0 True=1
59P-3	Pre-Alarm	1006	13	UInt16	2	R	False=0 True=1
59P-3	Alarm	1006	14	UInt16	2	R	False=0 True=1
59P-4	Block	1006	15	UInt16	2	R	False=0 True=1
59P-4	Pickup	1007	0	UInt16	2	R	False=0 True=1
59P-4	Trip	1007	1	UInt16	2	R	False=0 True=1
59P-4	Pre-Alarm	1007	2	UInt16	2	R	False=0 True=1
59P-4	Alarm	1007	3	UInt16	2	R	False=0 True=1
59P-5	Block	1007	4	UInt16	2	R	False=0 True=1
59P-5	Pickup	1007	5	UInt16	2	R	False=0 True=1
59P-5	Trip	1007	6	UInt16	2	R	False=0 True=1
59P-5	Pre-Alarm	1007	7	UInt16	2	R	False=0 True=1
59P-5	Alarm	1007	8	UInt16	2	R	False=0 True=1
59P-6	Block	1007	9	UInt16	2	R	False=0 True=1
59P-6	Pickup	1007	10	UInt16	2	R	False=0 True=1
59P-6	Trip	1007	11	UInt16	2	R	False=0 True=1
59P-6	Pre-Alarm	1007	12	UInt16	2	R	False=0 True=1
59P-6	Alarm	1007	13	UInt16	2	R	False=0 True=1
47-1	Block	1007	14	UInt16	2	R	False=0 True=1
47-1	Pickup	1007	15	UInt16	2	R	False=0 True=1
47-1	Trip	1008	0	UInt16	2	R	False=0 True=1
47-1	Pre-Alarm	1008	1	UInt16	2	R	False=0 True=1
47-1	Alarm	1008	2	UInt16	2	R	False=0 True=1
47-2	Block	1008	3	UInt16	2	R	False=0 True=1
47-2	Pickup	1008	4	UInt16	2	R	False=0 True=1
47-2	Trip	1008	5	UInt16	2	R	False=0 True=1
47-2	Pre-Alarm	1008	6	UInt16	2	R	False=0 True=1
47-2	Alarm	1008	7	UInt16	2	R	False=0 True=1
47-3	Block	1008	8	UInt16	2	R	False=0 True=1
47-3	Pickup	1008	9	UInt16	2	R	False=0 True=1
47-3	Trip	1008	10	UInt16	2	R	False=0 True=1
47-3	Pre-Alarm	1008	11	UInt16	2	R	False=0 True=1
47-3	Alarm	1008	12	UInt16	2	R	False=0 True=1
47-4	Block	1008	13	UInt16	2	R	False=0 True=1
47-4	Pickup	1008	14	UInt16	2	R	False=0 True=1
47-4	Trip	1008	15	UInt16	2	R	False=0 True=1
47-4	Pre-Alarm	1009	0	UInt16	2	R	False=0 True=1
47-4	Alarm	1009	1	UInt16	2	R	False=0 True=1
47-5	Block	1009	2	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
47-5	Pickup	1009	3	UInt16	2	R	False=0 True=1
47-5	Trip	1009	4	UInt16	2	R	False=0 True=1
47-5	Pre-Alarm	1009	5	UInt16	2	R	False=0 True=1
47-5	Alarm	1009	6	UInt16	2	R	False=0 True=1
47-6	Block	1009	7	UInt16	2	R	False=0 True=1
47-6	Pickup	1009	8	UInt16	2	R	False=0 True=1
47-6	Trip	1009	9	UInt16	2	R	False=0 True=1
47-6	Pre-Alarm	1009	10	UInt16	2	R	False=0 True=1
47-6	Alarm	1009	11	UInt16	2	R	False=0 True=1
81-1	Block	1009	12	UInt16	2	R	False=0 True=1
81-1	Pickup	1009	13	UInt16	2	R	False=0 True=1
81-1	Trip	1009	14	UInt16	2	R	False=0 True=1
81-1	Pre-Alarm	1009	15	UInt16	2	R	False=0 True=1
81-1	Alarm	1010	0	UInt16	2	R	False=0 True=1
81-2	Block	1010	1	UInt16	2	R	False=0 True=1
81-2	Pickup	1010	2	UInt16	2	R	False=0 True=1
81-2	Trip	1010	3	UInt16	2	R	False=0 True=1
81-2	Pre-Alarm	1010	4	UInt16	2	R	False=0 True=1
81-2	Alarm	1010	5	UInt16	2	R	False=0 True=1
81-3	Block	1010	6	UInt16	2	R	False=0 True=1
81-3	Pickup	1010	7	UInt16	2	R	False=0 True=1
81-3	Trip	1010	8	UInt16	2	R	False=0 True=1
81-3	Pre-Alarm	1010	9	UInt16	2	R	False=0 True=1
81-3	Alarm	1010	10	UInt16	2	R	False=0 True=1
81-4	Block	1010	11	UInt16	2	R	False=0 True=1
81-4	Pickup	1010	12	UInt16	2	R	False=0 True=1
81-4	Trip	1010	13	UInt16	2	R	False=0 True=1
81-4	Pre-Alarm	1010	14	UInt16	2	R	False=0 True=1
81-4	Alarm	1010	15	UInt16	2	R	False=0 True=1
81-5	Block	1011	0	UInt16	2	R	False=0 True=1
81-5	Pickup	1011	1	UInt16	2	R	False=0 True=1
81-5	Trip	1011	2	UInt16	2	R	False=0 True=1
81-5	Pre-Alarm	1011	3	UInt16	2	R	False=0 True=1
81-5	Alarm	1011	4	UInt16	2	R	False=0 True=1
81-6	Block	1011	5	UInt16	2	R	False=0 True=1
81-6	Pickup	1011	6	UInt16	2	R	False=0 True=1
81-6	Trip	1011	7	UInt16	2	R	False=0 True=1
81-6	Pre-Alarm	1011	8	UInt16	2	R	False=0 True=1
81-6	Alarm	1011	9	UInt16	2	R	False=0 True=1
81-7	Block	1011	10	UInt16	2	R	False=0 True=1
81-7	Pickup	1011	11	UInt16	2	R	False=0 True=1
81-7	Trip	1011	12	UInt16	2	R	False=0 True=1
81-7	Pre-Alarm	1011	13	UInt16	2	R	False=0 True=1
81-7	Alarm	1011	14	UInt16	2	R	False=0 True=1
81-8	Block	1011	15	UInt16	2	R	False=0 True=1
81-8	Pickup	1012	0	UInt16	2	R	False=0 True=1
81-8	Trip	1012	1	UInt16	2	R	False=0 True=1
81-8	Pre-Alarm	1012	2	UInt16	2	R	False=0 True=1
81-8	Alarm	1012	3	UInt16	2	R	False=0 True=1
40Q-1	Block	1012	4	UInt16	2	R	False=0 True=1
40Q-1	Pickup	1012	5	UInt16	2	R	False=0 True=1
40Q-1	Trip	1012	6	UInt16	2	R	False=0 True=1
40Q-1	Pre-Alarm	1012	7	UInt16	2	R	False=0 True=1
40Q-1	Alarm	1012	8	UInt16	2	R	False=0 True=1
40Q-2	Block	1012	9	UInt16	2	R	False=0 True=1
40Q-2	Pickup	1012	10	UInt16	2	R	False=0 True=1
40Q-2	Trip	1012	11	UInt16	2	R	False=0 True=1
40Q-2	Pre-Alarm	1012	12	UInt16	2	R	False=0 True=1
40Q-2	Alarm	1012	13	UInt16	2	R	False=0 True=1
32-1	Block	1012	14	UInt16	2	R	False=0 True=1
32-1	Pickup	1012	15	UInt16	2	R	False=0 True=1
32-1	Trip	1013	0	UInt16	2	R	False=0 True=1
32-1	Pre-Alarm	1013	1	UInt16	2	R	False=0 True=1
32-1	Alarm	1013	2	UInt16	2	R	False=0 True=1
32-2	Block	1013	3	UInt16	2	R	False=0 True=1
32-2	Pickup	1013	4	UInt16	2	R	False=0 True=1
32-2	Trip	1013	5	UInt16	2	R	False=0 True=1
32-2	Pre-Alarm	1013	6	UInt16	2	R	False=0 True=1
32-2	Alarm	1013	7	UInt16	2	R	False=0 True=1
32-3	Block	1013	8	UInt16	2	R	False=0 True=1
32-3	Pickup	1013	9	UInt16	2	R	False=0 True=1
32-3	Trip	1013	10	UInt16	2	R	False=0 True=1
32-3	Pre-Alarm	1013	11	UInt16	2	R	False=0 True=1
32-3	Alarm	1013	12	UInt16	2	R	False=0 True=1
32-4	Block	1013	13	UInt16	2	R	False=0 True=1
32-4	Pickup	1013	14	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
32-4	Trip	1013	15	UInt16	2	R	False=0 True=1
32-4	Pre-Alarm	1014	0	UInt16	2	R	False=0 True=1
32-4	Alarm	1014	1	UInt16	2	R	False=0 True=1
32-5	Block	1014	2	UInt16	2	R	False=0 True=1
32-5	Pickup	1014	3	UInt16	2	R	False=0 True=1
32-5	Trip	1014	4	UInt16	2	R	False=0 True=1
32-5	Pre-Alarm	1014	5	UInt16	2	R	False=0 True=1
32-5	Alarm	1014	6	UInt16	2	R	False=0 True=1
32-6	Block	1014	7	UInt16	2	R	False=0 True=1
32-6	Pickup	1014	8	UInt16	2	R	False=0 True=1
32-6	Trip	1014	9	UInt16	2	R	False=0 True=1
32-6	Pre-Alarm	1014	10	UInt16	2	R	False=0 True=1
32-6	Alarm	1014	11	UInt16	2	R	False=0 True=1
51-1	Block	1014	12	UInt16	2	R	False=0 True=1
51-1	Pickup	1014	13	UInt16	2	R	False=0 True=1
51-1	Trip	1014	14	UInt16	2	R	False=0 True=1
51-1	Pre-Alarm	1014	15	UInt16	2	R	False=0 True=1
51-1	Alarm	1015	0	UInt16	2	R	False=0 True=1
51-2	Block	1015	1	UInt16	2	R	False=0 True=1
51-2	Pickup	1015	2	UInt16	2	R	False=0 True=1
51-2	Trip	1015	3	UInt16	2	R	False=0 True=1
51-2	Pre-Alarm	1015	4	UInt16	2	R	False=0 True=1
51-2	Alarm	1015	5	UInt16	2	R	False=0 True=1
51-3	Block	1015	6	UInt16	2	R	False=0 True=1
51-3	Pickup	1015	7	UInt16	2	R	False=0 True=1
51-3	Trip	1015	8	UInt16	2	R	False=0 True=1
51-3	Pre-Alarm	1015	9	UInt16	2	R	False=0 True=1
51-3	Alarm	1015	10	UInt16	2	R	False=0 True=1
51-4	Block	1015	11	UInt16	2	R	False=0 True=1
51-4	Pickup	1015	12	UInt16	2	R	False=0 True=1
51-4	Trip	1015	13	UInt16	2	R	False=0 True=1
51-4	Pre-Alarm	1015	14	UInt16	2	R	False=0 True=1
51-4	Alarm	1015	15	UInt16	2	R	False=0 True=1
51-5	Block	1016	0	UInt16	2	R	False=0 True=1
51-5	Pickup	1016	1	UInt16	2	R	False=0 True=1
51-5	Trip	1016	2	UInt16	2	R	False=0 True=1
51-5	Pre-Alarm	1016	3	UInt16	2	R	False=0 True=1
51-5	Alarm	1016	4	UInt16	2	R	False=0 True=1
51-6	Block	1016	5	UInt16	2	R	False=0 True=1
51-6	Pickup	1016	6	UInt16	2	R	False=0 True=1
51-6	Trip	1016	7	UInt16	2	R	False=0 True=1
51-6	Pre-Alarm	1016	8	UInt16	2	R	False=0 True=1
51-6	Alarm	1016	9	UInt16	2	R	False=0 True=1
78-1	Block	1016	10	UInt16	2	R	False=0 True=1
78-1	Pickup	1016	11	UInt16	2	R	False=0 True=1
78-1	Trip	1016	12	UInt16	2	R	False=0 True=1
78-1	Pre-Alarm	1016	13	UInt16	2	R	False=0 True=1
78-1	Alarm	1016	14	UInt16	2	R	False=0 True=1
78-2	Block	1016	15	UInt16	2	R	False=0 True=1
78-2	Pickup	1017	0	UInt16	2	R	False=0 True=1
78-2	Trip	1017	1	UInt16	2	R	False=0 True=1
78-2	Pre-Alarm	1017	2	UInt16	2	R	False=0 True=1
78-2	Alarm	1017	3	UInt16	2	R	False=0 True=1
Battery Voltage Protection	Weak Battery Pre-Alarm	1017	4	UInt16	2	R	False=0 True=1
Battery Voltage Protection	Low Battery Voltage Pre-Alarm	1017	5	UInt16	2	R	False=0 True=1
Battery Voltage Protection	Battery Over Voltage Pre-Alarm	1017	6	UInt16	2	R	False=0 True=1
Oil Pressure Protection	Low Oil Pressure Alarm	1017	7	UInt16	2	R	False=0 True=1
Oil Pressure Protection	Low Oil Pressure Pre-Alarm	1017	8	UInt16	2	R	False=0 True=1
Coolant Temperature Protection	High Coolant Temp Alarm	1017	9	UInt16	2	R	False=0 True=1
Coolant Temperature Protection	High Coolant Temp Pre-Alarm	1017	10	UInt16	2	R	False=0 True=1
Coolant Temperature Protection	Low Coolant Temp Pre-Alarm	1017	11	UInt16	2	R	False=0 True=1
Fuel Level Protection	Low Fuel Alarm	1017	12	UInt16	2	R	False=0 True=1
Fuel Level Protection	Low Fuel Pre-Alarm	1017	13	UInt16	2	R	False=0 True=1
Fuel Level Protection	High Fuel Pre-Alarm	1017	14	UInt16	2	R	False=0 True=1
Over Speed Protection	Over Speed Alarm	1017	15	UInt16	2	R	False=0 True=1
Coolant Level Protection	Low Coolant Level Alarm	1018	0	UInt16	2	R	False=0 True=1
Coolant Level Protection	Low Coolant Level Pre-Alarm	1018	1	UInt16	2	R	False=0 True=1
Coolant Level Protection	Coolant Level Sender Fail Alarm	1018	2	UInt16	2	R	False=0 True=1
Engine Source	Speed Sender Fail Alarm	1018	3	UInt16	2	R	False=0 True=1
Engine Source	Unexpected Shutdown Alarm	1018	4	UInt16	2	R	False=0 True=1
Engine Source	MPU Fail Pre-Alarm	1018	5	UInt16	2	R	False=0 True=1
Configurable Protection 1	Configurable Protection Threshold 1 Trip	1018	6	UInt16	2	R	False=0 True=1
Configurable Protection 1	Configurable Protection Threshold 1 Pre-Alarm	1018	7	UInt16	2	R	False=0 True=1
Configurable Protection 1	Configurable Protection Threshold 1 Alarm	1018	8	UInt16	2	R	False=0 True=1
Configurable Protection 1	Configurable Protection Threshold 2 Trip	1018	9	UInt16	2	R	False=0 True=1
Configurable Protection 1	Configurable Protection Threshold 2 Pre-Alarm	1018	10	UInt16	2	R	False=0 True=1

DGC-2020HD Modbus® Protocol Binary Points Register Table

Name	Description	Register	Bit	Type	Bytes	R/W	Range
Configurable Protection 7	Configurable Protection Threshold 4 Trip	1023	7	UInt16	2	R	False=0 True=1
Configurable Protection 7	Configurable Protection Threshold 4 Pre-Alarm	1023	8	UInt16	2	R	False=0 True=1
Configurable Protection 7	Configurable Protection Threshold 4 Alarm	1023	9	UInt16	2	R	False=0 True=1
Configurable Protection 8	Configurable Protection Threshold 1 Trip	1023	10	UInt16	2	R	False=0 True=1
Configurable Protection 8	Configurable Protection Threshold 1 Pre-Alarm	1023	11	UInt16	2	R	False=0 True=1
Configurable Protection 8	Configurable Protection Threshold 1 Alarm	1023	12	UInt16	2	R	False=0 True=1
Configurable Protection 8	Configurable Protection Threshold 2 Trip	1023	13	UInt16	2	R	False=0 True=1
Configurable Protection 8	Configurable Protection Threshold 2 Pre-Alarm	1023	14	UInt16	2	R	False=0 True=1
Configurable Protection 8	Configurable Protection Threshold 2 Alarm	1023	15	UInt16	2	R	False=0 True=1
Configurable Protection 8	Configurable Protection Threshold 3 Trip	1024	0	UInt16	2	R	False=0 True=1
Configurable Protection 8	Configurable Protection Threshold 3 Pre-Alarm	1024	1	UInt16	2	R	False=0 True=1
Configurable Protection 8	Configurable Protection Threshold 3 Alarm	1024	2	UInt16	2	R	False=0 True=1
Configurable Protection 8	Configurable Protection Threshold 4 Trip	1024	3	UInt16	2	R	False=0 True=1
Configurable Protection 8	Configurable Protection Threshold 4 Pre-Alarm	1024	4	UInt16	2	R	False=0 True=1
Configurable Protection 8	Configurable Protection Threshold 4 Alarm	1024	5	UInt16	2	R	False=0 True=1
AEM 1	Connected	1024	6	UInt16	2	R	False=0 True=1
AEM 1	Comms Failure	1024	7	UInt16	2	R	False=0 True=1
AEM 1	Duplicate AEM	1024	8	UInt16	2	R	False=0 True=1
AEM 1	Input 1 Out-of-Range	1024	9	UInt16	2	R	False=0 True=1
AEM 1	Input 1 Out-of-Range Pre-Alarm	1024	10	UInt16	2	R	False=0 True=1
AEM 1	Input 1 Out-of-Range Alarm	1024	11	UInt16	2	R	False=0 True=1
AEM 1	Input 2 Out-of-Range	1024	12	UInt16	2	R	False=0 True=1
AEM 1	Input 2 Out-of-Range Pre-Alarm	1024	13	UInt16	2	R	False=0 True=1
AEM 1	Input 2 Out-of-Range Alarm	1024	14	UInt16	2	R	False=0 True=1
AEM 1	Input 3 Out-of-Range	1024	15	UInt16	2	R	False=0 True=1
AEM 1	Input 3 Out-of-Range Pre-Alarm	1025	0	UInt16	2	R	False=0 True=1
AEM 1	Input 3 Out-of-Range Alarm	1025	1	UInt16	2	R	False=0 True=1
AEM 1	Input 4 Out-of-Range	1025	2	UInt16	2	R	False=0 True=1
AEM 1	Input 4 Out-of-Range Pre-Alarm	1025	3	UInt16	2	R	False=0 True=1
AEM 1	Input 4 Out-of-Range Alarm	1025	4	UInt16	2	R	False=0 True=1
AEM 1	Input 5 Out-of-Range	1025	5	UInt16	2	R	False=0 True=1
AEM 1	Input 5 Out-of-Range Pre-Alarm	1025	6	UInt16	2	R	False=0 True=1
AEM 1	Input 5 Out-of-Range Alarm	1025	7	UInt16	2	R	False=0 True=1
AEM 1	Input 6 Out-of-Range	1025	8	UInt16	2	R	False=0 True=1
AEM 1	Input 6 Out-of-Range Pre-Alarm	1025	9	UInt16	2	R	False=0 True=1
AEM 1	Input 6 Out-of-Range Alarm	1025	10	UInt16	2	R	False=0 True=1
AEM 1	Input 7 Out-of-Range	1025	11	UInt16	2	R	False=0 True=1
AEM 1	Input 7 Out-of-Range Pre-Alarm	1025	12	UInt16	2	R	False=0 True=1
AEM 1	Input 7 Out-of-Range Alarm	1025	13	UInt16	2	R	False=0 True=1
AEM 1	Input 8 Out-of-Range	1025	14	UInt16	2	R	False=0 True=1
AEM 1	Input 8 Out-of-Range Pre-Alarm	1025	15	UInt16	2	R	False=0 True=1
AEM 1	Input 8 Out-of-Range Alarm	1026	0	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 1 Out-of-Range	1026	1	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 1 Out-of-Range Pre-Alarm	1026	2	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 1 Out-of-Range Alarm	1026	3	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 2 Out-of-Range	1026	4	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 2 Out-of-Range Pre-Alarm	1026	5	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 2 Out-of-Range Alarm	1026	6	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 3 Out-of-Range	1026	7	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 3 Out-of-Range Pre-Alarm	1026	8	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 3 Out-of-Range Alarm	1026	9	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 4 Out-of-Range	1026	10	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 4 Out-of-Range Pre-Alarm	1026	11	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 4 Out-of-Range Alarm	1026	12	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 5 Out-of-Range	1026	13	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 5 Out-of-Range Pre-Alarm	1026	14	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 5 Out-of-Range Alarm	1026	15	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 6 Out-of-Range	1027	0	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 6 Out-of-Range Pre-Alarm	1027	1	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 6 Out-of-Range Alarm	1027	2	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 7 Out-of-Range	1027	3	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 7 Out-of-Range Pre-Alarm	1027	4	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 7 Out-of-Range Alarm	1027	5	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 8 Out-of-Range	1027	6	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 8 Out-of-Range Pre-Alarm	1027	7	UInt16	2	R	False=0 True=1
AEM 1	RTD Input 8 Out-of-Range Alarm	1027	8	UInt16	2	R	False=0 True=1
AEM 1	Thermocouple 1 Out-of-Range	1027	9	UInt16	2	R	False=0 True=1
AEM 1	Thermocouple 1 Out-of-Range Pre-Alarm	1027	10	UInt16	2	R	False=0 True=1
AEM 1	Thermocouple 1 Out-of-Range Alarm	1027	11	UInt16	2	R	False=0 True=1
AEM 1	Thermocouple 2 Out-of-Range	1027	12	UInt16	2	R	False=0 True=1
AEM 1	Thermocouple 2 Out-of-Range Pre-Alarm	1027	13	UInt16	2	R	False=0 True=1
AEM 1	Thermocouple 2 Out-of-Range Alarm	1027	14	UInt16	2	R	False=0 True=1
AEM 1	Output 1 Out-of-Range	1027	15	UInt16	2	R	False=0 True=1
AEM 1	Output 1 Out-of-Range Pre-Alarm	1028	0	UInt16	2	R	False=0 True=1
AEM 1	Output 1 Out-of-Range Alarm	1028	1	UInt16	2	R	False=0 True=1
AEM 1	Output 2 Out-of-Range	1028	2	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
AEM 1	Output 2 Out-of-Range Pre-Alarm	1028	3	UInt16	2	R	False=0 True=1
AEM 1	Output 2 Out-of-Range Alarm	1028	4	UInt16	2	R	False=0 True=1
AEM 1	Output 3 Out-of-Range	1028	5	UInt16	2	R	False=0 True=1
AEM 1	Output 3 Out-of-Range Pre-Alarm	1028	6	UInt16	2	R	False=0 True=1
AEM 1	Output 3 Out-of-Range Alarm	1028	7	UInt16	2	R	False=0 True=1
AEM 1	Output 4 Out-of-Range	1028	8	UInt16	2	R	False=0 True=1
AEM 1	Output 4 Out-of-Range Pre-Alarm	1028	9	UInt16	2	R	False=0 True=1
AEM 1	Output 4 Out-of-Range Alarm	1028	10	UInt16	2	R	False=0 True=1
AEM 1	Not Configured	1028	11	UInt16	2	R	False=0 True=1
AEM 1 Protection 1	Threshold 1 Trip	1028	12	UInt16	2	R	False=0 True=1
AEM 1 Protection 1	Threshold 1 Pre-Alarm	1028	13	UInt16	2	R	False=0 True=1
AEM 1 Protection 1	Threshold 1 Alarm	1028	14	UInt16	2	R	False=0 True=1
AEM 1 Protection 1	Threshold 2 Trip	1028	15	UInt16	2	R	False=0 True=1
AEM 1 Protection 1	Threshold 2 Pre-Alarm	1029	0	UInt16	2	R	False=0 True=1
AEM 1 Protection 1	Threshold 2 Alarm	1029	1	UInt16	2	R	False=0 True=1
AEM 1 Protection 1	Threshold 3 Trip	1029	2	UInt16	2	R	False=0 True=1
AEM 1 Protection 1	Threshold 3 Pre-Alarm	1029	3	UInt16	2	R	False=0 True=1
AEM 1 Protection 1	Threshold 3 Alarm	1029	4	UInt16	2	R	False=0 True=1
AEM 1 Protection 1	Threshold 4 Trip	1029	5	UInt16	2	R	False=0 True=1
AEM 1 Protection 1	Threshold 4 Pre-Alarm	1029	6	UInt16	2	R	False=0 True=1
AEM 1 Protection 1	Threshold 4 Alarm	1029	7	UInt16	2	R	False=0 True=1
AEM 1 Protection 2	Threshold 1 Trip	1029	8	UInt16	2	R	False=0 True=1
AEM 1 Protection 2	Threshold 1 Pre-Alarm	1029	9	UInt16	2	R	False=0 True=1
AEM 1 Protection 2	Threshold 1 Alarm	1029	10	UInt16	2	R	False=0 True=1
AEM 1 Protection 2	Threshold 2 Trip	1029	11	UInt16	2	R	False=0 True=1
AEM 1 Protection 2	Threshold 2 Pre-Alarm	1029	12	UInt16	2	R	False=0 True=1
AEM 1 Protection 2	Threshold 2 Alarm	1029	13	UInt16	2	R	False=0 True=1
AEM 1 Protection 2	Threshold 3 Trip	1029	14	UInt16	2	R	False=0 True=1
AEM 1 Protection 2	Threshold 3 Pre-Alarm	1029	15	UInt16	2	R	False=0 True=1
AEM 1 Protection 2	Threshold 3 Alarm	1030	0	UInt16	2	R	False=0 True=1
AEM 1 Protection 2	Threshold 4 Trip	1030	1	UInt16	2	R	False=0 True=1
AEM 1 Protection 2	Threshold 4 Pre-Alarm	1030	2	UInt16	2	R	False=0 True=1
AEM 1 Protection 2	Threshold 4 Alarm	1030	3	UInt16	2	R	False=0 True=1
AEM 1 Protection 3	Threshold 1 Trip	1030	4	UInt16	2	R	False=0 True=1
AEM 1 Protection 3	Threshold 1 Pre-Alarm	1030	5	UInt16	2	R	False=0 True=1
AEM 1 Protection 3	Threshold 1 Alarm	1030	6	UInt16	2	R	False=0 True=1
AEM 1 Protection 3	Threshold 2 Trip	1030	7	UInt16	2	R	False=0 True=1
AEM 1 Protection 3	Threshold 2 Pre-Alarm	1030	8	UInt16	2	R	False=0 True=1
AEM 1 Protection 3	Threshold 2 Alarm	1030	9	UInt16	2	R	False=0 True=1
AEM 1 Protection 3	Threshold 3 Trip	1030	10	UInt16	2	R	False=0 True=1
AEM 1 Protection 3	Threshold 3 Pre-Alarm	1030	11	UInt16	2	R	False=0 True=1
AEM 1 Protection 3	Threshold 3 Alarm	1030	12	UInt16	2	R	False=0 True=1
AEM 1 Protection 3	Threshold 4 Trip	1030	13	UInt16	2	R	False=0 True=1
AEM 1 Protection 3	Threshold 4 Pre-Alarm	1030	14	UInt16	2	R	False=0 True=1
AEM 1 Protection 3	Threshold 4 Alarm	1030	15	UInt16	2	R	False=0 True=1
AEM 1 Protection 4	Threshold 1 Trip	1031	0	UInt16	2	R	False=0 True=1
AEM 1 Protection 4	Threshold 1 Pre-Alarm	1031	1	UInt16	2	R	False=0 True=1
AEM 1 Protection 4	Threshold 1 Alarm	1031	2	UInt16	2	R	False=0 True=1
AEM 1 Protection 4	Threshold 2 Trip	1031	3	UInt16	2	R	False=0 True=1
AEM 1 Protection 4	Threshold 2 Pre-Alarm	1031	4	UInt16	2	R	False=0 True=1
AEM 1 Protection 4	Threshold 2 Alarm	1031	5	UInt16	2	R	False=0 True=1
AEM 1 Protection 4	Threshold 3 Trip	1031	6	UInt16	2	R	False=0 True=1
AEM 1 Protection 4	Threshold 3 Pre-Alarm	1031	7	UInt16	2	R	False=0 True=1
AEM 1 Protection 4	Threshold 3 Alarm	1031	8	UInt16	2	R	False=0 True=1
AEM 1 Protection 4	Threshold 4 Trip	1031	9	UInt16	2	R	False=0 True=1
AEM 1 Protection 4	Threshold 4 Pre-Alarm	1031	10	UInt16	2	R	False=0 True=1
AEM 1 Protection 4	Threshold 4 Alarm	1031	11	UInt16	2	R	False=0 True=1
AEM 1 Protection 5	Threshold 1 Trip	1031	12	UInt16	2	R	False=0 True=1
AEM 1 Protection 5	Threshold 1 Pre-Alarm	1031	13	UInt16	2	R	False=0 True=1
AEM 1 Protection 5	Threshold 1 Alarm	1031	14	UInt16	2	R	False=0 True=1
AEM 1 Protection 5	Threshold 2 Trip	1031	15	UInt16	2	R	False=0 True=1
AEM 1 Protection 5	Threshold 2 Pre-Alarm	1032	0	UInt16	2	R	False=0 True=1
AEM 1 Protection 5	Threshold 2 Alarm	1032	1	UInt16	2	R	False=0 True=1
AEM 1 Protection 5	Threshold 3 Trip	1032	2	UInt16	2	R	False=0 True=1
AEM 1 Protection 5	Threshold 3 Pre-Alarm	1032	3	UInt16	2	R	False=0 True=1
AEM 1 Protection 5	Threshold 3 Alarm	1032	4	UInt16	2	R	False=0 True=1
AEM 1 Protection 5	Threshold 4 Trip	1032	5	UInt16	2	R	False=0 True=1
AEM 1 Protection 5	Threshold 4 Pre-Alarm	1032	6	UInt16	2	R	False=0 True=1
AEM 1 Protection 5	Threshold 4 Alarm	1032	7	UInt16	2	R	False=0 True=1
AEM 1 Protection 6	Threshold 1 Trip	1032	8	UInt16	2	R	False=0 True=1
AEM 1 Protection 6	Threshold 1 Pre-Alarm	1032	9	UInt16	2	R	False=0 True=1
AEM 1 Protection 6	Threshold 1 Alarm	1032	10	UInt16	2	R	False=0 True=1
AEM 1 Protection 6	Threshold 2 Trip	1032	11	UInt16	2	R	False=0 True=1
AEM 1 Protection 6	Threshold 2 Pre-Alarm	1032	12	UInt16	2	R	False=0 True=1
AEM 1 Protection 6	Threshold 2 Alarm	1032	13	UInt16	2	R	False=0 True=1
AEM 1 Protection 6	Threshold 3 Trip	1032	14	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
AEM 1 Protection 6	Threshold 3 Pre-Alarm	1032	15	UInt16	2	R	False=0 True=1
AEM 1 Protection 6	Threshold 3 Alarm	1033	0	UInt16	2	R	False=0 True=1
AEM 1 Protection 6	Threshold 4 Trip	1033	1	UInt16	2	R	False=0 True=1
AEM 1 Protection 6	Threshold 4 Pre-Alarm	1033	2	UInt16	2	R	False=0 True=1
AEM 1 Protection 6	Threshold 4 Alarm	1033	3	UInt16	2	R	False=0 True=1
AEM 1 Protection 7	Threshold 1 Trip	1033	4	UInt16	2	R	False=0 True=1
AEM 1 Protection 7	Threshold 1 Pre-Alarm	1033	5	UInt16	2	R	False=0 True=1
AEM 1 Protection 7	Threshold 1 Alarm	1033	6	UInt16	2	R	False=0 True=1
AEM 1 Protection 7	Threshold 2 Trip	1033	7	UInt16	2	R	False=0 True=1
AEM 1 Protection 7	Threshold 2 Pre-Alarm	1033	8	UInt16	2	R	False=0 True=1
AEM 1 Protection 7	Threshold 2 Alarm	1033	9	UInt16	2	R	False=0 True=1
AEM 1 Protection 7	Threshold 3 Trip	1033	10	UInt16	2	R	False=0 True=1
AEM 1 Protection 7	Threshold 3 Pre-Alarm	1033	11	UInt16	2	R	False=0 True=1
AEM 1 Protection 7	Threshold 3 Alarm	1033	12	UInt16	2	R	False=0 True=1
AEM 1 Protection 7	Threshold 4 Trip	1033	13	UInt16	2	R	False=0 True=1
AEM 1 Protection 7	Threshold 4 Pre-Alarm	1033	14	UInt16	2	R	False=0 True=1
AEM 1 Protection 7	Threshold 4 Alarm	1033	15	UInt16	2	R	False=0 True=1
AEM 1 Protection 8	Threshold 1 Trip	1034	0	UInt16	2	R	False=0 True=1
AEM 1 Protection 8	Threshold 1 Pre-Alarm	1034	1	UInt16	2	R	False=0 True=1
AEM 1 Protection 8	Threshold 1 Alarm	1034	2	UInt16	2	R	False=0 True=1
AEM 1 Protection 8	Threshold 2 Trip	1034	3	UInt16	2	R	False=0 True=1
AEM 1 Protection 8	Threshold 2 Pre-Alarm	1034	4	UInt16	2	R	False=0 True=1
AEM 1 Protection 8	Threshold 2 Alarm	1034	5	UInt16	2	R	False=0 True=1
AEM 1 Protection 8	Threshold 3 Trip	1034	6	UInt16	2	R	False=0 True=1
AEM 1 Protection 8	Threshold 3 Pre-Alarm	1034	7	UInt16	2	R	False=0 True=1
AEM 1 Protection 8	Threshold 3 Alarm	1034	8	UInt16	2	R	False=0 True=1
AEM 1 Protection 8	Threshold 4 Trip	1034	9	UInt16	2	R	False=0 True=1
AEM 1 Protection 8	Threshold 4 Pre-Alarm	1034	10	UInt16	2	R	False=0 True=1
AEM 1 Protection 8	Threshold 4 Alarm	1034	11	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 1	Threshold 1 Trip	1034	12	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 1	Threshold 1 Pre-Alarm	1034	13	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 1	Threshold 1 Alarm	1034	14	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 1	Threshold 2 Trip	1034	15	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 1	Threshold 2 Pre-Alarm	1035	0	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 1	Threshold 2 Alarm	1035	1	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 1	Threshold 3 Trip	1035	2	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 1	Threshold 3 Pre-Alarm	1035	3	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 1	Threshold 3 Alarm	1035	4	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 1	Threshold 4 Trip	1035	5	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 1	Threshold 4 Pre-Alarm	1035	6	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 1	Threshold 4 Alarm	1035	7	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 2	Threshold 1 Trip	1035	8	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 2	Threshold 1 Pre-Alarm	1035	9	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 2	Threshold 1 Alarm	1035	10	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 2	Threshold 2 Trip	1035	11	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 2	Threshold 2 Pre-Alarm	1035	12	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 2	Threshold 2 Alarm	1035	13	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 2	Threshold 3 Trip	1035	14	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 2	Threshold 3 Pre-Alarm	1035	15	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 2	Threshold 3 Alarm	1036	0	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 2	Threshold 4 Trip	1036	1	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 2	Threshold 4 Pre-Alarm	1036	2	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 2	Threshold 4 Alarm	1036	3	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 3	Threshold 1 Trip	1036	4	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 3	Threshold 1 Pre-Alarm	1036	5	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 3	Threshold 1 Alarm	1036	6	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 3	Threshold 2 Trip	1036	7	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 3	Threshold 2 Pre-Alarm	1036	8	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 3	Threshold 2 Alarm	1036	9	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 3	Threshold 3 Trip	1036	10	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 3	Threshold 3 Pre-Alarm	1036	11	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 3	Threshold 3 Alarm	1036	12	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 3	Threshold 4 Trip	1036	13	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 3	Threshold 4 Pre-Alarm	1036	14	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 3	Threshold 4 Alarm	1036	15	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 4	Threshold 1 Trip	1037	0	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 4	Threshold 1 Pre-Alarm	1037	1	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 4	Threshold 1 Alarm	1037	2	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 4	Threshold 2 Trip	1037	3	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 4	Threshold 2 Pre-Alarm	1037	4	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 4	Threshold 2 Alarm	1037	5	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 4	Threshold 3 Trip	1037	6	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 4	Threshold 3 Pre-Alarm	1037	7	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 4	Threshold 3 Alarm	1037	8	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 4	Threshold 4 Trip	1037	9	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 4	Threshold 4 Pre-Alarm	1037	10	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
AEM 1 RTD Protection 4	Threshold 4 Alarm	1037	11	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 5	Threshold 1 Trip	1037	12	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 5	Threshold 1 Pre-Alarm	1037	13	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 5	Threshold 1 Alarm	1037	14	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 5	Threshold 2 Trip	1037	15	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 5	Threshold 2 Pre-Alarm	1038	0	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 5	Threshold 2 Alarm	1038	1	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 5	Threshold 3 Trip	1038	2	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 5	Threshold 3 Pre-Alarm	1038	3	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 5	Threshold 3 Alarm	1038	4	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 5	Threshold 4 Trip	1038	5	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 5	Threshold 4 Pre-Alarm	1038	6	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 5	Threshold 4 Alarm	1038	7	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 6	Threshold 1 Trip	1038	8	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 6	Threshold 1 Pre-Alarm	1038	9	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 6	Threshold 1 Alarm	1038	10	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 6	Threshold 2 Trip	1038	11	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 6	Threshold 2 Pre-Alarm	1038	12	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 6	Threshold 2 Alarm	1038	13	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 6	Threshold 3 Trip	1038	14	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 6	Threshold 3 Pre-Alarm	1038	15	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 6	Threshold 3 Alarm	1039	0	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 6	Threshold 4 Trip	1039	1	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 6	Threshold 4 Pre-Alarm	1039	2	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 6	Threshold 4 Alarm	1039	3	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 7	Threshold 1 Trip	1039	4	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 7	Threshold 1 Pre-Alarm	1039	5	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 7	Threshold 1 Alarm	1039	6	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 7	Threshold 2 Trip	1039	7	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 7	Threshold 2 Pre-Alarm	1039	8	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 7	Threshold 2 Alarm	1039	9	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 7	Threshold 3 Trip	1039	10	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 7	Threshold 3 Pre-Alarm	1039	11	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 7	Threshold 3 Alarm	1039	12	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 7	Threshold 4 Trip	1039	13	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 7	Threshold 4 Pre-Alarm	1039	14	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 7	Threshold 4 Alarm	1039	15	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 8	Threshold 1 Trip	1040	0	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 8	Threshold 1 Pre-Alarm	1040	1	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 8	Threshold 1 Alarm	1040	2	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 8	Threshold 2 Trip	1040	3	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 8	Threshold 2 Pre-Alarm	1040	4	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 8	Threshold 2 Alarm	1040	5	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 8	Threshold 3 Trip	1040	6	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 8	Threshold 3 Pre-Alarm	1040	7	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 8	Threshold 3 Alarm	1040	8	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 8	Threshold 4 Trip	1040	9	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 8	Threshold 4 Pre-Alarm	1040	10	UInt16	2	R	False=0 True=1
AEM 1 RTD Protection 8	Threshold 4 Alarm	1040	11	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 1	Threshold 1 Trip	1040	12	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 1	Threshold 1 Pre-Alarm	1040	13	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 1	Threshold 1 Alarm	1040	14	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 1	Threshold 2 Trip	1040	15	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 1	Threshold 2 Pre-Alarm	1041	0	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 1	Threshold 2 Alarm	1041	1	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 1	Threshold 3 Trip	1041	2	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 1	Threshold 3 Pre-Alarm	1041	3	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 1	Threshold 3 Alarm	1041	4	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 1	Threshold 4 Trip	1041	5	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 1	Threshold 4 Pre-Alarm	1041	6	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 1	Threshold 4 Alarm	1041	7	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 2	Threshold 1 Trip	1041	8	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 2	Threshold 1 Pre-Alarm	1041	9	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 2	Threshold 1 Alarm	1041	10	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 2	Threshold 2 Trip	1041	11	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 2	Threshold 2 Pre-Alarm	1041	12	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 2	Threshold 2 Alarm	1041	13	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 2	Threshold 3 Trip	1041	14	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 2	Threshold 3 Pre-Alarm	1041	15	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 2	Threshold 3 Alarm	1042	0	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 2	Threshold 4 Trip	1042	1	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 2	Threshold 4 Pre-Alarm	1042	2	UInt16	2	R	False=0 True=1
AEM 1 Thermal Protection 2	Threshold 4 Alarm	1042	3	UInt16	2	R	False=0 True=1
AEM 2	Connected	1042	4	UInt16	2	R	False=0 True=1
AEM 2	Comms Failure	1042	5	UInt16	2	R	False=0 True=1
AEM 2	Duplicate AEM	1042	6	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
AEM 2	Input 1 Out-of-Range	1042	7	UInt16	2	R	False=0 True=1
AEM 2	Input 1 Out-of-Range Pre-Alarm	1042	8	UInt16	2	R	False=0 True=1
AEM 2	Input 1 Out-of-Range Alarm	1042	9	UInt16	2	R	False=0 True=1
AEM 2	Input 2 Out-of-Range	1042	10	UInt16	2	R	False=0 True=1
AEM 2	Input 2 Out-of-Range Pre-Alarm	1042	11	UInt16	2	R	False=0 True=1
AEM 2	Input 2 Out-of-Range Alarm	1042	12	UInt16	2	R	False=0 True=1
AEM 2	Input 3 Out-of-Range	1042	13	UInt16	2	R	False=0 True=1
AEM 2	Input 3 Out-of-Range Pre-Alarm	1042	14	UInt16	2	R	False=0 True=1
AEM 2	Input 3 Out-of-Range Alarm	1042	15	UInt16	2	R	False=0 True=1
AEM 2	Input 4 Out-of-Range	1043	0	UInt16	2	R	False=0 True=1
AEM 2	Input 4 Out-of-Range Pre-Alarm	1043	1	UInt16	2	R	False=0 True=1
AEM 2	Input 4 Out-of-Range Alarm	1043	2	UInt16	2	R	False=0 True=1
AEM 2	Input 5 Out-of-Range	1043	3	UInt16	2	R	False=0 True=1
AEM 2	Input 5 Out-of-Range Pre-Alarm	1043	4	UInt16	2	R	False=0 True=1
AEM 2	Input 5 Out-of-Range Alarm	1043	5	UInt16	2	R	False=0 True=1
AEM 2	Input 6 Out-of-Range	1043	6	UInt16	2	R	False=0 True=1
AEM 2	Input 6 Out-of-Range Pre-Alarm	1043	7	UInt16	2	R	False=0 True=1
AEM 2	Input 6 Out-of-Range Alarm	1043	8	UInt16	2	R	False=0 True=1
AEM 2	Input 7 Out-of-Range	1043	9	UInt16	2	R	False=0 True=1
AEM 2	Input 7 Out-of-Range Pre-Alarm	1043	10	UInt16	2	R	False=0 True=1
AEM 2	Input 7 Out-of-Range Alarm	1043	11	UInt16	2	R	False=0 True=1
AEM 2	Input 8 Out-of-Range	1043	12	UInt16	2	R	False=0 True=1
AEM 2	Input 8 Out-of-Range Pre-Alarm	1043	13	UInt16	2	R	False=0 True=1
AEM 2	Input 8 Out-of-Range Alarm	1043	14	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 1 Out-of-Range	1043	15	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 1 Out-of-Range Pre-Alarm	1044	0	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 1 Out-of-Range Alarm	1044	1	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 2 Out-of-Range	1044	2	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 2 Out-of-Range Pre-Alarm	1044	3	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 2 Out-of-Range Alarm	1044	4	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 3 Out-of-Range	1044	5	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 3 Out-of-Range Pre-Alarm	1044	6	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 3 Out-of-Range Alarm	1044	7	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 4 Out-of-Range	1044	8	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 4 Out-of-Range Pre-Alarm	1044	9	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 4 Out-of-Range Alarm	1044	10	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 5 Out-of-Range	1044	11	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 5 Out-of-Range Pre-Alarm	1044	12	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 5 Out-of-Range Alarm	1044	13	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 6 Out-of-Range	1044	14	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 6 Out-of-Range Pre-Alarm	1044	15	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 6 Out-of-Range Alarm	1045	0	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 7 Out-of-Range	1045	1	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 7 Out-of-Range Pre-Alarm	1045	2	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 7 Out-of-Range Alarm	1045	3	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 8 Out-of-Range	1045	4	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 8 Out-of-Range Pre-Alarm	1045	5	UInt16	2	R	False=0 True=1
AEM 2	RTD Input 8 Out-of-Range Alarm	1045	6	UInt16	2	R	False=0 True=1
AEM 2	Thermalcouple 1 Out-of-Range	1045	7	UInt16	2	R	False=0 True=1
AEM 2	Thermalcouple 1 Out-of-Range Pre-Alarm	1045	8	UInt16	2	R	False=0 True=1
AEM 2	Thermalcouple 1 Out-of-Range Alarm	1045	9	UInt16	2	R	False=0 True=1
AEM 2	Thermalcouple 2 Out-of-Range	1045	10	UInt16	2	R	False=0 True=1
AEM 2	Thermalcouple 2 Out-of-Range Pre-Alarm	1045	11	UInt16	2	R	False=0 True=1
AEM 2	Thermalcouple 2 Out-of-Range Alarm	1045	12	UInt16	2	R	False=0 True=1
AEM 2	Output 1 Out-of-Range	1045	13	UInt16	2	R	False=0 True=1
AEM 2	Output 1 Out-of-Range Pre-Alarm	1045	14	UInt16	2	R	False=0 True=1
AEM 2	Output 1 Out-of-Range Alarm	1045	15	UInt16	2	R	False=0 True=1
AEM 2	Output 2 Out-of-Range	1046	0	UInt16	2	R	False=0 True=1
AEM 2	Output 2 Out-of-Range Pre-Alarm	1046	1	UInt16	2	R	False=0 True=1
AEM 2	Output 2 Out-of-Range Alarm	1046	2	UInt16	2	R	False=0 True=1
AEM 2	Output 3 Out-of-Range	1046	3	UInt16	2	R	False=0 True=1
AEM 2	Output 3 Out-of-Range Pre-Alarm	1046	4	UInt16	2	R	False=0 True=1
AEM 2	Output 3 Out-of-Range Alarm	1046	5	UInt16	2	R	False=0 True=1
AEM 2	Output 4 Out-of-Range	1046	6	UInt16	2	R	False=0 True=1
AEM 2	Output 4 Out-of-Range Pre-Alarm	1046	7	UInt16	2	R	False=0 True=1
AEM 2	Output 4 Out-of-Range Alarm	1046	8	UInt16	2	R	False=0 True=1
AEM 2	Not Configured	1046	9	UInt16	2	R	False=0 True=1
AEM 2 Protection 1	Threshold 1 Trip	1046	10	UInt16	2	R	False=0 True=1
AEM 2 Protection 1	Threshold 1 Pre-Alarm	1046	11	UInt16	2	R	False=0 True=1
AEM 2 Protection 1	Threshold 1 Alarm	1046	12	UInt16	2	R	False=0 True=1
AEM 2 Protection 1	Threshold 2 Trip	1046	13	UInt16	2	R	False=0 True=1
AEM 2 Protection 1	Threshold 2 Pre-Alarm	1046	14	UInt16	2	R	False=0 True=1
AEM 2 Protection 1	Threshold 2 Alarm	1046	15	UInt16	2	R	False=0 True=1
AEM 2 Protection 1	Threshold 3 Trip	1047	0	UInt16	2	R	False=0 True=1
AEM 2 Protection 1	Threshold 3 Pre-Alarm	1047	1	UInt16	2	R	False=0 True=1
AEM 2 Protection 1	Threshold 3 Alarm	1047	2	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
AEM 2 Protection 1	Threshold 4 Trip	1047	3	UInt16	2	R	False=0 True=1
AEM 2 Protection 1	Threshold 4 Pre-Alarm	1047	4	UInt16	2	R	False=0 True=1
AEM 2 Protection 1	Threshold 4 Alarm	1047	5	UInt16	2	R	False=0 True=1
AEM 2 Protection 2	Threshold 1 Trip	1047	6	UInt16	2	R	False=0 True=1
AEM 2 Protection 2	Threshold 1 Pre-Alarm	1047	7	UInt16	2	R	False=0 True=1
AEM 2 Protection 2	Threshold 1 Alarm	1047	8	UInt16	2	R	False=0 True=1
AEM 2 Protection 2	Threshold 2 Trip	1047	9	UInt16	2	R	False=0 True=1
AEM 2 Protection 2	Threshold 2 Pre-Alarm	1047	10	UInt16	2	R	False=0 True=1
AEM 2 Protection 2	Threshold 2 Alarm	1047	11	UInt16	2	R	False=0 True=1
AEM 2 Protection 2	Threshold 3 Trip	1047	12	UInt16	2	R	False=0 True=1
AEM 2 Protection 2	Threshold 3 Pre-Alarm	1047	13	UInt16	2	R	False=0 True=1
AEM 2 Protection 2	Threshold 3 Alarm	1047	14	UInt16	2	R	False=0 True=1
AEM 2 Protection 2	Threshold 4 Trip	1047	15	UInt16	2	R	False=0 True=1
AEM 2 Protection 2	Threshold 4 Pre-Alarm	1048	0	UInt16	2	R	False=0 True=1
AEM 2 Protection 2	Threshold 4 Alarm	1048	1	UInt16	2	R	False=0 True=1
AEM 2 Protection 3	Threshold 1 Trip	1048	2	UInt16	2	R	False=0 True=1
AEM 2 Protection 3	Threshold 1 Pre-Alarm	1048	3	UInt16	2	R	False=0 True=1
AEM 2 Protection 3	Threshold 1 Alarm	1048	4	UInt16	2	R	False=0 True=1
AEM 2 Protection 3	Threshold 2 Trip	1048	5	UInt16	2	R	False=0 True=1
AEM 2 Protection 3	Threshold 2 Pre-Alarm	1048	6	UInt16	2	R	False=0 True=1
AEM 2 Protection 3	Threshold 2 Alarm	1048	7	UInt16	2	R	False=0 True=1
AEM 2 Protection 3	Threshold 3 Trip	1048	8	UInt16	2	R	False=0 True=1
AEM 2 Protection 3	Threshold 3 Pre-Alarm	1048	9	UInt16	2	R	False=0 True=1
AEM 2 Protection 3	Threshold 3 Alarm	1048	10	UInt16	2	R	False=0 True=1
AEM 2 Protection 3	Threshold 4 Trip	1048	11	UInt16	2	R	False=0 True=1
AEM 2 Protection 3	Threshold 4 Pre-Alarm	1048	12	UInt16	2	R	False=0 True=1
AEM 2 Protection 3	Threshold 4 Alarm	1048	13	UInt16	2	R	False=0 True=1
AEM 2 Protection 4	Threshold 1 Trip	1048	14	UInt16	2	R	False=0 True=1
AEM 2 Protection 4	Threshold 1 Pre-Alarm	1048	15	UInt16	2	R	False=0 True=1
AEM 2 Protection 4	Threshold 1 Alarm	1049	0	UInt16	2	R	False=0 True=1
AEM 2 Protection 4	Threshold 2 Trip	1049	1	UInt16	2	R	False=0 True=1
AEM 2 Protection 4	Threshold 2 Pre-Alarm	1049	2	UInt16	2	R	False=0 True=1
AEM 2 Protection 4	Threshold 2 Alarm	1049	3	UInt16	2	R	False=0 True=1
AEM 2 Protection 4	Threshold 3 Trip	1049	4	UInt16	2	R	False=0 True=1
AEM 2 Protection 4	Threshold 3 Pre-Alarm	1049	5	UInt16	2	R	False=0 True=1
AEM 2 Protection 4	Threshold 3 Alarm	1049	6	UInt16	2	R	False=0 True=1
AEM 2 Protection 4	Threshold 4 Trip	1049	7	UInt16	2	R	False=0 True=1
AEM 2 Protection 4	Threshold 4 Pre-Alarm	1049	8	UInt16	2	R	False=0 True=1
AEM 2 Protection 4	Threshold 4 Alarm	1049	9	UInt16	2	R	False=0 True=1
AEM 2 Protection 5	Threshold 1 Trip	1049	10	UInt16	2	R	False=0 True=1
AEM 2 Protection 5	Threshold 1 Pre-Alarm	1049	11	UInt16	2	R	False=0 True=1
AEM 2 Protection 5	Threshold 1 Alarm	1049	12	UInt16	2	R	False=0 True=1
AEM 2 Protection 5	Threshold 2 Trip	1049	13	UInt16	2	R	False=0 True=1
AEM 2 Protection 5	Threshold 2 Pre-Alarm	1049	14	UInt16	2	R	False=0 True=1
AEM 2 Protection 5	Threshold 2 Alarm	1049	15	UInt16	2	R	False=0 True=1
AEM 2 Protection 5	Threshold 3 Trip	1050	0	UInt16	2	R	False=0 True=1
AEM 2 Protection 5	Threshold 3 Pre-Alarm	1050	1	UInt16	2	R	False=0 True=1
AEM 2 Protection 5	Threshold 3 Alarm	1050	2	UInt16	2	R	False=0 True=1
AEM 2 Protection 5	Threshold 4 Trip	1050	3	UInt16	2	R	False=0 True=1
AEM 2 Protection 5	Threshold 4 Pre-Alarm	1050	4	UInt16	2	R	False=0 True=1
AEM 2 Protection 5	Threshold 4 Alarm	1050	5	UInt16	2	R	False=0 True=1
AEM 2 Protection 6	Threshold 1 Trip	1050	6	UInt16	2	R	False=0 True=1
AEM 2 Protection 6	Threshold 1 Pre-Alarm	1050	7	UInt16	2	R	False=0 True=1
AEM 2 Protection 6	Threshold 1 Alarm	1050	8	UInt16	2	R	False=0 True=1
AEM 2 Protection 6	Threshold 2 Trip	1050	9	UInt16	2	R	False=0 True=1
AEM 2 Protection 6	Threshold 2 Pre-Alarm	1050	10	UInt16	2	R	False=0 True=1
AEM 2 Protection 6	Threshold 2 Alarm	1050	11	UInt16	2	R	False=0 True=1
AEM 2 Protection 6	Threshold 3 Trip	1050	12	UInt16	2	R	False=0 True=1
AEM 2 Protection 6	Threshold 3 Pre-Alarm	1050	13	UInt16	2	R	False=0 True=1
AEM 2 Protection 6	Threshold 3 Alarm	1050	14	UInt16	2	R	False=0 True=1
AEM 2 Protection 6	Threshold 4 Trip	1050	15	UInt16	2	R	False=0 True=1
AEM 2 Protection 6	Threshold 4 Pre-Alarm	1051	0	UInt16	2	R	False=0 True=1
AEM 2 Protection 6	Threshold 4 Alarm	1051	1	UInt16	2	R	False=0 True=1
AEM 2 Protection 7	Threshold 1 Trip	1051	2	UInt16	2	R	False=0 True=1
AEM 2 Protection 7	Threshold 1 Pre-Alarm	1051	3	UInt16	2	R	False=0 True=1
AEM 2 Protection 7	Threshold 1 Alarm	1051	4	UInt16	2	R	False=0 True=1
AEM 2 Protection 7	Threshold 2 Trip	1051	5	UInt16	2	R	False=0 True=1
AEM 2 Protection 7	Threshold 2 Pre-Alarm	1051	6	UInt16	2	R	False=0 True=1
AEM 2 Protection 7	Threshold 2 Alarm	1051	7	UInt16	2	R	False=0 True=1
AEM 2 Protection 7	Threshold 3 Trip	1051	8	UInt16	2	R	False=0 True=1
AEM 2 Protection 7	Threshold 3 Pre-Alarm	1051	9	UInt16	2	R	False=0 True=1
AEM 2 Protection 7	Threshold 3 Alarm	1051	10	UInt16	2	R	False=0 True=1
AEM 2 Protection 7	Threshold 4 Trip	1051	11	UInt16	2	R	False=0 True=1
AEM 2 Protection 7	Threshold 4 Pre-Alarm	1051	12	UInt16	2	R	False=0 True=1
AEM 2 Protection 7	Threshold 4 Alarm	1051	13	UInt16	2	R	False=0 True=1
AEM 2 Protection 8	Threshold 1 Trip	1051	14	UInt16	2	R	False=0 True=1

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Name	Description	Register	Bit	Type	Bytes	R/W	Range
AEM 2 RTD Protection 6	Threshold 2 Alarm	1056	11	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 6	Threshold 3 Trip	1056	12	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 6	Threshold 3 Pre-Alarm	1056	13	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 6	Threshold 3 Alarm	1056	14	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 6	Threshold 4 Trip	1056	15	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 6	Threshold 4 Pre-Alarm	1057	0	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 6	Threshold 4 Alarm	1057	1	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 7	Threshold 1 Trip	1057	2	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 7	Threshold 1 Pre-Alarm	1057	3	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 7	Threshold 1 Alarm	1057	4	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 7	Threshold 2 Trip	1057	5	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 7	Threshold 2 Pre-Alarm	1057	6	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 7	Threshold 2 Alarm	1057	7	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 7	Threshold 3 Trip	1057	8	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 7	Threshold 3 Pre-Alarm	1057	9	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 7	Threshold 3 Alarm	1057	10	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 7	Threshold 4 Trip	1057	11	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 7	Threshold 4 Pre-Alarm	1057	12	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 7	Threshold 4 Alarm	1057	13	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 8	Threshold 1 Trip	1057	14	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 8	Threshold 1 Pre-Alarm	1057	15	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 8	Threshold 1 Alarm	1058	0	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 8	Threshold 2 Trip	1058	1	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 8	Threshold 2 Pre-Alarm	1058	2	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 8	Threshold 2 Alarm	1058	3	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 8	Threshold 3 Trip	1058	4	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 8	Threshold 3 Pre-Alarm	1058	5	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 8	Threshold 3 Alarm	1058	6	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 8	Threshold 4 Trip	1058	7	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 8	Threshold 4 Pre-Alarm	1058	8	UInt16	2	R	False=0 True=1
AEM 2 RTD Protection 8	Threshold 4 Alarm	1058	9	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 1	Threshold 1 Trip	1058	10	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 1	Threshold 1 Pre-Alarm	1058	11	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 1	Threshold 1 Alarm	1058	12	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 1	Threshold 2 Trip	1058	13	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 1	Threshold 2 Pre-Alarm	1058	14	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 1	Threshold 2 Alarm	1058	15	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 1	Threshold 3 Trip	1059	0	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 1	Threshold 3 Pre-Alarm	1059	1	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 1	Threshold 3 Alarm	1059	2	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 1	Threshold 4 Trip	1059	3	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 1	Threshold 4 Pre-Alarm	1059	4	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 1	Threshold 4 Alarm	1059	5	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 2	Threshold 1 Trip	1059	6	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 2	Threshold 1 Pre-Alarm	1059	7	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 2	Threshold 1 Alarm	1059	8	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 2	Threshold 2 Trip	1059	9	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 2	Threshold 2 Pre-Alarm	1059	10	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 2	Threshold 2 Alarm	1059	11	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 2	Threshold 3 Trip	1059	12	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 2	Threshold 3 Pre-Alarm	1059	13	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 2	Threshold 3 Alarm	1059	14	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 2	Threshold 4 Trip	1059	15	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 2	Threshold 4 Pre-Alarm	1060	0	UInt16	2	R	False=0 True=1
AEM 2 Thermal Protection 2	Threshold 4 Alarm	1060	1	UInt16	2	R	False=0 True=1
AEM 3	Connected	1060	2	UInt16	2	R	False=0 True=1
AEM 3	Comms Failure	1060	3	UInt16	2	R	False=0 True=1
AEM 3	Duplicate AEM	1060	4	UInt16	2	R	False=0 True=1
AEM 3	Input 1 Out-of-Range	1060	5	UInt16	2	R	False=0 True=1
AEM 3	Input 1 Out-of-Range Pre-Alarm	1060	6	UInt16	2	R	False=0 True=1
AEM 3	Input 1 Out-of-Range Alarm	1060	7	UInt16	2	R	False=0 True=1
AEM 3	Input 2 Out-of-Range	1060	8	UInt16	2	R	False=0 True=1
AEM 3	Input 2 Out-of-Range Pre-Alarm	1060	9	UInt16	2	R	False=0 True=1
AEM 3	Input 2 Out-of-Range Alarm	1060	10	UInt16	2	R	False=0 True=1
AEM 3	Input 3 Out-of-Range	1060	11	UInt16	2	R	False=0 True=1
AEM 3	Input 3 Out-of-Range Pre-Alarm	1060	12	UInt16	2	R	False=0 True=1
AEM 3	Input 3 Out-of-Range Alarm	1060	13	UInt16	2	R	False=0 True=1
AEM 3	Input 4 Out-of-Range	1060	14	UInt16	2	R	False=0 True=1
AEM 3	Input 4 Out-of-Range Pre-Alarm	1060	15	UInt16	2	R	False=0 True=1
AEM 3	Input 4 Out-of-Range Alarm	1061	0	UInt16	2	R	False=0 True=1
AEM 3	Input 5 Out-of-Range	1061	1	UInt16	2	R	False=0 True=1
AEM 3	Input 5 Out-of-Range Pre-Alarm	1061	2	UInt16	2	R	False=0 True=1
AEM 3	Input 5 Out-of-Range Alarm	1061	3	UInt16	2	R	False=0 True=1
AEM 3	Input 6 Out-of-Range	1061	4	UInt16	2	R	False=0 True=1
AEM 3	Input 6 Out-of-Range Pre-Alarm	1061	5	UInt16	2	R	False=0 True=1
AEM 3	Input 6 Out-of-Range Alarm	1061	6	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
AEM 3	Input 7 Out-of-Range	1061	7	UInt16	2	R	False=0 True=1
AEM 3	Input 7 Out-of-Range Pre-Alarm	1061	8	UInt16	2	R	False=0 True=1
AEM 3	Input 7 Out-of-Range Alarm	1061	9	UInt16	2	R	False=0 True=1
AEM 3	Input 8 Out-of-Range	1061	10	UInt16	2	R	False=0 True=1
AEM 3	Input 8 Out-of-Range Pre-Alarm	1061	11	UInt16	2	R	False=0 True=1
AEM 3	Input 8 Out-of-Range Alarm	1061	12	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 1 Out-of-Range	1061	13	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 1 Out-of-Range Pre-Alarm	1061	14	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 1 Out-of-Range Alarm	1061	15	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 2 Out-of-Range	1062	0	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 2 Out-of-Range Pre-Alarm	1062	1	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 2 Out-of-Range Alarm	1062	2	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 3 Out-of-Range	1062	3	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 3 Out-of-Range Pre-Alarm	1062	4	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 3 Out-of-Range Alarm	1062	5	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 4 Out-of-Range	1062	6	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 4 Out-of-Range Pre-Alarm	1062	7	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 4 Out-of-Range Alarm	1062	8	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 5 Out-of-Range	1062	9	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 5 Out-of-Range Pre-Alarm	1062	10	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 5 Out-of-Range Alarm	1062	11	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 6 Out-of-Range	1062	12	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 6 Out-of-Range Pre-Alarm	1062	13	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 6 Out-of-Range Alarm	1062	14	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 7 Out-of-Range	1062	15	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 7 Out-of-Range Pre-Alarm	1063	0	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 7 Out-of-Range Alarm	1063	1	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 8 Out-of-Range	1063	2	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 8 Out-of-Range Pre-Alarm	1063	3	UInt16	2	R	False=0 True=1
AEM 3	RTD Input 8 Out-of-Range Alarm	1063	4	UInt16	2	R	False=0 True=1
AEM 3	Thermalcouple 1 Out-of-Range	1063	5	UInt16	2	R	False=0 True=1
AEM 3	Thermalcouple 1 Out-of-Range Pre-Alarm	1063	6	UInt16	2	R	False=0 True=1
AEM 3	Thermalcouple 1 Out-of-Range Alarm	1063	7	UInt16	2	R	False=0 True=1
AEM 3	Thermalcouple 2 Out-of-Range	1063	8	UInt16	2	R	False=0 True=1
AEM 3	Thermalcouple 2 Out-of-Range Pre-Alarm	1063	9	UInt16	2	R	False=0 True=1
AEM 3	Thermalcouple 2 Out-of-Range Alarm	1063	10	UInt16	2	R	False=0 True=1
AEM 3	Output 1 Out-of-Range	1063	11	UInt16	2	R	False=0 True=1
AEM 3	Output 1 Out-of-Range Pre-Alarm	1063	12	UInt16	2	R	False=0 True=1
AEM 3	Output 1 Out-of-Range Alarm	1063	13	UInt16	2	R	False=0 True=1
AEM 3	Output 2 Out-of-Range	1063	14	UInt16	2	R	False=0 True=1
AEM 3	Output 2 Out-of-Range Pre-Alarm	1063	15	UInt16	2	R	False=0 True=1
AEM 3	Output 2 Out-of-Range Alarm	1064	0	UInt16	2	R	False=0 True=1
AEM 3	Output 3 Out-of-Range	1064	1	UInt16	2	R	False=0 True=1
AEM 3	Output 3 Out-of-Range Pre-Alarm	1064	2	UInt16	2	R	False=0 True=1
AEM 3	Output 3 Out-of-Range Alarm	1064	3	UInt16	2	R	False=0 True=1
AEM 3	Output 4 Out-of-Range	1064	4	UInt16	2	R	False=0 True=1
AEM 3	Output 4 Out-of-Range Pre-Alarm	1064	5	UInt16	2	R	False=0 True=1
AEM 3	Output 4 Out-of-Range Alarm	1064	6	UInt16	2	R	False=0 True=1
AEM 3	Not Configured	1064	7	UInt16	2	R	False=0 True=1
AEM 3 Protection 1	Threshold 1 Trip	1064	8	UInt16	2	R	False=0 True=1
AEM 3 Protection 1	Threshold 1 Pre-Alarm	1064	9	UInt16	2	R	False=0 True=1
AEM 3 Protection 1	Threshold 1 Alarm	1064	10	UInt16	2	R	False=0 True=1
AEM 3 Protection 1	Threshold 2 Trip	1064	11	UInt16	2	R	False=0 True=1
AEM 3 Protection 1	Threshold 2 Pre-Alarm	1064	12	UInt16	2	R	False=0 True=1
AEM 3 Protection 1	Threshold 2 Alarm	1064	13	UInt16	2	R	False=0 True=1
AEM 3 Protection 1	Threshold 3 Trip	1064	14	UInt16	2	R	False=0 True=1
AEM 3 Protection 1	Threshold 3 Pre-Alarm	1064	15	UInt16	2	R	False=0 True=1
AEM 3 Protection 1	Threshold 3 Alarm	1065	0	UInt16	2	R	False=0 True=1
AEM 3 Protection 1	Threshold 4 Trip	1065	1	UInt16	2	R	False=0 True=1
AEM 3 Protection 1	Threshold 4 Pre-Alarm	1065	2	UInt16	2	R	False=0 True=1
AEM 3 Protection 1	Threshold 4 Alarm	1065	3	UInt16	2	R	False=0 True=1
AEM 3 Protection 2	Threshold 1 Trip	1065	4	UInt16	2	R	False=0 True=1
AEM 3 Protection 2	Threshold 1 Pre-Alarm	1065	5	UInt16	2	R	False=0 True=1
AEM 3 Protection 2	Threshold 1 Alarm	1065	6	UInt16	2	R	False=0 True=1
AEM 3 Protection 2	Threshold 2 Trip	1065	7	UInt16	2	R	False=0 True=1
AEM 3 Protection 2	Threshold 2 Pre-Alarm	1065	8	UInt16	2	R	False=0 True=1
AEM 3 Protection 2	Threshold 2 Alarm	1065	9	UInt16	2	R	False=0 True=1
AEM 3 Protection 2	Threshold 3 Trip	1065	10	UInt16	2	R	False=0 True=1
AEM 3 Protection 2	Threshold 3 Pre-Alarm	1065	11	UInt16	2	R	False=0 True=1
AEM 3 Protection 2	Threshold 3 Alarm	1065	12	UInt16	2	R	False=0 True=1
AEM 3 Protection 2	Threshold 4 Trip	1065	13	UInt16	2	R	False=0 True=1
AEM 3 Protection 2	Threshold 4 Pre-Alarm	1065	14	UInt16	2	R	False=0 True=1
AEM 3 Protection 2	Threshold 4 Alarm	1065	15	UInt16	2	R	False=0 True=1
AEM 3 Protection 3	Threshold 1 Trip	1066	0	UInt16	2	R	False=0 True=1
AEM 3 Protection 3	Threshold 1 Pre-Alarm	1066	1	UInt16	2	R	False=0 True=1
AEM 3 Protection 3	Threshold 1 Alarm	1066	2	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
AEM 3 Protection 3	Threshold 2 Trip	1066	3	UInt16	2	R	False=0 True=1
AEM 3 Protection 3	Threshold 2 Pre-Alarm	1066	4	UInt16	2	R	False=0 True=1
AEM 3 Protection 3	Threshold 2 Alarm	1066	5	UInt16	2	R	False=0 True=1
AEM 3 Protection 3	Threshold 3 Trip	1066	6	UInt16	2	R	False=0 True=1
AEM 3 Protection 3	Threshold 3 Pre-Alarm	1066	7	UInt16	2	R	False=0 True=1
AEM 3 Protection 3	Threshold 3 Alarm	1066	8	UInt16	2	R	False=0 True=1
AEM 3 Protection 3	Threshold 4 Trip	1066	9	UInt16	2	R	False=0 True=1
AEM 3 Protection 3	Threshold 4 Pre-Alarm	1066	10	UInt16	2	R	False=0 True=1
AEM 3 Protection 3	Threshold 4 Alarm	1066	11	UInt16	2	R	False=0 True=1
AEM 3 Protection 4	Threshold 1 Trip	1066	12	UInt16	2	R	False=0 True=1
AEM 3 Protection 4	Threshold 1 Pre-Alarm	1066	13	UInt16	2	R	False=0 True=1
AEM 3 Protection 4	Threshold 1 Alarm	1066	14	UInt16	2	R	False=0 True=1
AEM 3 Protection 4	Threshold 2 Trip	1066	15	UInt16	2	R	False=0 True=1
AEM 3 Protection 4	Threshold 2 Pre-Alarm	1067	0	UInt16	2	R	False=0 True=1
AEM 3 Protection 4	Threshold 2 Alarm	1067	1	UInt16	2	R	False=0 True=1
AEM 3 Protection 4	Threshold 3 Trip	1067	2	UInt16	2	R	False=0 True=1
AEM 3 Protection 4	Threshold 3 Pre-Alarm	1067	3	UInt16	2	R	False=0 True=1
AEM 3 Protection 4	Threshold 3 Alarm	1067	4	UInt16	2	R	False=0 True=1
AEM 3 Protection 4	Threshold 4 Trip	1067	5	UInt16	2	R	False=0 True=1
AEM 3 Protection 4	Threshold 4 Pre-Alarm	1067	6	UInt16	2	R	False=0 True=1
AEM 3 Protection 4	Threshold 4 Alarm	1067	7	UInt16	2	R	False=0 True=1
AEM 3 Protection 5	Threshold 1 Trip	1067	8	UInt16	2	R	False=0 True=1
AEM 3 Protection 5	Threshold 1 Pre-Alarm	1067	9	UInt16	2	R	False=0 True=1
AEM 3 Protection 5	Threshold 1 Alarm	1067	10	UInt16	2	R	False=0 True=1
AEM 3 Protection 5	Threshold 2 Trip	1067	11	UInt16	2	R	False=0 True=1
AEM 3 Protection 5	Threshold 2 Pre-Alarm	1067	12	UInt16	2	R	False=0 True=1
AEM 3 Protection 5	Threshold 2 Alarm	1067	13	UInt16	2	R	False=0 True=1
AEM 3 Protection 5	Threshold 3 Trip	1067	14	UInt16	2	R	False=0 True=1
AEM 3 Protection 5	Threshold 3 Pre-Alarm	1067	15	UInt16	2	R	False=0 True=1
AEM 3 Protection 5	Threshold 3 Alarm	1068	0	UInt16	2	R	False=0 True=1
AEM 3 Protection 5	Threshold 4 Trip	1068	1	UInt16	2	R	False=0 True=1
AEM 3 Protection 5	Threshold 4 Pre-Alarm	1068	2	UInt16	2	R	False=0 True=1
AEM 3 Protection 5	Threshold 4 Alarm	1068	3	UInt16	2	R	False=0 True=1
AEM 3 Protection 6	Threshold 1 Trip	1068	4	UInt16	2	R	False=0 True=1
AEM 3 Protection 6	Threshold 1 Pre-Alarm	1068	5	UInt16	2	R	False=0 True=1
AEM 3 Protection 6	Threshold 1 Alarm	1068	6	UInt16	2	R	False=0 True=1
AEM 3 Protection 6	Threshold 2 Trip	1068	7	UInt16	2	R	False=0 True=1
AEM 3 Protection 6	Threshold 2 Pre-Alarm	1068	8	UInt16	2	R	False=0 True=1
AEM 3 Protection 6	Threshold 2 Alarm	1068	9	UInt16	2	R	False=0 True=1
AEM 3 Protection 6	Threshold 3 Trip	1068	10	UInt16	2	R	False=0 True=1
AEM 3 Protection 6	Threshold 3 Pre-Alarm	1068	11	UInt16	2	R	False=0 True=1
AEM 3 Protection 6	Threshold 3 Alarm	1068	12	UInt16	2	R	False=0 True=1
AEM 3 Protection 6	Threshold 4 Trip	1068	13	UInt16	2	R	False=0 True=1
AEM 3 Protection 6	Threshold 4 Pre-Alarm	1068	14	UInt16	2	R	False=0 True=1
AEM 3 Protection 6	Threshold 4 Alarm	1068	15	UInt16	2	R	False=0 True=1
AEM 3 Protection 7	Threshold 1 Trip	1069	0	UInt16	2	R	False=0 True=1
AEM 3 Protection 7	Threshold 1 Pre-Alarm	1069	1	UInt16	2	R	False=0 True=1
AEM 3 Protection 7	Threshold 1 Alarm	1069	2	UInt16	2	R	False=0 True=1
AEM 3 Protection 7	Threshold 2 Trip	1069	3	UInt16	2	R	False=0 True=1
AEM 3 Protection 7	Threshold 2 Pre-Alarm	1069	4	UInt16	2	R	False=0 True=1
AEM 3 Protection 7	Threshold 2 Alarm	1069	5	UInt16	2	R	False=0 True=1
AEM 3 Protection 7	Threshold 3 Trip	1069	6	UInt16	2	R	False=0 True=1
AEM 3 Protection 7	Threshold 3 Pre-Alarm	1069	7	UInt16	2	R	False=0 True=1
AEM 3 Protection 7	Threshold 3 Alarm	1069	8	UInt16	2	R	False=0 True=1
AEM 3 Protection 7	Threshold 4 Trip	1069	9	UInt16	2	R	False=0 True=1
AEM 3 Protection 7	Threshold 4 Pre-Alarm	1069	10	UInt16	2	R	False=0 True=1
AEM 3 Protection 7	Threshold 4 Alarm	1069	11	UInt16	2	R	False=0 True=1
AEM 3 Protection 8	Threshold 1 Trip	1069	12	UInt16	2	R	False=0 True=1
AEM 3 Protection 8	Threshold 1 Pre-Alarm	1069	13	UInt16	2	R	False=0 True=1
AEM 3 Protection 8	Threshold 1 Alarm	1069	14	UInt16	2	R	False=0 True=1
AEM 3 Protection 8	Threshold 2 Trip	1069	15	UInt16	2	R	False=0 True=1
AEM 3 Protection 8	Threshold 2 Pre-Alarm	1070	0	UInt16	2	R	False=0 True=1
AEM 3 Protection 8	Threshold 2 Alarm	1070	1	UInt16	2	R	False=0 True=1
AEM 3 Protection 8	Threshold 3 Trip	1070	2	UInt16	2	R	False=0 True=1
AEM 3 Protection 8	Threshold 3 Pre-Alarm	1070	3	UInt16	2	R	False=0 True=1
AEM 3 Protection 8	Threshold 3 Alarm	1070	4	UInt16	2	R	False=0 True=1
AEM 3 Protection 8	Threshold 4 Trip	1070	5	UInt16	2	R	False=0 True=1
AEM 3 Protection 8	Threshold 4 Pre-Alarm	1070	6	UInt16	2	R	False=0 True=1
AEM 3 Protection 8	Threshold 4 Alarm	1070	7	UInt16	2	R	False=0 True=1
AEM 3 RTD Protection 1	Threshold 1 Trip	1070	8	UInt16	2	R	False=0 True=1
AEM 3 RTD Protection 1	Threshold 1 Pre-Alarm	1070	9	UInt16	2	R	False=0 True=1
AEM 3 RTD Protection 1	Threshold 1 Alarm	1070	10	UInt16	2	R	False=0 True=1
AEM 3 RTD Protection 1	Threshold 2 Trip	1070	11	UInt16	2	R	False=0 True=1
AEM 3 RTD Protection 1	Threshold 2 Pre-Alarm	1070	12	UInt16	2	R	False=0 True=1
AEM 3 RTD Protection 1	Threshold 2 Alarm	1070	13	UInt16	2	R	False=0 True=1
AEM 3 RTD Protection 1	Threshold 3 Trip	1070	14	UInt16	2	R	False=0 True=1

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Name	Description	Register	Bit	Type	Bytes	R/W	Range
AEM 3 RTD Protection 7	Threshold 4 Alarm	1075	11	UInt16	2	R	False=0 True=1
AEM 3 RTD Protection 8	Threshold 1 Trip	1075	12	UInt16	2	R	False=0 True=1
AEM 3 RTD Protection 8	Threshold 1 Pre-Alarm	1075	13	UInt16	2	R	False=0 True=1
AEM 3 RTD Protection 8	Threshold 1 Alarm	1075	14	UInt16	2	R	False=0 True=1
AEM 3 RTD Protection 8	Threshold 2 Trip	1075	15	UInt16	2	R	False=0 True=1
AEM 3 RTD Protection 8	Threshold 2 Pre-Alarm	1076	0	UInt16	2	R	False=0 True=1
AEM 3 RTD Protection 8	Threshold 2 Alarm	1076	1	UInt16	2	R	False=0 True=1
AEM 3 RTD Protection 8	Threshold 3 Trip	1076	2	UInt16	2	R	False=0 True=1
AEM 3 RTD Protection 8	Threshold 3 Pre-Alarm	1076	3	UInt16	2	R	False=0 True=1
AEM 3 RTD Protection 8	Threshold 3 Alarm	1076	4	UInt16	2	R	False=0 True=1
AEM 3 RTD Protection 8	Threshold 4 Trip	1076	5	UInt16	2	R	False=0 True=1
AEM 3 RTD Protection 8	Threshold 4 Pre-Alarm	1076	6	UInt16	2	R	False=0 True=1
AEM 3 RTD Protection 8	Threshold 4 Alarm	1076	7	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 1	Threshold 1 Trip	1076	8	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 1	Threshold 1 Pre-Alarm	1076	9	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 1	Threshold 1 Alarm	1076	10	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 1	Threshold 2 Trip	1076	11	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 1	Threshold 2 Pre-Alarm	1076	12	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 1	Threshold 2 Alarm	1076	13	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 1	Threshold 3 Trip	1076	14	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 1	Threshold 3 Pre-Alarm	1076	15	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 1	Threshold 3 Alarm	1077	0	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 1	Threshold 4 Trip	1077	1	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 1	Threshold 4 Pre-Alarm	1077	2	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 1	Threshold 4 Alarm	1077	3	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 2	Threshold 1 Trip	1077	4	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 2	Threshold 1 Pre-Alarm	1077	5	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 2	Threshold 1 Alarm	1077	6	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 2	Threshold 2 Trip	1077	7	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 2	Threshold 2 Pre-Alarm	1077	8	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 2	Threshold 2 Alarm	1077	9	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 2	Threshold 3 Trip	1077	10	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 2	Threshold 3 Pre-Alarm	1077	11	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 2	Threshold 3 Alarm	1077	12	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 2	Threshold 4 Trip	1077	13	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 2	Threshold 4 Pre-Alarm	1077	14	UInt16	2	R	False=0 True=1
AEM 3 Thermal Protection 2	Threshold 4 Alarm	1077	15	UInt16	2	R	False=0 True=1
AEM 4	Connected	1078	0	UInt16	2	R	False=0 True=1
AEM 4	Comms Failure	1078	1	UInt16	2	R	False=0 True=1
AEM 4	Duplicate AEM	1078	2	UInt16	2	R	False=0 True=1
AEM 4	Input 1 Out-of-Range	1078	3	UInt16	2	R	False=0 True=1
AEM 4	Input 1 Out-of-Range Pre-Alarm	1078	4	UInt16	2	R	False=0 True=1
AEM 4	Input 1 Out-of-Range Alarm	1078	5	UInt16	2	R	False=0 True=1
AEM 4	Input 2 Out-of-Range	1078	6	UInt16	2	R	False=0 True=1
AEM 4	Input 2 Out-of-Range Pre-Alarm	1078	7	UInt16	2	R	False=0 True=1
AEM 4	Input 2 Out-of-Range Alarm	1078	8	UInt16	2	R	False=0 True=1
AEM 4	Input 3 Out-of-Range	1078	9	UInt16	2	R	False=0 True=1
AEM 4	Input 3 Out-of-Range Pre-Alarm	1078	10	UInt16	2	R	False=0 True=1
AEM 4	Input 3 Out-of-Range Alarm	1078	11	UInt16	2	R	False=0 True=1
AEM 4	Input 4 Out-of-Range	1078	12	UInt16	2	R	False=0 True=1
AEM 4	Input 4 Out-of-Range Pre-Alarm	1078	13	UInt16	2	R	False=0 True=1
AEM 4	Input 4 Out-of-Range Alarm	1078	14	UInt16	2	R	False=0 True=1
AEM 4	Input 5 Out-of-Range	1078	15	UInt16	2	R	False=0 True=1
AEM 4	Input 5 Out-of-Range Pre-Alarm	1079	0	UInt16	2	R	False=0 True=1
AEM 4	Input 5 Out-of-Range Alarm	1079	1	UInt16	2	R	False=0 True=1
AEM 4	Input 6 Out-of-Range	1079	2	UInt16	2	R	False=0 True=1
AEM 4	Input 6 Out-of-Range Pre-Alarm	1079	3	UInt16	2	R	False=0 True=1
AEM 4	Input 6 Out-of-Range Alarm	1079	4	UInt16	2	R	False=0 True=1
AEM 4	Input 7 Out-of-Range	1079	5	UInt16	2	R	False=0 True=1
AEM 4	Input 7 Out-of-Range Pre-Alarm	1079	6	UInt16	2	R	False=0 True=1
AEM 4	Input 7 Out-of-Range Alarm	1079	7	UInt16	2	R	False=0 True=1
AEM 4	Input 8 Out-of-Range	1079	8	UInt16	2	R	False=0 True=1
AEM 4	Input 8 Out-of-Range Pre-Alarm	1079	9	UInt16	2	R	False=0 True=1
AEM 4	Input 8 Out-of-Range Alarm	1079	10	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 1 Out-of-Range	1079	11	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 1 Out-of-Range Pre-Alarm	1079	12	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 1 Out-of-Range Alarm	1079	13	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 2 Out-of-Range	1079	14	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 2 Out-of-Range Pre-Alarm	1079	15	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 2 Out-of-Range Alarm	1080	0	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 3 Out-of-Range	1080	1	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 3 Out-of-Range Pre-Alarm	1080	2	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 3 Out-of-Range Alarm	1080	3	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 4 Out-of-Range	1080	4	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 4 Out-of-Range Pre-Alarm	1080	5	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 4 Out-of-Range Alarm	1080	6	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
AEM 4	RTD Input 5 Out-of-Range	1080	7	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 5 Out-of-Range Pre-Alarm	1080	8	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 5 Out-of-Range Alarm	1080	9	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 6 Out-of-Range	1080	10	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 6 Out-of-Range Pre-Alarm	1080	11	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 6 Out-of-Range Alarm	1080	12	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 7 Out-of-Range	1080	13	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 7 Out-of-Range Pre-Alarm	1080	14	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 7 Out-of-Range Alarm	1080	15	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 8 Out-of-Range	1081	0	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 8 Out-of-Range Pre-Alarm	1081	1	UInt16	2	R	False=0 True=1
AEM 4	RTD Input 8 Out-of-Range Alarm	1081	2	UInt16	2	R	False=0 True=1
AEM 4	Thermalcouple 1 Out-of-Range	1081	3	UInt16	2	R	False=0 True=1
AEM 4	Thermalcouple 1 Out-of-Range Pre-Alarm	1081	4	UInt16	2	R	False=0 True=1
AEM 4	Thermalcouple 1 Out-of-Range Alarm	1081	5	UInt16	2	R	False=0 True=1
AEM 4	Thermalcouple 2 Out-of-Range	1081	6	UInt16	2	R	False=0 True=1
AEM 4	Thermalcouple 2 Out-of-Range Pre-Alarm	1081	7	UInt16	2	R	False=0 True=1
AEM 4	Thermalcouple 2 Out-of-Range Alarm	1081	8	UInt16	2	R	False=0 True=1
AEM 4	Output 1 Out-of-Range	1081	9	UInt16	2	R	False=0 True=1
AEM 4	Output 1 Out-of-Range Pre-Alarm	1081	10	UInt16	2	R	False=0 True=1
AEM 4	Output 1 Out-of-Range Alarm	1081	11	UInt16	2	R	False=0 True=1
AEM 4	Output 2 Out-of-Range	1081	12	UInt16	2	R	False=0 True=1
AEM 4	Output 2 Out-of-Range Pre-Alarm	1081	13	UInt16	2	R	False=0 True=1
AEM 4	Output 2 Out-of-Range Alarm	1081	14	UInt16	2	R	False=0 True=1
AEM 4	Output 3 Out-of-Range	1081	15	UInt16	2	R	False=0 True=1
AEM 4	Output 3 Out-of-Range Pre-Alarm	1082	0	UInt16	2	R	False=0 True=1
AEM 4	Output 3 Out-of-Range Alarm	1082	1	UInt16	2	R	False=0 True=1
AEM 4	Output 4 Out-of-Range	1082	2	UInt16	2	R	False=0 True=1
AEM 4	Output 4 Out-of-Range Pre-Alarm	1082	3	UInt16	2	R	False=0 True=1
AEM 4	Output 4 Out-of-Range Alarm	1082	4	UInt16	2	R	False=0 True=1
AEM 4	Not Configured	1082	5	UInt16	2	R	False=0 True=1
AEM 4 Protection 1	Threshold 1 Trip	1082	6	UInt16	2	R	False=0 True=1
AEM 4 Protection 1	Threshold 1 Pre-Alarm	1082	7	UInt16	2	R	False=0 True=1
AEM 4 Protection 1	Threshold 1 Alarm	1082	8	UInt16	2	R	False=0 True=1
AEM 4 Protection 1	Threshold 2 Trip	1082	9	UInt16	2	R	False=0 True=1
AEM 4 Protection 1	Threshold 2 Pre-Alarm	1082	10	UInt16	2	R	False=0 True=1
AEM 4 Protection 1	Threshold 2 Alarm	1082	11	UInt16	2	R	False=0 True=1
AEM 4 Protection 1	Threshold 3 Trip	1082	12	UInt16	2	R	False=0 True=1
AEM 4 Protection 1	Threshold 3 Pre-Alarm	1082	13	UInt16	2	R	False=0 True=1
AEM 4 Protection 1	Threshold 3 Alarm	1082	14	UInt16	2	R	False=0 True=1
AEM 4 Protection 1	Threshold 4 Trip	1082	15	UInt16	2	R	False=0 True=1
AEM 4 Protection 1	Threshold 4 Pre-Alarm	1083	0	UInt16	2	R	False=0 True=1
AEM 4 Protection 1	Threshold 4 Alarm	1083	1	UInt16	2	R	False=0 True=1
AEM 4 Protection 2	Threshold 1 Trip	1083	2	UInt16	2	R	False=0 True=1
AEM 4 Protection 2	Threshold 1 Pre-Alarm	1083	3	UInt16	2	R	False=0 True=1
AEM 4 Protection 2	Threshold 1 Alarm	1083	4	UInt16	2	R	False=0 True=1
AEM 4 Protection 2	Threshold 2 Trip	1083	5	UInt16	2	R	False=0 True=1
AEM 4 Protection 2	Threshold 2 Pre-Alarm	1083	6	UInt16	2	R	False=0 True=1
AEM 4 Protection 2	Threshold 2 Alarm	1083	7	UInt16	2	R	False=0 True=1
AEM 4 Protection 2	Threshold 3 Trip	1083	8	UInt16	2	R	False=0 True=1
AEM 4 Protection 2	Threshold 3 Pre-Alarm	1083	9	UInt16	2	R	False=0 True=1
AEM 4 Protection 2	Threshold 3 Alarm	1083	10	UInt16	2	R	False=0 True=1
AEM 4 Protection 2	Threshold 4 Trip	1083	11	UInt16	2	R	False=0 True=1
AEM 4 Protection 2	Threshold 4 Pre-Alarm	1083	12	UInt16	2	R	False=0 True=1
AEM 4 Protection 2	Threshold 4 Alarm	1083	13	UInt16	2	R	False=0 True=1
AEM 4 Protection 3	Threshold 1 Trip	1083	14	UInt16	2	R	False=0 True=1
AEM 4 Protection 3	Threshold 1 Pre-Alarm	1083	15	UInt16	2	R	False=0 True=1
AEM 4 Protection 3	Threshold 1 Alarm	1084	0	UInt16	2	R	False=0 True=1
AEM 4 Protection 3	Threshold 2 Trip	1084	1	UInt16	2	R	False=0 True=1
AEM 4 Protection 3	Threshold 2 Pre-Alarm	1084	2	UInt16	2	R	False=0 True=1
AEM 4 Protection 3	Threshold 2 Alarm	1084	3	UInt16	2	R	False=0 True=1
AEM 4 Protection 3	Threshold 3 Trip	1084	4	UInt16	2	R	False=0 True=1
AEM 4 Protection 3	Threshold 3 Pre-Alarm	1084	5	UInt16	2	R	False=0 True=1
AEM 4 Protection 3	Threshold 3 Alarm	1084	6	UInt16	2	R	False=0 True=1
AEM 4 Protection 3	Threshold 4 Trip	1084	7	UInt16	2	R	False=0 True=1
AEM 4 Protection 3	Threshold 4 Pre-Alarm	1084	8	UInt16	2	R	False=0 True=1
AEM 4 Protection 3	Threshold 4 Alarm	1084	9	UInt16	2	R	False=0 True=1
AEM 4 Protection 4	Threshold 1 Trip	1084	10	UInt16	2	R	False=0 True=1
AEM 4 Protection 4	Threshold 1 Pre-Alarm	1084	11	UInt16	2	R	False=0 True=1
AEM 4 Protection 4	Threshold 1 Alarm	1084	12	UInt16	2	R	False=0 True=1
AEM 4 Protection 4	Threshold 2 Trip	1084	13	UInt16	2	R	False=0 True=1
AEM 4 Protection 4	Threshold 2 Pre-Alarm	1084	14	UInt16	2	R	False=0 True=1
AEM 4 Protection 4	Threshold 2 Alarm	1084	15	UInt16	2	R	False=0 True=1
AEM 4 Protection 4	Threshold 3 Trip	1085	0	UInt16	2	R	False=0 True=1
AEM 4 Protection 4	Threshold 3 Pre-Alarm	1085	1	UInt16	2	R	False=0 True=1
AEM 4 Protection 4	Threshold 3 Alarm	1085	2	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
AEM 4 Protection 4	Threshold 4 Trip	1085	3	UInt16	2	R	False=0 True=1
AEM 4 Protection 4	Threshold 4 Pre-Alarm	1085	4	UInt16	2	R	False=0 True=1
AEM 4 Protection 4	Threshold 4 Alarm	1085	5	UInt16	2	R	False=0 True=1
AEM 4 Protection 5	Threshold 1 Trip	1085	6	UInt16	2	R	False=0 True=1
AEM 4 Protection 5	Threshold 1 Pre-Alarm	1085	7	UInt16	2	R	False=0 True=1
AEM 4 Protection 5	Threshold 1 Alarm	1085	8	UInt16	2	R	False=0 True=1
AEM 4 Protection 5	Threshold 2 Trip	1085	9	UInt16	2	R	False=0 True=1
AEM 4 Protection 5	Threshold 2 Pre-Alarm	1085	10	UInt16	2	R	False=0 True=1
AEM 4 Protection 5	Threshold 2 Alarm	1085	11	UInt16	2	R	False=0 True=1
AEM 4 Protection 5	Threshold 3 Trip	1085	12	UInt16	2	R	False=0 True=1
AEM 4 Protection 5	Threshold 3 Pre-Alarm	1085	13	UInt16	2	R	False=0 True=1
AEM 4 Protection 5	Threshold 3 Alarm	1085	14	UInt16	2	R	False=0 True=1
AEM 4 Protection 5	Threshold 4 Trip	1085	15	UInt16	2	R	False=0 True=1
AEM 4 Protection 5	Threshold 4 Pre-Alarm	1086	0	UInt16	2	R	False=0 True=1
AEM 4 Protection 5	Threshold 4 Alarm	1086	1	UInt16	2	R	False=0 True=1
AEM 4 Protection 6	Threshold 1 Trip	1086	2	UInt16	2	R	False=0 True=1
AEM 4 Protection 6	Threshold 1 Pre-Alarm	1086	3	UInt16	2	R	False=0 True=1
AEM 4 Protection 6	Threshold 1 Alarm	1086	4	UInt16	2	R	False=0 True=1
AEM 4 Protection 6	Threshold 2 Trip	1086	5	UInt16	2	R	False=0 True=1
AEM 4 Protection 6	Threshold 2 Pre-Alarm	1086	6	UInt16	2	R	False=0 True=1
AEM 4 Protection 6	Threshold 2 Alarm	1086	7	UInt16	2	R	False=0 True=1
AEM 4 Protection 6	Threshold 3 Trip	1086	8	UInt16	2	R	False=0 True=1
AEM 4 Protection 6	Threshold 3 Pre-Alarm	1086	9	UInt16	2	R	False=0 True=1
AEM 4 Protection 6	Threshold 3 Alarm	1086	10	UInt16	2	R	False=0 True=1
AEM 4 Protection 6	Threshold 4 Trip	1086	11	UInt16	2	R	False=0 True=1
AEM 4 Protection 6	Threshold 4 Pre-Alarm	1086	12	UInt16	2	R	False=0 True=1
AEM 4 Protection 6	Threshold 4 Alarm	1086	13	UInt16	2	R	False=0 True=1
AEM 4 Protection 7	Threshold 1 Trip	1086	14	UInt16	2	R	False=0 True=1
AEM 4 Protection 7	Threshold 1 Pre-Alarm	1086	15	UInt16	2	R	False=0 True=1
AEM 4 Protection 7	Threshold 1 Alarm	1087	0	UInt16	2	R	False=0 True=1
AEM 4 Protection 7	Threshold 2 Trip	1087	1	UInt16	2	R	False=0 True=1
AEM 4 Protection 7	Threshold 2 Pre-Alarm	1087	2	UInt16	2	R	False=0 True=1
AEM 4 Protection 7	Threshold 2 Alarm	1087	3	UInt16	2	R	False=0 True=1
AEM 4 Protection 7	Threshold 3 Trip	1087	4	UInt16	2	R	False=0 True=1
AEM 4 Protection 7	Threshold 3 Pre-Alarm	1087	5	UInt16	2	R	False=0 True=1
AEM 4 Protection 7	Threshold 3 Alarm	1087	6	UInt16	2	R	False=0 True=1
AEM 4 Protection 7	Threshold 4 Trip	1087	7	UInt16	2	R	False=0 True=1
AEM 4 Protection 7	Threshold 4 Pre-Alarm	1087	8	UInt16	2	R	False=0 True=1
AEM 4 Protection 7	Threshold 4 Alarm	1087	9	UInt16	2	R	False=0 True=1
AEM 4 Protection 8	Threshold 1 Trip	1087	10	UInt16	2	R	False=0 True=1
AEM 4 Protection 8	Threshold 1 Pre-Alarm	1087	11	UInt16	2	R	False=0 True=1
AEM 4 Protection 8	Threshold 1 Alarm	1087	12	UInt16	2	R	False=0 True=1
AEM 4 Protection 8	Threshold 2 Trip	1087	13	UInt16	2	R	False=0 True=1
AEM 4 Protection 8	Threshold 2 Pre-Alarm	1087	14	UInt16	2	R	False=0 True=1
AEM 4 Protection 8	Threshold 2 Alarm	1087	15	UInt16	2	R	False=0 True=1
AEM 4 Protection 8	Threshold 3 Trip	1088	0	UInt16	2	R	False=0 True=1
AEM 4 Protection 8	Threshold 3 Pre-Alarm	1088	1	UInt16	2	R	False=0 True=1
AEM 4 Protection 8	Threshold 3 Alarm	1088	2	UInt16	2	R	False=0 True=1
AEM 4 Protection 8	Threshold 4 Trip	1088	3	UInt16	2	R	False=0 True=1
AEM 4 Protection 8	Threshold 4 Pre-Alarm	1088	4	UInt16	2	R	False=0 True=1
AEM 4 Protection 8	Threshold 4 Alarm	1088	5	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 1	Threshold 1 Trip	1088	6	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 1	Threshold 1 Pre-Alarm	1088	7	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 1	Threshold 1 Alarm	1088	8	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 1	Threshold 2 Trip	1088	9	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 1	Threshold 2 Pre-Alarm	1088	10	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 1	Threshold 2 Alarm	1088	11	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 1	Threshold 3 Trip	1088	12	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 1	Threshold 3 Pre-Alarm	1088	13	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 1	Threshold 3 Alarm	1088	14	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 1	Threshold 4 Trip	1088	15	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 1	Threshold 4 Pre-Alarm	1089	0	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 1	Threshold 4 Alarm	1089	1	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 2	Threshold 1 Trip	1089	2	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 2	Threshold 1 Pre-Alarm	1089	3	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 2	Threshold 1 Alarm	1089	4	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 2	Threshold 2 Trip	1089	5	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 2	Threshold 2 Pre-Alarm	1089	6	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 2	Threshold 2 Alarm	1089	7	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 2	Threshold 3 Trip	1089	8	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 2	Threshold 3 Pre-Alarm	1089	9	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 2	Threshold 3 Alarm	1089	10	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 2	Threshold 4 Trip	1089	11	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 2	Threshold 4 Pre-Alarm	1089	12	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 2	Threshold 4 Alarm	1089	13	UInt16	2	R	False=0 True=1
AEM 4 RTD Protection 3	Threshold 1 Trip	1089	14	UInt16	2	R	False=0 True=1

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Name	Description	Register	Bit	Type	Bytes	R/W	Range
AEM 4 Thermal Protection 1	Threshold 2 Alarm	1094	11	UInt16	2	R	False=0 True=1
AEM 4 Thermal Protection 1	Threshold 3 Trip	1094	12	UInt16	2	R	False=0 True=1
AEM 4 Thermal Protection 1	Threshold 3 Pre-Alarm	1094	13	UInt16	2	R	False=0 True=1
AEM 4 Thermal Protection 1	Threshold 3 Alarm	1094	14	UInt16	2	R	False=0 True=1
AEM 4 Thermal Protection 1	Threshold 4 Trip	1094	15	UInt16	2	R	False=0 True=1
AEM 4 Thermal Protection 1	Threshold 4 Pre-Alarm	1095	0	UInt16	2	R	False=0 True=1
AEM 4 Thermal Protection 1	Threshold 4 Alarm	1095	1	UInt16	2	R	False=0 True=1
AEM 4 Thermal Protection 2	Threshold 1 Trip	1095	2	UInt16	2	R	False=0 True=1
AEM 4 Thermal Protection 2	Threshold 1 Pre-Alarm	1095	3	UInt16	2	R	False=0 True=1
AEM 4 Thermal Protection 2	Threshold 1 Alarm	1095	4	UInt16	2	R	False=0 True=1
AEM 4 Thermal Protection 2	Threshold 2 Trip	1095	5	UInt16	2	R	False=0 True=1
AEM 4 Thermal Protection 2	Threshold 2 Pre-Alarm	1095	6	UInt16	2	R	False=0 True=1
AEM 4 Thermal Protection 2	Threshold 2 Alarm	1095	7	UInt16	2	R	False=0 True=1
AEM 4 Thermal Protection 2	Threshold 3 Trip	1095	8	UInt16	2	R	False=0 True=1
AEM 4 Thermal Protection 2	Threshold 3 Pre-Alarm	1095	9	UInt16	2	R	False=0 True=1
AEM 4 Thermal Protection 2	Threshold 3 Alarm	1095	10	UInt16	2	R	False=0 True=1
AEM 4 Thermal Protection 2	Threshold 4 Trip	1095	11	UInt16	2	R	False=0 True=1
AEM 4 Thermal Protection 2	Threshold 4 Pre-Alarm	1095	12	UInt16	2	R	False=0 True=1
AEM 4 Thermal Protection 2	Threshold 4 Alarm	1095	13	UInt16	2	R	False=0 True=1
CEM 1	Connected	1095	14	UInt16	2	R	False=0 True=1
CEM 1	Comms Failure	1095	15	UInt16	2	R	False=0 True=1
CEM 1	Duplicate CEM	1096	0	UInt16	2	R	False=0 True=1
CEM 1	Input 1	1096	1	UInt16	2	R	False=0 True=1
CEM 1	Input 2	1096	2	UInt16	2	R	False=0 True=1
CEM 1	Input 3	1096	3	UInt16	2	R	False=0 True=1
CEM 1	Input 4	1096	4	UInt16	2	R	False=0 True=1
CEM 1	Input 5	1096	5	UInt16	2	R	False=0 True=1
CEM 1	Input 6	1096	6	UInt16	2	R	False=0 True=1
CEM 1	Input 7	1096	7	UInt16	2	R	False=0 True=1
CEM 1	Input 8	1096	8	UInt16	2	R	False=0 True=1
CEM 1	Input 9	1096	9	UInt16	2	R	False=0 True=1
CEM 1	Input 10	1096	10	UInt16	2	R	False=0 True=1
CEM 1	Output 1	1096	11	UInt16	2	R	False=0 True=1
CEM 1	Output 2	1096	12	UInt16	2	R	False=0 True=1
CEM 1	Output 3	1096	13	UInt16	2	R	False=0 True=1
CEM 1	Output 4	1096	14	UInt16	2	R	False=0 True=1
CEM 1	Output 5	1096	15	UInt16	2	R	False=0 True=1
CEM 1	Output 6	1097	0	UInt16	2	R	False=0 True=1
CEM 1	Output 7	1097	1	UInt16	2	R	False=0 True=1
CEM 1	Output 8	1097	2	UInt16	2	R	False=0 True=1
CEM 1	Output 9	1097	3	UInt16	2	R	False=0 True=1
CEM 1	Output 10	1097	4	UInt16	2	R	False=0 True=1
CEM 1	Output 11	1097	5	UInt16	2	R	False=0 True=1
CEM 1	Output 12	1097	6	UInt16	2	R	False=0 True=1
CEM 1	Output 13	1097	7	UInt16	2	R	False=0 True=1
CEM 1	Output 14	1097	8	UInt16	2	R	False=0 True=1
CEM 1	Output 15	1097	9	UInt16	2	R	False=0 True=1
CEM 1	Output 16	1097	10	UInt16	2	R	False=0 True=1
CEM 1	Output 17	1097	11	UInt16	2	R	False=0 True=1
CEM 1	Output 18	1097	12	UInt16	2	R	False=0 True=1
CEM 1	Output 19	1097	13	UInt16	2	R	False=0 True=1
CEM 1	Output 20	1097	14	UInt16	2	R	False=0 True=1
CEM 1	Output 21	1097	15	UInt16	2	R	False=0 True=1
CEM 1	Output 22	1098	0	UInt16	2	R	False=0 True=1
CEM 1	Output 23	1098	1	UInt16	2	R	False=0 True=1
CEM 1	Output 24	1098	2	UInt16	2	R	False=0 True=1
CEM 1	Hardware Mismatch	1098	3	UInt16	2	R	False=0 True=1
CEM 1	Not Configured	1098	4	UInt16	2	R	False=0 True=1
CEM 2	Connected	1098	5	UInt16	2	R	False=0 True=1
CEM 2	Comms Failure	1098	6	UInt16	2	R	False=0 True=1
CEM 2	Duplicate CEM	1098	7	UInt16	2	R	False=0 True=1
CEM 2	Input 1	1098	8	UInt16	2	R	False=0 True=1
CEM 2	Input 2	1098	9	UInt16	2	R	False=0 True=1
CEM 2	Input 3	1098	10	UInt16	2	R	False=0 True=1
CEM 2	Input 4	1098	11	UInt16	2	R	False=0 True=1
CEM 2	Input 5	1098	12	UInt16	2	R	False=0 True=1
CEM 2	Input 6	1098	13	UInt16	2	R	False=0 True=1
CEM 2	Input 7	1098	14	UInt16	2	R	False=0 True=1
CEM 2	Input 8	1098	15	UInt16	2	R	False=0 True=1
CEM 2	Input 9	1099	0	UInt16	2	R	False=0 True=1
CEM 2	Input 10	1099	1	UInt16	2	R	False=0 True=1
CEM 2	Output 1	1099	2	UInt16	2	R	False=0 True=1
CEM 2	Output 2	1099	3	UInt16	2	R	False=0 True=1
CEM 2	Output 3	1099	4	UInt16	2	R	False=0 True=1
CEM 2	Output 4	1099	5	UInt16	2	R	False=0 True=1
CEM 2	Output 5	1099	6	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
CEM 2	Output 6	1099	7	UInt16	2	R	False=0 True=1
CEM 2	Output 7	1099	8	UInt16	2	R	False=0 True=1
CEM 2	Output 8	1099	9	UInt16	2	R	False=0 True=1
CEM 2	Output 9	1099	10	UInt16	2	R	False=0 True=1
CEM 2	Output 10	1099	11	UInt16	2	R	False=0 True=1
CEM 2	Output 11	1099	12	UInt16	2	R	False=0 True=1
CEM 2	Output 12	1099	13	UInt16	2	R	False=0 True=1
CEM 2	Output 13	1099	14	UInt16	2	R	False=0 True=1
CEM 2	Output 14	1099	15	UInt16	2	R	False=0 True=1
CEM 2	Output 15	1100	0	UInt16	2	R	False=0 True=1
CEM 2	Output 16	1100	1	UInt16	2	R	False=0 True=1
CEM 2	Output 17	1100	2	UInt16	2	R	False=0 True=1
CEM 2	Output 18	1100	3	UInt16	2	R	False=0 True=1
CEM 2	Output 19	1100	4	UInt16	2	R	False=0 True=1
CEM 2	Output 20	1100	5	UInt16	2	R	False=0 True=1
CEM 2	Output 21	1100	6	UInt16	2	R	False=0 True=1
CEM 2	Output 22	1100	7	UInt16	2	R	False=0 True=1
CEM 2	Output 23	1100	8	UInt16	2	R	False=0 True=1
CEM 2	Output 24	1100	9	UInt16	2	R	False=0 True=1
CEM 2	Hardware Mismatch	1100	10	UInt16	2	R	False=0 True=1
CEM 2	Not Configured	1100	11	UInt16	2	R	False=0 True=1
CEM 3	Connected	1100	12	UInt16	2	R	False=0 True=1
CEM 3	Comms Failure	1100	13	UInt16	2	R	False=0 True=1
CEM 3	Duplicate CEM	1100	14	UInt16	2	R	False=0 True=1
CEM 3	Input 1	1100	15	UInt16	2	R	False=0 True=1
CEM 3	Input 2	1101	0	UInt16	2	R	False=0 True=1
CEM 3	Input 3	1101	1	UInt16	2	R	False=0 True=1
CEM 3	Input 4	1101	2	UInt16	2	R	False=0 True=1
CEM 3	Input 5	1101	3	UInt16	2	R	False=0 True=1
CEM 3	Input 6	1101	4	UInt16	2	R	False=0 True=1
CEM 3	Input 7	1101	5	UInt16	2	R	False=0 True=1
CEM 3	Input 8	1101	6	UInt16	2	R	False=0 True=1
CEM 3	Input 9	1101	7	UInt16	2	R	False=0 True=1
CEM 3	Input 10	1101	8	UInt16	2	R	False=0 True=1
CEM 3	Output 1	1101	9	UInt16	2	R	False=0 True=1
CEM 3	Output 2	1101	10	UInt16	2	R	False=0 True=1
CEM 3	Output 3	1101	11	UInt16	2	R	False=0 True=1
CEM 3	Output 4	1101	12	UInt16	2	R	False=0 True=1
CEM 3	Output 5	1101	13	UInt16	2	R	False=0 True=1
CEM 3	Output 6	1101	14	UInt16	2	R	False=0 True=1
CEM 3	Output 7	1101	15	UInt16	2	R	False=0 True=1
CEM 3	Output 8	1102	0	UInt16	2	R	False=0 True=1
CEM 3	Output 9	1102	1	UInt16	2	R	False=0 True=1
CEM 3	Output 10	1102	2	UInt16	2	R	False=0 True=1
CEM 3	Output 11	1102	3	UInt16	2	R	False=0 True=1
CEM 3	Output 12	1102	4	UInt16	2	R	False=0 True=1
CEM 3	Output 13	1102	5	UInt16	2	R	False=0 True=1
CEM 3	Output 14	1102	6	UInt16	2	R	False=0 True=1
CEM 3	Output 15	1102	7	UInt16	2	R	False=0 True=1
CEM 3	Output 16	1102	8	UInt16	2	R	False=0 True=1
CEM 3	Output 17	1102	9	UInt16	2	R	False=0 True=1
CEM 3	Output 18	1102	10	UInt16	2	R	False=0 True=1
CEM 3	Output 19	1102	11	UInt16	2	R	False=0 True=1
CEM 3	Output 20	1102	12	UInt16	2	R	False=0 True=1
CEM 3	Output 21	1102	13	UInt16	2	R	False=0 True=1
CEM 3	Output 22	1102	14	UInt16	2	R	False=0 True=1
CEM 3	Output 23	1102	15	UInt16	2	R	False=0 True=1
CEM 3	Output 24	1103	0	UInt16	2	R	False=0 True=1
CEM 3	Hardware Mismatch	1103	1	UInt16	2	R	False=0 True=1
CEM 3	Not Configured	1103	2	UInt16	2	R	False=0 True=1
CEM 4	Connected	1103	3	UInt16	2	R	False=0 True=1
CEM 4	Comms Failure	1103	4	UInt16	2	R	False=0 True=1
CEM 4	Duplicate CEM	1103	5	UInt16	2	R	False=0 True=1
CEM 4	Input 1	1103	6	UInt16	2	R	False=0 True=1
CEM 4	Input 2	1103	7	UInt16	2	R	False=0 True=1
CEM 4	Input 3	1103	8	UInt16	2	R	False=0 True=1
CEM 4	Input 4	1103	9	UInt16	2	R	False=0 True=1
CEM 4	Input 5	1103	10	UInt16	2	R	False=0 True=1
CEM 4	Input 6	1103	11	UInt16	2	R	False=0 True=1
CEM 4	Input 7	1103	12	UInt16	2	R	False=0 True=1
CEM 4	Input 8	1103	13	UInt16	2	R	False=0 True=1
CEM 4	Input 9	1103	14	UInt16	2	R	False=0 True=1
CEM 4	Input 10	1103	15	UInt16	2	R	False=0 True=1
CEM 4	Output 1	1104	0	UInt16	2	R	False=0 True=1
CEM 4	Output 2	1104	1	UInt16	2	R	False=0 True=1
CEM 4	Output 3	1104	2	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
CEM 4	Output 4	1104	3	UInt16	2	R	False=0 True=1
CEM 4	Output 5	1104	4	UInt16	2	R	False=0 True=1
CEM 4	Output 6	1104	5	UInt16	2	R	False=0 True=1
CEM 4	Output 7	1104	6	UInt16	2	R	False=0 True=1
CEM 4	Output 8	1104	7	UInt16	2	R	False=0 True=1
CEM 4	Output 9	1104	8	UInt16	2	R	False=0 True=1
CEM 4	Output 10	1104	9	UInt16	2	R	False=0 True=1
CEM 4	Output 11	1104	10	UInt16	2	R	False=0 True=1
CEM 4	Output 12	1104	11	UInt16	2	R	False=0 True=1
CEM 4	Output 13	1104	12	UInt16	2	R	False=0 True=1
CEM 4	Output 14	1104	13	UInt16	2	R	False=0 True=1
CEM 4	Output 15	1104	14	UInt16	2	R	False=0 True=1
CEM 4	Output 16	1104	15	UInt16	2	R	False=0 True=1
CEM 4	Output 17	1105	0	UInt16	2	R	False=0 True=1
CEM 4	Output 18	1105	1	UInt16	2	R	False=0 True=1
CEM 4	Output 19	1105	2	UInt16	2	R	False=0 True=1
CEM 4	Output 20	1105	3	UInt16	2	R	False=0 True=1
CEM 4	Output 21	1105	4	UInt16	2	R	False=0 True=1
CEM 4	Output 22	1105	5	UInt16	2	R	False=0 True=1
CEM 4	Output 23	1105	6	UInt16	2	R	False=0 True=1
CEM 4	Output 24	1105	7	UInt16	2	R	False=0 True=1
CEM 4	Hardware Mismatch	1105	8	UInt16	2	R	False=0 True=1
CEM 4	Not Configured	1105	9	UInt16	2	R	False=0 True=1
Genset Controller	In Ready State	1105	10	UInt16	2	R	False=0 True=1
Genset Controller	In Cranking State	1105	11	UInt16	2	R	False=0 True=1
Genset Controller	In Resting State	1105	12	UInt16	2	R	False=0 True=1
Genset Controller	In Running State	1105	13	UInt16	2	R	False=0 True=1
Genset Controller	In Alarm State	1105	14	UInt16	2	R	False=0 True=1
Genset Controller	In Prestart State	1105	15	UInt16	2	R	False=0 True=1
Genset Controller	In Cooling State	1106	0	UInt16	2	R	False=0 True=1
Genset Controller	In Connecting State	1106	1	UInt16	2	R	False=0 True=1
Genset Controller	In Disconnect State	1106	2	UInt16	2	R	False=0 True=1
Genset Controller	In Pulsing State	1106	3	UInt16	2	R	False=0 True=1
Genset Controller	External Start Delay	1106	4	UInt16	2	R	False=0 True=1
Genset Controller	Start Delay Bypass	1106	5	UInt16	2	R	False=0 True=1
Genset Controller	Overcrank Alarm	1106	6	UInt16	2	R	False=0 True=1
Genset Controller	Off Mode Cooldown	1106	7	UInt16	2	R	False=0 True=1
Genset Controller	Cooldown and Stop Request From Logic	1106	8	UInt16	2	R	False=0 True=1
Genset Controller	Cooldown Request From Logic	1106	9	UInt16	2	R	False=0 True=1
Genset Controller	In Unloading State	1106	10	UInt16	2	R	False=0 True=1
Genset Controller	Auto Mode Status	1106	11	UInt16	2	R	False=0 True=1
Genset Controller	Off Mode Status	1106	12	UInt16	2	R	False=0 True=1
Genset Controller	Run Mode Status	1106	13	UInt16	2	R	False=0 True=1
Genset Controller	Paralleled to Mains	1106	14	UInt16	2	R	False=0 True=1
Genset Controller	Emergency Stop Button	1106	15	UInt16	2	R	False=0 True=1
Genset Controller	Cooldown Timer Active	1107	0	UInt16	2	R	False=0 True=1
Genset Controller	Idle Request Active	1107	1	UInt16	2	R	False=0 True=1
Genset Controller	Low Coolant Pre-Alarm Global	1107	2	UInt16	2	R	False=0 True=1
Genset Controller	Low Coolant Alarm Global	1107	3	UInt16	2	R	False=0 True=1
Genset Controller	Low Coolant Status Global	1107	4	UInt16	2	R	False=0 True=1
Coms Control Group	Reset Active	1107	5	UInt16	2	R	False=0 True=1
Coms Control Group	Lamp Test Active	1107	6	UInt16	2	R	False=0 True=1
Load Detection	Supplying Load	1107	7	UInt16	2	R	False=0 True=1
Run Statistics	Maintenance Due	1107	8	UInt16	2	R	False=0 True=1
Unit ID Table	ID Missing Pre-Alarm	1107	9	UInt16	2	R	False=0 True=1
Unit ID Table	ID Repeat Pre-Alarm	1107	10	UInt16	2	R	False=0 True=1
Load Share Settings	Intergenset Comms Fail	1107	11	UInt16	2	R	False=0 True=1
Auto Restart	Auto Restart Fail Alarm	1107	12	UInt16	2	R	False=0 True=1
ECU Config	Loss of ECU Comm Alarm	1107	13	UInt16	2	R	False=0 True=1
ECU Config	Loss of ECU Comm Pre-Alarm	1107	14	UInt16	2	R	False=0 True=1
ECU Config	Diagnostic Trouble Code Pre-Alarm	1107	15	UInt16	2	R	False=0 True=1
ECU Config	Shutdown	1108	0	UInt16	2	R	False=0 True=1
ECU Config	DEF Empty	1108	1	UInt16	2	R	False=0 True=1
ECU Config	DEF Engine Derate	1108	2	UInt16	2	R	False=0 True=1
ECU Config	DEF Inducement Override	1108	3	UInt16	2	R	False=0 True=1
ECU Config	DEF Low	1108	4	UInt16	2	R	False=0 True=1
ECU Config	DEF Presevere Inducement	1108	5	UInt16	2	R	False=0 True=1
ECU Config	DEF Severe Inducement	1108	6	UInt16	2	R	False=0 True=1
ECU Config	DPF Regenerate Disabled	1108	7	UInt16	2	R	False=0 True=1
ECU Config	DPF Regenerate Required	1108	8	UInt16	2	R	False=0 True=1
ECU Config	DPF Soot Level High Least Severe	1108	9	UInt16	2	R	False=0 True=1
ECU Config	DPF Soot Level High Moderately Severe	1108	10	UInt16	2	R	False=0 True=1
ECU Config	DPF Soot Level High Most Severe	1108	11	UInt16	2	R	False=0 True=1
ECU Config	Fuel Filter 1 Leak	1108	12	UInt16	2	R	False=0 True=1
ECU Config	Fuel Filter 2 Leak	1108	13	UInt16	2	R	False=0 True=1
ECU Config	High Exhaust Temp	1108	14	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
ECU Config	Low Coolant Level Alarm From DTC	1108	15	Uint16	2	R	False=0 True=1
ECU Config	MTU High Charge Air Temp Alarm	1109	0	Uint16	2	R	False=0 True=1
ECU Config	MTU High Oil Temp Alarm	1109	1	Uint16	2	R	False=0 True=1
ECU Config	MTU High Coolant Temp Alarm	1109	2	Uint16	2	R	False=0 True=1
ECU Config	MTU Low Aftercooler Cool LVL Alarm	1109	3	Uint16	2	R	False=0 True=1
ECU Config	MTU Low Fuel Delivery Pressure Alarm	1109	4	Uint16	2	R	False=0 True=1
ECU Config	MTU Low Oil Pressure Alarm	1109	5	Uint16	2	R	False=0 True=1
ECU Config	MTU Overspeed Alarm	1109	6	Uint16	2	R	False=0 True=1
ECU Config	MTU Combined Red Alarm Status From ECU	1109	7	Uint16	2	R	False=0 True=1
ECU Config	MTU High ECU Temp Pre-Alarm	1109	8	Uint16	2	R	False=0 True=1
ECU Config	MTU High Oil Temp Pre-Alarm	1109	9	Uint16	2	R	False=0 True=1
ECU Config	MTU High Intercooler Temp Pre-Alarm	1109	10	Uint16	2	R	False=0 True=1
ECU Config	MTU High Charge Air Temp Pre-Alarm	1109	11	Uint16	2	R	False=0 True=1
ECU Config	MTU High Coolant Temp Pre-Alarm	1109	12	Uint16	2	R	False=0 True=1
ECU Config	MTU Shutdown Override Pre-Alarm	1109	13	Uint16	2	R	False=0 True=1
ECU Config	MTU High Fuel Rail Pressure Pre-Alarm	1109	14	Uint16	2	R	False=0 True=1
ECU Config	MTU Low Fuel Rail Pressure Pre-Alarm	1109	15	Uint16	2	R	False=0 True=1
ECU Config	MTU Low Coolant Level Pre-Alarm	1110	0	Uint16	2	R	False=0 True=1
ECU Config	MTU Low Charge Air Pressure Pre-Alarm	1110	1	Uint16	2	R	False=0 True=1
ECU Config	MTU Low Fuel Delivery Pressure Pre-Alarm	1110	2	Uint16	2	R	False=0 True=1
ECU Config	MTU Low Oil Pressure Pre-Alarm	1110	3	Uint16	2	R	False=0 True=1
ECU Config	MTU Combined Yellow Pre-Alarm	1110	4	Uint16	2	R	False=0 True=1
ECU Config	MTU Hi Fuel Filter Diff Pressure Pre-Alarm	1110	5	Uint16	2	R	False=0 True=1
ECU Config	MTU Test Overspeed Active Pre-Alarm	1110	6	Uint16	2	R	False=0 True=1
ECU Config	CAN Mode Feedback Status	1110	7	Uint16	2	R	False=0 True=1
ECU Config	Cylinder Cutout Status	1110	8	Uint16	2	R	False=0 True=1
ECU Config	ECU Faulty Pre-Alarm	1110	9	Uint16	2	R	False=0 True=1
ECU Config	ECU Override Feedback Status	1110	10	Uint16	2	R	False=0 True=1
ECU Config	Engine Running Status Bit	1110	11	Uint16	2	R	False=0 True=1
ECU Config	Engine Speed Too Low Pre-Alarm	1110	12	Uint16	2	R	False=0 True=1
ECU Config	External Stop Active Status	1110	13	Uint16	2	R	False=0 True=1
ECU Config	Hi Day Tank Level Pre-Alarm	1110	14	Uint16	2	R	False=0 True=1
ECU Config	High ECU Supply Voltage Alarm	1110	15	Uint16	2	R	False=0 True=1
ECU Config	High Exhaust Temp A Pre-Alarm	1111	0	Uint16	2	R	False=0 True=1
ECU Config	High Exhaust Temp B Pre-Alarm	1111	1	Uint16	2	R	False=0 True=1
ECU Config	High Fuel Temp Pre-Alarm	1111	2	Uint16	2	R	False=0 True=1
ECU Config	High Storage Tank Level Pre-Alarm	1111	3	Uint16	2	R	False=0 True=1
ECU Config	High Voltage Supply Pre-Alarm	1111	4	Uint16	2	R	False=0 True=1
ECU Config	Hi Pressure IN 1 Pre-Alarm	1111	5	Uint16	2	R	False=0 True=1
ECU Config	Hi Pressure IN 2 Pre-Alarm	1111	6	Uint16	2	R	False=0 True=1
ECU Config	Hi T Ambient Pre-Alarm	1111	7	Uint16	2	R	False=0 True=1
ECU Config	Hi TCOIL 1 Pre-Alarm	1111	8	Uint16	2	R	False=0 True=1
ECU Config	Hi TCOIL 2 Pre-Alarm	1111	9	Uint16	2	R	False=0 True=1
ECU Config	Hi TCOIL 3 Pre-Alarm	1111	10	Uint16	2	R	False=0 True=1
ECU Config	Idle Speed Low Pre-Alarm	1111	11	Uint16	2	R	False=0 True=1
ECU Config	Load Gen On Status	1111	12	Uint16	2	R	False=0 True=1
ECU Config	Low Charge Air Coolant Level Pre-Alarm	1111	13	Uint16	2	R	False=0 True=1
ECU Config	Low Day Tank Level Pre-Alarm	1111	14	Uint16	2	R	False=0 True=1
ECU Config	Low ECU Supply Voltage Pre-Alarm	1111	15	Uint16	2	R	False=0 True=1
ECU Config	Low Storage Tank Level Pre-Alarm	1112	0	Uint16	2	R	False=0 True=1
ECU Config	Low Voltage Supply Pre-Alarm	1112	1	Uint16	2	R	False=0 True=1
ECU Config	Preheat Temp Not Reached Status	1112	2	Uint16	2	R	False=0 True=1
ECU Config	Priming Fault Pre-Alarm	1112	3	Uint16	2	R	False=0 True=1
ECU Config	Priming Pump On Status	1112	4	Uint16	2	R	False=0 True=1
ECU Config	Run-up Speed Low Pre-Alarm	1112	5	Uint16	2	R	False=0 True=1
ECU Config	Speed DEC Feedback Status	1112	6	Uint16	2	R	False=0 True=1
ECU Config	Speed Demand Fail Mode Status	1112	7	Uint16	2	R	False=0 True=1
ECU Config	Speed Demand Fail Pre-Alarm	1112	8	Uint16	2	R	False=0 True=1
ECU Config	Speed INC Feedback Status	1112	9	Uint16	2	R	False=0 True=1
ECU Config	Start Speed Low Pre-Alarm	1112	10	Uint16	2	R	False=0 True=1
ECU Config	T Alternator Wiring Pre-Alarm	1112	11	Uint16	2	R	False=0 True=1
Settings Group	Use SG0	1112	12	Uint16	2	R	False=0 True=1
Settings Group	Use SG1	1112	13	Uint16	2	R	False=0 True=1
Settings Group	Use SG2	1112	14	Uint16	2	R	False=0 True=1
Settings Group	Use SG3	1112	15	Uint16	2	R	False=0 True=1
Sync	Active	1113	0	Uint16	2	R	False=0 True=1
Sync	Breaker Close OK	1113	1	Uint16	2	R	False=0 True=1
Sync	Volt OK	1113	2	Uint16	2	R	False=0 True=1
Sync	Freq OK	1113	3	Uint16	2	R	False=0 True=1
Sync	Phase OK	1113	4	Uint16	2	R	False=0 True=1
Sync	Sync OK	1113	5	Uint16	2	R	False=0 True=1
Generator Breaker	Breaker Status	1113	6	Uint16	2	R	False=0 True=1
Generator Breaker	Sync Fail	1113	7	Uint16	2	R	False=0 True=1
Generator Breaker	Fail to Close	1113	8	Uint16	2	R	False=0 True=1
Generator Breaker	Fail to Open	1113	9	Uint16	2	R	False=0 True=1
Mains Breaker	Breaker Status	1113	10	Uint16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
Mains Breaker	Sync Fail	1113	11	UInt16	2	R	False=0 True=1
Mains Breaker	Fail to Close	1113	12	UInt16	2	R	False=0 True=1
Mains Breaker	Fail to Open	1113	13	UInt16	2	R	False=0 True=1
Breaker Local Request Generation	Mains Fail Transfer Inhibit From PLC	1113	14	UInt16	2	R	False=0 True=1
Breaker Local Request Generation	Closed Transition Override From PLC	1113	15	UInt16	2	R	False=0 True=1
Breaker Local Request Generation	Mains Fail Test Active	1114	0	UInt16	2	R	False=0 True=1
Breaker Local Request Generation	Auto Breaker OP Inhibit	1114	1	UInt16	2	R	False=0 True=1
Breaker Local Request Generation	Mains Fail Transfer Enabled	1114	2	UInt16	2	R	False=0 True=1
Breaker Local Request Generation	Mains Fail Transfer Fail	1114	3	UInt16	2	R	False=0 True=1
Breaker Local Request Generation	Mains Fail Transfer Complete	1114	4	UInt16	2	R	False=0 True=1
Breaker Local Request Generation	Mains Zero Power Flow	1114	5	UInt16	2	R	False=0 True=1
Genset Controller	Gen Reverse Rotation	1114	6	UInt16	2	R	False=0 True=1
Genset Controller	Bus 1 ReverseRotation	1114	7	UInt16	2	R	False=0 True=1
Genset Controller	Bus 2 ReverseRotation	1114	8	UInt16	2	R	False=0 True=1
Bias Control	Take Over Load Active	1114	9	UInt16	2	R	False=0 True=1
Bias Control	var Mode Active	1114	10	UInt16	2	R	False=0 True=1
Bias Control	PF Mode Active	1114	11	UInt16	2	R	False=0 True=1
Gen Condition	Dead	1114	12	UInt16	2	R	False=0 True=1
Gen Condition	Failed	1114	13	UInt16	2	R	False=0 True=1
Gen Condition	Stable	1114	14	UInt16	2	R	False=0 True=1
Bus 1 Condition	Dead	1114	15	UInt16	2	R	False=0 True=1
Bus 1 Condition	Failed	1115	0	UInt16	2	R	False=0 True=1
Bus 1 Condition	Stable	1115	1	UInt16	2	R	False=0 True=1
Bus 2 Condition	Dead	1115	2	UInt16	2	R	False=0 True=1
Bus 2 Condition	Failed	1115	3	UInt16	2	R	False=0 True=1
Bus 2 Condition	Stable	1115	4	UInt16	2	R	False=0 True=1
Coolant Temp Sender Fail	Alarm	1115	5	UInt16	2	R	False=0 True=1
Coolant Temp Sender Fail	Pre-Alarm	1115	6	UInt16	2	R	False=0 True=1
Oil Pressure Sender Fail	Alarm	1115	7	UInt16	2	R	False=0 True=1
Oil Pressure Sender Fail	Pre-Alarm	1115	8	UInt16	2	R	False=0 True=1
Fuel Level Sender Fail	Alarm	1115	9	UInt16	2	R	False=0 True=1
Fuel Level Sender Fail	Pre-Alarm	1115	10	UInt16	2	R	False=0 True=1
Voltage Sensing Sender Fail	Alarm	1115	11	UInt16	2	R	False=0 True=1
Voltage Sensing Sender Fail	Pre-Alarm	1115	12	UInt16	2	R	False=0 True=1
Auto Transfer Switch	Status	1115	13	UInt16	2	R	False=0 True=1
Auto Transfer Switch	Alarm	1115	14	UInt16	2	R	False=0 True=1
Auto Transfer Switch	Pre-Alarm	1115	15	UInt16	2	R	False=0 True=1
Grounded Delta Override	Status	1116	0	UInt16	2	R	False=0 True=1
Grounded Delta Override	Alarm	1116	1	UInt16	2	R	False=0 True=1
Grounded Delta Override	Pre-Alarm	1116	2	UInt16	2	R	False=0 True=1
Battle Override	Status	1116	3	UInt16	2	R	False=0 True=1
Battle Override	Alarm	1116	4	UInt16	2	R	False=0 True=1
Battle Override	Pre-Alarm	1116	5	UInt16	2	R	False=0 True=1
Low-Line Override	Status	1116	6	UInt16	2	R	False=0 True=1
Low-Line Override	Alarm	1116	7	UInt16	2	R	False=0 True=1
Low-Line Override	Pre-Alarm	1116	8	UInt16	2	R	False=0 True=1
Single-Phase AC Override	Status	1116	9	UInt16	2	R	False=0 True=1
Single-Phase AC Override	Alarm	1116	10	UInt16	2	R	False=0 True=1
Single-Phase AC Override	Pre-Alarm	1116	11	UInt16	2	R	False=0 True=1
Battery Charger Fail	Status	1116	12	UInt16	2	R	False=0 True=1
Battery Charger Fail	Alarm	1116	13	UInt16	2	R	False=0 True=1
Battery Charger Fail	Pre-Alarm	1116	14	UInt16	2	R	False=0 True=1
Low Coolant Level	Status	1116	15	UInt16	2	R	False=0 True=1
Fuel Leak Detect	Status	1117	0	UInt16	2	R	False=0 True=1
Fuel Leak Detect	Alarm	1117	1	UInt16	2	R	False=0 True=1
Fuel Leak Detect	Pre-Alarm	1117	2	UInt16	2	R	False=0 True=1
Emergency Stop	Status	1117	3	UInt16	2	R	False=0 True=1
Emergency Stop	Alarm	1117	4	UInt16	2	R	False=0 True=1
Emergency Stop	Pre-Alarm	1117	5	UInt16	2	R	False=0 True=1
Single-Phase Override	Status	1117	6	UInt16	2	R	False=0 True=1
Configurable Element 1	Output	1117	7	UInt16	2	R	False=0 True=1
Configurable Element 1	Alarm	1117	8	UInt16	2	R	False=0 True=1
Configurable Element 1	Pre-Alarm	1117	9	UInt16	2	R	False=0 True=1
Configurable Element 2	Output	1117	10	UInt16	2	R	False=0 True=1
Configurable Element 2	Alarm	1117	11	UInt16	2	R	False=0 True=1
Configurable Element 2	Pre-Alarm	1117	12	UInt16	2	R	False=0 True=1
Configurable Element 3	Output	1117	13	UInt16	2	R	False=0 True=1
Configurable Element 3	Alarm	1117	14	UInt16	2	R	False=0 True=1
Configurable Element 3	Pre-Alarm	1117	15	UInt16	2	R	False=0 True=1
Configurable Element 4	Output	1118	0	UInt16	2	R	False=0 True=1
Configurable Element 4	Alarm	1118	1	UInt16	2	R	False=0 True=1
Configurable Element 4	Pre-Alarm	1118	2	UInt16	2	R	False=0 True=1
Configurable Element 5	Output	1118	3	UInt16	2	R	False=0 True=1
Configurable Element 5	Alarm	1118	4	UInt16	2	R	False=0 True=1
Configurable Element 5	Pre-Alarm	1118	5	UInt16	2	R	False=0 True=1
Configurable Element 6	Output	1118	6	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
Configurable Element 6	Alarm	1118	7	UInt16	2	R	False=0 True=1
Configurable Element 6	Pre-Alarm	1118	8	UInt16	2	R	False=0 True=1
Configurable Element 7	Output	1118	9	UInt16	2	R	False=0 True=1
Configurable Element 7	Alarm	1118	10	UInt16	2	R	False=0 True=1
Configurable Element 7	Pre-Alarm	1118	11	UInt16	2	R	False=0 True=1
Configurable Element 8	Output	1118	12	UInt16	2	R	False=0 True=1
Configurable Element 8	Alarm	1118	13	UInt16	2	R	False=0 True=1
Configurable Element 8	Pre-Alarm	1118	14	UInt16	2	R	False=0 True=1
Contact Input 1	Alarm	1118	15	UInt16	2	R	False=0 True=1
Contact Input 1	Pre-Alarm	1119	0	UInt16	2	R	False=0 True=1
Contact Input 1	State	1119	1	UInt16	2	R	False=0 True=1
Contact Input 2	Alarm	1119	2	UInt16	2	R	False=0 True=1
Contact Input 2	Pre-Alarm	1119	3	UInt16	2	R	False=0 True=1
Contact Input 2	State	1119	4	UInt16	2	R	False=0 True=1
Contact Input 3	Alarm	1119	5	UInt16	2	R	False=0 True=1
Contact Input 3	Pre-Alarm	1119	6	UInt16	2	R	False=0 True=1
Contact Input 3	State	1119	7	UInt16	2	R	False=0 True=1
Contact Input 4	Alarm	1119	8	UInt16	2	R	False=0 True=1
Contact Input 4	Pre-Alarm	1119	9	UInt16	2	R	False=0 True=1
Contact Input 4	State	1119	10	UInt16	2	R	False=0 True=1
Contact Input 5	Alarm	1119	11	UInt16	2	R	False=0 True=1
Contact Input 5	Pre-Alarm	1119	12	UInt16	2	R	False=0 True=1
Contact Input 5	State	1119	13	UInt16	2	R	False=0 True=1
Contact Input 6	Alarm	1119	14	UInt16	2	R	False=0 True=1
Contact Input 6	Pre-Alarm	1119	15	UInt16	2	R	False=0 True=1
Contact Input 6	State	1120	0	UInt16	2	R	False=0 True=1
Contact Input 7	Alarm	1120	1	UInt16	2	R	False=0 True=1
Contact Input 7	Pre-Alarm	1120	2	UInt16	2	R	False=0 True=1
Contact Input 7	State	1120	3	UInt16	2	R	False=0 True=1
Contact Input 8	Alarm	1120	4	UInt16	2	R	False=0 True=1
Contact Input 8	Pre-Alarm	1120	5	UInt16	2	R	False=0 True=1
Contact Input 8	State	1120	6	UInt16	2	R	False=0 True=1
Contact Input 9	Alarm	1120	7	UInt16	2	R	False=0 True=1
Contact Input 9	Pre-Alarm	1120	8	UInt16	2	R	False=0 True=1
Contact Input 9	State	1120	9	UInt16	2	R	False=0 True=1
Contact Input 10	Alarm	1120	10	UInt16	2	R	False=0 True=1
Contact Input 10	Pre-Alarm	1120	11	UInt16	2	R	False=0 True=1
Contact Input 10	State	1120	12	UInt16	2	R	False=0 True=1
Contact Input 11	Alarm	1120	13	UInt16	2	R	False=0 True=1
Contact Input 11	Pre-Alarm	1120	14	UInt16	2	R	False=0 True=1
Contact Input 11	State	1120	15	UInt16	2	R	False=0 True=1
Contact Input 12	Alarm	1121	0	UInt16	2	R	False=0 True=1
Contact Input 12	Pre-Alarm	1121	1	UInt16	2	R	False=0 True=1
Contact Input 12	State	1121	2	UInt16	2	R	False=0 True=1
Contact Input 13	Alarm	1121	3	UInt16	2	R	False=0 True=1
Contact Input 13	Pre-Alarm	1121	4	UInt16	2	R	False=0 True=1
Contact Input 13	State	1121	5	UInt16	2	R	False=0 True=1
Contact Input 14	Alarm	1121	6	UInt16	2	R	False=0 True=1
Contact Input 14	Pre-Alarm	1121	7	UInt16	2	R	False=0 True=1
Contact Input 14	State	1121	8	UInt16	2	R	False=0 True=1
Contact Input 15	Alarm	1121	9	UInt16	2	R	False=0 True=1
Contact Input 15	Pre-Alarm	1121	10	UInt16	2	R	False=0 True=1
Contact Input 15	State	1121	11	UInt16	2	R	False=0 True=1
Contact Input 16	Alarm	1121	12	UInt16	2	R	False=0 True=1
Contact Input 16	Pre-Alarm	1121	13	UInt16	2	R	False=0 True=1
Contact Input 16	State	1121	14	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 1	Alarm	1121	15	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 1	Pre-Alarm	1122	0	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 1	State	1122	1	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 2	Alarm	1122	2	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 2	Pre-Alarm	1122	3	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 2	State	1122	4	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 3	Alarm	1122	5	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 3	Pre-Alarm	1122	6	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 3	State	1122	7	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 4	Alarm	1122	8	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 4	Pre-Alarm	1122	9	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 4	State	1122	10	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 5	Alarm	1122	11	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 5	Pre-Alarm	1122	12	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 5	State	1122	13	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 6	Alarm	1122	14	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 6	Pre-Alarm	1122	15	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 6	State	1123	0	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 7	Alarm	1123	1	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 7	Pre-Alarm	1123	2	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
CEM 1 Contact Input 7	State	1123	3	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 8	Alarm	1123	4	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 8	Pre-Alarm	1123	5	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 8	State	1123	6	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 9	Alarm	1123	7	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 9	Pre-Alarm	1123	8	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 9	State	1123	9	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 10	Alarm	1123	10	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 10	Pre-Alarm	1123	11	UInt16	2	R	False=0 True=1
CEM 1 Contact Input 10	State	1123	12	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 1	Alarm	1123	13	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 1	Pre-Alarm	1123	14	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 1	State	1123	15	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 2	Alarm	1124	0	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 2	Pre-Alarm	1124	1	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 2	State	1124	2	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 3	Alarm	1124	3	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 3	Pre-Alarm	1124	4	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 3	State	1124	5	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 4	Alarm	1124	6	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 4	Pre-Alarm	1124	7	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 4	State	1124	8	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 5	Alarm	1124	9	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 5	Pre-Alarm	1124	10	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 5	State	1124	11	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 6	Alarm	1124	12	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 6	Pre-Alarm	1124	13	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 6	State	1124	14	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 7	Alarm	1124	15	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 7	Pre-Alarm	1125	0	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 7	State	1125	1	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 8	Alarm	1125	2	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 8	Pre-Alarm	1125	3	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 8	State	1125	4	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 9	Alarm	1125	5	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 9	Pre-Alarm	1125	6	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 9	State	1125	7	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 10	Alarm	1125	8	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 10	Pre-Alarm	1125	9	UInt16	2	R	False=0 True=1
CEM 2 Contact Input 10	State	1125	10	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 1	Alarm	1125	11	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 1	Pre-Alarm	1125	12	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 1	State	1125	13	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 2	Alarm	1125	14	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 2	Pre-Alarm	1125	15	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 2	State	1126	0	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 3	Alarm	1126	1	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 3	Pre-Alarm	1126	2	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 3	State	1126	3	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 4	Alarm	1126	4	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 4	Pre-Alarm	1126	5	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 4	State	1126	6	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 5	Alarm	1126	7	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 5	Pre-Alarm	1126	8	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 5	State	1126	9	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 6	Alarm	1126	10	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 6	Pre-Alarm	1126	11	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 6	State	1126	12	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 7	Alarm	1126	13	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 7	Pre-Alarm	1126	14	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 7	State	1126	15	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 8	Alarm	1127	0	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 8	Pre-Alarm	1127	1	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 8	State	1127	2	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 9	Alarm	1127	3	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 9	Pre-Alarm	1127	4	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 9	State	1127	5	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 10	Alarm	1127	6	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 10	Pre-Alarm	1127	7	UInt16	2	R	False=0 True=1
CEM 3 Contact Input 10	State	1127	8	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 1	Alarm	1127	9	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 1	Pre-Alarm	1127	10	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 1	State	1127	11	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 2	Alarm	1127	12	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 2	Pre-Alarm	1127	13	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 2	State	1127	14	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
CEM 4 Contact Input 3	Alarm	1127	15	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 3	Pre-Alarm	1128	0	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 3	State	1128	1	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 4	Alarm	1128	2	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 4	Pre-Alarm	1128	3	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 4	State	1128	4	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 5	Alarm	1128	5	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 5	Pre-Alarm	1128	6	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 5	State	1128	7	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 6	Alarm	1128	8	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 6	Pre-Alarm	1128	9	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 6	State	1128	10	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 7	Alarm	1128	11	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 7	Pre-Alarm	1128	12	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 7	State	1128	13	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 8	Alarm	1128	14	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 8	Pre-Alarm	1128	15	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 8	State	1129	0	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 9	Alarm	1129	1	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 9	Pre-Alarm	1129	2	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 9	State	1129	3	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 10	Alarm	1129	4	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 10	Pre-Alarm	1129	5	UInt16	2	R	False=0 True=1
CEM 4 Contact Input 10	State	1129	6	UInt16	2	R	False=0 True=1
LCR Outputs	Output 1	1129	7	UInt16	2	R	False=0 True=1
LCR Outputs	Output 2	1129	8	UInt16	2	R	False=0 True=1
LCR Outputs	Output 3	1129	9	UInt16	2	R	False=0 True=1
LCR Outputs	Output 4	1129	10	UInt16	2	R	False=0 True=1
LCR Outputs	Output 5	1129	11	UInt16	2	R	False=0 True=1
LCR Outputs	Output 6	1129	12	UInt16	2	R	False=0 True=1
LCR Outputs	Output 7	1129	13	UInt16	2	R	False=0 True=1
LCR Outputs	Output 8	1129	14	UInt16	2	R	False=0 True=1
LCR Outputs	Output 9	1129	15	UInt16	2	R	False=0 True=1
LCR Outputs	Output 10	1130	0	UInt16	2	R	False=0 True=1
LCR Outputs	Output 11	1130	1	UInt16	2	R	False=0 True=1
LCR Outputs	Output 12	1130	2	UInt16	2	R	False=0 True=1
LCR Outputs	Output 13	1130	3	UInt16	2	R	False=0 True=1
LCR Outputs	Output 14	1130	4	UInt16	2	R	False=0 True=1
LCR Outputs	Output 15	1130	5	UInt16	2	R	False=0 True=1
LCR Outputs	Output 16	1130	6	UInt16	2	R	False=0 True=1
Analog Input 1 Configuration	Analog Input Out-of-Range	1130	7	UInt16	2	R	False=0 True=1
Analog Input 1 Configuration	Analog Input Out-of-Range Pre-Alarm	1130	8	UInt16	2	R	False=0 True=1
Analog Input 1 Configuration	Analog Input Out-of-Range Alarm	1130	9	UInt16	2	R	False=0 True=1
Analog Input 1 Protection	Threshold 1 Trip	1130	10	UInt16	2	R	False=0 True=1
Analog Input 1 Protection	Threshold 1 Pre-Alarm	1130	11	UInt16	2	R	False=0 True=1
Analog Input 1 Protection	Threshold 1 Alarm	1130	12	UInt16	2	R	False=0 True=1
Analog Input 1 Protection	Threshold 2 Trip	1130	13	UInt16	2	R	False=0 True=1
Analog Input 1 Protection	Threshold 2 Pre-Alarm	1130	14	UInt16	2	R	False=0 True=1
Analog Input 1 Protection	Threshold 2 Alarm	1130	15	UInt16	2	R	False=0 True=1
Analog Input 1 Protection	Threshold 3 Trip	1131	0	UInt16	2	R	False=0 True=1
Analog Input 1 Protection	Threshold 3 Pre-Alarm	1131	1	UInt16	2	R	False=0 True=1
Analog Input 1 Protection	Threshold 3 Alarm	1131	2	UInt16	2	R	False=0 True=1
Analog Input 1 Protection	Threshold 4 Trip	1131	3	UInt16	2	R	False=0 True=1
Analog Input 1 Protection	Threshold 4 Pre-Alarm	1131	4	UInt16	2	R	False=0 True=1
Analog Input 1 Protection	Threshold 4 Alarm	1131	5	UInt16	2	R	False=0 True=1
Analog Input 2 Configuration	Analog Input Out-of-Range	1131	6	UInt16	2	R	False=0 True=1
Analog Input 2 Configuration	Analog Input Out-of-Range Pre-Alarm	1131	7	UInt16	2	R	False=0 True=1
Analog Input 2 Configuration	Analog Input Out-of-Range Alarm	1131	8	UInt16	2	R	False=0 True=1
Analog Input 2 Protection	Threshold 1 Trip	1131	9	UInt16	2	R	False=0 True=1
Analog Input 2 Protection	Threshold 1 Pre-Alarm	1131	10	UInt16	2	R	False=0 True=1
Analog Input 2 Protection	Threshold 1 Alarm	1131	11	UInt16	2	R	False=0 True=1
Analog Input 2 Protection	Threshold 2 Trip	1131	12	UInt16	2	R	False=0 True=1
Analog Input 2 Protection	Threshold 2 Pre-Alarm	1131	13	UInt16	2	R	False=0 True=1
Analog Input 2 Protection	Threshold 2 Alarm	1131	14	UInt16	2	R	False=0 True=1
Analog Input 2 Protection	Threshold 3 Trip	1131	15	UInt16	2	R	False=0 True=1
Analog Input 2 Protection	Threshold 3 Pre-Alarm	1132	0	UInt16	2	R	False=0 True=1
Analog Input 2 Protection	Threshold 3 Alarm	1132	1	UInt16	2	R	False=0 True=1
Analog Input 2 Protection	Threshold 4 Trip	1132	2	UInt16	2	R	False=0 True=1
Analog Input 2 Protection	Threshold 4 Pre-Alarm	1132	3	UInt16	2	R	False=0 True=1
Analog Input 2 Protection	Threshold 4 Alarm	1132	4	UInt16	2	R	False=0 True=1
Analog Input 3 Configuration	Analog Input Out-of-Range	1132	5	UInt16	2	R	False=0 True=1
Analog Input 3 Configuration	Analog Input Out-of-Range Pre-Alarm	1132	6	UInt16	2	R	False=0 True=1
Analog Input 3 Configuration	Analog Input Out-of-Range Alarm	1132	7	UInt16	2	R	False=0 True=1
Analog Input 3 Protection	Threshold 1 Trip	1132	8	UInt16	2	R	False=0 True=1
Analog Input 3 Protection	Threshold 1 Pre-Alarm	1132	9	UInt16	2	R	False=0 True=1
Analog Input 3 Protection	Threshold 1 Alarm	1132	10	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
Analog Input 3 Protection	Threshold 2 Trip	1132	11	UInt16	2	R	False=0 True=1
Analog Input 3 Protection	Threshold 2 Pre-Alarm	1132	12	UInt16	2	R	False=0 True=1
Analog Input 3 Protection	Threshold 2 Alarm	1132	13	UInt16	2	R	False=0 True=1
Analog Input 3 Protection	Threshold 3 Trip	1132	14	UInt16	2	R	False=0 True=1
Analog Input 3 Protection	Threshold 3 Pre-Alarm	1132	15	UInt16	2	R	False=0 True=1
Analog Input 3 Protection	Threshold 3 Alarm	1133	0	UInt16	2	R	False=0 True=1
Analog Input 3 Protection	Threshold 4 Trip	1133	1	UInt16	2	R	False=0 True=1
Analog Input 3 Protection	Threshold 4 Pre-Alarm	1133	2	UInt16	2	R	False=0 True=1
Analog Input 3 Protection	Threshold 4 Alarm	1133	3	UInt16	2	R	False=0 True=1
Analog Input 4 Configuration	Analog Input Out-of-Range	1133	4	UInt16	2	R	False=0 True=1
Analog Input 4 Configuration	Analog Input Out-of-Range Pre-Alarm	1133	5	UInt16	2	R	False=0 True=1
Analog Input 4 Configuration	Analog Input Out-of-Range Alarm	1133	6	UInt16	2	R	False=0 True=1
Analog Input 4 Protection	Threshold 1 Trip	1133	7	UInt16	2	R	False=0 True=1
Analog Input 4 Protection	Threshold 1 Pre-Alarm	1133	8	UInt16	2	R	False=0 True=1
Analog Input 4 Protection	Threshold 1 Alarm	1133	9	UInt16	2	R	False=0 True=1
Analog Input 4 Protection	Threshold 2 Trip	1133	10	UInt16	2	R	False=0 True=1
Analog Input 4 Protection	Threshold 2 Pre-Alarm	1133	11	UInt16	2	R	False=0 True=1
Analog Input 4 Protection	Threshold 2 Alarm	1133	12	UInt16	2	R	False=0 True=1
Analog Input 4 Protection	Threshold 3 Trip	1133	13	UInt16	2	R	False=0 True=1
Analog Input 4 Protection	Threshold 3 Pre-Alarm	1133	14	UInt16	2	R	False=0 True=1
Analog Input 4 Protection	Threshold 3 Alarm	1133	15	UInt16	2	R	False=0 True=1
Analog Input 4 Protection	Threshold 4 Trip	1134	0	UInt16	2	R	False=0 True=1
Analog Input 4 Protection	Threshold 4 Pre-Alarm	1134	1	UInt16	2	R	False=0 True=1
Analog Input 4 Protection	Threshold 4 Alarm	1134	2	UInt16	2	R	False=0 True=1
AVR Output	Out-of-Range	1134	3	UInt16	2	R	False=0 True=1
AVR Output	Out-of-Range Pre-Alarm	1134	4	UInt16	2	R	False=0 True=1
AVR Output	Out-of-Range Alarm	1134	5	UInt16	2	R	False=0 True=1
GOV Output	Out-of-Range	1134	6	UInt16	2	R	False=0 True=1
GOV Output	Out-of-Range Pre-Alarm	1134	7	UInt16	2	R	False=0 True=1
GOV Output	Out-of-Range Alarm	1134	8	UInt16	2	R	False=0 True=1
LS Output	Out-of-Range	1134	9	UInt16	2	R	False=0 True=1
LS Output	Out-of-Range Pre-Alarm	1134	10	UInt16	2	R	False=0 True=1
LS Output	Out-of-Range Alarm	1134	11	UInt16	2	R	False=0 True=1
Breaker Local Request Generation	Mains Fail Return Fail	1134	12	UInt16	2	R	False=0 True=1
Breaker Local Request Generation	Mains Fail Load Unstable	1134	13	UInt16	2	R	False=0 True=1
Genset Controller	Emergency Stop Alarm	1134	14	UInt16	2	R	False=0 True=1
87N	Block	1134	15	UInt16	2	R	False=0 True=1
87N	Pickup	1135	0	UInt16	2	R	False=0 True=1
87N	Trip	1135	1	UInt16	2	R	False=0 True=1
87N	Pre-Alarm	1135	2	UInt16	2	R	False=0 True=1
87N	Alarm	1135	3	UInt16	2	R	False=0 True=1
87G	Block	1135	4	UInt16	2	R	False=0 True=1
87G	Pickup	1135	5	UInt16	2	R	False=0 True=1
87G	Trip	1135	6	UInt16	2	R	False=0 True=1
87G	Trip A	1135	7	UInt16	2	R	False=0 True=1
87G	Trip B	1135	8	UInt16	2	R	False=0 True=1
87G	Trip C	1135	9	UInt16	2	R	False=0 True=1
87G	Unrestrained Trip	1135	10	UInt16	2	R	False=0 True=1
87G	Transient Monitor	1135	11	UInt16	2	R	False=0 True=1
87G	Unrestrained Trip A	1135	12	UInt16	2	R	False=0 True=1
87G	Unrestrained Trip B	1135	13	UInt16	2	R	False=0 True=1
87G	Unrestrained Trip C	1135	14	UInt16	2	R	False=0 True=1
87G	Alert A	1135	15	UInt16	2	R	False=0 True=1
87G	Alert B	1136	0	UInt16	2	R	False=0 True=1
87G	Alert C	1136	1	UInt16	2	R	False=0 True=1
87G	87 Alert	1136	2	UInt16	2	R	False=0 True=1
87G	2 nd Harmonic Inhibit	1136	3	UInt16	2	R	False=0 True=1
87G	5 th Harmonic Inhibit	1136	4	UInt16	2	R	False=0 True=1
87G	Pre-Alarm	1136	5	UInt16	2	R	False=0 True=1
87G	Alarm	1136	6	UInt16	2	R	False=0 True=1
46-1 (1-phase)	Block	1136	7	UInt16	2	R	False=0 True=1
46-1 (1-phase)	Pickup	1136	8	UInt16	2	R	False=0 True=1
46-1 (1-phase)	Trip 1 Phase	1136	9	UInt16	2	R	False=0 True=1
46-1 (1-phase)	Pre-Alarm	1136	10	UInt16	2	R	False=0 True=1
46-1 (1-phase)	Alarm	1136	11	UInt16	2	R	False=0 True=1
46-2 (1-phase)	Block	1136	12	UInt16	2	R	False=0 True=1
46-2 (1-phase)	Pickup	1136	13	UInt16	2	R	False=0 True=1
46-2 (1-phase)	Trip 1 Phase	1136	14	UInt16	2	R	False=0 True=1
46-2 (1-phase)	Pre-Alarm	1136	15	UInt16	2	R	False=0 True=1
46-2 (1-phase)	Alarm	1137	0	UInt16	2	R	False=0 True=1
46-3 (1-phase)	Block	1137	1	UInt16	2	R	False=0 True=1
46-3 (1-phase)	Pickup	1137	2	UInt16	2	R	False=0 True=1
46-3 (1-phase)	Trip 1 Phase	1137	3	UInt16	2	R	False=0 True=1
46-3 (1-phase)	Pre-Alarm	1137	4	UInt16	2	R	False=0 True=1
46-3 (1-phase)	Alarm	1137	5	UInt16	2	R	False=0 True=1
46-4 (1-phase)	Block	1137	6	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
46-4 (1-phase)	Pickup	1137	7	UInt16	2	R	False=0 True=1
46-4 (1-phase)	Trip 1 Phase	1137	8	UInt16	2	R	False=0 True=1
46-4 (1-phase)	Pre-Alarm	1137	9	UInt16	2	R	False=0 True=1
46-4 (1-phase)	Alarm	1137	10	UInt16	2	R	False=0 True=1
46-5 (1-phase)	Block	1137	11	UInt16	2	R	False=0 True=1
46-5 (1-phase)	Pickup	1137	12	UInt16	2	R	False=0 True=1
46-5 (1-phase)	Trip 1 Phase	1137	13	UInt16	2	R	False=0 True=1
46-5 (1-phase)	Pre-Alarm	1137	14	UInt16	2	R	False=0 True=1
46-5 (1-phase)	Alarm	1137	15	UInt16	2	R	False=0 True=1
46-6 (1-phase)	Block	1138	0	UInt16	2	R	False=0 True=1
46-6 (1-phase)	Pickup	1138	1	UInt16	2	R	False=0 True=1
46-6 (1-phase)	Trip 1 Phase	1138	2	UInt16	2	R	False=0 True=1
46-6 (1-phase)	Pre-Alarm	1138	3	UInt16	2	R	False=0 True=1
46-6 (1-phase)	Alarm	1138	4	UInt16	2	R	False=0 True=1
46-1 (3-phase)	Block	1138	5	UInt16	2	R	False=0 True=1
46-1 (3-phase)	Pickup	1138	6	UInt16	2	R	False=0 True=1
46-1 (3-phase)	Trip 3 Phase	1138	7	UInt16	2	R	False=0 True=1
46-1 (3-phase)	Pre-Alarm	1138	8	UInt16	2	R	False=0 True=1
46-1 (3-phase)	Alarm	1138	9	UInt16	2	R	False=0 True=1
46-2 (3-phase)	Block	1138	10	UInt16	2	R	False=0 True=1
46-2 (3-phase)	Pickup	1138	11	UInt16	2	R	False=0 True=1
46-2 (3-phase)	Trip 3 Phase	1138	12	UInt16	2	R	False=0 True=1
46-2 (3-phase)	Pre-Alarm	1138	13	UInt16	2	R	False=0 True=1
46-2 (3-phase)	Alarm	1138	14	UInt16	2	R	False=0 True=1
46-3 (3-phase)	Block	1138	15	UInt16	2	R	False=0 True=1
46-3 (3-phase)	Pickup	1139	0	UInt16	2	R	False=0 True=1
46-3 (3-phase)	Trip 3 Phase	1139	1	UInt16	2	R	False=0 True=1
46-3 (3-phase)	Pre-Alarm	1139	2	UInt16	2	R	False=0 True=1
46-3 (3-phase)	Alarm	1139	3	UInt16	2	R	False=0 True=1
46-4 (3-phase)	Block	1139	4	UInt16	2	R	False=0 True=1
46-4 (3-phase)	Pickup	1139	5	UInt16	2	R	False=0 True=1
46-4 (3-phase)	Trip 3 Phase	1139	6	UInt16	2	R	False=0 True=1
46-4 (3-phase)	Pre-Alarm	1139	7	UInt16	2	R	False=0 True=1
46-4 (3-phase)	Alarm	1139	8	UInt16	2	R	False=0 True=1
46-5 (3-phase)	Block	1139	9	UInt16	2	R	False=0 True=1
46-5 (3-phase)	Pickup	1139	10	UInt16	2	R	False=0 True=1
46-5 (3-phase)	Trip 3 Phase	1139	11	UInt16	2	R	False=0 True=1
46-5 (3-phase)	Pre-Alarm	1139	12	UInt16	2	R	False=0 True=1
46-5 (3-phase)	Alarm	1139	13	UInt16	2	R	False=0 True=1
46-6 (3-phase)	Block	1139	14	UInt16	2	R	False=0 True=1
46-6 (3-phase)	Pickup	1139	15	UInt16	2	R	False=0 True=1
46-6 (3-phase)	Trip 3 Phase	1140	0	UInt16	2	R	False=0 True=1
46-6 (3-phase)	Pre-Alarm	1140	1	UInt16	2	R	False=0 True=1
46-6 (3-phase)	Alarm	1140	2	UInt16	2	R	False=0 True=1
Configurable Protection 9	Configurable Protection Threshold 1 Trip	1140	3	UInt16	2	R	False=0 True=1
Configurable Protection 9	Configurable Protection Threshold 1 Pre-Alarm	1140	4	UInt16	2	R	False=0 True=1
Configurable Protection 9	Configurable Protection Threshold 1 Alarm	1140	5	UInt16	2	R	False=0 True=1
Configurable Protection 9	Configurable Protection Threshold 2 Trip	1140	6	UInt16	2	R	False=0 True=1
Configurable Protection 9	Configurable Protection Threshold 2 Pre-Alarm	1140	7	UInt16	2	R	False=0 True=1
Configurable Protection 9	Configurable Protection Threshold 2 Alarm	1140	8	UInt16	2	R	False=0 True=1
Configurable Protection 9	Configurable Protection Threshold 3 Trip	1140	9	UInt16	2	R	False=0 True=1
Configurable Protection 9	Configurable Protection Threshold 3 Pre-Alarm	1140	10	UInt16	2	R	False=0 True=1
Configurable Protection 9	Configurable Protection Threshold 3 Alarm	1140	11	UInt16	2	R	False=0 True=1
Configurable Protection 9	Configurable Protection Threshold 4 Trip	1140	12	UInt16	2	R	False=0 True=1
Configurable Protection 9	Configurable Protection Threshold 4 Pre-Alarm	1140	13	UInt16	2	R	False=0 True=1
Configurable Protection 9	Configurable Protection Threshold 4 Alarm	1140	14	UInt16	2	R	False=0 True=1
Configurable Protection 10	Configurable Protection Threshold 1 Trip	1140	15	UInt16	2	R	False=0 True=1
Configurable Protection 10	Configurable Protection Threshold 1 Pre-Alarm	1141	0	UInt16	2	R	False=0 True=1
Configurable Protection 10	Configurable Protection Threshold 1 Alarm	1141	1	UInt16	2	R	False=0 True=1
Configurable Protection 10	Configurable Protection Threshold 2 Trip	1141	2	UInt16	2	R	False=0 True=1
Configurable Protection 10	Configurable Protection Threshold 2 Pre-Alarm	1141	3	UInt16	2	R	False=0 True=1
Configurable Protection 10	Configurable Protection Threshold 2 Alarm	1141	4	UInt16	2	R	False=0 True=1
Configurable Protection 10	Configurable Protection Threshold 3 Trip	1141	5	UInt16	2	R	False=0 True=1
Configurable Protection 10	Configurable Protection Threshold 3 Pre-Alarm	1141	6	UInt16	2	R	False=0 True=1
Configurable Protection 10	Configurable Protection Threshold 3 Alarm	1141	7	UInt16	2	R	False=0 True=1
Configurable Protection 10	Configurable Protection Threshold 4 Trip	1141	8	UInt16	2	R	False=0 True=1
Configurable Protection 10	Configurable Protection Threshold 4 Pre-Alarm	1141	9	UInt16	2	R	False=0 True=1
Configurable Protection 10	Configurable Protection Threshold 4 Alarm	1141	10	UInt16	2	R	False=0 True=1
Configurable Protection 11	Configurable Protection Threshold 1 Trip	1141	11	UInt16	2	R	False=0 True=1
Configurable Protection 11	Configurable Protection Threshold 1 Pre-Alarm	1141	12	UInt16	2	R	False=0 True=1
Configurable Protection 11	Configurable Protection Threshold 1 Alarm	1141	13	UInt16	2	R	False=0 True=1
Configurable Protection 11	Configurable Protection Threshold 2 Trip	1141	14	UInt16	2	R	False=0 True=1
Configurable Protection 11	Configurable Protection Threshold 2 Pre-Alarm	1141	15	UInt16	2	R	False=0 True=1
Configurable Protection 11	Configurable Protection Threshold 2 Alarm	1142	0	UInt16	2	R	False=0 True=1
Configurable Protection 11	Configurable Protection Threshold 3 Trip	1142	1	UInt16	2	R	False=0 True=1
Configurable Protection 11	Configurable Protection Threshold 3 Pre-Alarm	1142	2	UInt16	2	R	False=0 True=1

DGC-2020HD Modbus® Protocol Binary Points Register Table

DGC-2020HD Modbus® Protocol

Binary Points Register Table

Name	Description	Register	Bit	Type	Bytes	R/W	Range
Configurable Protection 30	Configurable Protection Threshold 3 Alarm	1156	7	UInt16	2	R	False=0 True=1
Configurable Protection 30	Configurable Protection Threshold 4 Trip	1156	8	UInt16	2	R	False=0 True=1
Configurable Protection 30	Configurable Protection Threshold 4 Pre-Alarm	1156	9	UInt16	2	R	False=0 True=1
Configurable Protection 30	Configurable Protection Threshold 4 Alarm	1156	10	UInt16	2	R	False=0 True=1
Configurable Protection 31	Configurable Protection Threshold 1 Trip	1156	11	UInt16	2	R	False=0 True=1
Configurable Protection 31	Configurable Protection Threshold 1 Pre-Alarm	1156	12	UInt16	2	R	False=0 True=1
Configurable Protection 31	Configurable Protection Threshold 1 Alarm	1156	13	UInt16	2	R	False=0 True=1
Configurable Protection 31	Configurable Protection Threshold 2 Trip	1156	14	UInt16	2	R	False=0 True=1
Configurable Protection 31	Configurable Protection Threshold 2 Pre-Alarm	1156	15	UInt16	2	R	False=0 True=1
Configurable Protection 31	Configurable Protection Threshold 2 Alarm	1157	0	UInt16	2	R	False=0 True=1
Configurable Protection 31	Configurable Protection Threshold 3 Trip	1157	1	UInt16	2	R	False=0 True=1
Configurable Protection 31	Configurable Protection Threshold 3 Pre-Alarm	1157	2	UInt16	2	R	False=0 True=1
Configurable Protection 31	Configurable Protection Threshold 3 Alarm	1157	3	UInt16	2	R	False=0 True=1
Configurable Protection 31	Configurable Protection Threshold 4 Trip	1157	4	UInt16	2	R	False=0 True=1
Configurable Protection 31	Configurable Protection Threshold 4 Pre-Alarm	1157	5	UInt16	2	R	False=0 True=1
Configurable Protection 31	Configurable Protection Threshold 4 Alarm	1157	6	UInt16	2	R	False=0 True=1
Configurable Protection 32	Configurable Protection Threshold 1 Trip	1157	7	UInt16	2	R	False=0 True=1
Configurable Protection 32	Configurable Protection Threshold 1 Pre-Alarm	1157	8	UInt16	2	R	False=0 True=1
Configurable Protection 32	Configurable Protection Threshold 1 Alarm	1157	9	UInt16	2	R	False=0 True=1
Configurable Protection 32	Configurable Protection Threshold 2 Trip	1157	10	UInt16	2	R	False=0 True=1
Configurable Protection 32	Configurable Protection Threshold 2 Pre-Alarm	1157	11	UInt16	2	R	False=0 True=1
Configurable Protection 32	Configurable Protection Threshold 2 Alarm	1157	12	UInt16	2	R	False=0 True=1
Configurable Protection 32	Configurable Protection Threshold 3 Trip	1157	13	UInt16	2	R	False=0 True=1
Configurable Protection 32	Configurable Protection Threshold 3 Pre-Alarm	1157	14	UInt16	2	R	False=0 True=1
Configurable Protection 32	Configurable Protection Threshold 3 Alarm	1157	15	UInt16	2	R	False=0 True=1
Configurable Protection 32	Configurable Protection Threshold 4 Trip	1158	0	UInt16	2	R	False=0 True=1
Configurable Protection 32	Configurable Protection Threshold 4 Pre-Alarm	1158	1	UInt16	2	R	False=0 True=1
Configurable Protection 32	Configurable Protection Threshold 4 Alarm	1158	2	UInt16	2	R	False=0 True=1
Genset Controller	Global Soft Alarm	1158	3	UInt16	2	R	False=0 True=1
Genset Controller	Parallel to Mains Detected	1158	4	UInt16	2	R	False=0 True=1
ECU Config	DPF Lamp Command	1158	5	UInt16	2	R	False=0 True=1
ECU Config	DEF Warning	1158	6	UInt16	2	R	False=0 True=1
ECU Config	DEF Warning Level 2	1158	7	UInt16	2	R	False=0 True=1
Gen Breaker	OK to Close	1158	8	UInt16	2	R	False=0 True=1
Gen Breaker	Configured	1158	9	UInt16	2	R	False=0 True=1
Gen Breaker	Fail to Close Status	1158	10	UInt16	2	R	False=0 True=1
Gen Breaker	Fail to Open Status	1158	11	UInt16	2	R	False=0 True=1
Gen Breaker	Open Setpoint Reached	1158	12	UInt16	2	R	False=0 True=1
Mains Breaker	OK to Close	1158	13	UInt16	2	R	False=0 True=1
Mains Breaker	Configured	1158	14	UInt16	2	R	False=0 True=1
Mains Breaker	Fail to Close Status	1158	15	UInt16	2	R	False=0 True=1
Mains Breaker	Fail to Open Status	1159	0	UInt16	2	R	False=0 True=1
Mains Breaker	Open Setpoint Reached	1159	1	UInt16	2	R	False=0 True=1
Breaker Local Request Generation	Group Breaker Capacity Reached	1159	2	UInt16	2	R	False=0 True=1
Breaker Local Request Generation	Group Breaker Capacity Fail	1159	3	UInt16	2	R	False=0 True=1
Breaker Local Request Generation	Mains Fail Transfer Fail Pre-Alarm	1159	4	UInt16	2	R	False=0 True=1
Group Breaker	Breaker Status	1159	5	UInt16	2	R	False=0 True=1
Group Breaker	Sync Fail	1159	6	UInt16	2	R	False=0 True=1
Group Breaker	Fail to Close	1159	7	UInt16	2	R	False=0 True=1
Group Breaker	Fail to Open	1159	8	UInt16	2	R	False=0 True=1
Group Breaker	OK to Close	1159	9	UInt16	2	R	False=0 True=1
Group Breaker	Configured	1159	10	UInt16	2	R	False=0 True=1
Group Breaker	Fail to Close Status	1159	11	UInt16	2	R	False=0 True=1
Group Breaker	Fail to Open Status	1159	12	UInt16	2	R	False=0 True=1
Group Breaker	Open Setpoint Reached	1159	13	UInt16	2	R	False=0 True=1
Tie Breaker	Breaker Status	1159	14	UInt16	2	R	False=0 True=1
Tie Breaker	Sync Fail	1159	15	UInt16	2	R	False=0 True=1
Tie Breaker	Fail to Close	1160	0	UInt16	2	R	False=0 True=1
Tie Breaker	Fail to Open	1160	1	UInt16	2	R	False=0 True=1
Tie Breaker	OK to Close	1160	2	UInt16	2	R	False=0 True=1
Tie Breaker	Configured	1160	3	UInt16	2	R	False=0 True=1
Tie Breaker	Fail to Close Status	1160	4	UInt16	2	R	False=0 True=1
Tie Breaker	Fail to Open Status	1160	5	UInt16	2	R	False=0 True=1
Tie Breaker	Open Setpoint Reached	1160	6	UInt16	2	R	False=0 True=1
Bias Control	Mains Controller Missing Pre-Alarm	1160	7	UInt16	2	R	False=0 True=1
Generator Connection	Reverse Rotation Pre-Alarm	1160	8	UInt16	2	R	False=0 True=1
Bus 1 Connection	Reverse Rotation Pre-Alarm	1160	9	UInt16	2	R	False=0 True=1
Bus 2 Connection	Reverse Rotation Pre-Alarm	1160	10	UInt16	2	R	False=0 True=1
Breaker Table Handler	Missing System Comp	1160	11	UInt16	2	R	False=0 True=1
Breaker Table Handler	Segment Unreachable	1160	12	UInt16	2	R	False=0 True=1
Breaker Table Handler	Critical Breaker Missing	1160	13	UInt16	2	R	False=0 True=1
Breaker Table Handler	Breaker Control Granted	1160	14	UInt16	2	R	False=0 True=1
Breaker Table Handler	Breaker Control Grant Fail	1160	15	UInt16	2	R	False=0 True=1
Alarms	ARP Ping Fail	1161	0	UInt16	2	R	False=0 True=1
ECU Config	DEF Quality Poor	1161	1	UInt16	2	R	False=0 True=1
ECU Config	DEF Consumption Incorrect	1161	2	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
ECU Config	DEF Tampering	1161	3	UInt16	2	R	False=0 True=1
Tie Breaker 2	Breaker Status	1161	4	UInt16	2	R	False=0 True=1
Tie Breaker 2	Sync Fail	1161	5	UInt16	2	R	False=0 True=1
Tie Breaker 2	Fail to Close	1161	6	UInt16	2	R	False=0 True=1
Tie Breaker 2	Fail to Open	1161	7	UInt16	2	R	False=0 True=1
Tie Breaker 2	OK to Close	1161	8	UInt16	2	R	False=0 True=1
Tie Breaker 2	Configured	1161	9	UInt16	2	R	False=0 True=1
Tie Breaker 2	Fail to Close Status	1161	10	UInt16	2	R	False=0 True=1
Tie Breaker 2	Fail to Open Status	1161	11	UInt16	2	R	False=0 True=1
Tie Breaker 2	Open Setpoint Reached	1161	12	UInt16	2	R	False=0 True=1
LCR Outputs	Output 17	1161	13	UInt16	2	R	False=0 True=1
LCR Outputs	Output 18	1161	14	UInt16	2	R	False=0 True=1
LCR Outputs	Output 19	1161	15	UInt16	2	R	False=0 True=1
LCR Outputs	Output 20	1162	0	UInt16	2	R	False=0 True=1
LCR Outputs	Output 21	1162	1	UInt16	2	R	False=0 True=1
LCR Outputs	Output 22	1162	2	UInt16	2	R	False=0 True=1
LCR Outputs	Output 23	1162	3	UInt16	2	R	False=0 True=1
LCR Outputs	Output 24	1162	4	UInt16	2	R	False=0 True=1
LCR Outputs	Output 25	1162	5	UInt16	2	R	False=0 True=1
LCR Outputs	Output 26	1162	6	UInt16	2	R	False=0 True=1
LCR Outputs	Output 27	1162	7	UInt16	2	R	False=0 True=1
LCR Outputs	Output 28	1162	8	UInt16	2	R	False=0 True=1
LCR Outputs	Output 29	1162	9	UInt16	2	R	False=0 True=1
LCR Outputs	Output 30	1162	10	UInt16	2	R	False=0 True=1
LCR Outputs	Output 31	1162	11	UInt16	2	R	False=0 True=1
LCR Outputs	Output 32	1162	12	UInt16	2	R	False=0 True=1
LCR Outputs	Output 33	1162	13	UInt16	2	R	False=0 True=1
LCR Outputs	Output 34	1162	14	UInt16	2	R	False=0 True=1
LCR Outputs	Output 35	1162	15	UInt16	2	R	False=0 True=1
LCR Outputs	Output 36	1163	0	UInt16	2	R	False=0 True=1
LCR Outputs	Output 37	1163	1	UInt16	2	R	False=0 True=1
LCR Outputs	Output 38	1163	2	UInt16	2	R	False=0 True=1
LCR Outputs	Output 39	1163	3	UInt16	2	R	False=0 True=1
LCR Outputs	Output 40	1163	4	UInt16	2	R	False=0 True=1
LCR Outputs	Output 41	1163	5	UInt16	2	R	False=0 True=1
LCR Outputs	Output 42	1163	6	UInt16	2	R	False=0 True=1
LCR Outputs	Output 43	1163	7	UInt16	2	R	False=0 True=1
LCR Outputs	Output 44	1163	8	UInt16	2	R	False=0 True=1
LCR Outputs	Output 45	1163	9	UInt16	2	R	False=0 True=1
LCR Outputs	Output 46	1163	10	UInt16	2	R	False=0 True=1
LCR Outputs	Output 47	1163	11	UInt16	2	R	False=0 True=1
LCR Outputs	Output 48	1163	12	UInt16	2	R	False=0 True=1
LCR Outputs	Output 49	1163	13	UInt16	2	R	False=0 True=1
LCR Outputs	Output 50	1163	14	UInt16	2	R	False=0 True=1
LCR Outputs	Output 51	1163	15	UInt16	2	R	False=0 True=1
LCR Outputs	Output 52	1164	0	UInt16	2	R	False=0 True=1
LCR Outputs	Output 53	1164	1	UInt16	2	R	False=0 True=1
LCR Outputs	Output 54	1164	2	UInt16	2	R	False=0 True=1
LCR Outputs	Output 55	1164	3	UInt16	2	R	False=0 True=1
LCR Outputs	Output 56	1164	4	UInt16	2	R	False=0 True=1
LCR Outputs	Output 57	1164	5	UInt16	2	R	False=0 True=1
LCR Outputs	Output 58	1164	6	UInt16	2	R	False=0 True=1
LCR Outputs	Output 59	1164	7	UInt16	2	R	False=0 True=1
LCR Outputs	Output 60	1164	8	UInt16	2	R	False=0 True=1
LCR Outputs	Output 61	1164	9	UInt16	2	R	False=0 True=1
LCR Outputs	Output 62	1164	10	UInt16	2	R	False=0 True=1
LCR Outputs	Output 63	1164	11	UInt16	2	R	False=0 True=1
LCR Outputs	Output 64	1164	12	UInt16	2	R	False=0 True=1
Loss of Sensing	Block	1164	13	UInt16	2	R	False=0 True=1
Loss of Sensing	Pickup	1164	14	UInt16	2	R	False=0 True=1
Loss of Sensing	Trip	1164	15	UInt16	2	R	False=0 True=1
Loss of Sensing	Pre-alarm	1165	0	UInt16	2	R	False=0 True=1
Loss of Sensing	Alarm	1165	1	UInt16	2	R	False=0 True=1
EDM	Block	1165	2	UInt16	2	R	False=0 True=1
EDM	Pickup	1165	3	UInt16	2	R	False=0 True=1
EDM	Trip	1165	4	UInt16	2	R	False=0 True=1
EDM	Pre-alarm	1165	5	UInt16	2	R	False=0 True=1
EDM	Alarm	1165	6	UInt16	2	R	False=0 True=1
Field Overvoltage	Block	1165	7	UInt16	2	R	False=0 True=1
Field Overvoltage	Pickup	1165	8	UInt16	2	R	False=0 True=1
Field Overvoltage	Trip	1165	9	UInt16	2	R	False=0 True=1
Field Overvoltage	Pre-alarm	1165	10	UInt16	2	R	False=0 True=1
Field Overvoltage	Alarm	1165	11	UInt16	2	R	False=0 True=1
VRM	Connected	1165	12	UInt16	2	R	False=0 True=1
VRM	Comms Failure	1165	13	UInt16	2	R	False=0 True=1
VRM	RTD Input 1 Out of Range	1165	14	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
VRM	RTD Input 1 Out of Range Pre-alarm	1165	15	UInt16	2	R	False=0 True=1
VRM	RTD Input 1 Out of Range Alarm	1166	0	UInt16	2	R	False=0 True=1
VRM	RTD Input 2 Out of Range	1166	1	UInt16	2	R	False=0 True=1
VRM	RTD Input 2 Out of Range Pre-alarm	1166	2	UInt16	2	R	False=0 True=1
VRM	RTD Input 2 Out of Range Alarm	1166	3	UInt16	2	R	False=0 True=1
VRM	RTD Input 3 Out of Range	1166	4	UInt16	2	R	False=0 True=1
VRM	RTD Input 3 Out of Range Pre-alarm	1166	5	UInt16	2	R	False=0 True=1
VRM	RTD Input 3 Out of Range Alarm	1166	6	UInt16	2	R	False=0 True=1
VRM	RTD Input 4 Out of Range	1166	7	UInt16	2	R	False=0 True=1
VRM	RTD Input 4 Out of Range Pre-alarm	1166	8	UInt16	2	R	False=0 True=1
VRM	RTD Input 4 Out of Range Alarm	1166	9	UInt16	2	R	False=0 True=1
VRM	RTD Input 5 Out of Range	1166	10	UInt16	2	R	False=0 True=1
VRM	RTD Input 5 Out of Range Pre-alarm	1166	11	UInt16	2	R	False=0 True=1
VRM	RTD Input 5 Out of Range Alarm	1166	12	UInt16	2	R	False=0 True=1
VRM	RTD Input 6 Out of Range	1166	13	UInt16	2	R	False=0 True=1
VRM	RTD Input 6 Out of Range Pre-alarm	1166	14	UInt16	2	R	False=0 True=1
VRM	RTD Input 6 Out of Range Alarm	1166	15	UInt16	2	R	False=0 True=1
VRM	RTD Input 7 Out of Range	1167	0	UInt16	2	R	False=0 True=1
VRM	RTD Input 7 Out of Range Pre-alarm	1167	1	UInt16	2	R	False=0 True=1
VRM	RTD Input 7 Out of Range Alarm	1167	2	UInt16	2	R	False=0 True=1
VRM	RTD Input 8 Out of Range	1167	3	UInt16	2	R	False=0 True=1
VRM	RTD Input 8 Out of Range Pre-alarm	1167	4	UInt16	2	R	False=0 True=1
VRM	RTD Input 8 Out of Range Alarm	1167	5	UInt16	2	R	False=0 True=1
VRM	Microprocessor Reset Alarm	1167	6	UInt16	2	R	False=0 True=1
VRM	RTD Protection 1, Threshold 1 Trip	1167	7	UInt16	2	R	False=0 True=1
VRM	RTD Protection 1, Threshold 1 Pre-alarm	1167	8	UInt16	2	R	False=0 True=1
VRM	RTD Protection 1, Threshold 1 Alarm	1167	9	UInt16	2	R	False=0 True=1
VRM	RTD Protection 1, Threshold 2 Trip	1167	10	UInt16	2	R	False=0 True=1
VRM	RTD Protection 1, Threshold 2 Pre-alarm	1167	11	UInt16	2	R	False=0 True=1
VRM	RTD Protection 1, Threshold 2 Alarm	1167	12	UInt16	2	R	False=0 True=1
VRM	RTD Protection 1, Threshold 3 Trip	1167	13	UInt16	2	R	False=0 True=1
VRM	RTD Protection 1, Threshold 3 Pre-alarm	1167	14	UInt16	2	R	False=0 True=1
VRM	RTD Protection 1, Threshold 3 Alarm	1167	15	UInt16	2	R	False=0 True=1
VRM	RTD Protection 1, Threshold 4 Trip	1168	0	UInt16	2	R	False=0 True=1
VRM	RTD Protection 1, Threshold 4 Pre-alarm	1168	1	UInt16	2	R	False=0 True=1
VRM	RTD Protection 1, Threshold 4 Alarm	1168	2	UInt16	2	R	False=0 True=1
VRM	RTD Protection 2, Threshold 1 Trip	1168	3	UInt16	2	R	False=0 True=1
VRM	RTD Protection 2, Threshold 1 Pre-alarm	1168	4	UInt16	2	R	False=0 True=1
VRM	RTD Protection 2, Threshold 1 Alarm	1168	5	UInt16	2	R	False=0 True=1
VRM	RTD Protection 2, Threshold 2 Trip	1168	6	UInt16	2	R	False=0 True=1
VRM	RTD Protection 2, Threshold 2 Pre-alarm	1168	7	UInt16	2	R	False=0 True=1
VRM	RTD Protection 2, Threshold 2 Alarm	1168	8	UInt16	2	R	False=0 True=1
VRM	RTD Protection 2, Threshold 3 Trip	1168	9	UInt16	2	R	False=0 True=1
VRM	RTD Protection 2, Threshold 3 Pre-alarm	1168	10	UInt16	2	R	False=0 True=1
VRM	RTD Protection 2, Threshold 3 Alarm	1168	11	UInt16	2	R	False=0 True=1
VRM	RTD Protection 2, Threshold 4 Trip	1168	12	UInt16	2	R	False=0 True=1
VRM	RTD Protection 2, Threshold 4 Pre-alarm	1168	13	UInt16	2	R	False=0 True=1
VRM	RTD Protection 2, Threshold 4 Alarm	1168	14	UInt16	2	R	False=0 True=1
VRM	RTD Protection 3, Threshold 1 Trip	1168	15	UInt16	2	R	False=0 True=1
VRM	RTD Protection 3, Threshold 1 Pre-alarm	1169	0	UInt16	2	R	False=0 True=1
VRM	RTD Protection 3, Threshold 1 Alarm	1169	1	UInt16	2	R	False=0 True=1
VRM	RTD Protection 3, Threshold 2 Trip	1169	2	UInt16	2	R	False=0 True=1
VRM	RTD Protection 3, Threshold 2 Pre-alarm	1169	3	UInt16	2	R	False=0 True=1
VRM	RTD Protection 3, Threshold 2 Alarm	1169	4	UInt16	2	R	False=0 True=1
VRM	RTD Protection 3, Threshold 3 Trip	1169	5	UInt16	2	R	False=0 True=1
VRM	RTD Protection 3, Threshold 3 Pre-alarm	1169	6	UInt16	2	R	False=0 True=1
VRM	RTD Protection 3, Threshold 3 Alarm	1169	7	UInt16	2	R	False=0 True=1
VRM	RTD Protection 3, Threshold 4 Trip	1169	8	UInt16	2	R	False=0 True=1
VRM	RTD Protection 3, Threshold 4 Pre-alarm	1169	9	UInt16	2	R	False=0 True=1
VRM	RTD Protection 3, Threshold 4 Alarm	1169	10	UInt16	2	R	False=0 True=1
VRM	RTD Protection 4, Threshold 1 Trip	1169	11	UInt16	2	R	False=0 True=1
VRM	RTD Protection 4, Threshold 1 Pre-alarm	1169	12	UInt16	2	R	False=0 True=1
VRM	RTD Protection 4, Threshold 1 Alarm	1169	13	UInt16	2	R	False=0 True=1
VRM	RTD Protection 4, Threshold 2 Trip	1169	14	UInt16	2	R	False=0 True=1
VRM	RTD Protection 4, Threshold 2 Pre-alarm	1169	15	UInt16	2	R	False=0 True=1
VRM	RTD Protection 4, Threshold 2 Alarm	1170	0	UInt16	2	R	False=0 True=1
VRM	RTD Protection 4, Threshold 3 Trip	1170	1	UInt16	2	R	False=0 True=1
VRM	RTD Protection 4, Threshold 3 Pre-alarm	1170	2	UInt16	2	R	False=0 True=1
VRM	RTD Protection 4, Threshold 3 Alarm	1170	3	UInt16	2	R	False=0 True=1
VRM	RTD Protection 4, Threshold 4 Trip	1170	4	UInt16	2	R	False=0 True=1
VRM	RTD Protection 4, Threshold 4 Pre-alarm	1170	5	UInt16	2	R	False=0 True=1
VRM	RTD Protection 4, Threshold 4 Alarm	1170	6	UInt16	2	R	False=0 True=1
VRM	RTD Protection 5, Threshold 1 Trip	1170	7	UInt16	2	R	False=0 True=1
VRM	RTD Protection 5, Threshold 1 Pre-alarm	1170	8	UInt16	2	R	False=0 True=1
VRM	RTD Protection 5, Threshold 1 Alarm	1170	9	UInt16	2	R	False=0 True=1
VRM	RTD Protection 5, Threshold 2 Trip	1170	10	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
VRM	RTD Protection 5, Threshold 2 Pre-alarm	1170	11	UInt16	2	R	False=0 True=1
VRM	RTD Protection 5, Threshold 2 Alarm	1170	12	UInt16	2	R	False=0 True=1
VRM	RTD Protection 5, Threshold 3 Trip	1170	13	UInt16	2	R	False=0 True=1
VRM	RTD Protection 5, Threshold 3 Pre-alarm	1170	14	UInt16	2	R	False=0 True=1
VRM	RTD Protection 5, Threshold 3 Alarm	1170	15	UInt16	2	R	False=0 True=1
VRM	RTD Protection 5, Threshold 4 Trip	1171	0	UInt16	2	R	False=0 True=1
VRM	RTD Protection 5, Threshold 4 Pre-alarm	1171	1	UInt16	2	R	False=0 True=1
VRM	RTD Protection 5, Threshold 4 Alarm	1171	2	UInt16	2	R	False=0 True=1
VRM	RTD Protection 6, Threshold 1 Trip	1171	3	UInt16	2	R	False=0 True=1
VRM	RTD Protection 6, Threshold 1 Pre-alarm	1171	4	UInt16	2	R	False=0 True=1
VRM	RTD Protection 6, Threshold 1 Alarm	1171	5	UInt16	2	R	False=0 True=1
VRM	RTD Protection 6, Threshold 2 Trip	1171	6	UInt16	2	R	False=0 True=1
VRM	RTD Protection 6, Threshold 2 Pre-alarm	1171	7	UInt16	2	R	False=0 True=1
VRM	RTD Protection 6, Threshold 2 Alarm	1171	8	UInt16	2	R	False=0 True=1
VRM	RTD Protection 6, Threshold 3 Trip	1171	9	UInt16	2	R	False=0 True=1
VRM	RTD Protection 6, Threshold 3 Pre-alarm	1171	10	UInt16	2	R	False=0 True=1
VRM	RTD Protection 6, Threshold 3 Alarm	1171	11	UInt16	2	R	False=0 True=1
VRM	RTD Protection 6, Threshold 4 Trip	1171	12	UInt16	2	R	False=0 True=1
VRM	RTD Protection 6, Threshold 4 Pre-alarm	1171	13	UInt16	2	R	False=0 True=1
VRM	RTD Protection 6, Threshold 4 Alarm	1171	14	UInt16	2	R	False=0 True=1
VRM	RTD Protection 7, Threshold 1 Trip	1171	15	UInt16	2	R	False=0 True=1
VRM	RTD Protection 7, Threshold 1 Pre-alarm	1172	0	UInt16	2	R	False=0 True=1
VRM	RTD Protection 7, Threshold 1 Alarm	1172	1	UInt16	2	R	False=0 True=1
VRM	RTD Protection 7, Threshold 2 Trip	1172	2	UInt16	2	R	False=0 True=1
VRM	RTD Protection 7, Threshold 2 Pre-alarm	1172	3	UInt16	2	R	False=0 True=1
VRM	RTD Protection 7, Threshold 2 Alarm	1172	4	UInt16	2	R	False=0 True=1
VRM	RTD Protection 7, Threshold 3 Trip	1172	5	UInt16	2	R	False=0 True=1
VRM	RTD Protection 7, Threshold 3 Pre-alarm	1172	6	UInt16	2	R	False=0 True=1
VRM	RTD Protection 7, Threshold 3 Alarm	1172	7	UInt16	2	R	False=0 True=1
VRM	RTD Protection 7, Threshold 4 Trip	1172	8	UInt16	2	R	False=0 True=1
VRM	RTD Protection 7, Threshold 4 Pre-alarm	1172	9	UInt16	2	R	False=0 True=1
VRM	RTD Protection 7, Threshold 4 Alarm	1172	10	UInt16	2	R	False=0 True=1
VRM	RTD Protection 8, Threshold 1 Trip	1172	11	UInt16	2	R	False=0 True=1
VRM	RTD Protection 8, Threshold 1 Pre-alarm	1172	12	UInt16	2	R	False=0 True=1
VRM	RTD Protection 8, Threshold 1 Alarm	1172	13	UInt16	2	R	False=0 True=1
VRM	RTD Protection 8, Threshold 2 Trip	1172	14	UInt16	2	R	False=0 True=1
VRM	RTD Protection 8, Threshold 2 Pre-alarm	1172	15	UInt16	2	R	False=0 True=1
VRM	RTD Protection 8, Threshold 2 Alarm	1173	0	UInt16	2	R	False=0 True=1
VRM	RTD Protection 8, Threshold 3 Trip	1173	1	UInt16	2	R	False=0 True=1
VRM	RTD Protection 8, Threshold 3 Pre-alarm	1173	2	UInt16	2	R	False=0 True=1
VRM	RTD Protection 8, Threshold 3 Alarm	1173	3	UInt16	2	R	False=0 True=1
VRM	RTD Protection 8, Threshold 4 Trip	1173	4	UInt16	2	R	False=0 True=1
VRM	RTD Protection 8, Threshold 4 Pre-alarm	1173	5	UInt16	2	R	False=0 True=1
VRM	RTD Protection 8, Threshold 4 Alarm	1173	6	UInt16	2	R	False=0 True=1
Genset Controller	Engine Running	1173	7	UInt16	2	R	False=0 True=1
ECU Config	DEF Severe Inducement Alarm	1173	8	UInt16	2	R	False=0 True=1
VRM Controller Settings	OEL Disable	1173	9	UInt16	2	R	False=0 True=1
VRM Controller Settings	OEL Online	1173	10	UInt16	2	R	False=0 True=1
VRM Controller Settings	OEL Disabled in Manual Mode	1173	11	UInt16	2	R	False=0 True=1
VRM Controller Settings	UEL Disable	1173	12	UInt16	2	R	False=0 True=1
VRM Controller Settings	UEL Disabled in Manual Mode	1173	13	UInt16	2	R	False=0 True=1
VRM Controller Settings	Droop Disable	1173	14	UInt16	2	R	False=0 True=1
VRM Controller Settings	Line Drop Disable	1173	15	UInt16	2	R	False=0 True=1
VRM Controller Settings	Internal Tracking Disable	1174	0	UInt16	2	R	False=0 True=1
VRM Controller Settings	AVR Raise	1174	1	UInt16	2	R	False=0 True=1
VRM Controller Settings	AVR Lower	1174	2	UInt16	2	R	False=0 True=1
VRM Controller Settings	AVR Pre-position 1 Enable	1174	3	UInt16	2	R	False=0 True=1
VRM Controller Settings	AVR Pre-position 2 Enable	1174	4	UInt16	2	R	False=0 True=1
VRM Controller Settings	AVR Pre-position 3 Enable	1174	5	UInt16	2	R	False=0 True=1
VRM Controller Settings	AVR Pre-position 4 Enable	1174	6	UInt16	2	R	False=0 True=1
VRM Controller Settings	AVR Pre-position 5 Enable	1174	7	UInt16	2	R	False=0 True=1
VRM Controller Settings	FCR Raise	1174	8	UInt16	2	R	False=0 True=1
VRM Controller Settings	FCR Lower	1174	9	UInt16	2	R	False=0 True=1
VRM Controller Settings	FCR Pre-position 1 Enable	1174	10	UInt16	2	R	False=0 True=1
VRM Controller Settings	FCR Pre-position 2 Enable	1174	11	UInt16	2	R	False=0 True=1
VRM Controller Settings	FCR Pre-position 3 Enable	1174	12	UInt16	2	R	False=0 True=1
VRM Controller Settings	FCR Pre-position 4 Enable	1174	13	UInt16	2	R	False=0 True=1
VRM Controller Settings	FCR Pre-position 5 Enable	1174	14	UInt16	2	R	False=0 True=1
VRM Controller Settings	OEL Active	1174	15	UInt16	2	R	False=0 True=1
VRM Controller Settings	UEL Active	1175	0	UInt16	2	R	False=0 True=1
VRM Controller Settings	Underfrequency Active	1175	1	UInt16	2	R	False=0 True=1
VRM Controller Settings	Setpoint Upper Limit	1175	2	UInt16	2	R	False=0 True=1
VRM Controller Settings	Setpoint Lower Limit	1175	3	UInt16	2	R	False=0 True=1
VRM Controller Settings	Pre-position 1 Active	1175	4	UInt16	2	R	False=0 True=1
VRM Controller Settings	Pre-position 2 Active	1175	5	UInt16	2	R	False=0 True=1
VRM Controller Settings	Pre-position 3 Active	1175	6	UInt16	2	R	False=0 True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
VRM Controller Settings	Pre-position 4 Active	1175	7	UInt16	2	R	False=0 True=1
VRM Controller Settings	Pre-position 5 Active	1175	8	UInt16	2	R	False=0 True=1
VRM Controller Settings	Soft Start Active	1175	9	UInt16	2	R	False=0 True=1
VRM Controller Settings	Start Regulator	1175	10	UInt16	2	R	False=0 True=1
VRM Controller Settings	Stop Regulator	1175	11	UInt16	2	R	False=0 True=1
VRM Controller Settings	Regulator Started	1175	12	UInt16	2	R	False=0 True=1
VRM Controller Settings	Underfrequency V/Hz Disable	1175	13	UInt16	2	R	False=0 True=1
VRM Controller Settings	Generator Below 10 Hz	1175	14	UInt16	2	R	False=0 True=1
VRM Controller Settings	AVR Enable	1175	15	UInt16	2	R	False=0 True=1
VRM Controller Settings	FCR Enable	1176	0	UInt16	2	R	False=0 True=1
VRM Controller Settings	Crowbar Activated	1176	1	UInt16	2	R	False=0 True=1
VRM Controller Settings	Fidle Short Circuit Status	1176	2	UInt16	2	R	False=0 True=1
VRM Controller Settings	Generator Below 10 Hz Pre-alarm	1176	3	UInt16	2	R	False=0 True=1
VRM Controller Settings	Null Balance	1176	4	UInt16	2	R	False=0 True=1
VRM Controller Settings	AVR Active	1176	5	UInt16	2	R	False=0 True=1
VRM Controller Settings	FCR Active	1176	6	UInt16	2	R	False=0 True=1
OEL	Alarm	1176	7	UInt16	2	R	False=0 True=1
OEL	Pre-alarm	1176	8	UInt16	2	R	False=0 True=1
UEL	Alarm	1176	9	UInt16	2	R	False=0 True=1
UEL	Pre-alarm	1176	10	UInt16	2	R	False=0 True=1
V/Hz Limit	Alarm	1176	11	UInt16	2	R	False=0 True=1
V/Hz Limit	Pre-alarm	1176	12	UInt16	2	R	False=0 True=1
Load Shedding	LoadAddDemandStart	1176	13	UInt16	2	R	False=0 True=1
Load Shedding	Priority1LoadEnabled	1176	14	UInt16	2	R	False=0 True=1
Load Shedding	Priority2LoadEnabled	1176	15	UInt16	2	R	False=0 True=1
Load Shedding	Priority3LoadEnabled	1177	0	UInt16	2	R	False=0 True=1
Load Shedding	Priority4LoadEnabled	1177	1	UInt16	2	R	False=0 True=1
Load Shedding	Priority5LoadEnabled	1177	2	UInt16	2	R	False=0 True=1
Load Shedding	Priority6LoadEnabled	1177	3	UInt16	2	R	False=0 True=1
Load Shedding	Priority7LoadEnabled	1177	4	UInt16	2	R	False=0 True=1
Load Shedding	Priority8LoadEnabled	1177	5	UInt16	2	R	False=0 True=1
Load Shedding	Priority9LoadEnabled	1177	6	UInt16	2	R	False=0 True=1
Load Shedding	Priority10LoadEnabled	1177	7	UInt16	2	R	False=0 True=1
Load Shedding	Priority11LoadEnabled	1177	8	UInt16	2	R	False=0 True=1
Load Shedding	Priority12LoadEnabled	1177	9	UInt16	2	R	False=0 True=1
Load Shedding	Priority13LoadEnabled	1177	10	UInt16	2	R	False=0 True=1
Load Shedding	Priority14LoadEnabled	1177	11	UInt16	2	R	False=0 True=1
Load Shedding	Priority15LoadEnabled	1177	12	UInt16	2	R	False=0 True=1
Load Shedding	Priority16LoadEnabled	1177	13	UInt16	2	R	False=0 True=1
Load Shedding	Priority17LoadEnabled	1177	14	UInt16	2	R	False=0 True=1
Load Shedding	Priority18LoadEnabled	1177	15	UInt16	2	R	False=0 True=1
Load Shedding	Priority19LoadEnabled	1178	0	UInt16	2	R	False=0 True=1
Load Shedding	Priority20LoadEnabled	1178	1	UInt16	2	R	False=0 True=1
Load Shedding	Priority21LoadEnabled	1178	2	UInt16	2	R	False=0 True=1
Load Shedding	Priority22LoadEnabled	1178	3	UInt16	2	R	False=0 True=1
Load Shedding	Priority23LoadEnabled	1178	4	UInt16	2	R	False=0 True=1
Load Shedding	Priority24LoadEnabled	1178	5	UInt16	2	R	False=0 True=1
Load Shedding	Priority25LoadEnabled	1178	6	UInt16	2	R	False=0 True=1
Load Shedding	Priority26LoadEnabled	1178	7	UInt16	2	R	False=0 True=1
Load Shedding	Priority27LoadEnabled	1178	8	UInt16	2	R	False=0 True=1
Load Shedding	Priority28LoadEnabled	1178	9	UInt16	2	R	False=0 True=1
Load Shedding	Priority29LoadEnabled	1178	10	UInt16	2	R	False=0 True=1
Load Shedding	Priority30LoadEnabled	1178	11	UInt16	2	R	False=0 True=1
Load Shedding	Priority31LoadEnabled	1178	12	UInt16	2	R	False=0 True=1
Load Shedding	Priority32LoadEnabled	1178	13	UInt16	2	R	False=0 True=1
Load Shedding	Priority33LoadEnabled	1178	14	UInt16	2	R	False=0 True=1
Load Shedding	Priority34LoadEnabled	1178	15	UInt16	2	R	False=0 True=1
Load Shedding	Priority35LoadEnabled	1179	0	UInt16	2	R	False=0 True=1
Load Shedding	Priority36LoadEnabled	1179	1	UInt16	2	R	False=0 True=1
Load Shedding	Priority37LoadEnabled	1179	2	UInt16	2	R	False=0 True=1
Load Shedding	Priority38LoadEnabled	1179	3	UInt16	2	R	False=0 True=1
Load Shedding	Priority39LoadEnabled	1179	4	UInt16	2	R	False=0 True=1
Load Shedding	Priority40LoadEnabled	1179	5	UInt16	2	R	False=0 True=1
Load Shedding	Priority41LoadEnabled	1179	6	UInt16	2	R	False=0 True=1
Load Shedding	Priority42LoadEnabled	1179	7	UInt16	2	R	False=0 True=1
Load Shedding	Priority43LoadEnabled	1179	8	UInt16	2	R	False=0 True=1
Load Shedding	Priority44LoadEnabled	1179	9	UInt16	2	R	False=0 True=1
Load Shedding	Priority45LoadEnabled	1179	10	UInt16	2	R	False=0 True=1
Load Shedding	Priority46LoadEnabled	1179	11	UInt16	2	R	False=0 True=1
Load Shedding	Priority47LoadEnabled	1179	12	UInt16	2	R	False=0 True=1
Load Shedding	Priority48LoadEnabled	1179	13	UInt16	2	R	False=0 True=1
Load Shedding	Priority49LoadEnabled	1179	14	UInt16	2	R	False=0 True=1
Load Shedding	Priority50LoadEnabled	1179	15	UInt16	2	R	False=0 True=1
Load Shedding	Priority51LoadEnabled	1180	0	UInt16	2	R	False=0 True=1
Load Shedding	Priority52LoadEnabled	1180	1	UInt16	2	R	False=0 True=1
Load Shedding	Priority53LoadEnabled	1180	2	UInt16	2	R	False=0 True=1

DGC-2020HD Modbus® Protocol Binary Points Register Table

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DGC-2020HD Modbus® Protocol

DGC-2020HD Modbus® Protocol Binary Points Register Table

Name	Description	Register	Bit	Type	Bytes	R/W	Range
Broadcast Logic	OR Output 114	1203	15	UInt16	2	R	False=0, True=1
Broadcast Logic	OR Output 115	1204	0	UInt16	2	R	False=0, True=1
Broadcast Logic	OR Output 116	1204	1	UInt16	2	R	False=0, True=1
Broadcast Logic	OR Output 117	1204	2	UInt16	2	R	False=0, True=1
Broadcast Logic	OR Output 118	1204	3	UInt16	2	R	False=0, True=1
Broadcast Logic	OR Output 119	1204	4	UInt16	2	R	False=0, True=1
Broadcast Logic	OR Output 120	1204	5	UInt16	2	R	False=0, True=1
Broadcast Logic	OR Output 121	1204	6	UInt16	2	R	False=0, True=1
Broadcast Logic	OR Output 122	1204	7	UInt16	2	R	False=0, True=1
Broadcast Logic	OR Output 123	1204	8	UInt16	2	R	False=0, True=1
Broadcast Logic	OR Output 124	1204	9	UInt16	2	R	False=0, True=1
Broadcast Logic	OR Output 125	1204	10	UInt16	2	R	False=0, True=1
Broadcast Logic	OR Output 126	1204	11	UInt16	2	R	False=0, True=1
Broadcast Logic	OR Output 127	1204	12	UInt16	2	R	False=0, True=1
Broadcast Logic	OR Output 128	1204	13	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 1	1204	14	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 2	1204	15	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 3	1205	0	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 4	1205	1	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 5	1205	2	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 6	1205	3	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 7	1205	4	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 8	1205	5	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 9	1205	6	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 10	1205	7	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 11	1205	8	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 12	1205	9	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 13	1205	10	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 14	1205	11	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 15	1205	12	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 16	1205	13	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 17	1205	14	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 18	1205	15	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 19	1206	0	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 20	1206	1	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 21	1206	2	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 22	1206	3	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 23	1206	4	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 24	1206	5	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 25	1206	6	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 26	1206	7	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 27	1206	8	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 28	1206	9	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 29	1206	10	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 30	1206	11	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 31	1206	12	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 32	1206	13	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 33	1206	14	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 34	1206	15	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 35	1207	0	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 36	1207	1	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 37	1207	2	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 38	1207	3	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 39	1207	4	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 40	1207	5	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 41	1207	6	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 42	1207	7	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 43	1207	8	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 44	1207	9	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 45	1207	10	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 46	1207	11	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 47	1207	12	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 48	1207	13	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 49	1207	14	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 50	1207	15	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 51	1208	0	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 52	1208	1	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 53	1208	2	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 54	1208	3	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 55	1208	4	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 56	1208	5	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 57	1208	6	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 58	1208	7	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 59	1208	8	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 60	1208	9	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 61	1208	10	UInt16	2	R	False=0, True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
Broadcast Logic	Exactly One Output 62	1208	11	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 63	1208	12	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 64	1208	13	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 65	1208	14	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 66	1208	15	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 67	1209	0	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 68	1209	1	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 69	1209	2	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 70	1209	3	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 71	1209	4	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 72	1209	5	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 73	1209	6	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 74	1209	7	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 75	1209	8	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 76	1209	9	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 77	1209	10	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 78	1209	11	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 79	1209	12	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 80	1209	13	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 81	1209	14	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 82	1209	15	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 83	1210	0	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 84	1210	1	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 85	1210	2	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 86	1210	3	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 87	1210	4	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 88	1210	5	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 89	1210	6	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 90	1210	7	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 91	1210	8	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 92	1210	9	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 93	1210	10	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 94	1210	11	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 95	1210	12	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 96	1210	13	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 97	1210	14	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 98	1210	15	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 99	1211	0	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 100	1211	1	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 101	1211	2	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 102	1211	3	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 103	1211	4	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 104	1211	5	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 105	1211	6	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 106	1211	7	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 107	1211	8	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 108	1211	9	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 109	1211	10	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 110	1211	11	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 111	1211	12	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 112	1211	13	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 113	1211	14	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 114	1211	15	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 115	1212	0	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 116	1212	1	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 117	1212	2	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 118	1212	3	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 119	1212	4	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 120	1212	5	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 121	1212	6	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 122	1212	7	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 123	1212	8	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 124	1212	9	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 125	1212	10	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 126	1212	11	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 127	1212	12	UInt16	2	R	False=0, True=1
Broadcast Logic	Exactly One Output 128	1212	13	UInt16	2	R	False=0, True=1
ECU Config	Torque Limit BP	1212	14	UInt16	2	R	False=0, True=1
ECU Config	Torque Limit Severe BP	1212	15	UInt16	2	R	False=0, True=1
ECU Config	Isuzu SCR Purge Pre-Alarm	1213	0	UInt16	2	R	False=0, True=1
ECU Config	Isuzu SCR Forced Purge Pre-Alarm	1213	1	UInt16	2	R	False=0, True=1
ECU Config	Exhaust System Error Pre-Alarm	1213	2	UInt16	2	R	False=0, True=1
ECU Config	Exhaust System Error Alarm	1213	3	UInt16	2	R	False=0, True=1
ECU Config	DEF Low Severe Alarm	1213	4	UInt16	2	R	False=0, True=1
ECU Config	Escape Mode Pre-Alarm BP	1213	5	UInt16	2	R	False=0, True=1
ECU Config	Isuzu Service Tool Forced Purge Request	1213	6	UInt16	2	R	False=0, True=1

Name	Description	Register	Bit	Type	Bytes	R/W	Range
ECU Config	Isuzu Forced Purge Request Pre-Alarm	1213	7	UInt16	2	R	False=0, True=1
ECU Config	Diagnostic Trouble Code Alarm	1213	8	UInt16	2	R	False=0, True=1
ECU Config	Isuzu DEF Low Refill DEF Pre-Alarm	1213	9	UInt16	2	R	False=0, True=1
ECU Config	Isuzu DEF Low Refill DEF Alarm	1213	10	UInt16	2	R	False=0, True=1
Battery Charger 1	Comms Fail Pre-Alarm	1213	11	UInt16	2	R	False=0, True=1
Battery Charger 1	Battery Failure Pre-Alarm	1213	12	UInt16	2	R	False=0, True=1
Battery Charger 1	Fail Pre-Alarm	1213	13	UInt16	2	R	False=0, True=1
Battery Charger 1	AC Off Pre-Alarm	1213	14	UInt16	2	R	False=0, True=1
Battery Charger 1	Thermal Limit Pre-Alarm	1213	15	UInt16	2	R	False=0, True=1
Battery Charger 1	HI Output Volts Pre-Alarm	1214	0	UInt16	2	R	False=0, True=1
Battery Charger 1	LO Output Volts Pre-Alarm	1214	1	UInt16	2	R	False=0, True=1
Battery Charger 1	LO Cranking Volts Pre-Alarm	1214	2	UInt16	2	R	False=0, True=1
Battery Charger 1	Invalid Settings Pre-Alarm	1214	3	UInt16	2	R	False=0, True=1
Battery Charger 1	Single Unit Fail Pre-Alarm	1214	4	UInt16	2	R	False=0, True=1
Battery Charger 2	Comms Fail Pre-Alarm	1214	5	UInt16	2	R	False=0, True=1
Battery Charger 2	Battery Failure Pre-Alarm	1214	6	UInt16	2	R	False=0, True=1
Battery Charger 2	Fail Pre-Alarm	1214	7	UInt16	2	R	False=0, True=1
Battery Charger 2	AC Off Pre-Alarm	1214	8	UInt16	2	R	False=0, True=1
Battery Charger 2	Thermal Limit Pre-Alarm	1214	9	UInt16	2	R	False=0, True=1
Battery Charger 2	HI Output Volts Pre-Alarm	1214	10	UInt16	2	R	False=0, True=1
Battery Charger 2	LO Output Volts Pre-Alarm	1214	11	UInt16	2	R	False=0, True=1
Battery Charger 2	LO Cranking Volts Pre-Alarm	1214	12	UInt16	2	R	False=0, True=1
Battery Charger 2	Invalid Settings Pre-Alarm	1214	13	UInt16	2	R	False=0, True=1
Battery Charger 2	Single Unit Fail Pre-Alarm	1214	14	UInt16	2	R	False=0, True=1
Load Shedding	Priority 1 Load Add	1214	15	UInt16	2	R	False=0, True=1
Load Shedding	Priority 2 Load Add	1215	0	UInt16	2	R	False=0, True=1
Load Shedding	Priority 3 Load Add	1215	1	UInt16	2	R	False=0, True=1
Load Shedding	Priority 4 Load Add	1215	2	UInt16	2	R	False=0, True=1
Load Shedding	Priority 5 Load Add	1215	3	UInt16	2	R	False=0, True=1
Load Shedding	Priority 6 Load Add	1215	4	UInt16	2	R	False=0, True=1
Load Shedding	Priority 7 Load Add	1215	5	UInt16	2	R	False=0, True=1
Load Shedding	Priority 8 Load Add	1215	6	UInt16	2	R	False=0, True=1
Load Shedding	Priority 9 Load Add	1215	7	UInt16	2	R	False=0, True=1
Load Shedding	Priority 10 Load Add	1215	8	UInt16	2	R	False=0, True=1
Load Shedding	Priority 11 Load Add	1215	9	UInt16	2	R	False=0, True=1
Load Shedding	Priority 12 Load Add	1215	10	UInt16	2	R	False=0, True=1
Load Shedding	Priority 13 Load Add	1215	11	UInt16	2	R	False=0, True=1
Load Shedding	Priority 14 Load Add	1215	12	UInt16	2	R	False=0, True=1
Load Shedding	Priority 15 Load Add	1215	13	UInt16	2	R	False=0, True=1
Load Shedding	Priority 16 Load Add	1215	14	UInt16	2	R	False=0, True=1
Load Shedding	Priority 17 Load Add	1215	15	UInt16	2	R	False=0, True=1
Load Shedding	Priority 18 Load Add	1216	0	UInt16	2	R	False=0, True=1
Load Shedding	Priority 19 Load Add	1216	1	UInt16	2	R	False=0, True=1
Load Shedding	Priority 20 Load Add	1216	2	UInt16	2	R	False=0, True=1
Load Shedding	Priority 21 Load Add	1216	3	UInt16	2	R	False=0, True=1
Load Shedding	Priority 22 Load Add	1216	4	UInt16	2	R	False=0, True=1
Load Shedding	Priority 23 Load Add	1216	5	UInt16	2	R	False=0, True=1
Load Shedding	Priority 24 Load Add	1216	6	UInt16	2	R	False=0, True=1
Load Shedding	Priority 25 Load Add	1216	7	UInt16	2	R	False=0, True=1
Load Shedding	Priority 26 Load Add	1216	8	UInt16	2	R	False=0, True=1
Load Shedding	Priority 27 Load Add	1216	9	UInt16	2	R	False=0, True=1
Load Shedding	Priority 28 Load Add	1216	10	UInt16	2	R	False=0, True=1
Load Shedding	Priority 29 Load Add	1216	11	UInt16	2	R	False=0, True=1
Load Shedding	Priority 30 Load Add	1216	12	UInt16	2	R	False=0, True=1
Load Shedding	Priority 31 Load Add	1216	13	UInt16	2	R	False=0, True=1
Load Shedding	Priority 32 Load Add	1216	14	UInt16	2	R	False=0, True=1
Load Shedding	Priority 33 Load Add	1216	15	UInt16	2	R	False=0, True=1
Load Shedding	Priority 34 Load Add	1217	0	UInt16	2	R	False=0, True=1
Load Shedding	Priority 35 Load Add	1217	1	UInt16	2	R	False=0, True=1
Load Shedding	Priority 36 Load Add	1217	2	UInt16	2	R	False=0, True=1
Load Shedding	Priority 37 Load Add	1217	3	UInt16	2	R	False=0, True=1
Load Shedding	Priority 38 Load Add	1217	4	UInt16	2	R	False=0, True=1
Load Shedding	Priority 39 Load Add	1217	5	UInt16	2	R	False=0, True=1
Load Shedding	Priority 40 Load Add	1217	6	UInt16	2	R	False=0, True=1
Load Shedding	Priority 41 Load Add	1217	7	UInt16	2	R	False=0, True=1
Load Shedding	Priority 42 Load Add	1217	8	UInt16	2	R	False=0, True=1
Load Shedding	Priority 43 Load Add	1217	9	UInt16	2	R	False=0, True=1
Load Shedding	Priority 44 Load Add	1217	10	UInt16	2	R	False=0, True=1
Load Shedding	Priority 45 Load Add	1217	11	UInt16	2	R	False=0, True=1
Load Shedding	Priority 46 Load Add	1217	12	UInt16	2	R	False=0, True=1
Load Shedding	Priority 47 Load Add	1217	13	UInt16	2	R	False=0, True=1
Load Shedding	Priority 48 Load Add	1217	14	UInt16	2	R	False=0, True=1
Load Shedding	Priority 49 Load Add	1217	15	UInt16	2	R	False=0, True=1
Load Shedding	Priority 50 Load Add	1218	0	UInt16	2	R	False=0, True=1
Load Shedding	Priority 51 Load Add	1218	1	UInt16	2	R	False=0, True=1
Load Shedding	Priority 52 Load Add	1218	2	UInt16	2	R	False=0, True=1

DGC-2020HD Modbus® Protocol Binary Points Register Table

Name	Description	Register	Bit	Type	Bytes	R/W	Range
Config DTC 1	Output	1222	15	UInt16	2	R	False=0, True=1
Config DTC 1	Alarm	1223	0	UInt16	2	R	False=0, True=1
Config DTC 1	Pre-Alarm	1223	1	UInt16	2	R	False=0, True=1
Config DTC 2	Output	1223	2	UInt16	2	R	False=0, True=1
Config DTC 2	Alarm	1223	3	UInt16	2	R	False=0, True=1
Config DTC 2	Pre-Alarm	1223	4	UInt16	2	R	False=0, True=1
Config DTC 3	Output	1223	5	UInt16	2	R	False=0, True=1
Config DTC 3	Alarm	1223	6	UInt16	2	R	False=0, True=1
Config DTC 3	Pre-Alarm	1223	7	UInt16	2	R	False=0, True=1
Config DTC 4	Output	1223	8	UInt16	2	R	False=0, True=1
Config DTC 4	Alarm	1223	9	UInt16	2	R	False=0, True=1
Config DTC 4	Pre-Alarm	1223	10	UInt16	2	R	False=0, True=1
Config DTC 5	Output	1223	11	UInt16	2	R	False=0, True=1
Config DTC 5	Alarm	1223	12	UInt16	2	R	False=0, True=1
Config DTC 5	Pre-Alarm	1223	13	UInt16	2	R	False=0, True=1
Config DTC 6	Output	1223	14	UInt16	2	R	False=0, True=1
Config DTC 6	Alarm	1223	15	UInt16	2	R	False=0, True=1
Config DTC 6	Pre-Alarm	1224	0	UInt16	2	R	False=0, True=1
Config DTC 7	Output	1224	1	UInt16	2	R	False=0, True=1
Config DTC 7	Alarm	1224	2	UInt16	2	R	False=0, True=1
Config DTC 7	Pre-Alarm	1224	3	UInt16	2	R	False=0, True=1
Config DTC 8	Output	1224	4	UInt16	2	R	False=0, True=1
Config DTC 8	Alarm	1224	5	UInt16	2	R	False=0, True=1
Config DTC 8	Pre-Alarm	1224	6	UInt16	2	R	False=0, True=1
Config DTC 9	Output	1224	7	UInt16	2	R	False=0, True=1
Config DTC 9	Alarm	1224	8	UInt16	2	R	False=0, True=1
Config DTC 9	Pre-Alarm	1224	9	UInt16	2	R	False=0, True=1
Config DTC 10	Output	1224	10	UInt16	2	R	False=0, True=1
Config DTC 10	Alarm	1224	11	UInt16	2	R	False=0, True=1
Config DTC 10	Pre-Alarm	1224	12	UInt16	2	R	False=0, True=1
Config DTC 11	Output	1224	13	UInt16	2	R	False=0, True=1
Config DTC 11	Alarm	1224	14	UInt16	2	R	False=0, True=1
Config DTC 11	Pre-Alarm	1224	15	UInt16	2	R	False=0, True=1
Config DTC 12	Output	1225	0	UInt16	2	R	False=0, True=1
Config DTC 12	Alarm	1225	1	UInt16	2	R	False=0, True=1
Config DTC 12	Pre-Alarm	1225	2	UInt16	2	R	False=0, True=1
Config DTC 13	Output	1225	3	UInt16	2	R	False=0, True=1
Config DTC 13	Alarm	1225	4	UInt16	2	R	False=0, True=1
Config DTC 13	Pre-Alarm	1225	5	UInt16	2	R	False=0, True=1
Config DTC 14	Output	1225	6	UInt16	2	R	False=0, True=1
Config DTC 14	Alarm	1225	7	UInt16	2	R	False=0, True=1
Config DTC 14	Pre-Alarm	1225	8	UInt16	2	R	False=0, True=1
Config DTC 15	Output	1225	9	UInt16	2	R	False=0, True=1
Config DTC 15	Alarm	1225	10	UInt16	2	R	False=0, True=1
Config DTC 15	Pre-Alarm	1225	11	UInt16	2	R	False=0, True=1
Config DTC 16	Output	1225	12	UInt16	2	R	False=0, True=1
Config DTC 16	Alarm	1225	13	UInt16	2	R	False=0, True=1
Config DTC 16	Pre-Alarm	1225	14	UInt16	2	R	False=0, True=1

Bias Control Register Table

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Bias Control	AVR Kp For Analog Bias Out	GG	2000	Float	4	R W	n/a	0 - 1000
Bias Control	AVR Ki For Analog Bias Out	GG	2002	Float	4	R W	n/a	0 - 1000
Bias Control	AVR Kd For Analog Bias Out	GG	2004	Float	4	R W	n/a	0 - 1000
Bias Control	AVR Td	GG	2006	Float	4	R W	n/a	0 - 1
Bias Control	AVR Loop Gain For Analog Bias Out	GG	2008	Float	4	R W	n/a	0 - 1000
Bias Control	AVR Enable Windup Limit	GG	2010	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Bias Control	AVR Integrator Limit Plus	GG	2012	Float	4	R W	n/a	0 - 1000
Bias Control	AVR Integrator Limit Minus	GG	2014	Float	4	R W	n/a	-1000 - 0
Bias Control	AVR Output Upper Limit	GG	2016	Float	4	R W	n/a	0 - 1000
Bias Control	AVR Output Lower Limit	GG	2018	Float	4	R W	n/a	-1000 - 0
Bias Control	GOV Kp For Analog Bias Out	GG	2020	Float	4	R W	n/a	0 - 1000
Bias Control	GOV Ki For Analog Bias Out	GG	2022	Float	4	R W	n/a	0 - 1000
Bias Control	GOV Kd For Analog Bias Out	GG	2024	Float	4	R W	n/a	0 - 1000
Bias Control	GOV Td	GG	2026	Float	4	R W	n/a	0 - 1
Bias Control	GOV Loop Gain For Analog Bias Out	GG	2028	Float	4	R W	n/a	0 - 1000
Bias Control	GOV Enable Windup Limit	GG	2030	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Bias Control	GOV Integrator Limit Plus	GG	2032	Float	4	R W	n/a	0 - 1000
Bias Control	GOV Integrator Limit Minus	GG	2034	Float	4	R W	n/a	-1000 - 0
Bias Control	GOV Output Upper Limit	GG	2036	Float	4	R W	n/a	0 - 1000
Bias Control	GOV Output Lower Limit	GG	2038	Float	4	R W	n/a	-1000 - 0
Bias Control	kvar Kp For Analog Bias Out	GG	2040	Float	4	R W	n/a	0 - 1000
Bias Control	kvar Ki For Analog Bias Out	GG	2042	Float	4	R W	n/a	0 - 1000
Bias Control	kvar Kd For Analog Bias Out	GG	2044	Float	4	R W	n/a	0 - 1000
Bias Control	kvar Td	GG	2046	Float	4	R W	n/a	0 - 1
Bias Control	kvar Loop Gain For Analog Bias Out	GG	2048	Float	4	R W	n/a	0 - 1000
Bias Control	kvar Enable Windup Limit	GG	2050	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Bias Control	kvar Integrator Limit Plus	GG	2052	Float	4	R W	n/a	0 - 1000
Bias Control	kvar Integrator Limit Minus	GG	2054	Float	4	R W	n/a	-1000 - 0
Bias Control	kvar Output Upper Limit	GG	2056	Float	4	R W	n/a	0 - 1000
Bias Control	kvar Output Lower Limit	GG	2058	Float	4	R W	n/a	-1000 - 0
Bias Control	kW Kp For Analog Bias Out	GG	2060	Float	4	R W	n/a	0 - 1000
Bias Control	kW Ki For Analog Bias Out	GG	2062	Float	4	R W	n/a	0 - 1000
Bias Control	kW Kd For Analog Bias Out	GG	2064	Float	4	R W	n/a	0 - 1000
Bias Control	kW Td	GG	2066	Float	4	R W	n/a	0 - 1
Bias Control	kW Loop Gain For Analog Bias Out	GG	2068	Float	4	R W	n/a	0 - 1000
Bias Control	kW Enable Windup Limit	GG	2070	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Bias Control	kW Integrator Limit Plus	GG	2072	Float	4	R W	n/a	0 - 1000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Bias Control	kW Integrator Limit Minus	GG	2074	Float	4	R W	n/a	-1000 - 0
Bias Control	kW Output Upper Limit	GG	2076	Float	4	R W	n/a	0 - 1000
Bias Control	kW Output Lower Limit	GG	2078	Float	4	R W	n/a	-1000 - 0
Bias Control	kW Droop Percentage	GG	2080	Float	4	R W	Percent	0.5 - 10
Bias Control	Load Control Enabled	GG	2082	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Bias Control	kW Load Rate	GG	2084	Float	4	R W	Percent	0 - 100
Bias Control	Breaker Open Setpoint	GG	2086	Float	4	R W	Percent	0 - 100
Bias Control	AVR Output Type	GG	2088	UInt32	4	R W	n/a	Contact=0 Analog=1
Bias Control	GOV Output Type	GG	2090	UInt32	4	R W	n/a	Contact=0 Analog=1
Bias Control	Governor Droop Gain	GG	2092	Float	4	R W	n/a	0 - 1000
Bias Control	AVR Droop Gain	GG	2094	Float	4	R W	n/a	0 - 1000
Bias Control	Speed Trim Enabled	GG	2096	UInt32	4	R W	n/a	Disabled=0 Enabled if Gen Breaker Closed=1 Enable Always=2
Bias Control	Voltage Trim Enabled	GG	2098	UInt32	4	R W	n/a	Disabled=0 Enabled if Gen Breaker Closed=1 Enable Always=2
Bias Control	Ramped Watt Demand Per Unit	GG	2100	Float	4	R W	n/a	n/a
Bias Control	Watt Demand Per Unit	GG	2102	Float	4	R W	n/a	n/a
Bias Control	Ramped var Demand Per Unit	GG	2104	Float	4	R W	n/a	n/a
Bias Control	AVR Inner Controller Output	GG	2106	Float	4	R W	n/a	n/a
Bias Control	AVR Outer Controller Output	GG	2108	Float	4	R W	n/a	n/a
Bias Control	GOV Inner Controller Output	GG	2110	Float	4	R W	n/a	n/a
Bias Control	GOV Outer Controller Output	GG	2112	Float	4	R W	n/a	n/a
Bias Control	GOV Inner Controller Error	GG	2114	Float	4	R W	n/a	n/a
Bias Control	GOV Outer Controller Error	GG	2116	Float	4	R W	n/a	n/a
Bias Control	Speed Trim Setpoint	GG	2118	Float	4	R W	Hertz	47 - 100
Bias Control	var Control Enabled	GG	2120	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Bias Control	kvar Load Rate	GG	2122	Float	4	R W	Percent	0 - 100

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Bias Control	kW Setpoint Source	GG	2124	Uint32	4	R W	n/a	User Setting=0 Local Analog Input 1=1 Local Analog Input 2=2 Local Analog Input 3=3 Local Analog Input 4=4 AEM 1 Analog Input 1=5 AEM 1 Analog Input 2=6 AEM 1 Analog Input 3=7 AEM 1 Analog Input 4=8 AEM 1 Analog Input 5=9 AEM 1 Analog Input 6=10 AEM 1 Analog Input 7=11 AEM 1 Analog Input 8=12 AEM 2 Analog Input 1=13 AEM 2 Analog Input 2=14 AEM 2 Analog Input 3=15 AEM 2 Analog Input 4=16 AEM 2 Analog Input 5=17 AEM 2 Analog Input 6=18 AEM 2 Analog Input 7=19 AEM 2 Analog Input 8=20 AEM 3 Analog Input 1=21 AEM 3 Analog Input 2=22 AEM 3 Analog Input 3=23 AEM 3 Analog Input 4=24 AEM 3 Analog Input 5=25 AEM 3 Analog Input 6=26 AEM 3 Analog Input 7=27 AEM 3 Analog Input 8=28 AEM 4 Analog Input 1=29 AEM 4 Analog Input 2=30 AEM 4 Analog Input 3=31 AEM 4 Analog Input 4=32 AEM 4 Analog Input 5=33 AEM 4 Analog Input 6=34 AEM 4 Analog Input 7=35 AEM 4 Analog Input 8=36 System Manager=37
Bias Control	kvar Setpoint Source	GG	2126	Uint32	4	R W	n/a	User Setting=0 Local Analog Input 1=1 Local Analog Input 2=2 Local Analog Input 3=3 Local Analog Input 4=4 AEM 1 Analog Input 1=5 AEM 1 Analog Input 2=6 AEM 1 Analog Input 3=7 AEM 1 Analog Input 4=8 AEM 1 Analog Input 5=9 AEM 1 Analog Input 6=10 AEM 1 Analog Input 7=11 AEM 1 Analog Input 8=12 AEM 2 Analog Input 1=13 AEM 2 Analog Input 2=14 AEM 2 Analog Input 3=15 AEM 2 Analog Input 4=16 AEM 2 Analog Input 5=17 AEM 2 Analog Input 6=18 AEM 2 Analog Input 7=19 AEM 2 Analog Input 8=20 AEM 3 Analog Input 1=21 AEM 3 Analog Input 2=22 AEM 3 Analog Input 3=23 AEM 3 Analog Input 4=24 AEM 3 Analog Input 5=25 AEM 3 Analog Input 6=26 AEM 3 Analog Input 7=27 AEM 3 Analog Input 8=28 AEM 4 Analog Input 1=29 AEM 4 Analog Input 2=30 AEM 4 Analog Input 3=31 AEM 4 Analog Input 4=32 AEM 4 Analog Input 5=33 AEM 4 Analog Input 6=34 AEM 4 Analog Input 7=35 AEM 4 Analog Input 8=36 System Manager=37

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Bias Control	PF Setpoint Source	GG	2128	UInt32	4	R W	n/a	User Setting=0 Local Analog Input 1=1 Local Analog Input 2=2 Local Analog Input 3=3 Local Analog Input 4=4 AEM 1 Analog Input 1=5 AEM 1 Analog Input 2=6 AEM 1 Analog Input 3=7 AEM 1 Analog Input 4=8 AEM 1 Analog Input 5=9 AEM 1 Analog Input 6=10 AEM 1 Analog Input 7=11 AEM 1 Analog Input 8=12 AEM 2 Analog Input 1=13 AEM 2 Analog Input 2=14 AEM 2 Analog Input 3=15 AEM 2 Analog Input 4=16 AEM 2 Analog Input 5=17 AEM 2 Analog Input 6=18 AEM 2 Analog Input 7=19 AEM 2 Analog Input 8=20 AEM 3 Analog Input 1=21 AEM 3 Analog Input 2=22 AEM 3 Analog Input 3=23 AEM 3 Analog Input 4=24 AEM 3 Analog Input 5=25 AEM 3 Analog Input 6=26 AEM 3 Analog Input 7=27 AEM 3 Analog Input 8=28 AEM 4 Analog Input 1=29 AEM 4 Analog Input 2=30 AEM 4 Analog Input 3=31 AEM 4 Analog Input 4=32 AEM 4 Analog Input 5=33 AEM 4 Analog Input 6=34 AEM 4 Analog Input 7=35 AEM 4 Analog Input 8=36 System Manager=37
Bias Control	Base Load Analog Max	GG	2130	Float	4	R W	Percent	0 - 100
Bias Control	Base Load Analog Min	GG	2132	Float	4	R W	Percent	0 - 100
Bias Control	kvar Analog Max	GG	2134	Float	4	R W	Percent	-100 - 100
Bias Control	kvar Analog Min	GG	2136	Float	4	R W	Percent	-100 - 100
Bias Control	PF Analog Max	GG	2138	UInt32	4	R W	n/a	160 - 240
Bias Control	PF Analog Min	GG	2140	UInt32	4	R W	n/a	160 - 240
Bias Control	var Droop Percentage	GG	2142	Float	4	R W	Percent	0.5 - 10
Bias Control	Base Load Level	GG	2144	Float	4	R W	Percent	0 - 100
Bias Control	kvar Setpoint	GG	2146	Float	4	R W	Percent	-100 - 100
Bias Control	PF Setpoint	GG	2148	UInt32	4	R W	n/a	160 - 240
Bias Control	var Control Mode	GG	2150	UInt32	4	R W	n/a	var Control=0 PF Control=1
Bias Control	Load Share Interface	GG	2152	UInt32	4	R W	n/a	Load Share Line=0 Ethernet Comms=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Bias Control	Remote Speed Bias Source	GG	2154	UInt32	4	R W	n/a	None=0 Local Analog Input 1=1 Local Analog Input 2=2 Local Analog Input 3=3 Local Analog Input 4=4 AEM 1 Analog Input 1=5 AEM 1 Analog Input 2=6 AEM 1 Analog Input 3=7 AEM 1 Analog Input 4=8 AEM 1 Analog Input 5=9 AEM 1 Analog Input 6=10 AEM 1 Analog Input 7=11 AEM 1 Analog Input 8=12 AEM 2 Analog Input 1=13 AEM 2 Analog Input 2=14 AEM 2 Analog Input 3=15 AEM 2 Analog Input 4=16 AEM 2 Analog Input 5=17 AEM 2 Analog Input 6=18 AEM 2 Analog Input 7=19 AEM 2 Analog Input 8=20 AEM 3 Analog Input 1=21 AEM 3 Analog Input 2=22 AEM 3 Analog Input 3=23 AEM 3 Analog Input 4=24 AEM 3 Analog Input 5=25 AEM 3 Analog Input 6=26 AEM 3 Analog Input 7=27 AEM 3 Analog Input 8=28 AEM 4 Analog Input 1=29 AEM 4 Analog Input 2=30 AEM 4 Analog Input 3=31 AEM 4 Analog Input 4=32 AEM 4 Analog Input 5=33 AEM 4 Analog Input 6=34 AEM 4 Analog Input 7=35 AEM 4 Analog Input 8=36 System Manager=37
Bias Control	Remote Speed Bias Setpoint	GG	2156	Float	4	R W	Percent	0 - 100
BiasControl	KwRampStatus	GG	2158	UInt32	4	R	n/a	Up=0 Down=1 None=2
BiasControl	KvarRampStatus	GG	2160	UInt32	4	R	n/a	Up=0 Down=1 None=2
Bias Control	Speed Bias Output	GG	2162	Float	4	R	n/a	n/a
Bias Control	Voltage Bias Output	GG	2164	Float	4	R	n/a	n/a
Bias Control	Generated kW	GG	2166	Float	4	R	kilowatt	n/a
Bias Control	Generated kvar	GG	2168	Float	4	R	kilovar	n/a
Bias Control	Kvar Ramp Unwind	GG	2170	UInt32	4	R W	Percent	0 - 100
Bias Control	kW Ramp Unwind	GG	2172	UInt32	4	R W	Percent	0 - 100
Independent Meter 1	Var Demand Per Unit	GG	2174	Float	4	R	n/a	n/a
Bias Control	Mains Parallel kW Control Mode	GG	2176	UInt32	4	R W	n/a	Manual=0 Automatic=1
Bias Control	Islanded kW Control Mode	GG	2178	UInt32	4	R W	n/a	Manual=0 Automatic=1
Bias Control	Islanded Base Load Level	GG	2180	Float	4	R W	Percent	0 - 100
Bias Control	Islanded Base Load Analog Max	GG	2182	Float	4	R W	Percent	0 - 100
Bias Control	Islanded Base Load Analog Min	GG	2184	Float	4	R W	Percent	0 - 100

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Bias Control	Islanded kW Setpoint Source	GG	2186	Uint32	4	R W	n/a	User Setting=0 Local Analog In 1=1 Local Analog In 2=2 Local Analog In 3=3 Local Analog In 4=4 AEM 1 Analog In 1=5 AEM 1 Analog In 2=6 AEM 1 Analog In 3=7 AEM 1 Analog In 4=8 AEM 1 Analog In 5=9 AEM 1 Analog In 6=10 AEM 1 Analog In 7=11 AEM 1 Analog In 8=12 AEM 2 Analog In 1=13 AEM 2 Analog In 2=14 AEM 2 Analog In 3=15 AEM 2 Analog In 4=16 AEM 2 Analog In 5=17 AEM 2 Analog In 6=18 AEM 2 Analog In 7=19 AEM 2 Analog In 8=20 AEM 3 Analog In 1=21 AEM 3 Analog In 2=22 AEM 3 Analog In 3=23 AEM 3 Analog In 4=24 AEM 3 Analog In 5=25 AEM 3 Analog In 6=26 AEM 3 Analog In 7=27 AEM 3 Analog In 8=28 AEM 4 Analog In 1=29 AEM 4 Analog In 2=30 AEM 4 Analog In 3=31 AEM 4 Analog In 4=32 AEM 4 Analog In 5=33 AEM 4 Analog In 6=34 AEM 4 Analog In 7=35 AEM 4 Analog In 8=36 System Manager=37
Bias Control	kW Sync Gain	GG	2188	Float	4	R W	n/a	0 - 1000
Bias Control	kvar Sync Gain	GG	2190	Float	4	R W	n/a	0 - 1000
Bias Control	Speed Trim Deadband	GG	2192	Float	4	R W	Hertz	0 - 1
Bias Control	Volt Trim Deadband	GG	2194	Float	4	R W	Percent	0 - 2
Bias Control	kW Parallel To Mains Gain	GG	2196	Float	4	R W	n/a	0 - 1000
Bias Control	kvar Parallel To Mains Gain	GG	2198	Float	4	R W	n/a	0 - 1000
Bias Control	Trim Voltage	GG	2200	Float	4	R W	Volt	0 - 999999
BiasControl	Trim Voltage Override 1	GG	2202	Float	4	R W	Volt	0 - 999999
BiasControl	Trim Voltage Override 2	GG	2204	Float	4	R W	Volt	0 - 999999
BiasControl	Trim Voltage Override 3	GG	2206	Float	4	R W	Volt	0 - 999999
BiasControl	Trim Voltage Override 4	GG	2208	Float	4	R W	Volt	0 - 999999
BiasControl	Voltage Trim Setpoint Source	GG	2210	Uint32	4	R W		Rated Voltage=0 Trim Volt Setting=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
BiasControl	Remote Voltage Trim Bias	GG	2212	UInt32	4	R W		None=0 Local Analog In 1=1 Local Analog In 2=2 Local Analog In 3=3 Local Analog In 4=4 AEM 1 Analog In 1=5 AEM 1 Analog In 2=6 AEM 1 Analog In 3=7 AEM 1 Analog In 4=8 AEM 1 Analog In 5=9 AEM 1 Analog In 6=10 AEM 1 Analog In 7=11 AEM 1 Analog In 8=12 AEM 2 Analog In 1=13 AEM 2 Analog In 2=14 AEM 2 Analog In 3=15 AEM 2 Analog In 4=16 AEM 2 Analog In 5=17 AEM 2 Analog In 6=18 AEM 2 Analog In 7=19 AEM 2 Analog In 8=20 AEM 3 Analog In 1=21 AEM 3 Analog In 2=22 AEM 3 Analog In 3=23 AEM 3 Analog In 4=24 AEM 3 Analog In 5=25 AEM 3 Analog In 6=26 AEM 3 Analog In 7=27 AEM 3 Analog In 8=28 AEM 4 Analog In 1=29 AEM 4 Analog In 2=30 AEM 4 Analog In 3=31 AEM 4 Analog In 4=32 AEM 4 Analog In 5=33 AEM 4 Analog In 6=34 AEM 4 Analog In 7=35 AEM 4 Analog In 8=36 System Manager=37
BiasControl	Remote Voltage Trim Bias Range Percent	GG	2214	Float	4	R W	Percent	0 - 100
BiasControl	Breaker Open Delay	GG	2216	UInt32	4	R W	Decisecond	0 - 600
BiasControl	kW Droop Offset Percent	GG	2218	Float	4	R W	Percent	0 or 0.5 - 10
BiasControl	kvar Droop Offset Percent	GG	2220	Float	4	R W	Percent	0 or 0.5 - 10
BiasControl	AVR Inner Controller Error	GG	2222	Float	4	R	n/a	n/a
BiasControl	AVR Outer Controller Error	GG	2224	Float	4	R	n/a	n/a
BiasControl	Load Anticipation Enable	GG	2226	UInt32	4	R W	n/a	Disabled=0, Enabled=1
BiasControl	Load Anticipation, Tla Washout Filter Constant	GG	2228	Float	4	R W	n/a	0 - 10
BiasControl	Load Anticipation, Tld Lead Filter Constant	GG	2230	Float	4	R W	n/a	0 - 10
BiasControl	Load Anticipation, Tlg Lag Filter Constant	GG	2232	Float	4	R W	n/a	0 - 10
BiasControl	Load Anticipation, Power Deadband	GG	2234	Float	4	R W	n/a	0 - 1
BiasControl	Load Anticipation, Kla Gain	GG	2236	Float	4	R W	n/a	0 - 1000
BiasControl	Load Anticipation, Max Limit	GG	2238	Float	4	R W	n/a	0 - 10
BiasControl	Load Anticipation, Min Limit	GG	2240	Float	4	R W	n/a	-10 - 0
BiasControl	PF Setpoint Max	GG	2242	UInt32	4	R W	n/a	160 - 240
BiasControl	PF Setpoint Min	GG	2244	UInt32	4	R W	n/a	160 - 240
BiasControl	PF Pre-position 1	GG	2246	UInt32	4	R W	n/a	160 - 240
BiasControl	PF Pre-position 2	GG	2248	UInt32	4	R W	n/a	160 - 240
BiasControl	PF Pre-position 3	GG	2250	UInt32	4	R W	n/a	160 - 240
BiasControl	PF Pre-position 4	GG	2252	UInt32	4	R W	n/a	160 - 240
BiasControl	PF Pre-position 5	GG	2254	UInt32	4	R W	n/a	160 - 240
BiasControl	Voltage Trim Droop Percent	GG	2256	Float	4	R W	Percent	0.5 - 10

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
BiasControl	Voltage Trim Droop Offset	GG	2258	Float	4	R W	Percent	0 - 10
BiasControl	Speed Trim Droop Percent	GG	2260	Float	4	R W	Percent	0.5 - 10
BiasControl	Speed Trim Droop Offset	GG	2262	Float	4	R W	Percent	0 - 10
VRM Controller Settings	Operating Mode	GG	18000	Uint32	4	R	n/a	AVR=0, FCR=1
VRM Controller Settings	Rated Field Current Full Load	GG	18002	Float	4	R W	Amp	0.1 - 3.5
VRM Controller Settings	Rated Field Current No Load	GG	18004	Float	4	R W	Amp	0.1 - 3.5
VRM Controller Settings	Rated Field Voltage Full Load	GG	18006	Float	4	R W	Volt	1 - 120
VRM Controller Settings	Rated Field Voltage No Load	GG	18008	Float	4	R W	Volt	1 - 120
VRM Controller Settings	Avr Setpoint	GG	18010	Float	4	R W	Volt	1 - 999999
VRM Controller Settings	Avr Min Setpoint Limit	GG	18012	Float	4	R W	Percent	50 - 200
VRM Controller Settings	Avr Max Setpoint Limit	GG	18014	Float	4	R W	Percent	50 - 200
VRM Controller Settings	Avr Ramp Rate	GG	18016	Float	4	R W	Percent Per Second	0.1 - 100
VRM Controller Settings	Avr Pre-position 1	GG	18018	Float	4	R W	Volt	1 - 999999
VRM Controller Settings	Avr Pre-pos Ramp Rate 1	GG	18020	Float	4	R W	Percent Per Second	0 - 100
VRM Controller Settings	Avr Pre-position 2	GG	18022	Float	4	R W	Volt	1 - 999999
VRM Controller Settings	Avr Pre-pos Ramp Rate 2	GG	18024	Float	4	R W	Percent Per Second	0 - 100
VRM Controller Settings	Avr Pre-position 3	GG	18026	Float	4	R W	Volt	1 - 999999
VRM Controller Settings	Avr Pre-pos Ramp Rate 3	GG	18028	Float	4	R W	Percent Per Second	0 - 100
VRM Controller Settings	Avr Pre-position 4	GG	18030	Float	4	R W	Volt	1 - 999999
VRM Controller Settings	Avr Pre-pos Ramp Rate 4	GG	18032	Float	4	R W	Percent Per Second	0 - 100
VRM Controller Settings	Avr Pre-position 5	GG	18034	Float	4	R W	Volt	1 - 999999
VRM Controller Settings	Avr Pre-pos Ramp Rate 5	GG	18036	Float	4	R W	Percent Per Second	0 - 100

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
VRM Controller Settings	Avr Analog Input Source	GG	18038	Uint32	4	R W		None=0, Local Analog Input 1=1, Local Analog Input 2=2, Local Analog Input 3=3, Local Analog Input 4=4, AEM 1 Analog In 1=5, AEM 1 Analog In 2=6, AEM 1 Analog In 3=7, AEM 1 Analog In 4=8, AEM 1 Analog In 5=9, AEM 1 Analog In 6=10, AEM 1 Analog In 7=11, AEM 1 Analog In 8=12, AEM 2 Analog In 1=13, AEM 2 Analog In 2=14, AEM 2 Analog In 3=15, AEM 2 Analog In 4=16, AEM 2 Analog In 5=17, AEM 2 Analog In 6=18, AEM 2 Analog In 7=19, AEM 2 Analog In 8=20, AEM 3 Analog In 1=21, AEM 3 Analog In 2=22, AEM 3 Analog In 3=23, AEM 3 Analog In 4=24, AEM 3 Analog In 5=25, AEM 3 Analog In 6=26, AEM 3 Analog In 7=27, AEM 3 Analog In 8=28, AEM 4 Analog In 1=29, AEM 4 Analog In 2=30, AEM 4 Analog In 3=31, AEM 4 Analog In 4=32, AEM 4 Analog In 5=33, AEM 4 Analog In 6=34, AEM 4 Analog In 7=35, AEM 4 Analog In 8=36, System Manager=37
VRM Controller Settings	Avr Analog Bias Max	GG	18040	Float	4	R W	Percent	-100 - 100
VRM Controller Settings	Avr Analog Bias Min	GG	18042	Float	4	R W	Percent	-100 - 100
VRM Controller Settings	Avr Analog Bias Limited	GG	18044	Uint32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	Avr Kp	GG	18046	Float	4	R W	n/a	0 - 1000
VRM Controller Settings	Avr Ki	GG	18048	Float	4	R W	n/a	0 - 1000
VRM Controller Settings	Avr Kd	GG	18050	Float	4	R W	n/a	0 - 1000
VRM Controller Settings	Avr Td	GG	18052	Float	4	R W	n/a	0 - 1
VRM Controller Settings	Avr Ka	GG	18054	Float	4	R W	n/a	0 - 1
VRM Controller Settings	Fcr Setpoint	GG	18056	Float	4	R W	Amp	0 - 3.5
VRM Controller Settings	Fcr Min Setpoint Limit	GG	18058	Float	4	R W	Percent	0 - 200
VRM Controller Settings	Fcr Max Setpoint Limit	GG	18060	Float	4	R W	Percent	0 - 200
VRM Controller Settings	Fcr Ramp Rate	GG	18062	Float	4	R W	Percent Per Second	0.1 - 100
VRM Controller Settings	Fcr Pre-position 1	GG	18064	Float	4	R W	Amp	0 - 3.5
VRM Controller Settings	Fcr Pre-pos Ramp Rate 1	GG	18066	Float	4	R W	Percent Per Second	0 - 100
VRM Controller Settings	Fcr Pre-position 2	GG	18068	Float	4	R W	Amp	0 - 3.5
VRM Controller Settings	Fcr Pre-pos Ramp Rate 2	GG	18070	Float	4	R W	Percent Per Second	0 - 100
VRM Controller Settings	Fcr Pre-position 3	GG	18072	Float	4	R W	Amp	0 - 3.5
VRM Controller Settings	Fcr Pre-pos Ramp Rate 3	GG	18074	Float	4	R W	Percent Per Second	0 - 100
VRM Controller Settings	Fcr Pre-position 4	GG	18076	Float	4	R W	Amp	0 - 3.5
VRM Controller Settings	Fcr Pre-pos Ramp Rate 4	GG	18078	Float	4	R W	Percent Per Second	0 - 100

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
VRM Controller Settings	Fcr Pre-position 5	GG	18080	Float	4	R W	Amp	0 - 3.5
VRM Controller Settings	Fcr Pre-pos Ramp Rate 5	GG	18082	Float	4	R W	Percent Per Second	0 - 100
VRM Controller Settings	Fcr Analog Input Source	GG	18084	Uint32	4	R W	n/a	None=0, Local Analog Input 1=1, Local Analog Input 2=2, Local Analog Input 3=3, Local Analog Input 4=4, AEM 1 Analog In 1=5, AEM 1 Analog In 2=6, AEM 1 Analog In 3=7, AEM 1 Analog In 4=8, AEM 1 Analog In 5=9, AEM 1 Analog In 6=10, AEM 1 Analog In 7=11, AEM 1 Analog In 8=12, AEM 2 Analog In 1=13, AEM 2 Analog In 2=14, AEM 2 Analog In 3=15, AEM 2 Analog In 4=16, AEM 2 Analog In 5=17, AEM 2 Analog In 6=18, AEM 2 Analog In 7=19, AEM 2 Analog In 8=20, AEM 3 Analog In 1=21, AEM 3 Analog In 2=22, AEM 3 Analog In 3=23, AEM 3 Analog In 4=24, AEM 3 Analog In 5=25, AEM 3 Analog In 6=26, AEM 3 Analog In 7=27, AEM 3 Analog In 8=28, AEM 4 Analog In 1=29, AEM 4 Analog In 2=30, AEM 4 Analog In 3=31, AEM 4 Analog In 4=32, AEM 4 Analog In 5=33, AEM 4 Analog In 6=34, AEM 4 Analog In 7=35, AEM 4 Analog In 8=36, System Manager=37
VRM Controller Settings	Fcr Analog Bias Max	GG	18086	Float	4	R W	Percent	-100 - 100
VRM Controller Settings	Fcr Analog Bias Min	GG	18088	Float	4	R W	Percent	-100 - 100
VRM Controller Settings	Fcr Analog Bias Limited	GG	18090	Uint32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	Fcr Kp	GG	18092	Float	4	R W	n/a	0 - 1000
VRM Controller Settings	Fcr Ki	GG	18094	Float	4	R W	n/a	0 - 1000
VRM Controller Settings	Fcr Kd	GG	18096	Float	4	R W	n/a	0 - 1000
VRM Controller Settings	Fcr Td	GG	18098	Float	4	R W	n/a	0 - 1
VRM Controller Settings	Fcr Ka	GG	18100	Float	4	R W	n/a	0 - 1
VRM Controller Settings	Droop Enabled	GG	18102	Uint32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	Droop Ref	GG	18104	Float	4	R W	Percent	0 - 30
VRM Controller Settings	Line Drop Enabled	GG	18106	Uint32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	Line Drop Ref	GG	18108	Float	4	R W	Percent	0 - 30
VRM Controller Settings	Cross Current Enabled	GG	18110	Uint32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	Cross Current Ref	GG	18112	Float	4	R W	Percent	-30 - 30
VRM Controller Settings	Cross Current CT Connection	GG	18114	Uint32	4	R W	n/a	A=0 B=1 C=2
VRM Controller Settings	OEL Mode	GG	18116	Uint32	4	R W	n/a	Disabled=0 Summing Point=1 Takeover=2
VRM Controller Settings	OEL Summing Offline High Level	GG	18118	Float	4	R W	Amp	0 - 3.5
VRM Controller Settings	OEL Summing Offline High Time	GG	18120	Float	4	R W	Second Time	0 - 120

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
VRM Controller Settings	OEL Summing Offline Low Level	GG	18122	Float	4	R W	Amp	0 - 3.5
VRM Controller Settings	OEL Summing Online DVDt Enabled	GG	18124	UInt32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	OEL Summing Online DVDt Level	GG	18126	Float	4	R W	n/a	-10 - 0
VRM Controller Settings	OEL Summing Online High Level	GG	18128	Float	4	R W	Amp	0 - 3.5
VRM Controller Settings	OEL Summing Online High Time	GG	18130	Float	4	R W	Second Time	0 - 120
VRM Controller Settings	OEL Summing Online Mid Level	GG	18132	Float	4	R W	Amp	0 - 3.5
VRM Controller Settings	OEL Summing Online Mid Time	GG	18134	Float	4	R W	Second Time	0 - 120
VRM Controller Settings	OEL Summing Online Low Level	GG	18136	Float	4	R W	Amp	0 - 3.5
VRM Controller Settings	OEL Takeover Offline High	GG	18138	Float	4	R W	Amp	0 - 3.5
VRM Controller Settings	OEL Takeover Offline Low	GG	18140	Float	4	R W	Amp	0 - 3.5
VRM Controller Settings	OEL Takeover Offline TD	GG	18142	Float	4	R W	n/a	0.1 - 20
VRM Controller Settings	OEL Takeover Offline RC	GG	18144	Float	4	R W	n/a	0.01 - 100
VRM Controller Settings	OEL Takeover Offline Reset Method	GG	18146	UInt32	4	R W	n/a	Inverse Timing=0 Integrating=1 Instantaneous=2
VRM Controller Settings	OEL Takeover Online High	GG	18148	Float	4	R W	Amp	0 - 3.5
VRM Controller Settings	OEL Takeover Online Low	GG	18150	Float	4	R W	Amp	0 - 3.5
VRM Controller Settings	OEL Takeover Online TD	GG	18152	Float	4	R W	n/a	0.1 - 20
VRM Controller Settings	OEL Takeover Online RC	GG	18154	Float	4	R W	n/a	0.01 - 100
VRM Controller Settings	OEL Takeover Online Reset Method	GG	18156	UInt32	4	R W	n/a	Inverse Timing=0 Integrating=1 Instantaneous=2
VRM Controller Settings	OEL Takeover Ki	GG	18158	Float	4	R W	n/a	0 - 1000
VRM Controller Settings	OEL Takeover Kg	GG	18160	Float	4	R W	n/a	0 - 1000
VRM Controller Settings	UEL Enabled	GG	18162	UInt32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	UEL Real Power Filter	GG	18164	Float	4	R W	Second Time	0 - 20
VRM Controller Settings	UEL Curve Type Selection	GG	18166	UInt32	4	R W	n/a	Internal=0 Custom=1
VRM Controller Settings	UEL Internal Curve Constant	GG	18168	Float	4	R W	KiloVar	0 - 1000000
VRM Controller Settings	UEL Curve KW 1	GG	18170	Float	4	R W	KiloWatt	0 - 1000000
VRM Controller Settings	UEL Curve Kvar 1	GG	18172	Float	4	R W	KiloVar	0 - 1000000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
VRM Controller Settings	UEL Curve KW 2	GG	18174	Float	4	R W	KiloWatt	0 - 1000000
VRM Controller Settings	UEL Curve Kvar 2	GG	18176	Float	4	R W	KiloVar	0 - 1000000
VRM Controller Settings	UEL Curve KW 3	GG	18178	Float	4	R W	KiloWatt	0 - 1000000
VRM Controller Settings	UEL Curve Kvar 3	GG	18180	Float	4	R W	KiloVar	0 - 1000000
VRM Controller Settings	UEL Curve KW 4	GG	18182	Float	4	R W	KiloWatt	0 - 1000000
VRM Controller Settings	UEL Curve Kvar 4	GG	18184	Float	4	R W	KiloVar	0 - 1000000
VRM Controller Settings	UEL Curve KW 5	GG	18186	Float	4	R W	KiloWatt	0 - 1000000
VRM Controller Settings	UEL Curve Kvar 5	GG	18188	Float	4	R W	KiloVar	0 - 1000000
VRM Controller Settings	UEL Ki	GG	18190	Float	4	R W	n/a	0 - 1000
VRM Controller Settings	UEL Kg	GG	18192	Float	4	R W	n/a	0 - 1000
VRM Controller Settings	Underfrequency Limiter Mode	GG	18194	UInt32	4	R W	n/a	Disabled=0 Underfrequency=1 V/Hz=2
VRM Controller Settings	Underfrequency Minimum Voltage	GG	18196	Float	4	R W	Volt	1 - 999999
VRM Controller Settings	Underfrequency Shutdown Frequency	GG	18198	Float	4	R W	Hertz	0;10 - 75
VRM Controller Settings	Underfrequency Mode Corner 1	GG	18200	Float	4	R W	Hertz	10 - 75
VRM Controller Settings	Underfrequency Mode Corner 2	GG	18202	Float	4	R W	Hertz	10 - 75
VRM Controller Settings	Underfrequency Mode Slope 1	GG	18204	Float	4	R W	n/a	0 - 3
VRM Controller Settings	Underfrequency Mode Slope 2	GG	18206	Float	4	R W	n/a	0 - 3
VRM Controller Settings	V/Hz Mode High Limiter	GG	18208	Float	4	R W	n/a	0 - 3
VRM Controller Settings	V/Hz Mode High Time	GG	18210	Float	4	R W	Second Time	0 - 10
VRM Controller Settings	V/Hz ModeLowLimiter	GG	18212	Float	4	R W	n/a	0 - 3
VRM Controller Settings	Internal Tracking Enabled	GG	18214	UInt32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	Auto Tracking Time Delay	GG	18216	Float	4	R W	Second Time	0 - 8
VRM Controller Settings	Auto Tracking Ramp Rate	GG	18218	Float	4	R W	Percent Per Second	0.1 - 100
VRM Controller Settings	Soft Start Bias	GG	18220	Float	4	R W	Percent	0 - 90
VRM Controller Settings	Soft Start Time	GG	18222	Float	4	R W	Second Time	1 - 7200
VRM Controller Settings	Pre-position 1 Enable	GG	18224	UInt32	4	R W	n/a	Disabled=0 Enabled=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
VRM Controller Settings	Pre-position 2 Enable	GG	18226	UInt32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	Pre-position 3 Enable	GG	18228	UInt32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	Pre-position 4 Enable	GG	18230	UInt32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	Pre-position 5 Enable	GG	18232	UInt32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	Start Enable	GG	18234	UInt32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	Stop Enable	GG	18236	UInt32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	Loss Of Sensing Transfer To Fcr	GG	18238	UInt32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	Avr Enable	GG	18240	UInt32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	Fcr Enable	GG	18242	UInt32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	Gen Below 10 Hz Pre-Alarm Enable	GG	18244	UInt32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	Avr Auto Save	GG	18246	UInt32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	Fcr Auto Save	GG	18248	UInt32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	Setpoint fine raise	GG	18250	UInt32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	Setpoint fine lower	GG	18252	UInt32	4	R W	n/a	Disabled=0 Enabled=1
VRM Controller Settings	GainOption	GG	18254	UInt32	4	R W	n/a	T'do=1.0 Te=0.17=1 T'do=1.5 Te=0.25=2 T'do=2.0 Te=0.33=3 T'do=2.5 Te=0.42=4 T'do=3.0 Te=0.50=5 T'do=3.5 Te=0.58=6 T'do=4.0 Te=0.67=7 T'do=4.5 Te=0.75=8 T'do=5.0 Te=0.83=9 T'do=5.5 Te=0.92=10 T'do=6.0 Te=1.00=11 T'do=6.5 Te=1.08=12 T'do=7.0 Te=1.17=13 T'do=7.5 Te=1.25=14 T'do=8.0 Te=1.33=15 T'do=8.5 Te=1.42=16 T'do=9.0 Te=1.50=17 T'do=9.5 Te=1.58=18 T'do=10.0 Te=1.67=19 T'do=10.5 Te=1.75=20 Custom=21
VRM Controller Settings	Outer Loop Bias Gain	GG	18256	Float	4	R W	n/a	0 - 1000
VRM Controller Settings	Outer Loop Bias Limit	GG	18258	Float	4	R W	Percent	0 - 100
VRM Controller Settings	OEL Takeover Filter Time Constant	GG	18260	Float	4	R W	n/a	0 - 100
VRM Controller Settings	OEL Takeover Activation Delay	GG	18262	Float	4	R W	Second Time	0 - 100
VRM Controller Settings	OEL Takeover Hysteresis	GG	18264	Float	4	R W	Percent	0.1 - 100
VRM Controller Settings	OEL Summing Ki	GG	18266	Float	4	R W	n/a	0 - 1000
VRM Controller Settings	OEL Summing Kg	GG	18268	Float	4	R W	n/a	0 - 1000



Breaker Settings Register Table

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
81-1	Open Mains Breaker On Trip	SG0	2500	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-1	Open Mains Breaker On Trip	SG1	2502	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-1	Open Mains Breaker On Trip	SG2	2504	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-1	Open Mains Breaker On Trip	SG3	2506	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-2	Open Mains Breaker On Trip	SG0	2508	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-2	Open Mains Breaker On Trip	SG1	2510	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-2	Open Mains Breaker On Trip	SG2	2512	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-2	Open Mains Breaker On Trip	SG3	2514	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-3	Open Mains Breaker On Trip	SG0	2516	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-3	Open Mains Breaker On Trip	SG1	2518	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-3	Open Mains Breaker On Trip	SG2	2520	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-3	Open Mains Breaker On Trip	SG3	2522	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-4	Open Mains Breaker On Trip	SG0	2524	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-4	Open Mains Breaker On Trip	SG1	2526	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-4	Open Mains Breaker On Trip	SG2	2528	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-4	Open Mains Breaker On Trip	SG3	2530	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-5	Open Mains Breaker On Trip	SG0	2532	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-5	Open Mains Breaker On Trip	SG1	2534	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-5	Open Mains Breaker On Trip	SG2	2536	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-5	Open Mains Breaker On Trip	SG3	2538	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-6	Open Mains Breaker On Trip	SG0	2540	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-6	Open Mains Breaker On Trip	SG1	2542	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-6	Open Mains Breaker On Trip	SG2	2544	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-6	Open Mains Breaker On Trip	SG3	2546	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-7	Open Mains Breaker On Trip	SG0	2548	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-7	Open Mains Breaker On Trip	SG1	2550	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-7	Open Mains Breaker On Trip	SG2	2552	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-7	Open Mains Breaker On Trip	SG3	2554	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-8	Open Mains Breaker On Trip	SG0	2556	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-8	Open Mains Breaker On Trip	SG1	2558	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-8	Open Mains Breaker On Trip	SG2	2560	UInt32	4	R W	n/a	Disabled=0 Enabled=1
81-8	Open Mains Breaker On Trip	SG3	2562	UInt32	4	R W	n/a	Disabled=0 Enabled=1
78-1	Open Mains Breaker On Trip	SG0	2564	UInt32	4	R W	n/a	Disabled=0 Enabled=1
78-1	Open Mains Breaker On Trip	SG1	2566	UInt32	4	R W	n/a	Disabled=0 Enabled=1
78-1	Open Mains Breaker On Trip	SG2	2568	UInt32	4	R W	n/a	Disabled=0 Enabled=1
78-1	Open Mains Breaker On Trip	SG3	2570	UInt32	4	R W	n/a	Disabled=0 Enabled=1
78-2	Open Mains Breaker On Trip	SG0	2572	UInt32	4	R W	n/a	Disabled=0 Enabled=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
78-2	Open Mains Breaker On Trip	SG1	2574	Uint32	4	R W	n/a	Disabled=0 Enabled=1
78-2	Open Mains Breaker On Trip	SG2	2576	Uint32	4	R W	n/a	Disabled=0 Enabled=1
78-2	Open Mains Breaker On Trip	SG3	2578	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Breaker Management	Dead Bus Close Enable	GG	2580	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Breaker Management	Dead Gen Close Enable	GG	2582	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Breaker Management	In Phase Monitor Enable	GG	2584	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Breaker Management	Breaker Close Wait Time	GG	2586	Uint32	4	R W	Millisecond	100 - 600000
Breaker Management	Close Fail Pre-Alarm Enable	GG	2588	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Breaker Management	Open Fail Pre-Alarm Enable	GG	2590	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Breaker Management	Close Fail Pre-Alarm Monitor	GG	2592	Uint32	4	R W	n/a	Transition Only=0 Always=1
Breaker Management	Open Fail Pre-Alarm Monitor	GG	2594	Uint32	4	R W	n/a	Transition Only=0 Always=1
Breaker Management	Mains Breaker Bus Live Close Enable	GG	2596	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Breaker Management	Breaker System Config	GG	2598	Uint32	4	R W	n/a	None=0 GB=1 GB-MB=2 GB-MB with Load Sensing=3 GB-GGB=4 GB-GGB w/Load Sensing=5 GB-GGB-MB=6 GB-System Bus=7 GB-GGB-System Bus=8 TB=9 GB-TB=10 TB-TB=11
Sync	Sync Fail Pre-Alarm Enable	GG	2600	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Sync	Source Volt Greater Than Destination Volt	GG	2602	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Sync	Voltage Difference	GG	2604	Float	4	R W	Percent	2 - 15
Sync	Synchronizer Type	GG	2606	Uint32	4	R W	n/a	Anticipatory=0 Phase Lock Loop=1
Sync	Volt Error Gain	GG	2608	Float	4	R W	n/a	0.001 - 1000
Sync	Speed Error Gain	GG	2610	Float	4	R W	n/a	0.001 - 1000
Sync	Max Slip Control Limit	GG	2612	Float	4	R W	Hertz	0 - 2
Sync	Min Slip Control Limit	GG	2614	Float	4	R W	Hertz	0 - 2
Sync	Slip Frequency	GG	2616	Float	4	R W	Hertz	0.01 - 0.5
Sync	Source Freq Greater Than Destination Freq	GG	2618	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Sync	Closing Angle	GG	2620	Float	4	R W	Degree	3 - 20
Sync	Sync Fail Activation Delay	GG	2622	Uint32	4	R W	Millisecond	100 - 600000
Sync	Activation Delay	GG	2624	Uint32	4	R W	Millisecond	100 - 800
Sync	Sync Mode	GG	2626	Uint32	4	R W	n/a	Sync Active=0 Sync Check=1 Sync Only=2
Generator Breaker	Continuous Output	GG	2628	Uint32	4	R W	n/a	Pulse=0 Continuous=1
Generator Breaker	Open Pulse Time	GG	2630	Uint32	4	R W	Millisecond	10 - 10000
Generator Breaker	Close Pulse Time	GG	2632	Uint32	4	R W	Millisecond	10 - 10000
Generator Breaker	Breaker Close Time	GG	2634	Uint32	4	R W	Millisecond	0 - 1000
Generator Breaker	Configured	GG	2636	Uint32	4	R W	n/a	Not Configured=0 Configured=1
Generator Breaker	Source Bus	GG	2638	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
Generator Breaker	Destination Bus	GG	2640	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
Generator Breaker	Transition Delay	GG	2642	Float	4	R W	Second	0 - 10
Generator Breaker	External Status Change Action	GG	2644	Uint32	4	R W	n/a	Ignore=0 Follow Always=1 Follow In Auto=2
Generator Breaker	Open Attempts	GG	2646	Uint32	4	R W	n/a	1 - 20
Generator Breaker	Close Attempts	GG	2648	Uint32	4	R W	n/a	1 - 20
Generator Breaker	Retry Delay	GG	2650	Uint32	4	R W	Second	0 - 1200

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Generator Breaker	Fail Output Config	GG	2652	Uint32	4	R W	n/a	Retain=0 Remove=1
Mains Breaker	Continuous Output	GG	2654	Uint32	4	R W	n/a	Pulse=0 Continuous=1
Mains Breaker	Open Pulse Time	GG	2656	Uint32	4	R W	Millisecond	10 - 10000
Mains Breaker	Close Pulse Time	GG	2658	Uint32	4	R W	Millisecond	10 - 10000
Mains Breaker	Breaker Close Time	GG	2660	Uint32	4	R W	Millisecond	0 - 1000
Mains Breaker	Configured	GG	2662	Uint32	4	R W	n/a	Not Configured=0 Configured=1
Mains Breaker	Source Bus	GG	2664	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
Mains Breaker	Destination Bus	GG	2666	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
Mains Breaker	Transition Delay	GG	2668	Float	4	R W	Second	0 - 10
Mains Breaker	External Status Change Action	GG	2670	Uint32	4	R W	n/a	Ignore=0 Follow Always=1 Follow In Auto=2
Mains Breaker	Open Attempts	GG	2672	Uint32	4	R W	n/a	1 - 20
Mains Breaker	Close Attempts	GG	2674	Uint32	4	R W	n/a	1 - 20
Mains Breaker	Retry Delay	GG	2676	Uint32	4	R W	Second	0 - 1200
Mains Breaker	Fail Output Config	GG	2678	Uint32	4	R W	n/a	Retain=0 Remove=1
Breaker Local Request Generation	Transfer Enabled	GG	2680	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Breaker Local Request Generation	Closed Transfer Enabled	GG	2682	Uint32	4	R W	n/a	Open=0 Closed=1
Breaker Local Request Generation	Reverse Rotation Mains Fail Transfer Inhibit	GG	2684	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Breaker Local Request Generation	Return Delay	GG	2686	Uint32	4	R W	Second	0 - 1800
Breaker Local Request Generation	Transfer Delay	GG	2688	Uint32	4	R W	Second	0 - 300
Breaker Local Request Generation	Max Transfer Time	GG	2690	Uint32	4	R W	Second	10 - 120
Breaker Local Request Generation	Max Parallel Time	GG	2692	Uint32	4	R W	Decisecond	1 - 100000
Breaker Local Request Generation	Alarm State Transfer To Mains	GG	2694	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Breaker Local Request Generation	Mains Breaker Open Config	GG	2696	Uint32	4	R W	n/a	Generator Start=0 Generator Stable=1
Breaker Local Request Generation	Mains Zero Power Flow Level	GG	2698	Uint32	4	R W	Percent	1 - 100
Breaker Local Request Generation	Open Transition Delay	GG	2700	Uint32	4	R W	Decisecond	0 - 100,000
Breaker Local Request Generation	Transfer Delay Timer	GG	2702	Uint32	4	R	Second	0 - 300
Breaker Local Request Generation	Mains Transfer State	GG	2704	Uint32	4	R	n/a	Start=0 Trans to Disabled=1 Disabled=2 Transf Tmr Active=3 Transfer To Gens=4 Power From Gens=5 Return Timer Active=6 Transfer To Mains=7 Power From Mains=8
Breaker Local Request Generation	Open Transition Delay Timer	GG	2706	Uint32	4	R	Decisecond	0 - 36000
Breaker Local Request Generation	Return Delay Timer	GG	2708	Uint32	4	R	Second	0 - 1800
Breaker Local Request Generation	Max Transfer Time Timer	GG	2710	Uint32	4	R	Second	0 - 10
Breaker Local Request Generation	Max Parallel Time Timer	GG	2712	Uint32	4	R	Decisecond	1 - 100000
Breaker Local Request Generation	Max Return Time Timer	GG	2714	Uint32	4	R	Second	0 - 10
81-1	Open Group Breaker On Trip	SG0	2716	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-1	Open Group Breaker On Trip	SG1	2718	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-1	Open Group Breaker On Trip	SG2	2720	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-1	Open Group Breaker On Trip	SG3	2722	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-2	Open Group Breaker On Trip	SG0	2724	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-2	Open Group Breaker On Trip	SG1	2726	Uint32	4	R W	n/a	Disabled=0 Enabled=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
81-2	Open Group Breaker On Trip	SG2	2728	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-2	Open Group Breaker On Trip	SG3	2730	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-3	Open Group Breaker On Trip	SG0	2732	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-3	Open Group Breaker On Trip	SG1	2734	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-3	Open Group Breaker On Trip	SG2	2736	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-3	Open Group Breaker On Trip	SG3	2738	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-4	Open Group Breaker On Trip	SG0	2740	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-4	Open Group Breaker On Trip	SG1	2742	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-4	Open Group Breaker On Trip	SG2	2744	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-4	Open Group Breaker On Trip	SG3	2746	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-5	Open Group Breaker On Trip	SG0	2748	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-5	Open Group Breaker On Trip	SG1	2750	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-5	Open Group Breaker On Trip	SG2	2752	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-5	Open Group Breaker On Trip	SG3	2754	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-6	Open Group Breaker On Trip	SG0	2756	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-6	Open Group Breaker On Trip	SG1	2758	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-6	Open Group Breaker On Trip	SG2	2760	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-6	Open Group Breaker On Trip	SG3	2762	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-7	Open Group Breaker On Trip	SG0	2764	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-7	Open Group Breaker On Trip	SG1	2766	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-7	Open Group Breaker On Trip	SG2	2768	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-7	Open Group Breaker On Trip	SG3	2770	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-8	Open Group Breaker On Trip	SG0	2772	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-8	Open Group Breaker On Trip	SG1	2774	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-8	Open Group Breaker On Trip	SG2	2776	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-8	Open Group Breaker On Trip	SG3	2778	Uint32	4	R W	n/a	Disabled=0 Enabled=1
78-1	Open Group Breaker On Trip	SG0	2780	Uint32	4	R W	n/a	Disabled=0 Enabled=1
78-1	Open Group Breaker On Trip	SG1	2782	Uint32	4	R W	n/a	Disabled=0 Enabled=1
78-1	Open Group Breaker On Trip	SG2	2784	Uint32	4	R W	n/a	Disabled=0 Enabled=1
78-1	Open Group Breaker On Trip	SG3	2786	Uint32	4	R W	n/a	Disabled=0 Enabled=1
78-2	Open Group Breaker On Trip	SG0	2788	Uint32	4	R W	n/a	Disabled=0 Enabled=1
78-2	Open Group Breaker On Trip	SG1	2790	Uint32	4	R W	n/a	Disabled=0 Enabled=1
78-2	Open Group Breaker On Trip	SG2	2792	Uint32	4	R W	n/a	Disabled=0 Enabled=1
78-2	Open Group Breaker On Trip	SG3	2794	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Breaker Managment	Swap Bus1 Bus2	GG	2796	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Breaker Managment	Group Breaker Bus Live Close Enable	GG	2798	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Breaker Managment	Dead Group Close Enable	GG	2800	Uint32	4	R W	n/a	Disabled=0 Enabled=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Breaker Managment	Active Breaker System Config	GG	2802	Uint32	4	R	n/a	None=0 GB=1 GB-MB=2 GB-MB w/Load Sense=3 GB-GGB=4 GB-GGB w/Load Sense=5 GB-GGB-MB=6 GB-System Bus=7 GB-GGB-System Bus=8 TB=9 GB-TB=10 TB-TB=11
Breaker Managment	Mains Breaker Mains Close Enable	GG	2804	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Breaker Managment	Mains Breaker Open Delay	GG	2806	Uint32	4	R W	Decisecond	0 - 600
Breaker Managment	Group Breaker Open Delay	GG	2808	Uint32	4	R W	Decisecond	0 - 600
Sync	Group Speed Gain	GG	2810	Float	4	R W	n/a	0.001 - 1000
Sync	Group Voltage Gain	GG	2812	Float	4	R W	n/a	0.001 - 1000
Sync	Sync Check Source Volt Greater Than Dest Volt	GG	2814	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Sync	Sync Check Voltage Difference	GG	2816	Float	4	R W	Percent	2 - 15
Sync	Sync Check Synchronizer Type	GG	2818	Uint32	4	R W	n/a	Anticipatory=0 Phase Lock Loop=1
Sync	Sync Check Slip Frequency	GG	2820	Float	4	R W	Hertz	0.01 - 0.5
Sync	Sync Check Source Freq Greater Than Dest Freq	GG	2822	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Sync	Sync Check Closing Angle	GG	2824	Float	4	R W	Degree	3 - 20
Sync	Sync Check Sync Fail ActivationDelay	GG	2826	Uint32	4	R W	Millisecond	100 - 600000
Sync	Sync Check Activation Delay	GG	2828	Uint32	4	R W	Millisecond	100 - 800
Sync	Group Speed Gain	GG	2810	Float	4	R W	n/a	0.001 - 1000
Sync	Group Voltage Gain	GG	2812	Float	4	R W	n/a	0.001 - 1000
Gen Breaker	Phase Angle Compensation	GG	2830	Float	4	R W	Degree	-180 - 180
Mains Breaker	Phase Angle Compensation	GG	2832	Float	4	R W	Degree	-180 - 180
Breaker Local Request Generation	Max Return Time	GG	2834	Uint32	4	R W	Second	0 - 10
Group Breaker	Continuous Output	GG	2836	Uint32	4	R W	n/a	Pulse=0 Continuous=1
Group Breaker	Open Pulse Time	GG	2838	Uint32	4	R W	Millisecond	10 - 10000
Group Breaker	Close Pulse Time	GG	2840	Uint32	4	R W	Millisecond	10 - 10000
Group Breaker	Breaker Close Time	GG	2842	Uint32	4	R W	Millisecond	0 - 1000
Group Breaker	Configured	GG	2844	Uint32	4	R	n/a	Not Configured=0 Configured=1
Group Breaker	Source Bus	GG	2846	Uint32	4	R	n/a	Gen=0 Bus1=1 Bus2=2
Group Breaker	Destination Bus	GG	2848	Uint32	4	R	n/a	Gen=0 Bus1=1 Bus2=2
Group Breaker	Transition Delay	GG	2850	Float	4	R W	Second	0 - 10
Group Breaker	External Status Change Action	GG	2852	Uint32	4	R W	n/a	Ignore=0 Follow Always=1 Follow In Auto=2
Group Breaker	Open Attempts	GG	2854	Uint32	4	R W	n/a	1 - 20
Group Breaker	Close Attempts	GG	2856	Uint32	4	R W	n/a	1 - 20
Group Breaker	Retry Delay	GG	2858	Uint32	4	R W	Second	0 - 1200
Group Breaker	Fail Output Config	GG	2860	Uint32	4	R W	n/a	Retain=0 Remove=1
Group Breaker	Phase Angle Compensation	GG	2862	Float	4	R W	Degree	-180 - 180
Tie Breaker	Continuous Output	GG	2864	Uint32	4	R W		Pulse=0 Continuous=1
Tie Breaker	Open Pulse Time	GG	2866	Uint32	4	R W	Millisecond	10 - 10000
Tie Breaker	Close Pulse Time	GG	2868	Uint32	4	R W	Millisecond	10 - 10000
Tie Breaker	Breaker Close Time	GG	2870	Uint32	4	R W	Millisecond	0 - 1000
Tie Breaker	Configured	GG	2872	Uint32	4	R	n/a	Not Configured=0 Configured=1
Tie Breaker	Source Bus	GG	2874	Uint32	4	R	n/a	Gen=0 Bus1=1 Bus2=2
Tie Breaker	Destination Bus	GG	2876	Uint32	4	R	n/a	Gen=0 Bus1=1 Bus2=2
Tie Breaker	Transition Delay	GG	2878	Float	4	R W	Second	0 - 10
Tie Breaker	External Status Change Action	GG	2880	Uint32	4	R W	n/a	Ignore=0 Follow Always=1 Follow In Auto=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Tie Breaker	Open Attempts	GG	2882	Uint32	4	R W	n/a	1 - 20
Tie Breaker	Close Attempts	GG	2884	Uint32	4	R W	n/a	1 - 20
Tie Breaker	Retry Delay	GG	2886	Uint32	4	R W	Second	0 - 1200
Tie Breaker	Fail Output Config	GG	2888	Uint32	4	R W	n/a	Retain=0 Remove=1
Tie Breaker	Phase Angle Compensation	GG	2890	Float	4	R W	Degree	-180 - 180
81-1	Open Gen Breaker On Trip	SG0	2892	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-1	Open Gen Breaker On Trip	SG1	2894	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-1	Open Gen Breaker On Trip	SG2	2896	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-1	Open Gen Breaker On Trip	SG3	2898	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-2	Open Gen Breaker On Trip	SG0	2900	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-2	Open Gen Breaker On Trip	SG1	2902	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-2	Open Gen Breaker On Trip	SG2	2904	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-2	Open Gen Breaker On Trip	SG3	2906	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-3	Open Gen Breaker On Trip	SG0	2908	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-3	Open Gen Breaker On Trip	SG1	2910	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-3	Open Gen Breaker On Trip	SG2	2912	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-3	Open Gen Breaker On Trip	SG3	2914	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-4	Open Gen Breaker On Trip	SG0	2916	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-4	Open Gen Breaker On Trip	SG1	2918	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-4	Open Gen Breaker On Trip	SG2	2920	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-4	Open Gen Breaker On Trip	SG3	2922	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-5	Open Gen Breaker On Trip	SG0	2924	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-5	Open Gen Breaker On Trip	SG1	2926	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-5	Open Gen Breaker On Trip	SG2	2928	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-5	Open Gen Breaker On Trip	SG3	2930	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-6	Open Gen Breaker On Trip	SG0	2932	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-6	Open Gen Breaker On Trip	SG1	2934	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-6	Open Gen Breaker On Trip	SG2	2936	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-6	Open Gen Breaker On Trip	SG3	2938	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-7	Open Gen Breaker On Trip	SG0	2940	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-7	Open Gen Breaker On Trip	SG1	2942	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-7	Open Gen Breaker On Trip	SG2	2944	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-7	Open Gen Breaker On Trip	SG3	2946	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-8	Open Gen Breaker On Trip	SG0	2948	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-8	Open Gen Breaker On Trip	SG1	2950	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-8	Open Gen Breaker On Trip	SG2	2952	Uint32	4	R W	n/a	Disabled=0 Enabled=1
81-8	Open Gen Breaker On Trip	SG3	2954	Uint32	4	R W	n/a	Disabled=0 Enabled=1
78-1	Open Gen Breaker On Trip	SG0	2956	Uint32	4	R W	n/a	Disabled=0 Enabled=1
78-1	Open Gen Breaker On Trip	SG1	2958	Uint32	4	R W	n/a	Disabled=0 Enabled=1
78-1	Open Gen Breaker On Trip	SG2	2960	Uint32	4	R W	n/a	Disabled=0 Enabled=1
78-1	Open Gen Breaker On Trip	SG3	2962	Uint32	4	R W	n/a	Disabled=0 Enabled=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
78-2	Open Gen Breaker On Trip	SG0	2964	UInt32	4	R W	n/a	Disabled=0 Enabled=1
78-2	Open Gen Breaker On Trip	SG1	2966	UInt32	4	R W	n/a	Disabled=0 Enabled=1
78-2	Open Gen Breaker On Trip	SG2	2968	UInt32	4	R W	n/a	Disabled=0 Enabled=1
78-2	Open Gen Breaker On Trip	SG3	2970	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Tie Breaker 2	Continuous Output	GG	2972	UInt32	4	R W	n/a	Pulse=0 Continuous=1
Tie Breaker 2	Open Pulse Time	GG	2974	UInt32	4	R W	Millisecond	10 - 10000
Tie Breaker 2	Close Pulse Time	GG	2976	UInt32	4	R W	Millisecond	10 - 10000
Tie Breaker 2	Breaker Close Time	GG	2978	UInt32	4	R W	Millisecond	0 - 1000
Tie Breaker 2	Configured	GG	2980	UInt32	4	R	n/a	Not Configured=0 Configured=1
Tie Breaker 2	Source Bus	GG	2982	UInt32	4	R	n/a	Gen=0 Bus1=1 Bus2=2
Tie Breaker 2	Destination Bus	GG	2984	UInt32	4	R	n/a	Gen=0 Bus1=1 Bus2=2
Tie Breaker 2	Transition Delay	GG	2986	Float	4	R W	Second	0 - 10
Tie Breaker 2	External Status Change Action	GG	2988	UInt32	4	R W	n/a	Ignore=0 Follow Always=1 Follow In Auto=2
Tie Breaker 2	Open Attempts	GG	2990	UInt32	4	R W	n/a	1 - 20
Tie Breaker 2	Close Attempts	GG	2992	UInt32	4	R W	n/a	1 - 20
Tie Breaker 2	Retry Delay	GG	2994	UInt32	4	R W	Second	0 - 1200
Tie Breaker 2	Fail Output Config	GG	2996	UInt32	4	R W	n/a	Retain=0 Remove=1
Tie Breaker 2	Phase Angle Compensation	GG	2998	Float	4	R W	Degree	-180 - 180



Bus Condition Register Table

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Gen Condition	Dead Pickup	SG0 1P	3000	Float	4	R W	Volt	0 - 999999
Gen Condition	Dead Time Delay	SG0 1P	3002	Float	4	R W	Second	0.1 - 600
Gen Condition	Stable Undervoltage Pickup	SG0 1P	3004	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Undervoltage Dropout	SG0 1P	3006	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Overvoltage Pickup	SG0 1P	3008	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Overvoltage Dropout	SG0 1P	3010	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Underfrequency Pickup	SG0 1P	3012	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Underfrequency Dropout	SG0 1P	3014	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Overfrequency Pickup	SG0 1P	3016	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Overfrequency Dropout	SG0 1P	3018	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Time Delay	SG0 1P	3020	Float	4	R W	Second	0.1 - 600
Gen Condition	Fail Time Delay	SG0 1P	3022	Float	4	R W	Second	0.1 - 600
Gen Condition	Low-Line Scale	SG0 1P	3024	Float	4	R W	n/a	0.001 - 3
Gen Condition	Alternate Frequency Scale	SG0 1P	3026	Float	4	R W	n/a	0.001 - 100
Gen Condition	Dead Pickup	SG0 3P	3028	Float	4	R W	Volt	0 - 999999
Gen Condition	Dead Time Delay	SG0 3P	3030	Float	4	R W	Second	0.1 - 600
Gen Condition	Stable Undervoltage Pickup	SG0 3P	3032	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Undervoltage Dropout	SG0 3P	3034	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Overvoltage Pickup	SG0 3P	3036	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Overvoltage Dropout	SG0 3P	3038	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Underfrequency Pickup	SG0 3P	3040	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Underfrequency Dropout	SG0 3P	3042	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Overfrequency Pickup	SG0 3P	3044	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Overfrequency Dropout	SG0 3P	3046	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Time Delay	SG0 3P	3048	Float	4	R W	Second	0.1 - 600
Gen Condition	Fail Time Delay	SG0 3P	3050	Float	4	R W	Second	0.1 - 600
Gen Condition	Low-Line Scale	SG0 3P	3052	Float	4	R W	n/a	0.001 - 3
Gen Condition	Alternate Frequency Scale	SG0 3P	3054	Float	4	R W	n/a	0.001 - 100
Gen Condition	Dead Pickup	SG1 1P	3056	Float	4	R W	Volt	0 - 999999
Gen Condition	Dead Time Delay	SG1 1P	3058	Float	4	R W	Second	0.1 - 600
Gen Condition	Stable Undervoltage Pickup	SG1 1P	3060	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Undervoltage Dropout	SG1 1P	3062	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Overvoltage Pickup	SG1 1P	3064	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Overvoltage Dropout	SG1 1P	3066	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Underfrequency Pickup	SG1 1P	3068	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Underfrequency Dropout	SG1 1P	3070	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Overfrequency Pickup	SG1 1P	3072	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Overfrequency Dropout	SG1 1P	3074	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Time Delay	SG1 1P	3076	Float	4	R W	Second	0.1 - 600
Gen Condition	Fail Time Delay	SG1 1P	3078	Float	4	R W	Second	0.1 - 600
Gen Condition	Low-Line Scale	SG1 1P	3080	Float	4	R W	n/a	0.001 - 3
Gen Condition	Alternate Frequency Scale	SG1 1P	3082	Float	4	R W	n/a	0.001 - 100
Gen Condition	Dead Pickup	SG1 3P	3084	Float	4	R W	Volt	0 - 999999
Gen Condition	Dead Time Delay	SG1 3P	3086	Float	4	R W	Second	0.1 - 600
Gen Condition	Stable Undervoltage Pickup	SG1 3P	3088	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Undervoltage Dropout	SG1 3P	3090	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Overvoltage Pickup	SG1 3P	3092	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Overvoltage Dropout	SG1 3P	3094	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Underfrequency Pickup	SG1 3P	3096	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Underfrequency Dropout	SG1 3P	3098	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Overfrequency Pickup	SG1 3P	3100	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Overfrequency Dropout	SG1 3P	3102	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Time Delay	SG1 3P	3104	Float	4	R W	Second	0.1 - 600
Gen Condition	Fail Time Delay	SG1 3P	3106	Float	4	R W	Second	0.1 - 600
Gen Condition	Low-Line Scale	SG1 3P	3108	Float	4	R W	n/a	0.001 - 3
Gen Condition	Alternate Frequency Scale	SG1 3P	3110	Float	4	R W	n/a	0.001 - 100
Gen Condition	Dead Pickup	SG2 1P	3112	Float	4	R W	Volt	0 - 999999
Gen Condition	Dead Time Delay	SG2 1P	3114	Float	4	R W	Second	0.1 - 600
Gen Condition	Stable Undervoltage Pickup	SG2 1P	3116	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Undervoltage Dropout	SG2 1P	3118	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Overvoltage Pickup	SG2 1P	3120	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Overvoltage Dropout	SG2 1P	3122	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Underfrequency Pickup	SG2 1P	3124	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Underfrequency Dropout	SG2 1P	3126	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Overfrequency Pickup	SG2 1P	3128	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Overfrequency Dropout	SG2 1P	3130	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Time Delay	SG2 1P	3132	Float	4	R W	Second	0.1 - 600
Gen Condition	Fail Time Delay	SG2 1P	3134	Float	4	R W	Second	0.1 - 600
Gen Condition	Low-Line Scale	SG2 1P	3136	Float	4	R W	n/a	0.001 - 3
Gen Condition	Alternate Frequency Scale	SG2 1P	3138	Float	4	R W	n/a	0.001 - 100
Gen Condition	Dead Pickup	SG2 3P	3140	Float	4	R W	Volt	0 - 999999

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Gen Condition	Dead Time Delay	SG2 3P	3142	Float	4	R W	Second	0.1 - 600
Gen Condition	Stable Undervoltage Pickup	SG2 3P	3144	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Undervoltage Dropout	SG2 3P	3146	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Overvoltage Pickup	SG2 3P	3148	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Overvoltage Dropout	SG2 3P	3150	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Underfrequency Pickup	SG2 3P	3152	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Underfrequency Dropout	SG2 3P	3154	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Overfrequency Pickup	SG2 3P	3156	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Overfrequency Dropout	SG2 3P	3158	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Time Delay	SG2 3P	3160	Float	4	R W	Second	0.1 - 600
Gen Condition	Fail Time Delay	SG2 3P	3162	Float	4	R W	Second	0.1 - 600
Gen Condition	Low-Line Scale	SG2 3P	3164	Float	4	R W	n/a	0.001 - 3
Gen Condition	Alternate Frequency Scale	SG2 3P	3166	Float	4	R W	n/a	0.001 - 100
Gen Condition	Dead Pickup	SG3 1P	3168	Float	4	R W	Volt	0 - 999999
Gen Condition	Dead Time Delay	SG3 1P	3170	Float	4	R W	Second	0.1 - 600
Gen Condition	Stable Undervoltage Pickup	SG3 1P	3172	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Undervoltage Dropout	SG3 1P	3174	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Overvoltage Pickup	SG3 1P	3176	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Overvoltage Dropout	SG3 1P	3178	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Underfrequency Pickup	SG3 1P	3180	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Underfrequency Dropout	SG3 1P	3182	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Overfrequency Pickup	SG3 1P	3184	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Overfrequency Dropout	SG3 1P	3186	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Time Delay	SG3 1P	3188	Float	4	R W	Second	0.1 - 600
Gen Condition	Fail Time Delay	SG3 1P	3190	Float	4	R W	Second	0.1 - 600
Gen Condition	Low-Line Scale	SG3 1P	3192	Float	4	R W	n/a	0.001 - 3
Gen Condition	Alternate Frequency Scale	SG3 1P	3194	Float	4	R W	n/a	0.001 - 100
Gen Condition	Dead Pickup	SG3 3P	3196	Float	4	R W	Volt	0 - 999999
Gen Condition	Dead Time Delay	SG3 3P	3198	Float	4	R W	Second	0.1 - 600
Gen Condition	Stable Undervoltage Pickup	SG3 3P	3200	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Undervoltage Dropout	SG3 3P	3202	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Overvoltage Pickup	SG3 3P	3204	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Overvoltage Dropout	SG3 3P	3206	Float	4	R W	Volt	10 - 999999
Gen Condition	Stable Underfrequency Pickup	SG3 3P	3208	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Underfrequency Dropout	SG3 3P	3210	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Overfrequency Pickup	SG3 3P	3212	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Overfrequency Dropout	SG3 3P	3214	Float	4	R W	Hertz	46 - 64
Gen Condition	Stable Time Delay	SG3 3P	3216	Float	4	R W	Second	0.1 - 600
Gen Condition	Fail Time Delay	SG3 3P	3218	Float	4	R W	Second	0.1 - 600
Gen Condition	Low-Line Scale	SG3 3P	3220	Float	4	R W	n/a	0.001 - 3
Gen Condition	Alternate Frequency Scale	SG3 3P	3222	Float	4	R W	n/a	0.001 - 100
Bus1 Condition	Dead Pickup	SG0 1P	3224	Float	4	R W	Volt	0 - 999999
Bus1 Condition	Dead Time Delay	SG0 1P	3226	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Stable Undervoltage Pickup	SG0 1P	3228	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Undervoltage Dropout	SG0 1P	3230	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Overvoltage Pickup	SG0 1P	3232	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Overvoltage Dropout	SG0 1P	3234	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Underfrequency Pickup	SG0 1P	3236	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Underfrequency Dropout	SG0 1P	3238	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Overfrequency Pickup	SG0 1P	3240	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Overfrequency Dropout	SG0 1P	3242	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Time Delay	SG0 1P	3244	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Fail Time Delay	SG0 1P	3246	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Low-Line Scale	SG0 1P	3248	Float	4	R W	n/a	0.001 - 3
Bus1 Condition	Alternate Frequency Scale	SG0 1P	3250	Float	4	R W	n/a	0.001 - 100
Bus1 Condition	Dead Pickup	SG0 3P	3252	Float	4	R W	Volt	0 - 999999
Bus1 Condition	Dead Time Delay	SG0 3P	3254	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Stable Undervoltage Pickup	SG0 3P	3256	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Undervoltage Dropout	SG0 3P	3258	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Overvoltage Pickup	SG0 3P	3260	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Overvoltage Dropout	SG0 3P	3262	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Underfrequency Pickup	SG0 3P	3264	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Underfrequency Dropout	SG0 3P	3266	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Overfrequency Pickup	SG0 3P	3268	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Overfrequency Dropout	SG0 3P	3270	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Time Delay	SG0 3P	3272	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Fail Time Delay	SG0 3P	3274	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Low-Line Scale	SG0 3P	3276	Float	4	R W	n/a	0.001 - 3
Bus1 Condition	Alternate Frequency Scale	SG0 3P	3278	Float	4	R W	n/a	0.001 - 100
Bus1 Condition	Dead Pickup	SG1 1P	3280	Float	4	R W	Volt	0 - 999999
Bus1 Condition	Dead Time Delay	SG1 1P	3282	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Stable Undervoltage Pickup	SG1 1P	3284	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Undervoltage Dropout	SG1 1P	3286	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Overvoltage Pickup	SG1 1P	3288	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Overvoltage Dropout	SG1 1P	3290	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Underfrequency Pickup	SG1 1P	3292	Float	4	R W	Hertz	46 - 64

Bus Condition Register Table

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Bus1 Condition	Stable Underfrequency Dropout	SG1 1P	3294	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Overfrequency Pickup	SG1 1P	3296	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Overfrequency Dropout	SG1 1P	3298	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Time Delay	SG1 1P	3300	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Fail Time Delay	SG1 1P	3302	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Low-Line Scale	SG1 1P	3304	Float	4	R W	n/a	0.001 - 3
Bus1 Condition	Alternate Frequency Scale	SG1 1P	3306	Float	4	R W	n/a	0.001 - 100
Bus1 Condition	Dead Pickup	SG1 3P	3308	Float	4	R W	Volt	0 - 999999
Bus1 Condition	Dead Time Delay	SG1 3P	3310	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Stable Undervoltage Pickup	SG1 3P	3312	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Undervoltage Dropout	SG1 3P	3314	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Overvoltage Pickup	SG1 3P	3316	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Overvoltage Dropout	SG1 3P	3318	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Underfrequency Pickup	SG1 3P	3320	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Underfrequency Dropout	SG1 3P	3322	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Overfrequency Pickup	SG1 3P	3324	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Overfrequency Dropout	SG1 3P	3326	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Time Delay	SG1 3P	3328	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Fail Time Delay	SG1 3P	3330	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Low-Line Scale	SG1 3P	3332	Float	4	R W	n/a	0.001 - 3
Bus1 Condition	Alternate Frequency Scale	SG1 3P	3334	Float	4	R W	n/a	0.001 - 100
Bus1 Condition	Dead Pickup	SG2 1P	3336	Float	4	R W	Volt	0 - 999999
Bus1 Condition	Dead Time Delay	SG2 1P	3338	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Stable Undervoltage Pickup	SG2 1P	3340	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Undervoltage Dropout	SG2 1P	3342	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Overvoltage Pickup	SG2 1P	3344	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Overvoltage Dropout	SG2 1P	3346	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Underfrequency Pickup	SG2 1P	3348	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Underfrequency Dropout	SG2 1P	3350	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Overfrequency Pickup	SG2 1P	3352	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Overfrequency Dropout	SG2 1P	3354	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Time Delay	SG2 1P	3356	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Fail Time Delay	SG2 1P	3358	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Low-Line Scale	SG2 1P	3360	Float	4	R W	n/a	0.001 - 3
Bus1 Condition	Alternate Frequency Scale	SG2 1P	3362	Float	4	R W	n/a	0.001 - 100
Bus1 Condition	Dead Pickup	SG2 3P	3364	Float	4	R W	Volt	0 - 999999
Bus1 Condition	Dead Time Delay	SG2 3P	3366	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Stable Undervoltage Pickup	SG2 3P	3368	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Undervoltage Dropout	SG2 3P	3370	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Overvoltage Pickup	SG2 3P	3372	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Overvoltage Dropout	SG2 3P	3374	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Underfrequency Pickup	SG2 3P	3376	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Underfrequency Dropout	SG2 3P	3378	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Overfrequency Pickup	SG2 3P	3380	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Overfrequency Dropout	SG2 3P	3382	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Time Delay	SG2 3P	3384	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Fail Time Delay	SG2 3P	3386	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Low-Line Scale	SG2 3P	3388	Float	4	R W	n/a	0.001 - 3
Bus1 Condition	Alternate Frequency Scale	SG2 3P	3390	Float	4	R W	n/a	0.001 - 100
Bus1 Condition	Dead Pickup	SG3 1P	3392	Float	4	R W	Volt	0 - 999999
Bus1 Condition	Dead Time Delay	SG3 1P	3394	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Stable Undervoltage Pickup	SG3 1P	3396	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Undervoltage Dropout	SG3 1P	3398	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Overvoltage Pickup	SG3 1P	3400	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Overvoltage Dropout	SG3 1P	3402	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Underfrequency Pickup	SG3 1P	3404	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Underfrequency Dropout	SG3 1P	3406	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Overfrequency Pickup	SG3 1P	3408	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Overfrequency Dropout	SG3 1P	3410	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Time Delay	SG3 1P	3412	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Fail Time Delay	SG3 1P	3414	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Low-Line Scale	SG3 1P	3416	Float	4	R W	n/a	0.001 - 3
Bus1 Condition	Alternate Frequency Scale	SG3 1P	3418	Float	4	R W	n/a	0.001 - 100
Bus1 Condition	Dead Pickup	SG3 3P	3420	Float	4	R W	Volt	0 - 999999
Bus1 Condition	Dead Time Delay	SG3 3P	3422	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Stable Undervoltage Pickup	SG3 3P	3424	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Undervoltage Dropout	SG3 3P	3426	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Overvoltage Pickup	SG3 3P	3428	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Overvoltage Dropout	SG3 3P	3430	Float	4	R W	Volt	10 - 999999
Bus1 Condition	Stable Underfrequency Pickup	SG3 3P	3432	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Underfrequency Dropout	SG3 3P	3434	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Overfrequency Pickup	SG3 3P	3436	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Overfrequency Dropout	SG3 3P	3438	Float	4	R W	Hertz	46 - 64
Bus1 Condition	Stable Time Delay	SG3 3P	3440	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Fail Time Delay	SG3 3P	3442	Float	4	R W	Second	0.1 - 600
Bus1 Condition	Low-Line Scale	SG3 3P	3444	Float	4	R W	n/a	0.001 - 3

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Bus1 Condition	Alternate Frequency Scale	SG3 3P	3446	Float	4	R W	n/a	0.001 - 100
Bus2 Condition	Dead Pickup	SG0 1P	3448	Float	4	R W	Volt	0 - 999999
Bus2 Condition	Dead Time Delay	SG0 1P	3450	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Stable Undervoltage Pickup	SG0 1P	3452	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Undervoltage Dropout	SG0 1P	3454	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Overvoltage Pickup	SG0 1P	3456	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Overvoltage Dropout	SG0 1P	3458	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Underfrequency Pickup	SG0 1P	3460	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Underfrequency Dropout	SG0 1P	3462	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Overfrequency Pickup	SG0 1P	3464	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Overfrequency Dropout	SG0 1P	3466	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Time Delay	SG0 1P	3468	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Fail Time Delay	SG0 1P	3470	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Low-Line Scale	SG0 1P	3472	Float	4	R W	n/a	0.001 - 3
Bus2 Condition	Alternate Frequency Scale	SG0 1P	3474	Float	4	R W	n/a	0.001 - 100
Bus2 Condition	Dead Pickup	SG0 3P	3476	Float	4	R W	Volt	0 - 999999
Bus2 Condition	Dead Time Delay	SG0 3P	3478	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Stable Undervoltage Pickup	SG0 3P	3480	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Undervoltage Dropout	SG0 3P	3482	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Overvoltage Pickup	SG0 3P	3484	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Overvoltage Dropout	SG0 3P	3486	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Underfrequency Pickup	SG0 3P	3488	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Underfrequency Dropout	SG0 3P	3490	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Overfrequency Pickup	SG0 3P	3492	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Overfrequency Dropout	SG0 3P	3494	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Time Delay	SG0 3P	3496	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Fail Time Delay	SG0 3P	3498	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Low-Line Scale	SG0 3P	3500	Float	4	R W	n/a	0.001 - 3
Bus2 Condition	Alternate Frequency Scale	SG0 3P	3502	Float	4	R W	n/a	0.001 - 100
Bus2 Condition	Dead Pickup	SG1 1P	3504	Float	4	R W	Volt	0 - 999999
Bus2 Condition	Dead Time Delay	SG1 1P	3506	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Stable Undervoltage Pickup	SG1 1P	3508	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Undervoltage Dropout	SG1 1P	3510	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Overvoltage Pickup	SG1 1P	3512	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Overvoltage Dropout	SG1 1P	3514	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Underfrequency Pickup	SG1 1P	3516	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Underfrequency Dropout	SG1 1P	3518	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Overfrequency Pickup	SG1 1P	3520	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Overfrequency Dropout	SG1 1P	3522	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Time Delay	SG1 1P	3524	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Fail Time Delay	SG1 1P	3526	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Low-Line Scale	SG1 1P	3528	Float	4	R W	n/a	0.001 - 3
Bus2 Condition	Alternate Frequency Scale	SG1 1P	3530	Float	4	R W	n/a	0.001 - 100
Bus2 Condition	Dead Pickup	SG1 3P	3532	Float	4	R W	Volt	0 - 999999
Bus2 Condition	Dead Time Delay	SG1 3P	3534	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Stable Undervoltage Pickup	SG1 3P	3536	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Undervoltage Dropout	SG1 3P	3538	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Overvoltage Pickup	SG1 3P	3540	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Overvoltage Dropout	SG1 3P	3542	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Underfrequency Pickup	SG1 3P	3544	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Underfrequency Dropout	SG1 3P	3546	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Overfrequency Pickup	SG1 3P	3548	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Overfrequency Dropout	SG1 3P	3550	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Time Delay	SG1 3P	3552	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Fail Time Delay	SG1 3P	3554	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Low-Line Scale	SG1 3P	3556	Float	4	R W	n/a	0.001 - 3
Bus2 Condition	Alternate Frequency Scale	SG1 3P	3558	Float	4	R W	n/a	0.001 - 100
Bus2 Condition	Dead Pickup	SG2 1P	3560	Float	4	R W	Volt	0 - 999999
Bus2 Condition	Dead Time Delay	SG2 1P	3562	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Stable Undervoltage Pickup	SG2 1P	3564	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Undervoltage Dropout	SG2 1P	3566	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Overvoltage Pickup	SG2 1P	3568	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Overvoltage Dropout	SG2 1P	3570	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Underfrequency Pickup	SG2 1P	3572	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Underfrequency Dropout	SG2 1P	3574	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Overfrequency Pickup	SG2 1P	3576	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Overfrequency Dropout	SG2 1P	3578	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Time Delay	SG2 1P	3580	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Fail Time Delay	SG2 1P	3582	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Low-Line Scale	SG2 1P	3584	Float	4	R W	n/a	0.001 - 3
Bus2 Condition	Alternate Frequency Scale	SG2 1P	3586	Float	4	R W	n/a	0.001 - 100
Bus2 Condition	Dead Pickup	SG2 3P	3588	Float	4	R W	Volt	0 - 999999
Bus2 Condition	Dead Time Delay	SG2 3P	3590	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Stable Undervoltage Pickup	SG2 3P	3592	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Undervoltage Dropout	SG2 3P	3594	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Overvoltage Pickup	SG2 3P	3596	Float	4	R W	Volt	10 - 999999

Bus Condition Register Table

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Bus2 Condition	Stable Overvoltage Dropout	SG2 3P	3598	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Underfrequency Pickup	SG2 3P	3600	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Underfrequency Dropout	SG2 3P	3602	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Overfrequency Pickup	SG2 3P	3604	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Overfrequency Dropout	SG2 3P	3606	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Time Delay	SG2 3P	3608	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Fail Time Delay	SG2 3P	3610	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Low-Line Scale	SG2 3P	3612	Float	4	R W	n/a	0.001 - 3
Bus2 Condition	Alternate Frequency Scale	SG2 3P	3614	Float	4	R W	n/a	0.001 - 100
Bus2 Condition	Dead Pickup	SG3 1P	3616	Float	4	R W	Volt	0 - 999999
Bus2 Condition	Dead Time Delay	SG3 1P	3618	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Stable Undervoltage Pickup	SG3 1P	3620	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Undervoltage Dropout	SG3 1P	3622	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Overvoltage Pickup	SG3 1P	3624	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Overvoltage Dropout	SG3 1P	3626	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Underfrequency Pickup	SG3 1P	3628	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Underfrequency Dropout	SG3 1P	3630	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Overfrequency Pickup	SG3 1P	3632	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Overfrequency Dropout	SG3 1P	3634	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Time Delay	SG3 1P	3636	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Fail Time Delay	SG3 1P	3638	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Low-Line Scale	SG3 1P	3640	Float	4	R W	n/a	0.001 - 3
Bus2 Condition	Alternate Frequency Scale	SG3 1P	3642	Float	4	R W	n/a	0.001 - 100
Bus2 Condition	Dead Pickup	SG3 3P	3644	Float	4	R W	Volt	0 - 999999
Bus2 Condition	Dead Time Delay	SG3 3P	3646	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Stable Undervoltage Pickup	SG3 3P	3648	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Undervoltage Dropout	SG3 3P	3650	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Overvoltage Pickup	SG3 3P	3652	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Overvoltage Dropout	SG3 3P	3654	Float	4	R W	Volt	10 - 999999
Bus2 Condition	Stable Underfrequency Pickup	SG3 3P	3656	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Underfrequency Dropout	SG3 3P	3658	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Overfrequency Pickup	SG3 3P	3660	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Overfrequency Dropout	SG3 3P	3662	Float	4	R W	Hertz	46 - 64
Bus2 Condition	Stable Time Delay	SG3 3P	3664	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Fail Time Delay	SG3 3P	3666	Float	4	R W	Second	0.1 - 600
Bus2 Condition	Low-Line Scale	SG3 3P	3668	Float	4	R W	n/a	0.001 - 3
Bus2 Condition	Alternate Frequency Scale	SG3 3P	3670	Float	4	R W	n/a	0.001 - 100



DGC Settings Register Table

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
CAN Bus	J1939 Address	GG	4000	UInt32	4	R W	n/a	1 - 253
CAN Bus	Baud Rate	GG	4002	UInt32	4	R W	n/a	125 kbps=0 250 kbps=1
Reserved			4004-5					
LCD Settings	LCD Backlight Timeout	GG	4006	UInt8	1	R W	Minute	1 - 120
LCD Settings	LCD Contrast	GG	4007	UInt8	1	R W	Percent	0 - 100
LCD Settings	LCD Sleep Mode	GG	4008	UInt8	1	R W	n/a	Disabled=0 Enabled=1
Real Time Clock Alert	RTC Alert Enable	GG	4009	UInt32	4	R W	n/a	No=0 Yes=1
Buzzer	Buzzer Enabled	GG	4011	UInt8	1	R W	n/a	Disabled=0 Enabled=1
Buzzer	Not In Auto Buzzer Enabled	GG	4012	UInt8	1	R W	n/a	Disabled=0 Enabled=1
AEM1	Enable	GG	4013	UInt32	4	R W	n/a	Disabled=0 Enabled=1
AEM2	Enable	GG	4015	UInt32	4	R W	n/a	Disabled=0 Enabled=1
AEM3	Enable	GG	4017	UInt32	4	R W	n/a	Disabled=0 Enabled=1
AEM4	Enable	GG	4019	UInt32	4	R W	n/a	Disabled=0 Enabled=1
CEM 1	Enable	GG	4021	UInt32	4	R W	n/a	Disabled=0 Enabled=1
CEM 1	CEM Output Configuration	GG	4023	UInt32	4	R W	n/a	18 Outputs=0 24 Outputs=1
CEM 2	Enable	GG	4025	UInt32	4	R W	n/a	Disabled=0 Enabled=1
CEM 2	CEM Output Configuration	GG	4027	UInt32	4	R W	n/a	18 Outputs=0 24 Outputs=1
CEM 3	Enable	GG	4029	UInt32	4	R W	n/a	Disabled=0 Enabled=1
CEM 3	CEM Output Configuration	GG	4031	UInt32	4	R W	n/a	18 Outputs=0 24 Outputs=1
CEM 4	Enable	GG	4033	UInt32	4	R W	n/a	Disabled=0 Enabled=1
CEM 4	CEM Output Configuration	GG	4035	UInt32	4	R W	n/a	18 Outputs=0 24 Outputs=1
Genset Controller	Restart Delay	GG	4037	UInt32	4	R W	Second	0 - 120
Genset Controller	Cool Down Time	GG	4039	UInt32	4	R W	Minute	0 - 60
Genset Controller	Prestart Contact Configuration	GG	4041	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Genset Controller	Prestart Rest Configuration	GG	4043	UInt32	4	R W	n/a	Off during crank=0 On during rest=1 Preheat before crank=2
Genset Controller	Cranking Style	GG	4045	UInt32	4	R W	n/a	Continuous=0 Cycle=1
Genset Controller	Number of Crank Cycles	GG	4047	UInt32	4	R W	n/a	1 - 7
Genset Controller	Cycle Crank Time	GG	4049	UInt32	4	R W	Second	1 - 300
Genset Controller	Continuous Crank Time	GG	4051	UInt32	4	R W	Second	1 - 300
Genset Controller	Crank Disconnect Limit	GG	4053	UInt32	4	R W	Second	10 - 100
Genset Controller	Pre Crank Delay	GG	4055	UInt32	4	R W	Second	0 - 30
Genset Controller	Oil Pressure Crank Disconnect	GG	4057	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Genset Controller	Crank Disconnect Pressure PSI	GG	4059	Float	4	R W	PSI	2.9 - 150
Genset Controller	Crank Disconnect Pressure kPa	GG	4061	Float	4	R W	kPa	20 - 1034.5
Genset Controller	Crank Disconnect Pressure bar	GG	4063	Float	4	R W	bar	2 - 10.3
Genset Controller	Power Up Delay	GG	4065	UInt32	4	R W	Second	0 - 60
Genset Controller	Off Mode Cool Down Enabled	GG	4067	UInt32	4	R W	n/a	Disabled=0 Enabled=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Genset Controller	Remaining Cooldown Time Minutes	GG	4069	Uint32	4	R	Minute	0 - 59
Genset Controller	Remaining Cooldown Time Seconds	GG	4071	Uint32	4	R	Second	0 - 59
Genset Controller	Pending NFPA Level	GG	4073	Uint32	4	R W	n/a	Zero=0 One=1 Two=2
Pre-Alarm Enable	Ethernet 1 Link Lost	GG	4075	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Pre-Alarm Enable	Ethernet 2 Link Lost	GG	4077	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Genset Controller	Gen Reverse Rotation Pre-Alarm Enable	GG	4079	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Genset Controller	Bus 1 Reverse Rotation Pre-Alarm Enable	GG	4081	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Genset Controller	Bus 2 Reverse Rotation Pre-Alarm Enable	GG	4083	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Genset Controller	AEM 1 Comm Fail Pre-Alarm Enable	GG	4085	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Genset Controller	AEM 2 Comm Fail Pre-Alarm Enable	GG	4087	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Genset Controller	AEM 3 Comm Fail Pre-Alarm Enable	GG	4089	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Genset Controller	AEM 4 Comm Fail Pre-Alarm Enable	GG	4091	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Genset Controller	CEM 1 Comm Fail Pre-Alarm Enable	GG	4093	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Genset Controller	CEM 2 Comm Fail Pre-Alarm Enable	GG	4095	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Genset Controller	CEM 3 Comm Fail Pre-Alarm Enable	GG	4097	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Genset Controller	CEM 4 Comm Fail Pre-Alarm Enable	GG	4099	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Coolant Temp Sender Fail	Alarm Configuration	GG	4101	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2
Coolant Temp Sender Fail	Coolant Activation Delay	GG	4103	Uint32	4	R W	Second	300 - 1800
Oil Pressure Sender Fail	Alarm Configuration	GG	4105	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2
Oil Pressure Sender Fail	Activation Delay	GG	4107	Uint32	4	R W	Second	0 - 300
Fuel Level Sender Fail	Alarm Configuration	GG	4109	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2
Fuel Level Sender Fail	Activation Delay	GG	4111	Uint32	4	R W	Second	0 - 300
Voltage Sensing Sender Fail	Alarm Configuration	GG	4113	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2
Voltage Sensing Sender Fail	Activation Delay	GG	4115	Uint32	4	R W	Second	0 - 300
Single Ph Override	Single-Phase Sense	GG	4117	Uint32	4	R W	n/a	AB=0 AC=1
AVR Output	Out-of-Range Activation Delay	GG	4119	Float	4	R W	Second	0 - 300
AVR Output	Alarm Configuration	GG	4121	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2
GOV Output	Out-of-Range Activation Delay	GG	4123	Float	4	R W	Second	0 - 300
GOV Output	Alarm Configuration	GG	4125	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2
LS Output	Out of Range Activation Delay	GG	4127	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
LS Output	Alarm Configuration	GG	4129	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2
Genset Controller	Mains Fail Group Start Mode	GG	4131	UInt32	4	R W	n/a	Start One=0 Start All=1 Start Demand Based=2
Genset Controller	Load Takeover Group Start Mode	GG	4133	UInt32	4	R W	n/a	Start One=0 Start All=1 Start Demand Based=2
Genset Controller	Peak Shave Group Start Mode	GG	4135	UInt32	4	R W	n/a	Start One=0 Start All=1 Start Demand Based=2
Genset Controller	Cycle Rest Time	GG	4137	UInt32	4	R W	Second	1 - 300
Genset Controller	Cooldown Configuration	GG	4139	UInt32	4	R W	n/a	Only When Loaded=0 Always=1
Mains Power Controller	Mains kW Control Mode	GG	4141	UInt32	4	R W	n/a	Baseload=0 Peak Shave=1 Import/Export=2
Mains Power Controller	Min Load	GG	4143	Float	4	R W	KiloWatt	1 - 999999
Mains Power Controller	Start Level	GG	4145	Float	4	R W	KiloWatt	1 - 999999
Mains Power Controller	End Level	GG	4147	Float	4	R W	KiloWatt	1 - 999999
Mains Power Controller	Start Time Delay	GG	4149	UInt32	4	R W	Second	0 - 3600
Mains Power Controller	End Time Delay	GG	4151	UInt32	4	R W	Second	0 - 3600
Mains Power Controller	Peak Shave Local Start Mode	GG	4153	UInt32	4	R W	n/a	Single Generator=0 Group Start=1
Mains Power Controller	Power Filter Time Constant	GG	4155	Float	4	R W	n/a	0 - 100
Tie Breaker Controller	Breaker Open Setpoint	GG	4157	UInt32	4	R W	Percent	1 - 100
Tie Breaker Controller	Generator Group Number	GG	4159	UInt32	4	R W	n/a	1 - 32
Tie Breaker Controller	System Segment Number	GG	4161	UInt32	4	R W	n/a	Group Bus=0 Load Bus=1 Mains=2 3=3, 4=4, 5=5, 6=6, 7=7, 8=8, 9=9, 10=10, 11=11, 12=12, 13=13, 14=14, 15=15, 16=16, 17=17, 18=18, 19=19, 20=20, 21=21, 22=22, 23=23, 24=24, 25=25, 26=26, 27=27, 28=28, 29=29, 30=30, 31=31
Tie Breaker Controller	Generator Group B Number	GG	4163	UInt32	4	R W	n/a	1 - 32
Tie Breaker Controller	System Segment B Number	GG	4165	UInt32	4	R W	n/a	Group Bus=0 Load Bus=1 Mains=2 3=3, 4=4, 5=5, 6=6, 7=7, 8=8, 9=9, 10=10, 11=11, 12=12, 13=13, 14=14, 15=15, 16=16, 17=17, 18=18, 19=19, 20=20, 21=21, 22=22, 23=23, 24=24, 25=25, 26=26, 27=27, 28=28, 29=29, 30=30, 31=31
Tie Breaker Controller	Mains Tie Side	GG	4167	UInt32	4	R W	n/a	None=0 A=1 B=2
Tie Breaker Controller	Sync Adjust Side	GG	4169	UInt32	4	R W	n/a	A=1 B=2
Tie Breaker Controller	Mains To Mains Close Enable	GG	4171	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Tie Breaker Controller	Dead A To Dead B Close Enable	GG	4173	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Tie Breaker Controller	Dead A To Live B Close Enable	GG	4175	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Tie Breaker Controller	Live A To Dead B Close Enable	GG	4177	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Tie Breaker Controller	Live A To Live B Close Enable	GG	4179	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Tie Breaker Controller	Dead Gen Close Enable	GG	4181	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Tie Breaker Controller	Live Load Close Enable	GG	4183	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Tie Breaker Controller	Breaker Open Delay	GG	4185	UInt32	4	R W	Decisecond	0 - 600

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Tie Breaker Controller	Positive Power Sign	GG	4187	Uint32	4	R W	n/a	Generator Export=0 Mains Import=1
Baseload Level	Active Setpoint	GG	4189	Float	4	R W	Percent	0 - 100
Baseload Level	Base Setpoint	GG	4191	Float	4	R W	Percent	0 - 100
Baseload Level	Base Setpoint Output	GG	4193	Float	4	R W	Percent	0 - 100
Baseload Level	Setpoint Max	GG	4195	Float	4	R W	Percent	0 - 100
Baseload Level	Setpoint Min	GG	4197	Float	4	R W	Percent	0 - 100
Baseload Level	Analog Input Source	GG	4199	Uint32	4	R W	n/a	None=0, Local Analog Input 1=1, Local Analog Input 2=2, Local Analog Input 3=3, Local Analog Input 4=4, AEM 1 Analog In 1=5, AEM 1 Analog In 2=6, AEM 1 Analog In 3=7, AEM 1 Analog In 4=8, AEM 1 Analog In 5=9, AEM 1 Analog In 6=10, AEM 1 Analog In 7=11, AEM 1 Analog In 8=12, AEM 2 Analog In 1=13, AEM 2 Analog In 2=14, AEM 2 Analog In 3=15, AEM 2 Analog In 4=16, AEM 2 Analog In 5=17, AEM 2 Analog In 6=18, AEM 2 Analog In 7=19, AEM 2 Analog In 8=20, AEM 3 Analog In 1=21, AEM 3 Analog In 2=22, AEM 3 Analog In 3=23, AEM 3 Analog In 4=24, AEM 3 Analog In 5=25, AEM 3 Analog In 6=26, AEM 3 Analog In 7=27, AEM 3 Analog In 8=28, AEM 4 Analog In 1=29, AEM 4 Analog In 2=30, AEM 4 Analog In 3=31, AEM 4 Analog In 4=32, AEM 4 Analog In 5=33, AEM 4 Analog In 6=34, AEM 4 Analog In 7=35, AEM 4 Analog In 8=36, System Manager=37
Baseload Level	Bias Max	GG	4201	Float	4	R W	Percent	-100 - 100
Baseload Level	Bias Min	GG	4203	Float	4	R W	Percent	-100 - 100
Baseload Level	Ramp Rate	GG	4205	Float	4	R W	Percent Per Second	0.1 - 100
Baseload Level	Pre Position 1	GG	4207	Float	4	R W	Percent	0 - 100
Baseload Level	Pre Position 2	GG	4209	Float	4	R W	Percent	0 - 100
Baseload Level	Pre Position 3	GG	4211	Float	4	R W	Percent	0 - 100
Baseload Level	Pre Position 4	GG	4213	Float	4	R W	Percent	0 - 100
Baseload Level	Pre Position 5	GG	4215	Float	4	R W	Percent	0 - 100
Peak Shave	Active Setpoint	GG	4217	Float	4	R W	Percent	0 - 100
Peak Shave	Base Setpoint	GG	4219	Float	4	R W	Percent	0 - 100
Peak Shave	Base Setpoint Output	GG	4221	Float	4	R W	Percent	0 - 100
Peak Shave	Setpoint Max	GG	4223	Float	4	R W	Percent	0 - 100
Peak Shave	Setpoint Min	GG	4225	Float	4	R W	Percent	0 - 100
Peak Shave	Analog Input Source	GG	4227	Uint32	4	R W	n/a	None=0, Local Analog Input 1=1, Local Analog Input 2=2, Local Analog Input 3=3, Local Analog Input 4=4, AEM 1 Analog In 1=5, AEM 1 Analog In 2=6, AEM 1 Analog In 3=7, AEM 1 Analog In 4=8, AEM 1 Analog In 5=9, AEM 1 Analog In 6=10, AEM 1 Analog In 7=11, AEM 1 Analog In 8=12, AEM 2 Analog In 1=13, AEM 2 Analog In 2=14, AEM 2 Analog In 3=15, AEM 2 Analog In 4=16, AEM 2 Analog In 5=17, AEM 2 Analog In 6=18, AEM 2 Analog In 7=19, AEM 2 Analog In 8=20, AEM 3 Analog In 1=21, AEM 3 Analog In 2=22, AEM 3 Analog In 3=23, AEM 3 Analog In 4=24, AEM 3 Analog In 5=25, AEM 3 Analog In 6=26, AEM 3 Analog In 7=27, AEM 3 Analog In 8=28, AEM 4 Analog In 1=29, AEM 4 Analog In 2=30, AEM 4 Analog In 3=31, AEM 4 Analog In 4=32, AEM 4 Analog In 5=33, AEM 4 Analog In 6=34, AEM 4 Analog In 7=35, AEM 4 Analog In 8=36, System Manager=37
Peak Shave	Bias Max	GG	4229	Float	4	R W	Percent	-100 - 100
Peak Shave	Bias Min	GG	4231	Float	4	R W	Percent	-100 - 100
Peak Shave	Ramp Rate	GG	4233	Float	4	R W	Percent Per Second	0.1 - 100
Peak Shave	Pre Position 1	GG	4235	Float	4	R W	Percent	0 - 100
Peak Shave	Pre Position 2	GG	4237	Float	4	R W	Percent	0 - 100
Peak Shave	Pre Position 3	GG	4239	Float	4	R W	Percent	0 - 100
Peak Shave	Pre Position 4	GG	4241	Float	4	R W	Percent	0 - 100
Peak Shave	Pre Position 5	GG	4243	Float	4	R W	Percent	0 - 100
Import Export	Active Setpoint	GG	4245	Float	4	R W	Percent	0 - 100
Import Export	Base Setpoint	GG	4247	Float	4	R W	Percent	0 - 100

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Import Export	Base Setpoint Output	GG	4249	Float	4	R W	Percent	0 - 100
Import Export	Setpoint Max	GG	4251	Float	4	R W	Percent	0 - 100
Import Export	Setpoint Min	GG	4253	Float	4	R W	Percent	0 - 100
Import Export	Analog Input Source	GG	4255	UInt32	4	R W	n/a	None=0, Local Analog Input 1=1, Local Analog Input 2=2, Local Analog Input 3=3, Local Analog Input 4=4, AEM 1 Analog In 1=5, AEM 1 Analog In 2=6, AEM 1 Analog In 3=7, AEM 1 Analog In 4=8, AEM 1 Analog In 5=9, AEM 1 Analog In 6=10, AEM 1 Analog In 7=11, AEM 1 Analog In 8=12, AEM 2 Analog In 1=13, AEM 2 Analog In 2=14, AEM 2 Analog In 3=15, AEM 2 Analog In 4=16, AEM 2 Analog In 5=17, AEM 2 Analog In 6=18, AEM 2 Analog In 7=19, AEM 2 Analog In 8=20, AEM 3 Analog In 1=21, AEM 3 Analog In 2=22, AEM 3 Analog In 3=23, AEM 3 Analog In 4=24, AEM 3 Analog In 5=25, AEM 3 Analog In 6=26, AEM 3 Analog In 7=27, AEM 3 Analog In 8=28, AEM 4 Analog In 1=29, AEM 4 Analog In 2=30, AEM 4 Analog In 3=31, AEM 4 Analog In 4=32, AEM 4 Analog In 5=33, AEM 4 Analog In 6=34, AEM 4 Analog In 7=35, AEM 4 Analog In 8=36, System Manager=37
Import Export	Bias Max	GG	4257	Float	4	R W	Percent	-100 - 100
Import Export	Bias Min	GG	4259	Float	4	R W	Percent	-100 - 100
Import Export	Ramp Rate	GG	4261	Float	4	R W	Percent Per Second	0.1 - 100
Import Export	Pre Position 1	GG	4263	Float	4	R W	Percent	0 - 100
Import Export	Pre Position 2	GG	4265	Float	4	R W	Percent	0 - 100
Import Export	Pre Position 3	GG	4267	Float	4	R W	Percent	0 - 100
Import Export	Pre Position 4	GG	4269	Float	4	R W	Percent	0 - 100
Import Export	Pre Position 5	GG	4271	Float	4	R W	Percent	0 - 100
Seven Day Timer 1	Sunday Start Hour	GG	4273	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 1	Monday Start Hour	GG	4275	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 1	Tuesday Start Hour	GG	4277	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 1	Wednesday Start Hour	GG	4279	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 1	Thursday Start Hour	GG	4281	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 1	Friday Start Hour	GG	4283	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 1	Saturday Start Hour	GG	4285	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 1	Sunday Start Minute	GG	4287	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 1	Monday Start Minute	GG	4289	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 1	Tuesday Start Minute	GG	4291	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 1	Wednesday Start Minute	GG	4293	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 1	Thursday Start Minute	GG	4295	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 1	Friday Start Minute	GG	4297	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 1	Saturday Start Minute	GG	4299	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 1	Sunday Run Hours	GG	4301	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 1	Monday Run Hours	GG	4303	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 1	Tuesday Run Hours	GG	4305	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 1	Wednesday Run Hours	GG	4307	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 1	Thursday Run Hours	GG	4309	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 1	Friday Run Hours	GG	4311	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 1	Saturday Run Hours	GG	4313	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 1	Sunday Run Minutes	GG	4315	UInt32	4	R W	n/a	0 - 59

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Seven Day Timer 1	Monday Run Minutes	GG	4317	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 1	Tuesday Run Minutes	GG	4319	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 1	Wednesday Run Minutes	GG	4321	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 1	Thursday Run Minutes	GG	4323	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 1	Friday Run Minutes	GG	4325	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 1	Saturday Run Minutes	GG	4327	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 2	Sunday Start Hour	GG	4329	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 2	Monday Start Hour	GG	4331	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 2	Tuesday Start Hour	GG	4333	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 2	Wednesday Start Hour	GG	4335	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 2	Thursday Start Hour	GG	4337	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 2	Friday Start Hour	GG	4339	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 2	Saturday Start Hour	GG	4341	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 2	Sunday Start Minute	GG	4343	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 2	Monday Start Minute	GG	4345	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 2	Tuesday Start Minute	GG	4347	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 2	Wednesday Start Minute	GG	4349	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 2	Thursday Start Minute	GG	4351	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 2	Friday Start Minute	GG	4353	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 2	Saturday Start Minute	GG	4355	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 2	Sunday Run Hours	GG	4357	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 2	Monday Run Hours	GG	4359	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 2	Tuesday Run Hours	GG	4361	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 2	Wednesday Run Hours	GG	4363	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 2	Thursday Run Hours	GG	4365	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 2	Friday Run Hours	GG	4367	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 2	Saturday Run Hours	GG	4369	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 2	Sunday Run Minutes	GG	4371	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 2	Monday Run Minutes	GG	4373	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 2	Tuesday Run Minutes	GG	4375	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 2	Wednesday Run Minutes	GG	4377	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 2	Thursday Run Minutes	GG	4379	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 2	Friday Run Minutes	GG	4381	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 2	Saturday Run Minutes	GG	4383	UInt32	4	R W	n/a	0 - 59
Seven Day Timer 3	Sunday Start Hour	GG	4385	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 3	Monday Start Hour	GG	4387	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 3	Tuesday Start Hour	GG	4389	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 3	Wednesday Start Hour	GG	4391	UInt32	4	R W	n/a	0 - 23
Seven Day Timer 3	Thursday Start Hour	GG	4393	UInt32	4	R W	n/a	0 - 23

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Seven Day Timer 3	Friday Start Hour	GG	4395	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 3	Saturday Start Hour	GG	4397	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 3	Sunday Start Minute	GG	4399	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 3	Monday Start Minute	GG	4401	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 3	Tuesday Start Minute	GG	4403	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 3	Wednesday Start Minute	GG	4405	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 3	Thursday Start Minute	GG	4407	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 3	Friday Start Minute	GG	4409	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 3	Saturday Start Minute	GG	4411	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 3	Sunday Run Hours	GG	4413	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 3	Monday Run Hours	GG	4415	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 3	Tuesday Run Hours	GG	4417	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 3	Wednesday Run Hours	GG	4419	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 3	Thursday Run Hours	GG	4421	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 3	Friday Run Hours	GG	4423	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 3	Saturday Run Hours	GG	4425	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 3	Sunday Run Minutes	GG	4427	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 3	Monday Run Minutes	GG	4429	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 3	Tuesday Run Minutes	GG	4431	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 3	Wednesday Run Minutes	GG	4433	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 3	Thursday Run Minutes	GG	4435	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 3	Friday Run Minutes	GG	4437	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 3	Saturday Run Minutes	GG	4439	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 4	Sunday Start Hour	GG	4441	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 4	Monday Start Hour	GG	4443	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 4	Tuesday Start Hour	GG	4445	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 4	Wednesday Start Hour	GG	4447	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 4	Thursday Start Hour	GG	4449	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 4	Friday Start Hour	GG	4451	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 4	Saturday Start Hour	GG	4453	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 4	Sunday Start Minute	GG	4455	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 4	Monday Start Minute	GG	4457	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 4	Tuesday Start Minute	GG	4459	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 4	Wednesday Start Minute	GG	4461	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 4	Thursday Start Minute	GG	4463	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 4	Friday Start Minute	GG	4465	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 4	Saturday Start Minute	GG	4467	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 4	Sunday Run Hours	GG	4469	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 4	Monday Run Hours	GG	4471	Uint32	4	R W	n/a	0 - 23

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Seven Day Timer 4	Tuesday Run Hours	GG	4473	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 4	Wednesday Run Hours	GG	4475	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 4	Thursday Run Hours	GG	4477	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 4	Friday Run Hours	GG	4479	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 4	Saturday Run Hours	GG	4481	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 4	Sunday Run Minutes	GG	4483	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 4	Monday Run Minutes	GG	4485	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 4	Tuesday Run Minutes	GG	4487	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 4	Wednesday Run Minutes	GG	4489	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 4	Thursday Run Minutes	GG	4491	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 4	Friday Run Minutes	GG	4493	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 4	Saturday Run Minutes	GG	4495	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 5	Sunday Start Hour	GG	4497	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 5	Monday Start Hour	GG	4499	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 5	Tuesday Start Hour	GG	4501	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 5	Wednesday Start Hour	GG	4503	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 5	Thursday Start Hour	GG	4505	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 5	Friday Start Hour	GG	4507	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 5	Saturday Start Hour	GG	4509	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 5	Sunday Start Minute	GG	4511	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 5	Monday Start Minute	GG	4513	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 5	Tuesday Start Minute	GG	4515	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 5	Wednesday Start Minute	GG	4517	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 5	Thursday Start Minute	GG	4519	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 5	Friday Start Minute	GG	4521	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 5	Saturday Start Minute	GG	4523	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 5	Sunday Run Hours	GG	4525	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 5	Monday Run Hours	GG	4527	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 5	Tuesday Run Hours	GG	4529	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 5	Wednesday Run Hours	GG	4531	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 5	Thursday Run Hours	GG	4533	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 5	Friday Run Hours	GG	4535	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 5	Saturday Run Hours	GG	4537	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 5	Sunday Run Minutes	GG	4539	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 5	Monday Run Minutes	GG	4541	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 5	Tuesday Run Minutes	GG	4543	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 5	Wednesday Run Minutes	GG	4545	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 5	Thursday Run Minutes	GG	4547	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 5	Friday Run Minutes	GG	4549	Uint32	4	R W	n/a	0 - 59

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Seven Day Timer 5	Saturday Run Minutes	GG	4551	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 6	Sunday Start Hour	GG	4553	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 6	Monday Start Hour	GG	4555	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 6	Tuesday Start Hour	GG	4557	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 6	Wednesday Start Hour	GG	4559	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 6	Thursday Start Hour	GG	4561	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 6	Friday Start Hour	GG	4563	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 6	Saturday Start Hour	GG	4565	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 6	Sunday Start Minute	GG	4567	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 6	Monday Start Minute	GG	4569	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 6	Tuesday Start Minute	GG	4571	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 6	Wednesday Start Minute	GG	4573	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 6	Thursday Start Minute	GG	4575	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 6	Friday Start Minute	GG	4577	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 6	Saturday Start Minute	GG	4579	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 6	Sunday Run Hours	GG	4581	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 6	Monday Run Hours	GG	4583	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 6	Tuesday Run Hours	GG	4585	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 6	Wednesday Run Hours	GG	4587	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 6	Thursday Run Hours	GG	4589	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 6	Friday Run Hours	GG	4591	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 6	Saturday Run Hours	GG	4593	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 6	Sunday Run Minutes	GG	4595	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 6	Monday Run Minutes	GG	4597	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 6	Tuesday Run Minutes	GG	4599	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 6	Wednesday Run Minutes	GG	4601	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 6	Thursday Run Minutes	GG	4603	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 6	Friday Run Minutes	GG	4605	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 6	Saturday Run Minutes	GG	4607	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 7	Sunday Start Hour	GG	4609	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 7	Monday Start Hour	GG	4611	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 7	Tuesday Start Hour	GG	4613	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 7	Wednesday Start Hour	GG	4615	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 7	Thursday Start Hour	GG	4617	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 7	Friday Start Hour	GG	4619	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 7	Saturday Start Hour	GG	4621	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 7	Sunday Start Minute	GG	4623	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 7	Monday Start Minute	GG	4625	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 7	Tuesday Start Minute	GG	4627	Uint32	4	R W	n/a	0 - 59

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Seven Day Timer 7	Wednesday Start Minute	GG	4629	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 7	Thursday Start Minute	GG	4631	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 7	Friday Start Minute	GG	4633	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 7	Saturday Start Minute	GG	4635	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 7	Sunday Run Hours	GG	4637	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 7	Monday Run Hours	GG	4639	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 7	Tuesday Run Hours	GG	4641	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 7	Wednesday Run Hours	GG	4643	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 7	Thursday Run Hours	GG	4645	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 7	Friday Run Hours	GG	4647	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 7	Saturday Run Hours	GG	4649	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 7	Sunday Run Minutes	GG	4651	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 7	Monday Run Minutes	GG	4653	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 7	Tuesday Run Minutes	GG	4655	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 7	Wednesday Run Minutes	GG	4657	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 7	Thursday Run Minutes	GG	4659	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 7	Friday Run Minutes	GG	4661	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 7	Saturday Run Minutes	GG	4663	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 8	Sunday Start Hour	GG	4665	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 8	Monday Start Hour	GG	4667	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 8	Tuesday Start Hour	GG	4669	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 8	Wednesday Start Hour	GG	4671	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 8	Thursday Start Hour	GG	4673	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 8	Friday Start Hour	GG	4675	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 8	Saturday Start Hour	GG	4677	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 8	Sunday Start Minute	GG	4679	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 8	Monday Start Minute	GG	4681	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 8	Tuesday Start Minute	GG	4683	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 8	Wednesday Start Minute	GG	4685	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 8	Thursday Start Minute	GG	4687	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 8	Friday Start Minute	GG	4689	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 8	Saturday Start Minute	GG	4691	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 8	Sunday Run Hours	GG	4693	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 8	Monday Run Hours	GG	4695	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 8	Tuesday Run Hours	GG	4697	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 8	Wednesday Run Hours	GG	4699	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 8	Thursday Run Hours	GG	4701	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 8	Friday Run Hours	GG	4703	Uint32	4	R W	n/a	0 - 23
Seven Day Timer 8	Saturday Run Hours	GG	4705	Uint32	4	R W	n/a	0 - 23

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Seven Day Timer 8	Sunday Run Minutes	GG	4707	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 8	Monday Run Minutes	GG	4709	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 8	Tuesday Run Minutes	GG	4711	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 8	Wednesday Run Minutes	GG	4713	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 8	Thursday Run Minutes	GG	4715	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 8	Friday Run Minutes	GG	4717	Uint32	4	R W	n/a	0 - 59
Seven Day Timer 8	Saturday Run Minutes	GG	4719	Uint32	4	R W	n/a	0 - 59
ECU Config	CAN Bus Low Coolant Alarm Enable	GG	4721	Uint32	4	R W	n/a	Disabled=0 Enbaled=1
Tie Breaker Controller	Power Measurement Side	GG	4723	Uint32	4	R W	n/a	A=1 B=2
Tie Breaker Controller 2	Breaker Open Setpoint	GG	4725	Uint32	4	R W	Percent	1 - 100
Tie Breaker Controller 2	Generator Group C Number	GG	4731	Uint32	4	R W	n/a	1 - 32
Tie Breaker Controller 2	System Segment C Number	GG	4733	Uint32	4	R W	n/a	Group Bus=0 Load Bus=1 Mains=2 3=3, 4=4, 5=5, 6=6, 7=7, 8=8, 9=9, 10=10, 11=11, 12=12, 13=13, 14=14, 15=15, 16=16, 17=17, 18=18, 19=19, 20=20, 21=21, 22=22, 23=23, 24=24, 25=25, 26=26, 27=27, 28=28, 29=29, 30=30, 31=31
Tie Breaker Controller 2	Mains Tie Side	GG	4735	Uint32	4	R W	n/a	None=0 B=1 C=2
Tie Breaker Controller 2	Sync Adjust Side	GG	4737	Uint32	4	R W	n/a	B=1 C=2
Tie Breaker Controller 2	Mains To Mains Close Enable	GG	4739	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Tie Breaker Controller 2	Dead B to Dead C Close Enable	GG	4741	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Tie Breaker Controller 2	Dead B to Live C Close Enable	GG	4743	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Tie Breaker Controller 2	Live B to Dead C Close Enable	GG	4745	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Tie Breaker Controller 2	Live B to Live C Close Enable	GG	4747	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Tie Breaker Controller 2	Dead Gen Close Enable	GG	4749	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Tie Breaker Controller 2	Live Load Close Enable	GG	4751	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Tie Breaker Controller 2	Breaker Open Delay	GG	4753	Uint32	4	R W	Decisecond	0 - 600
Tie Breaker Controller 2	Positive Power Sign	GG	4755	Uint32	4	R W	n/a	Generator Export=0 Mains Import=1
Tie Breaker Controller 2	Power Measurement Side	GG	4757	Uint32	4	R W	n/a	B=1 C=2
Alarm Enable	VRM 1 Comm. Fail Pre-alarm Enable	GG	4759	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Baseload Level	Pre-position 1 Ramp Rate	GG	4761	Float	4	R W	Percent Per Second	0 - 100
Baseload Level	Pre-position 2 Ramp Rate	GG	4763	Float	4	R W	Percent Per Second	0 - 100
Baseload Level	Pre-position 3 Ramp Rate	GG	4765	Float	4	R W	Percent Per Second	0 - 100
Baseload Level	Pre-position 4 Ramp Rate	GG	4767	Float	4	R W	Percent Per Second	0 - 100
Baseload Level	Pre-position 5 Ramp Rate	GG	4769	Float	4	R W	Percent Per Second	0 - 100
Baseload Level	Auto Save	GG	4771	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Peak Shave	Pre-position 1 Ramp Rate	GG	4773	Float	4	R W	Percent Per Second	0 - 100
Peak Shave	Pre-position 2 Ramp Rate	GG	4775	Float	4	R W	Percent Per Second	0 - 100

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Peak Shave	Pre-position 3 Ramp Rate	GG	4777	Float	4	R W	Percent Per Second	0 - 100
Peak Shave	Pre-position 4 Ramp Rate	GG	4779	Float	4	R W	Percent Per Second	0 - 100
Peak Shave	Pre-position 5 Ramp Rate	GG	4781	Float	4	R W	Percent Per Second	0 - 100
Peak Shave	Auto Save	GG	4783	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Import / Export	Pre-position 1 Ramp Rate	GG	4785	Float	4	R W	Percent Per Second	0 - 100
Import / Export	Pre-position 2 Ramp Rate	GG	4787	Float	4	R W	Percent Per Second	0 - 100
Import / Export	Pre-position 3 Ramp Rate	GG	4789	Float	4	R W	Percent Per Second	0 - 100
Import / Export	Pre-position 4 Ramp Rate	GG	4791	Float	4	R W	Percent Per Second	0 - 100
Import / Export	Pre-position 5 Ramp Rate	GG	4793	Float	4	R W	Percent Per Second	0 - 100
Import / Export	Auto Save	GG	4795	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Voltage Trim	Setpoint Max	GG	4797	Float	4	R W	Percent	0 - 100
Voltage Trim	Setpoint Min	GG	4799	Float	4	R W	Percent	0 - 100
Voltage Trim	Pre-position 5	GG	4801	Float	4	R W	Percent	0 - 100
Voltage Trim	Pre-position 1 Ramp Rate	GG	4803	Float	4	R W	Percent Per Second	0 - 100
Voltage Trim	Pre-position 2 Ramp Rate	GG	4805	Float	4	R W	Percent Per Second	0 - 100
Voltage Trim	Pre-position 3 Ramp Rate	GG	4807	Float	4	R W	Percent Per Second	0 - 100
Voltage Trim	Pre-position 4 Ramp Rate	GG	4809	Float	4	R W	Percent Per Second	0 - 100
Voltage Trim	Pre-position 5 Ramp Rate	GG	4811	Float	4	R W	Percent Per Second	0 - 100
Voltage Trim	Auto Save	GG	4813	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Speed Trim	Setpoint Max	GG	4815	Float	4	R W	Percent	0 - 100
Speed Trim	Setpoint Min	GG	4817	Float	4	R W	Percent	0 - 100
Speed Trim	Ramp Rate	GG	4819	Float	4	R W	Percent Per Second	0.1 - 100
Speed Trim	Pre-position 1	GG	4821	Float	4	R W	Percent	0 - 100
Speed Trim	Pre-position 2	GG	4823	Float	4	R W	Percent	0 - 100
Speed Trim	Pre-position 3	GG	4825	Float	4	R W	Percent	0 - 100
Speed Trim	Pre-position 4	GG	4827	Float	4	R W	Percent	0 - 100
Speed Trim	Pre-position 5	GG	4829	Float	4	R W	Percent	0 - 100
Speed Trim	Pre-position 1 Ramp Rate	GG	4831	Float	4	R W	Percent Per Second	0 - 100
Speed Trim	Pre-position 2 Ramp Rate	GG	4833	Float	4	R W	Percent Per Second	0 - 100
Speed Trim	Pre-position 3 Ramp Rate	GG	4835	Float	4	R W	Percent Per Second	0 - 100
Speed Trim	Pre-position 4 Ramp Rate	GG	4837	Float	4	R W	Percent Per Second	0 - 100
Speed Trim	Pre-position 5 Ramp Rate	GG	4839	Float	4	R W	Percent Per Second	0 - 100
Speed Trim	Auto Save	GG	4841	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Baseload Level	Setpoint Max	GG	4843	Float	4	R W	Percent	0 - 100
Baseload Level	Setpoint Min	GG	4845	Float	4	R W	Percent	0 - 100

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Baseload Level	Analog Input Source	GG	4847	UInt32	4	R W	n/a	None=0, Local Analog Input 1=1, Local Analog Input 2=2, Local Analog Input 3=3, Local Analog Input 4=4, AEM 1 Analog In 1=5, AEM 1 Analog In 2=6, AEM 1 Analog In 3=7, AEM 1 Analog In 4=8, AEM 1 Analog In 5=9, AEM 1 Analog In 6=10, AEM 1 Analog In 7=11, AEM 1 Analog In 8=12, AEM 2 Analog In 1=13, AEM 2 Analog In 2=14, AEM 2 Analog In 3=15, AEM 2 Analog In 4=16, AEM 2 Analog In 5=17, AEM 2 Analog In 6=18, AEM 2 Analog In 7=19, AEM 2 Analog In 8=20, AEM 3 Analog In 1=21, AEM 3 Analog In 2=22, AEM 3 Analog In 3=23, AEM 3 Analog In 4=24, AEM 3 Analog In 5=25, AEM 3 Analog In 6=26, AEM 3 Analog In 7=27, AEM 3 Analog In 8=28, AEM 4 Analog In 1=29, AEM 4 Analog In 2=30, AEM 4 Analog In 3=31, AEM 4 Analog In 4=32, AEM 4 Analog In 5=33, AEM 4 Analog In 6=34, AEM 4 Analog In 7=35, AEM 4 Analog In 8=36, System Manager=37
Baseload Level	Bias Max	GG	4849	Float	4	R W	Percent	-100 - 100
Baseload Level	Bias Min	GG	4851	Float	4	R W	Percent	-100 - 100
Baseload Level	Ramp Rate	GG	4853	Float	4	R W	Percent Per Second	0.1 - 100
Baseload Level	Pre-position 1	GG	4855	Float	4	R W	Percent	0 - 100
Baseload Level	Pre-position 2	GG	4857	Float	4	R W	Percent	0 - 100
Baseload Level	Pre-position 3	GG	4859	Float	4	R W	Percent	0 - 100
Baseload Level	Pre-position 4	GG	4861	Float	4	R W	Percent	0 - 100
Baseload Level	Pre-position 5	GG	4863	Float	4	R W	Percent	0 - 100
Baseload Level	Pre-position 1 Ramp Rate	GG	4865	Float	4	R W	Percent Per Second	0 - 100
Baseload Level	Pre-position 2 Ramp Rate	GG	4867	Float	4	R W	Percent Per Second	0 - 100
Baseload Level	Pre-position 3 Ramp Rate	GG	4869	Float	4	R W	Percent Per Second	0 - 100
Baseload Level	Pre-position 4 Ramp Rate	GG	4871	Float	4	R W	Percent Per Second	0 - 100
Baseload Level	Pre-position 5 Ramp Rate	GG	4873	Float	4	R W	Percent Per Second	0 - 100
Baseload Level	Auto Save	GG	4875	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Island Baseload Level	Setpoint Max	GG	4877	Float	4	R W	Percent	0 - 100
Island Baseload Level	Setpoint Min	GG	4879	Float	4	R W	Percent	0 - 100
Island Baseload Level	Analog Input Source	GG	4881	UInt32	4	R W	n/a	None=0, Local Analog Input 1=1, Local Analog Input 2=2, Local Analog Input 3=3, Local Analog Input 4=4, AEM 1 Analog In 1=5, AEM 1 Analog In 2=6, AEM 1 Analog In 3=7, AEM 1 Analog In 4=8, AEM 1 Analog In 5=9, AEM 1 Analog In 6=10, AEM 1 Analog In 7=11, AEM 1 Analog In 8=12, AEM 2 Analog In 1=13, AEM 2 Analog In 2=14, AEM 2 Analog In 3=15, AEM 2 Analog In 4=16, AEM 2 Analog In 5=17, AEM 2 Analog In 6=18, AEM 2 Analog In 7=19, AEM 2 Analog In 8=20, AEM 3 Analog In 1=21, AEM 3 Analog In 2=22, AEM 3 Analog In 3=23, AEM 3 Analog In 4=24, AEM 3 Analog In 5=25, AEM 3 Analog In 6=26, AEM 3 Analog In 7=27, AEM 3 Analog In 8=28, AEM 4 Analog In 1=29, AEM 4 Analog In 2=30, AEM 4 Analog In 3=31, AEM 4 Analog In 4=32, AEM 4 Analog In 5=33, AEM 4 Analog In 6=34, AEM 4 Analog In 7=35, AEM 4 Analog In 8=36, System Manager=37
Island Baseload Level	Bias Max	GG	4883	Float	4	R W	Percent	-100 - 100
Island Baseload Level	Bias Min	GG	4885	Float	4	R W	Percent	-100 - 100
Island Baseload Level	Ramp Rate	GG	4887	Float	4	R W	Percent Per Second	0.1 - 100
Island Baseload Level	Pre-position 1	GG	4889	Float	4	R W	Percent	0 - 100
Island Baseload Level	Pre-position 2	GG	4891	Float	4	R W	Percent	0 - 100

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Island Baseload Level	Pre-position 3	GG	4893	Float	4	R W	Percent	0 - 100
Island Baseload Level	Pre-position 4	GG	4895	Float	4	R W	Percent	0 - 100
Island Baseload Level	Pre-position 5	GG	4897	Float	4	R W	Percent	0 - 100
Island Baseload Level	Pre-position 1 Ramp Rate	GG	4899	Float	4	R W	Percent Per Second	0 - 100
Island Baseload Level	Pre-position 2 Ramp Rate	GG	4901	Float	4	R W	Percent Per Second	0 - 100
Island Baseload Level	Pre-position 3 Ramp Rate	GG	4903	Float	4	R W	Percent Per Second	0 - 100
Island Baseload Level	Pre-position 4 Ramp Rate	GG	4905	Float	4	R W	Percent Per Second	0 - 100
Island Baseload Level	Pre-position 5 Ramp Rate	GG	4907	Float	4	R W	Percent Per Second	0 - 100
Island Baseload Level	Auto Save	GG	4909	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Kvar Setpoint	Setpoint Max	GG	4911	Float	4	R W	Percent	0 - 100
Kvar Setpoint	Setpoint Min	GG	4913	Float	4	R W	Percent	0 - 100
Kvar Setpoint	Analog Input Source	GG	4915	UInt32	4	R W	n/a	None=0, Local Analog Input 1=1, Local Analog Input 2=2, Local Analog Input 3=3, Local Analog Input 4=4, AEM 1 Analog In 1=5, AEM 1 Analog In 2=6, AEM 1 Analog In 3=7, AEM 1 Analog In 4=8, AEM 1 Analog In 5=9, AEM 1 Analog In 6=10, AEM 1 Analog In 7=11, AEM 1 Analog In 8=12, AEM 2 Analog In 1=13, AEM 2 Analog In 2=14, AEM 2 Analog In 3=15, AEM 2 Analog In 4=16, AEM 2 Analog In 5=17, AEM 2 Analog In 6=18, AEM 2 Analog In 7=19, AEM 2 Analog In 8=20, AEM 3 Analog In 1=21, AEM 3 Analog In 2=22, AEM 3 Analog In 3=23, AEM 3 Analog In 4=24, AEM 3 Analog In 5=25, AEM 3 Analog In 6=26, AEM 3 Analog In 7=27, AEM 3 Analog In 8=28, AEM 4 Analog In 1=29, AEM 4 Analog In 2=30, AEM 4 Analog In 3=31, AEM 4 Analog In 4=32, AEM 4 Analog In 5=33, AEM 4 Analog In 6=34, AEM 4 Analog In 7=35, AEM 4 Analog In 8=36, System Manager=37
Kvar Setpoint	Bias Max	GG	4917	Float	4	R W	Percent	-100 - 100
Kvar Setpoint	Bias Min	GG	4919	Float	4	R W	Percent	-100 - 100
Kvar Setpoint	Ramp Rate	GG	4921	Float	4	R W	Percent Per Second	0.1 - 100
Kvar Setpoint	Pre-position 1	GG	4923	Float	4	R W	Percent	0 - 100
Kvar Setpoint	Pre-position 2	GG	4925	Float	4	R W	Percent	0 - 100
Kvar Setpoint	Pre-position 3	GG	4927	Float	4	R W	Percent	0 - 100
Kvar Setpoint	Pre-position 4	GG	4929	Float	4	R W	Percent	0 - 100
Kvar Setpoint	Pre-position 5	GG	4931	Float	4	R W	Percent	0 - 100
Kvar Setpoint	Pre-position 1 Ramp Rate	GG	4933	Float	4	R W	Percent Per Second	0 - 100
Kvar Setpoint	Pre-position 2 Ramp Rate	GG	4935	Float	4	R W	Percent Per Second	0 - 100
Kvar Setpoint	Pre-position 3 Ramp Rate	GG	4937	Float	4	R W	Percent Per Second	0 - 100
Kvar Setpoint	Pre-position 4 Ramp Rate	GG	4939	Float	4	R W	Percent Per Second	0 - 100
Kvar Setpoint	Pre-position 5 Ramp Rate	GG	4941	Float	4	R W	Percent Per Second	0 - 100
Kvar Setpoint	Auto Save	GG	4943	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Coolant Temp Sender Fail	Minimum Input Resistance	GG	4945	Float	4	R W	Ohm	0 - 3500
Coolant Temp Sender Fail	Maximum Input Resistance	GG	4947	Float	4	R W	Ohm	0 - 3500
Coolant Temp Sender Fail	Contact Recognition	GG	4949	UInt32	4	R W	n/a	Always=0 Engine Running=1
Oil Pressure Sender Fail	Minimum Input Resistance	GG	4951	Float	4	R W	Ohm	0 - 300
Oil Pressure Sender Fail	Maximum Input Resistance	GG	4953	Float	4	R W	Ohm	0 - 300
Oil Pressure Sender Fail	Contact Recognition	GG	4955	UInt32	4	R W	n/a	Always=0 Engine Running=1
Fuel Level Sender Fail	Minimum Input Resistance	GG	4957	Float	4	R W	Ohm	0 - 300
Fuel Level Sender Fail	Maximum Input Resistance	GG	4959	Float	4	R W	Ohm	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Fuel Level Sender Fail	Contact Recognition	GG	4961	UInt32	4	R W	n/a	Always=0 Engine Running=1
Reserved			4963-67					
Load Shedding	Enable	GG	15000	UInt32	4	R W		Disabled=0 Enabled=1
Load Shedding	Load Add Reserve	GG	15002	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load Add Reserve Bias 1	GG	15004	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load Add Reserve Bias 2	GG	15006	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load Add Reserve Bias 3	GG	15008	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load Add Reserve Bias 4	GG	15010	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load Add Reserve Bias 5	GG	15012	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load Add Reserve Bias 6	GG	15014	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load Add Reserve Bias 7	GG	15016	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load Add Reserve Bias 8	GG	15018	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load Add Reserve Bias 9	GG	15020	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load Add Reserve Bias 10	GG	15022	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load Add Reserve Bias 11	GG	15024	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load Add Reserve Bias 12	GG	15026	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load Add Reserve Bias 13	GG	15028	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load Add Reserve Bias 14	GG	15030	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load Add Reserve Bias 15	GG	15032	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load Add Reserve Bias 16	GG	15034	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 1 Priority	GG	15036	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 1 Delay	GG	15038	Float	4	R W	Second	0 - 60
Load Shedding	Load 1 Fast Delay	GG	15040	Float	4	R W	Second	0 - 60
Load Shedding	Load 1 Add Delay	GG	15042	Float	4	R W	Second	0 - 3600
Load Shedding	Load 1 kW Size	GG	15044	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 2 Priority	GG	15046	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 2 Delay	GG	15048	Float	4	R W	Second	0 - 60
Load Shedding	Load 2 Fast Delay	GG	15050	Float	4	R W	Second	0 - 60
Load Shedding	Load 2 Add Delay	GG	15052	Float	4	R W	Second	0 - 3600
Load Shedding	Load 2 kW Size	GG	15054	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 3 Priority	GG	15056	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 3 Delay	GG	15058	Float	4	R W	Second	0 - 60
Load Shedding	Load 3 Fast Delay	GG	15060	Float	4	R W	Second	0 - 60
Load Shedding	Load 3 Add Delay	GG	15062	Float	4	R W	Second	0 - 3600
Load Shedding	Load 3 kW Size	GG	15064	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 4 Priority	GG	15066	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 4 Delay	GG	15068	Float	4	R W	Second	0 - 60
Load Shedding	Load 4 Fast Delay	GG	15070	Float	4	R W	Second	0 - 60
Load Shedding	Load 4 Add Delay	GG	15072	Float	4	R W	Second	0 - 3600
Load Shedding	Load 4 kW Size	GG	15074	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 5 Priority	GG	15076	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 5 Delay	GG	15078	Float	4	R W	Second	0 - 60
Load Shedding	Load 5 Fast Delay	GG	15080	Float	4	R W	Second	0 - 60
Load Shedding	Load 5 Add Delay	GG	15082	Float	4	R W	Second	0 - 3600
Load Shedding	Load 5 kW Size	GG	15084	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 6 Priority	GG	15086	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 6 Delay	GG	15088	Float	4	R W	Second	0 - 60
Load Shedding	Load 6 Fast Delay	GG	15090	Float	4	R W	Second	0 - 60

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Load Shedding	Load 6 Add Delay	GG	15092	Float	4	R W	Second	0 - 3600
Load Shedding	Load 6 kW Size	GG	15094	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 7 Priority	GG	15096	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 7 Delay	GG	15098	Float	4	R W	Second	0 - 60
Load Shedding	Load 7 Fast Delay	GG	15100	Float	4	R W	Second	0 - 60
Load Shedding	Load 7 Add Delay	GG	15102	Float	4	R W	Second	0 - 3600
Load Shedding	Load 7 kW Size	GG	15104	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 8 Priority	GG	15106	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 8 Delay	GG	15108	Float	4	R W	Second	0 - 60
Load Shedding	Load 8 Fast Delay	GG	15110	Float	4	R W	Second	0 - 60
Load Shedding	Load 8 Add Delay	GG	15112	Float	4	R W	Second	0 - 3600
Load Shedding	Load 8 kW Size	GG	15114	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 9 Priority	GG	15116	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 9 Delay	GG	15118	Float	4	R W	Second	0 - 60
Load Shedding	Load 9 Fast Delay	GG	15120	Float	4	R W	Second	0 - 60
Load Shedding	Load 9 Add Delay	GG	15122	Float	4	R W	Second	0 - 3600
Load Shedding	Load 9 kW Size	GG	15124	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 10 Priority	GG	15126	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 10 Delay	GG	15128	Float	4	R W	Second	0 - 60
Load Shedding	Load 10 Fast Delay	GG	15130	Float	4	R W	Second	0 - 60
Load Shedding	Load 10 Add Delay	GG	15132	Float	4	R W	Second	0 - 3600
Load Shedding	Load 10 kW Size	GG	15134	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 11 Priority	GG	15136	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 11 Delay	GG	15138	Float	4	R W	Second	0 - 60
Load Shedding	Load 11 Fast Delay	GG	15140	Float	4	R W	Second	0 - 60
Load Shedding	Load 11 Add Delay	GG	15142	Float	4	R W	Second	0 - 3600
Load Shedding	Load 11 kW Size	GG	15144	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 12 Priority	GG	15146	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 12 Delay	GG	15148	Float	4	R W	Second	0 - 60
Load Shedding	Load 12 Fast Delay	GG	15150	Float	4	R W	Second	0 - 60
Load Shedding	Load 12 Add Delay	GG	15152	Float	4	R W	Second	0 - 3600
Load Shedding	Load 12 kW Size	GG	15154	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 13 Priority	GG	15156	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 13 Delay	GG	15158	Float	4	R W	Second	0 - 60
Load Shedding	Load 13 Fast Delay	GG	15160	Float	4	R W	Second	0 - 60
Load Shedding	Load 13 Add Delay	GG	15162	Float	4	R W	Second	0 - 3600
Load Shedding	Load 13 kW Size	GG	15164	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 14 Priority	GG	15166	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 14 Delay	GG	15168	Float	4	R W	Second	0 - 60
Load Shedding	Load 14 Fast Delay	GG	15170	Float	4	R W	Second	0 - 60
Load Shedding	Load 14 Add Delay	GG	15172	Float	4	R W	Second	0 - 3600
Load Shedding	Load 14 kW Size	GG	15174	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 15 Priority	GG	15176	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 15 Delay	GG	15178	Float	4	R W	Second	0 - 60
Load Shedding	Load 15 Fast Delay	GG	15180	Float	4	R W	Second	0 - 60
Load Shedding	Load 15 Add Delay	GG	15182	Float	4	R W	Second	0 - 3600
Load Shedding	Load 15 kW Size	GG	15184	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 16 Priority	GG	15186	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 16 Delay	GG	15188	Float	4	R W	Second	0 - 60
Load Shedding	Load 16 Fast Delay	GG	15190	Float	4	R W	Second	0 - 60
Load Shedding	Load 16 Add Delay	GG	15192	Float	4	R W	Second	0 - 3600

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Load Shedding	Load 16 kW Size	GG	15194	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 17 Priority	GG	15196	Uint32	4	R W	n/a	0 - 255
Load Shedding	Load 17 Delay	GG	15198	Float	4	R W	Second	0 - 60
Load Shedding	Load 17 Fast Delay	GG	15200	Float	4	R W	Second	0 - 60
Load Shedding	Load 17 Add Delay	GG	15202	Float	4	R W	Second	0 - 3600
Load Shedding	Load 17 kW Size	GG	15204	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 18 Priority	GG	15206	Uint32	4	R W	n/a	0 - 255
Load Shedding	Load 18 Delay	GG	15208	Float	4	R W	Second	0 - 60
Load Shedding	Load 18 Fast Delay	GG	15210	Float	4	R W	Second	0 - 60
Load Shedding	Load 18 Add Delay	GG	15212	Float	4	R W	Second	0 - 3600
Load Shedding	Load 18 kW Size	GG	15214	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 19 Priority	GG	15216	Uint32	4	R W	n/a	0 - 255
Load Shedding	Load 19 Delay	GG	15218	Float	4	R W	Second	0 - 60
Load Shedding	Load 19 Fast Delay	GG	15220	Float	4	R W	Second	0 - 60
Load Shedding	Load 19 Add Delay	GG	15222	Float	4	R W	Second	0 - 3600
Load Shedding	Load 19 kW Size	GG	15224	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 20 Priority	GG	15226	Uint32	4	R W	n/a	0 - 255
Load Shedding	Load 20 Delay	GG	15228	Float	4	R W	Second	0 - 60
Load Shedding	Load 20 Fast Delay	GG	15230	Float	4	R W	Second	0 - 60
Load Shedding	Load 20 Add Delay	GG	15232	Float	4	R W	Second	0 - 3600
Load Shedding	Load 20 kW Size	GG	15234	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 21 Priority	GG	15236	Uint32	4	R W	n/a	0 - 255
Load Shedding	Load 21 Delay	GG	15238	Float	4	R W	Second	0 - 60
Load Shedding	Load 21 Fast Delay	GG	15240	Float	4	R W	Second	0 - 60
Load Shedding	Load 21 Add Delay	GG	15242	Float	4	R W	Second	0 - 3600
Load Shedding	Load 21 kW Size	GG	15244	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 22 Priority	GG	15246	Uint32	4	R W	n/a	0 - 255
Load Shedding	Load 22 Delay	GG	15248	Float	4	R W	Second	0 - 60
Load Shedding	Load 22 Fast Delay	GG	15250	Float	4	R W	Second	0 - 60
Load Shedding	Load 22 Add Delay	GG	15252	Float	4	R W	Second	0 - 3600
Load Shedding	Load 22 kW Size	GG	15254	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 23 Priority	GG	15256	Uint32	4	R W	n/a	0 - 255
Load Shedding	Load 23 Delay	GG	15258	Float	4	R W	Second	0 - 60
Load Shedding	Load 23 Fast Delay	GG	15260	Float	4	R W	Second	0 - 60
Load Shedding	Load 23 Add Delay	GG	15262	Float	4	R W	Second	0 - 3600
Load Shedding	Load 23 kW Size	GG	15264	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 24 Priority	GG	15266	Uint32	4	R W	n/a	0 - 255
Load Shedding	Load 24 Delay	GG	15268	Float	4	R W	Second	0 - 60
Load Shedding	Load 24 Fast Delay	GG	15270	Float	4	R W	Second	0 - 60
Load Shedding	Load 24 Add Delay	GG	15272	Float	4	R W	Second	0 - 3600
Load Shedding	Load 24 kW Size	GG	15274	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 25 Priority	GG	15276	Uint32	4	R W	n/a	0 - 255
Load Shedding	Load 25 Delay	GG	15278	Float	4	R W	Second	0 - 60
Load Shedding	Load 25 Fast Delay	GG	15280	Float	4	R W	Second	0 - 60
Load Shedding	Load 25 Add Delay	GG	15282	Float	4	R W	Second	0 - 3600
Load Shedding	Load 25 kW Size	GG	15284	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 26 Priority	GG	15286	Uint32	4	R W	n/a	0 - 255
Load Shedding	Load 26 Delay	GG	15288	Float	4	R W	Second	0 - 60
Load Shedding	Load 26 Fast Delay	GG	15290	Float	4	R W	Second	0 - 60

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Load Shedding	Load 26 Add Delay	GG	15292	Float	4	R W	Second	0 - 3600
Load Shedding	Load 26 kW Size	GG	15294	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 27 Priority	GG	15296	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 27 Delay	GG	15298	Float	4	R W	Second	0 - 60
Load Shedding	Load 27 Fast Delay	GG	15300	Float	4	R W	Second	0 - 60
Load Shedding	Load 27 Add Delay	GG	15302	Float	4	R W	Second	0 - 3600
Load Shedding	Load 27 kW Size	GG	15304	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 28 Priority	GG	15306	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 28 Delay	GG	15308	Float	4	R W	Second	0 - 60
Load Shedding	Load 28 Fast Delay	GG	15310	Float	4	R W	Second	0 - 60
Load Shedding	Load 28 Add Delay	GG	15312	Float	4	R W	Second	0 - 3600
Load Shedding	Load 28 kW Size	GG	15314	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 29 Priority	GG	15316	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 29 Delay	GG	15318	Float	4	R W	Second	0 - 60
Load Shedding	Load 29 Fast Delay	GG	15320	Float	4	R W	Second	0 - 60
Load Shedding	Load 29 Add Delay	GG	15322	Float	4	R W	Second	0 - 3600
Load Shedding	Load 29 kW Size	GG	15324	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 30 Priority	GG	15326	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 30 Delay	GG	15328	Float	4	R W	Second	0 - 60
Load Shedding	Load 30 Fast Delay	GG	15330	Float	4	R W	Second	0 - 60
Load Shedding	Load 30 Add Delay	GG	15332	Float	4	R W	Second	0 - 3600
Load Shedding	Load 30 kW Size	GG	15334	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 31 Priority	GG	15336	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 31 Delay	GG	15338	Float	4	R W	Second	0 - 60
Load Shedding	Load 31 Fast Delay	GG	15340	Float	4	R W	Second	0 - 60
Load Shedding	Load 31 Add Delay	GG	15342	Float	4	R W	Second	0 - 3600
Load Shedding	Load 31 kW Size	GG	15344	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 32 Priority	GG	15346	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 32 Delay	GG	15348	Float	4	R W	Second	0 - 60
Load Shedding	Load 32 Fast Delay	GG	15350	Float	4	R W	Second	0 - 60
Load Shedding	Load 32 Add Delay	GG	15352	Float	4	R W	Second	0 - 3600
Load Shedding	Load 32 kW Size	GG	15354	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 33 Priority	GG	15356	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 33 Delay	GG	15358	Float	4	R W	Second	0 - 60
Load Shedding	Load 33 Fast Delay	GG	15360	Float	4	R W	Second	0 - 60
Load Shedding	Load 33 Add Delay	GG	15362	Float	4	R W	Second	0 - 3600
Load Shedding	Load 33 kW Size	GG	15364	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 34 Priority	GG	15366	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 34 Delay	GG	15368	Float	4	R W	Second	0 - 60
Load Shedding	Load 34 Fast Delay	GG	15370	Float	4	R W	Second	0 - 60
Load Shedding	Load 34 Add Delay	GG	15372	Float	4	R W	Second	0 - 3600
Load Shedding	Load 34 kW Size	GG	15374	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 35 Priority	GG	15376	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 35 Delay	GG	15378	Float	4	R W	Second	0 - 60
Load Shedding	Load 35 Fast Delay	GG	15380	Float	4	R W	Second	0 - 60
Load Shedding	Load 35 Add Delay	GG	15382	Float	4	R W	Second	0 - 3600
Load Shedding	Load 35 kW Size	GG	15384	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 36 Priority	GG	15386	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 36 Delay	GG	15388	Float	4	R W	Second	0 - 60

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Load Shedding	Load 36 Fast Delay	GG	15390	Float	4	R W	Second	0 - 60
Load Shedding	Load 36 Add Delay	GG	15392	Float	4	R W	Second	0 - 3600
Load Shedding	Load 36 kW Size	GG	15394	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 37 Priority	GG	15396	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 37 Delay	GG	15398	Float	4	R W	Second	0 - 60
Load Shedding	Load 37 Fast Delay	GG	15400	Float	4	R W	Second	0 - 60
Load Shedding	Load 37 Add Delay	GG	15402	Float	4	R W	Second	0 - 3600
Load Shedding	Load 37 kW Size	GG	15404	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 38 Priority	GG	15406	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 38 Delay	GG	15408	Float	4	R W	Second	0 - 60
Load Shedding	Load 38 Fast Delay	GG	15410	Float	4	R W	Second	0 - 60
Load Shedding	Load 38 Add Delay	GG	15412	Float	4	R W	Second	0 - 3600
Load Shedding	Load 38 kW Size	GG	15414	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 39 Priority	GG	15416	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 39 Delay	GG	15418	Float	4	R W	Second	0 - 60
Load Shedding	Load 39 Fast Delay	GG	15420	Float	4	R W	Second	0 - 60
Load Shedding	Load 39 Add Delay	GG	15422	Float	4	R W	Second	0 - 3600
Load Shedding	Load 39 kW Size	GG	15424	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 40 Priority	GG	15426	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 40 Delay	GG	15428	Float	4	R W	Second	0 - 60
Load Shedding	Load 40 Fast Delay	GG	15430	Float	4	R W	Second	0 - 60
Load Shedding	Load 40 Add Delay	GG	15432	Float	4	R W	Second	0 - 3600
Load Shedding	Load 40 kW Size	GG	15434	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 41 Priority	GG	15436	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 41 Delay	GG	15438	Float	4	R W	Second	0 - 60
Load Shedding	Load 41 Fast Delay	GG	15440	Float	4	R W	Second	0 - 60
Load Shedding	Load 41 Add Delay	GG	15442	Float	4	R W	Second	0 - 3600
Load Shedding	Load 41 kW Size	GG	15444	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 42 Priority	GG	15446	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 42 Delay	GG	15448	Float	4	R W	Second	0 - 60
Load Shedding	Load 42 Fast Delay	GG	15450	Float	4	R W	Second	0 - 60
Load Shedding	Load 42 Add Delay	GG	15452	Float	4	R W	Second	0 - 3600
Load Shedding	Load 42 kW Size	GG	15454	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 43 Priority	GG	15456	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 43 Delay	GG	15458	Float	4	R W	Second	0 - 60
Load Shedding	Load 43 Fast Delay	GG	15460	Float	4	R W	Second	0 - 60
Load Shedding	Load 43 Add Delay	GG	15462	Float	4	R W	Second	0 - 3600
Load Shedding	Load 43 kW Size	GG	15464	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 44 Priority	GG	15466	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 44 Delay	GG	15468	Float	4	R W	Second	0 - 60
Load Shedding	Load 44 Fast Delay	GG	15470	Float	4	R W	Second	0 - 60
Load Shedding	Load 44 Add Delay	GG	15472	Float	4	R W	Second	0 - 3600
Load Shedding	Load 44 kW Size	GG	15474	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 45 Priority	GG	15476	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 45 Delay	GG	15478	Float	4	R W	Second	0 - 60
Load Shedding	Load 45 Fast Delay	GG	15480	Float	4	R W	Second	0 - 60
Load Shedding	Load 45 Add Delay	GG	15482	Float	4	R W	Second	0 - 3600
Load Shedding	Load 45 kW Size	GG	15484	Float	4	R W	Kilowatt	0 - 999999

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Load Shedding	Load 46 Priority	GG	15486	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 46 Delay	GG	15488	Float	4	R W	Second	0 - 60
Load Shedding	Load 46 Fast Delay	GG	15490	Float	4	R W	Second	0 - 60
Load Shedding	Load 46 Add Delay	GG	15492	Float	4	R W	Second	0 - 3600
Load Shedding	Load 46 kW Size	GG	15494	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 47 Priority	GG	15496	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 47 Delay	GG	15498	Float	4	R W	Second	0 - 60
Load Shedding	Load 47 Fast Delay	GG	15500	Float	4	R W	Second	0 - 60
Load Shedding	Load 47 Add Delay	GG	15502	Float	4	R W	Second	0 - 3600
Load Shedding	Load 47 kW Size	GG	15504	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 48 Priority	GG	15506	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 48 Delay	GG	15508	Float	4	R W	Second	0 - 60
Load Shedding	Load 48 Fast Delay	GG	15510	Float	4	R W	Second	0 - 60
Load Shedding	Load 48 Add Delay	GG	15512	Float	4	R W	Second	0 - 3600
Load Shedding	Load 48 kW Size	GG	15514	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 49 Priority	GG	15516	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 49 Delay	GG	15518	Float	4	R W	Second	0 - 60
Load Shedding	Load 49 Fast Delay	GG	15520	Float	4	R W	Second	0 - 60
Load Shedding	Load 49 Add Delay	GG	15522	Float	4	R W	Second	0 - 3600
Load Shedding	Load 49 kW Size	GG	15524	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 50 Priority	GG	15526	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 50 Delay	GG	15528	Float	4	R W	Second	0 - 60
Load Shedding	Load 50 Fast Delay	GG	15530	Float	4	R W	Second	0 - 60
Load Shedding	Load 50 Add Delay	GG	15532	Float	4	R W	Second	0 - 3600
Load Shedding	Load 50 kW Size	GG	15534	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 51 Priority	GG	15536	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 51 Delay	GG	15538	Float	4	R W	Second	0 - 60
Load Shedding	Load 51 Fast Delay	GG	15540	Float	4	R W	Second	0 - 60
Load Shedding	Load 51 Add Delay	GG	15542	Float	4	R W	Second	0 - 3600
Load Shedding	Load 51 kW Size	GG	15544	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 52 Priority	GG	15546	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 52 Delay	GG	15548	Float	4	R W	Second	0 - 60
Load Shedding	Load 52 Fast Delay	GG	15550	Float	4	R W	Second	0 - 60
Load Shedding	Load 52 Add Delay	GG	15552	Float	4	R W	Second	0 - 3600
Load Shedding	Load 52 kW Size	GG	15554	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 53 Priority	GG	15556	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 53 Delay	GG	15558	Float	4	R W	Second	0 - 60
Load Shedding	Load 53 Fast Delay	GG	15560	Float	4	R W	Second	0 - 60
Load Shedding	Load 53 Add Delay	GG	15562	Float	4	R W	Second	0 - 3600
Load Shedding	Load 53 kW Size	GG	15564	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 54 Priority	GG	15566	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 54 Delay	GG	15568	Float	4	R W	Second	0 - 60
Load Shedding	Load 54 Fast Delay	GG	15570	Float	4	R W	Second	0 - 60
Load Shedding	Load 54 Add Delay	GG	15572	Float	4	R W	Second	0 - 3600
Load Shedding	Load 54 kW Size	GG	15574	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 55 Priority	GG	15576	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 55 Delay	GG	15578	Float	4	R W	Second	0 - 60
Load Shedding	Load 55 Fast Delay	GG	15580	Float	4	R W	Second	0 - 60
Load Shedding	Load 55 Add Delay	GG	15582	Float	4	R W	Second	0 - 3600

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Load Shedding	Load 55 kW Size	GG	15584	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 56 Priority	GG	15586	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 56 Delay	GG	15588	Float	4	R W	Second	0 - 60
Load Shedding	Load 56 Fast Delay	GG	15590	Float	4	R W	Second	0 - 60
Load Shedding	Load 56 Add Delay	GG	15592	Float	4	R W	Second	0 - 3600
Load Shedding	Load 56 kW Size	GG	15594	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 57 Priority	GG	15596	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 57 Delay	GG	15598	Float	4	R W	Second	0 - 60
Load Shedding	Load 57 Fast Delay	GG	15600	Float	4	R W	Second	0 - 60
Load Shedding	Load 57 Add Delay	GG	15602	Float	4	R W	Second	0 - 3600
Load Shedding	Load 57 kW Size	GG	15604	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 58 Priority	GG	15606	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 58 Delay	GG	15608	Float	4	R W	Second	0 - 60
Load Shedding	Load 58 Fast Delay	GG	15610	Float	4	R W	Second	0 - 60
Load Shedding	Load 58 Add Delay	GG	15612	Float	4	R W	Second	0 - 3600
Load Shedding	Load 58 kW Size	GG	15614	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 59 Priority	GG	15616	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 59 Delay	GG	15618	Float	4	R W	Second	0 - 60
Load Shedding	Load 59 Fast Delay	GG	15620	Float	4	R W	Second	0 - 60
Load Shedding	Load 59 Add Delay	GG	15622	Float	4	R W	Second	0 - 3600
Load Shedding	Load 59 kW Size	GG	15624	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 60 Priority	GG	15626	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 60 Delay	GG	15628	Float	4	R W	Second	0 - 60
Load Shedding	Load 60 Fast Delay	GG	15630	Float	4	R W	Second	0 - 60
Load Shedding	Load 60 Add Delay	GG	15632	Float	4	R W	Second	0 - 3600
Load Shedding	Load 60 kW Size	GG	15634	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 61 Priority	GG	15636	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 61 Delay	GG	15638	Float	4	R W	Second	0 - 60
Load Shedding	Load 61 Fast Delay	GG	15640	Float	4	R W	Second	0 - 60
Load Shedding	Load 61 Add Delay	GG	15642	Float	4	R W	Second	0 - 3600
Load Shedding	Load 61 kW Size	GG	15644	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 62 Priority	GG	15646	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 62 Delay	GG	15648	Float	4	R W	Second	0 - 60
Load Shedding	Load 62 Fast Delay	GG	15650	Float	4	R W	Second	0 - 60
Load Shedding	Load 62 Add Delay	GG	15652	Float	4	R W	Second	0 - 3600
Load Shedding	Load 62 kW Size	GG	15654	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 63 Priority	GG	15656	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 63 Delay	GG	15658	Float	4	R W	Second	0 - 60
Load Shedding	Load 63 Fast Delay	GG	15660	Float	4	R W	Second	0 - 60
Load Shedding	Load 63 Add Delay	GG	15662	Float	4	R W	Second	0 - 3600
Load Shedding	Load 63 kW Size	GG	15664	Float	4	R W	Kilowatt	0 - 999999
Load Shedding	Load 64 Priority	GG	15666	UInt32	4	R W	n/a	0 - 255
Load Shedding	Load 64 Delay	GG	15668	Float	4	R W	Second	0 - 60
Load Shedding	Load 64 Fast Delay	GG	15670	Float	4	R W	Second	0 - 60
Load Shedding	Load 64 Add Delay	GG	15672	Float	4	R W	Second	0 - 3600
Load Shedding	Load 64 kW Size	GG	15674	Float	4	R W	Kilowatt	0 - 999999

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
PF Setpoint	Analog Input Source	GG	15676	Uint32	4	R W	n/a	None=0, Local Analog Input 1=1, Local Analog Input 2=2, Local Analog Input 3=3, Local Analog Input 4=4, AEM 1 Analog In 1=5, AEM 1 Analog In 2=6, AEM 1 Analog In 3=7, AEM 1 Analog In 4=8, AEM 1 Analog In 5=9, AEM 1 Analog In 6=10, AEM 1 Analog In 7=11, AEM 1 Analog In 8=12, AEM 2 Analog In 1=13, AEM 2 Analog In 2=14, AEM 2 Analog In 3=15, AEM 2 Analog In 4=16, AEM 2 Analog In 5=17, AEM 2 Analog In 6=18, AEM 2 Analog In 7=19, AEM 2 Analog In 8=20, AEM 3 Analog In 1=21, AEM 3 Analog In 2=22, AEM 3 Analog In 3=23, AEM 3 Analog In 4=24, AEM 3 Analog In 5=25, AEM 3 Analog In 6=26, AEM 3 Analog In 7=27, AEM 3 Analog In 8=28, AEM 4 Analog In 1=29, AEM 4 Analog In 2=30, AEM 4 Analog In 3=31, AEM 4 Analog In 4=32, AEM 4 Analog In 5=33, AEM 4 Analog In 6=34, AEM 4 Analog In 7=35, AEM 4 Analog In 8=36, System Manager=37
PF Setpoint	Bias Max	GG	15678	Float	4	R W	Percent	-100 - 100
PF Setpoint	Bias Min	GG	15680	Float	4	R W	Percent	-100 - 100
PF Setpoint	Ramp Rate	GG	15682	Float	4	R W	Percent	0.1 - 100
PF Setpoint	Pre-position 1 Ramp Rate	GG	15684	Float	4	R W	Percent	0 - 100
PF Setpoint	Pre-position 2 Ramp Rate	GG	15686	Float	4	R W	Percent	0 - 100
PF Setpoint	Pre-position 3 Ramp Rate	GG	15688	Float	4	R W	Percent	0 - 100
PF Setpoint	Pre-position 4 Ramp Rate	GG	15690	Float	4	R W	Percent	0 - 100
PF Setpoint	Pre-position 5 Ramp Rate	GG	15692	Float	4	R W	Percent	0 - 100
PF Setpoint	Auto Save	GG	15694	Uint32	4	R W	n/a	Disabled=0, Enabled=1
Demand Start Stop	Start level 1 timeout setting	GG	15696	Float	4	R W	Second Time	0 - 32000
Demand Start Stop	Start level 2 timeout setting	GG	15698	Float	4	R W	Second Time	0 - 32000
Demand Start Stop	Stop timeout setting	GG	15700	Float	4	R W	Second Time	0 - 32000
Demand Start Stop	Delayed start level 1 setting	GG	15702	Float	4	R W	Per Unit	0 - 1
Demand Start Stop	Delayed start level 2 setting	GG	15704	Float	4	R W	Per Unit	0 - 1
Demand Start Stop	Delayed stop level setting	GG	15706	Float	4	R W	Per Unit	0 - 1
Demand Start Stop	Demand start stop mode	GG	15708	Uint32	4	R W	n/a	Disabled=0 Per Unit Load=1 Spinning Reserve=2
Demand Start Stop	Sequencing allow last unit shutdown enable setting	GG	15710	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Demand Start Stop	Spinning Reserve Capacity 1	GG	15712	Float	4	R W	Kilowatt	1 - 999999
Demand Start Stop	Spinning Reserve Capacity 2	GG	15714	Float	4	R W	Kilowatt	1 - 999999
Demand Start Stop	Spinning Reserve Hysteresis	GG	15716	Float	4	R W	Kilowatt	5 - 65000
Demand Start Stop	Spinning Reserve Start 1 Timeout	GG	15718	Float	4	R W	Second Time	0 - 32000
Demand Start Stop	Spinning Reserve Start 2 Timeout	GG	15720	Float	4	R W	Second Time	0 - 32000
Demand Start Stop	Spinning Reserve StopTimeout	GG	15722	Float	4	R W	Second Time	0 - 32000
Mains Parallel Demand Start Stop	Start Level 1 Timeout Setting	GG	15724	Float	4	R W	Second Time	0 - 32000
Mains Parallel Demand Start Stop	Start level 2 timeout setting	GG	15726	Float	4	R W	Second Time	0 - 32000
Mains Parallel Demand Start Stop	Stop timeout setting	GG	15728	Float	4	R W	Second Time	0 - 32000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Mains Parallel Demand Start Stop	Delayed start level 1 setting	GG	15730	Float	4	R W	Per Unit	0 - 1
Mains Parallel Demand Start Stop	Delayed start level 2 setting	GG	15732	Float	4	R W	Per Unit	0 - 1
Mains Parallel Demand Start Stop	Delayed stop level setting	GG	15734	Float	4	R W	Per Unit	0 - 1
Mains Parallel Demand Start Stop	Demand start stop mode	GG	15736	Uint32	4	R W	n/a	Disabled=0 Per Unit Load=1 Spinning Reserve=2
Mains Parallel Demand Start Stop	Sequencing allow last unit shutdown enable setting	GG	15738	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Mains Parallel Demand Start Stop	Spinning Reserve Capacity 1	GG	15740	Float	4	R W	Kilowatt	1 - 999999
Mains Parallel Demand Start Stop	Spinning Reserve Capacity 2	GG	15742	Float	4	R W	Kilowatt	1 - 999999
Mains Parallel Demand Start Stop	Spinning Reserve Hysteresis	GG	15744	Float	4	R W	Kilowatt	5 - 65000
Mains Parallel Demand Start Stop	Spinning Reserve Start 1 Timeout	GG	15746	Float	4	R W	Second Time	0 - 32000
Mains Parallel Demand Start Stop	Spinning Reserve Start 2 Timeout	GG	15748	Float	4	R W	Second Time	0 - 32000
Mains Parallel Demand Start Stop	Spinning Reserve Stop Timeout	GG	15750	Float	4	R W	Second Time	0 - 32000
Battery Charger 1	Battery Charger CAN Bus Type	GG	15752	Uint32	4	R W	n/a	None=0, Standard=1, Sens=2
Battery Charger 1	Comms Fail Pre-Alarm Enable	GG	15754	Uint32	4	R W	n/a	Disabled=0, Enabled=1
Battery Charger 1	Battery Failure Pre-Alarm Enable	GG	15756	Uint32	4	R W	n/a	Disabled=0, Enabled=1
Battery Charger 1	Charger Fail Pre-Alarm Enable	GG	15758	Uint32	4	R W	n/a	Disabled=0, Enabled=1
Battery Charger 1	AC Disconnected Pre-Alarm Enable	GG	15760	Uint32	4	R W	n/a	Disabled=0, Enabled=1
Battery Charger 1	Thermal Limit Pre-Alarm Enable	GG	15762	Uint32	4	R W	n/a	Disabled=0, Enabled=1
Battery Charger 1	High Output Voltage Pre-Alarm Enable	GG	15764	Uint32	4	R W	n/a	Disabled=0, Enabled=1
Battery Charger 1	Low Output Voltage Pre-Alarm Enable	GG	15766	Uint32	4	R W	n/a	Disabled=0, Enabled=1
Battery Charger 1	Low Cranking Voltage Pre-Alarm Enable	GG	15768	Uint32	4	R W	n/a	Disabled=0, Enabled=1
Battery Charger 1	Invalid Settings Pre-Alarm Enable	GG	15770	Uint32	4	R W	n/a	Disabled=0, Enabled=1
Battery Charger 1	Single Unit Fail Pre-Alarm Enable	GG	15772	Uint32	4	R W	n/a	Disabled=0, Enabled=1
Battery Charger 2	Battery Charger CAN Bus Type	GG	15774	Uint32	4	R W	n/a	None=0, Standard=1, Sens=2
Battery Charger 2	Comms Fail Pre-Alarm Enable	GG	15776	Uint32	4	R W	n/a	Disabled=0, Enabled=1
Battery Charger 2	Battery Failure Pre-Alarm Enable	GG	15778	Uint32	4	R W	n/a	Disabled=0, Enabled=1
Battery Charger 2	Charger Fail Pre-Alarm Enable	GG	15780	Uint32	4	R W	n/a	Disabled=0, Enabled=1
Battery Charger 2	AC Disconnected Pre-Alarm Enable	GG	15782	Uint32	4	R W	n/a	Disabled=0, Enabled=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Battery Charger 2	Thermal Limit Pre-Alarm Enable	GG	15784	UInt32	4	R W	n/a	Disabled=0, Enabled=1
Battery Charger 2	High Output Voltage Pre-Alarm Enable	GG	15786	UInt32	4	R W	n/a	Disabled=0, Enabled=1
Battery Charger 2	Low Output Voltage Pre-Alarm Enable	GG	15788	UInt32	4	R W	n/a	Disabled=0, Enabled=1
Battery Charger 2	Low Cranking Voltage Pre-Alarm Enable	GG	15790	UInt32	4	R W	n/a	Disabled=0, Enabled=1
Battery Charger 2	Invalid Settings Pre-Alarm Enable	GG	15792	UInt32	4	R W	n/a	Disabled=0, Enabled=1
Battery Charger 2	Single Unit Fail Pre-Alarm Enable	GG	15794	UInt32	4	R W	n/a	Disabled=0, Enabled=1
Config DTC 1	Contact Recognition	GG	15796	UInt32	4	R W	n/a	Always=0, Engine Running=1
Config DTC 1	Alarm Configuration	GG	15798	UInt32	4	R W	n/a	Status Only=0, Pre-Alarm=1, Alarm=2, Alarm Unload=3, Alarm Cooldown=4, Alarm Unld Cooldwn=5
Config DTC 1	Activation Delay	GG	15800	Float	4	R W	Second	0 – 300
Config DTC 1	Suspect Parameter Number	GG	15802	UInt32	4	R W	n/a	0 – 524287
Config DTC 1	Failure Mode Indicator	GG	15804	UInt32	4	R W	n/a	0 – 31
Config DTC 2	Contact Recognition	GG	15806	UInt32	4	R W	n/a	Always=0, Engine Running=1
Config DTC 2	Alarm Configuration	GG	15808	UInt32	4	R W	n/a	Status Only=0, Pre-Alarm=1, Alarm=2, Alarm Unload=3, Alarm Cooldown=4, Alarm Unld Cooldwn=5
Config DTC 2	Activation Delay	GG	15810	Float	4	R W	Second	0 – 300
Config DTC 2	Suspect Parameter Number	GG	15812	UInt32	4	R W	n/a	0 – 524287
Config DTC 2	Failure Mode Indicator	GG	15814	UInt32	4	R W	n/a	0 – 31
Config DTC 3	Contact Recognition	GG	15816	UInt32	4	R W	n/a	Always=0, Engine Running=1
Config DTC 3	Alarm Configuration	GG	15818	UInt32	4	R W	n/a	Status Only=0, Pre-Alarm=1, Alarm=2, Alarm Unload=3, Alarm Cooldown=4, Alarm Unld Cooldwn=5
Config DTC 3	Activation Delay	GG	15820	Float	4	R W	Second	0 – 300
Config DTC 3	Suspect Parameter Number	GG	15822	UInt32	4	R W	n/a	0 – 524287
Config DTC 3	Failure Mode Indicator	GG	15824	UInt32	4	R W	n/a	0 – 31
Config DTC 4	Contact Recognition	GG	15826	UInt32	4	R W	n/a	Always=0, Engine Running=1
Config DTC 4	Alarm Configuration	GG	15828	UInt32	4	R W	n/a	Status Only=0, Pre-Alarm=1, Alarm=2, Alarm Unload=3, Alarm Cooldown=4, Alarm Unld Cooldwn=5
Config DTC 4	Activation Delay	GG	15830	Float	4	R W	Second	0 – 300
Config DTC 4	Suspect Parameter Number	GG	15832	UInt32	4	R W	n/a	0 – 524287
Config DTC 4	Failure Mode Indicator	GG	15834	UInt32	4	R W	n/a	0 – 31
Config DTC 5	Contact Recognition	GG	15836	UInt32	4	R W	n/a	Always=0, Engine Running=1
Config DTC 5	Alarm Configuration	GG	15838	UInt32	4	R W	n/a	Status Only=0, Pre-Alarm=1, Alarm=2, Alarm Unload=3, Alarm Cooldown=4, Alarm Unld Cooldwn=5
Config DTC 5	Activation Delay	GG	15840	Float	4	R W	Second	0 – 300
Config DTC 5	Suspect Parameter Number	GG	15842	UInt32	4	R W	n/a	0 – 524287
Config DTC 5	Failure Mode Indicator	GG	15844	UInt32	4	R W	n/a	0 – 31
Config DTC 6	Contact Recognition	GG	15846	UInt32	4	R W	n/a	Always=0, Engine Running=1
Config DTC 6	Alarm Configuration	GG	15848	UInt32	4	R W	n/a	Status Only=0, Pre-Alarm=1, Alarm=2, Alarm Unload=3, Alarm Cooldown=4, Alarm Unld Cooldwn=5
Config DTC 6	Activation Delay	GG	15850	Float	4	R W	Second	0 – 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Config DTC 6	Suspect Parameter Number	GG	15852	UInt32	4	R W	n/a	0 – 524287
Config DTC 6	Failure Mode Indicator	GG	15854	UInt32	4	R W	n/a	0 – 31
Config DTC 7	Contact Recognition	GG	15856	UInt32	4	R W	n/a	Always=0, Engine Running=1
Config DTC 7	Alarm Configuration	GG	15858	UInt32	4	R W	n/a	Status Only=0, Pre-Alarm=1, Alarm=2, Alarm Unload=3, Alarm Cooldown=4, Alarm Unld Cooldwn=5
Config DTC 7	Activation Delay	GG	15860	Float	4	R W	Second	0 – 300
Config DTC 7	Suspect Parameter Number	GG	15862	UInt32	4	R W	n/a	0 – 524287
Config DTC 7	Failure Mode Indicator	GG	15864	UInt32	4	R W	n/a	0 – 31
Config DTC 8	Contact Recognition	GG	15866	UInt32	4	R W	n/a	Always=0, Engine Running=1
Config DTC 8	Alarm Configuration	GG	15868	UInt32	4	R W	n/a	Status Only=0, Pre-Alarm=1, Alarm=2, Alarm Unload=3, Alarm Cooldown=4, Alarm Unld Cooldwn=5
Config DTC 8	Activation Delay	GG	15870	Float	4	R W	Second	0 – 300
Config DTC 8	Suspect Parameter Number	GG	15872	UInt32	4	R W	n/a	0 – 524287
Config DTC 8	Failure Mode Indicator	GG	15874	UInt32	4	R W	n/a	0 – 31
Config DTC 9	Contact Recognition	GG	15876	UInt32	4	R W	n/a	Always=0, Engine Running=1
Config DTC 9	Alarm Configuration	GG	15878	UInt32	4	R W	n/a	Status Only=0, Pre-Alarm=1, Alarm=2, Alarm Unload=3, Alarm Cooldown=4, Alarm Unld Cooldwn=5
Config DTC 9	Activation Delay	GG	15880	Float	4	R W	Second	0 – 300
Config DTC 9	Suspect Parameter Number	GG	15882	UInt32	4	R W	n/a	0 – 524287
Config DTC 9	Failure Mode Indicator	GG	15884	UInt32	4	R W	n/a	0 – 31
Config DTC 10	Contact Recognition	GG	15886	UInt32	4	R W	n/a	Always=0, Engine Running=1
Config DTC 10	Alarm Configuration	GG	15888	UInt32	4	R W	n/a	Status Only=0, Pre-Alarm=1, Alarm=2, Alarm Unload=3, Alarm Cooldown=4, Alarm Unld Cooldwn=5
Config DTC 10	Activation Delay	GG	15890	Float	4	R W	Second	0 – 300
Config DTC 10	Suspect Parameter Number	GG	15892	UInt32	4	R W	n/a	0 – 524287
Config DTC 10	Failure Mode Indicator	GG	15894	UInt32	4	R W	n/a	0 – 31
Config DTC 11	Contact Recognition	GG	15896	UInt32	4	R W	n/a	Always=0, Engine Running=1
Config DTC 11	Alarm Configuration	GG	15898	UInt32	4	R W	n/a	Status Only=0, Pre-Alarm=1, Alarm=2, Alarm Unload=3, Alarm Cooldown=4, Alarm Unld Cooldwn=5
Config DTC 11	Activation Delay	GG	15900	Float	4	R W	Second	0 – 300
Config DTC 11	Suspect Parameter Number	GG	15902	UInt32	4	R W	n/a	0 – 524287
Config DTC 11	Failure Mode Indicator	GG	15904	UInt32	4	R W	n/a	0 – 31
Config DTC 12	Contact Recognition	GG	15906	UInt32	4	R W	n/a	Always=0, Engine Running=1
Config DTC 12	Alarm Configuration	GG	15908	UInt32	4	R W	n/a	Status Only=0, Pre-Alarm=1, Alarm=2, Alarm Unload=3, Alarm Cooldown=4, Alarm Unld Cooldwn=5
Config DTC 12	Activation Delay	GG	15910	Float	4	R W	Second	0 – 300
Config DTC 12	Suspect Parameter Number	GG	15912	UInt32	4	R W	n/a	0 – 524287
Config DTC 12	Failure Mode Indicator	GG	15914	UInt32	4	R W	n/a	0 – 31
Config DTC 13	Contact Recognition	GG	15916	UInt32	4	R W	n/a	Always=0, Engine Running=1
Config DTC 13	Alarm Configuration	GG	15918	UInt32	4	R W	n/a	Status Only=0, Pre-Alarm=1, Alarm=2, Alarm Unload=3, Alarm Cooldown=4, Alarm Unld Cooldwn=5
Config DTC 13	Activation Delay	GG	15920	Float	4	R W	Second	0 – 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Config DTC 13	Suspect Parameter Number	GG	15922	UInt32	4	R W	n/a	0 – 524287
Config DTC 13	Failure Mode Indicator	GG	15924	UInt32	4	R W	n/a	0 – 31
Config DTC 14	Contact Recognition	GG	15926	UInt32	4	R W	n/a	Always=0, Engine Running=1
Config DTC 14	Alarm Configuration	GG	15928	UInt32	4	R W	n/a	Status Only=0, Pre-Alarm=1, Alarm=2, Alarm Unload=3, Alarm Cooldown=4, Alarm Unld Cooldwn=5
Config DTC 14	Activation Delay	GG	15930	Float	4	R W	Second	0 – 300
Config DTC 14	Suspect Parameter Number	GG	15932	UInt32	4	R W	n/a	0 – 524287
Config DTC 14	Failure Mode Indicator	GG	15934	UInt32	4	R W	n/a	0 – 31
Config DTC 15	Contact Recognition	GG	15936	UInt32	4	R W	n/a	Always=0, Engine Running=1
Config DTC 15	Alarm Configuration	GG	15938	UInt32	4	R W	n/a	Status Only=0, Pre-Alarm=1, Alarm=2, Alarm Unload=3, Alarm Cooldown=4, Alarm Unld Cooldwn=5
Config DTC 15	Activation Delay	GG	15940	Float	4	R W	Second	0 – 300
Config DTC 15	Suspect Parameter Number	GG	15942	UInt32	4	R W	n/a	0 – 524287
Config DTC 15	Failure Mode Indicator	GG	15944	UInt32	4	R W	n/a	0 – 31
Config DTC 16	Contact Recognition	GG	15946	UInt32	4	R W	n/a	Always=0, Engine Running=1
Config DTC 16	Alarm Configuration	GG	15948	UInt32	4	R W	n/a	Status Only=0, Pre-Alarm=1, Alarm=2, Alarm Unload=3, Alarm Cooldown=4, Alarm Unld Cooldwn=5
Config DTC 16	Activation Delay	GG	15950	Float	4	R W	Second	0 – 300
Config DTC 16	Suspect Parameter Number	GG	15952	UInt32	4	R W	n/a	0 – 524287
Config DTC 16	Failure Mode Indicator	GG	15954	UInt32	4	R W	n/a	0 – 31

Pulse Outputs Register Table

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AVR Pulse Output	Mode	GG	5000	UInt32	4	R W	n/a	Continuous=0 Proportional=1
AVR Pulse Output	Correction Pulse Width	GG	5002	Float	4	R W	Second	0 - 99.9
AVR Pulse Output	Correction Pulse Interval	GG	5004	Float	4	R W	Second	0 - 99.9
GOV Pulse Output	Mode	GG	5006	UInt32	4	R W	n/a	Continuous=0 Proportional=1
GOV Pulse Output	Correction Pulse Width	GG	5008	Float	4	R W	Second	0 - 99.9
GOV Pulse Output	Correction Pulse Interval	GG	5010	Float	4	R W	Second	0 - 99.9



Control Settings Register Table

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Virtual Switch	Virtual Switch 1 State	GG	5500	Uint32	4	R W	n/a	Open=0 Closed=1
Virtual Switch	Virtual Switch 2 State	GG	5502	Uint32	4	R W	n/a	Open=0 Closed=1
Virtual Switch	Virtual Switch 3 State	GG	5504	Uint32	4	R W	n/a	Open=0 Closed=1
Virtual Switch	Virtual Switch 4 State	GG	5506	Uint32	4	R W	n/a	Open=0 Closed=1
Virtual Switch	Virtual Switch 5 State	GG	5508	Uint32	4	R W	n/a	Open=0 Closed=1
Virtual Switch	Virtual Switch 6 State	GG	5510	Uint32	4	R W	n/a	Open=0 Closed=1
Coms Control Group	Emergency Stop: Writing a 1 will toggle emergency stop from off to on. Writing a 1 again will toggle emergency stop from on to off. When read, Off state =0 and On state =1.	GG	5512	Uint32	4	R W	n/a	Toggle On/Off=1
Coms Control Group	Remote Start	GG	5514	Uint32	4	R W	n/a	Trigger=1
Coms Control Group	Remote Stop	GG	5516	Uint32	4	R W	n/a	Trigger=1
Coms Control Group	Run Mode	GG	5518	Uint32	4	R W	n/a	Trigger=1
Coms Control Group	Off Mode	GG	5520	Uint32	4	R W	n/a	Trigger=1
Coms Control Group	Auto Mode	GG	5522	Uint32	4	R W	n/a	Trigger=1
Coms Control Group	Gen Breaker Open Request	GG	5524	Uint32	4	R W	n/a	Trigger=1
Coms Control Group	Gen Breaker Close Request	GG	5526	Uint32	4	R W	n/a	Trigger=1
Coms Control Group	Mains Breaker Open Request	GG	5528	Uint32	4	R W	n/a	Trigger=1
Coms Control Group	Mains Breaker Close Request	GG	5530	Uint32	4	R W	n/a	Trigger=1
Coms Control Group	Emergency Stop	GG	5532	Uint32	4	R W	n/a	Trigger=1
Coms Control Group	Run Request	GG	5534	Uint32	4	R W	n/a	Trigger=1
Coms Control Group	Coms Alarm Reset	GG	5536	Uint32	4	R W	n/a	Trigger=1
Coms Control Group	Reset Generator Maximum ROCOF	GG	5538	Uint32	4	R W	n/a	Trigger=1
Coms Control Group	Reset Bus 1 Maximum ROCOF	GG	5540	Uint32	4	R W	n/a	Trigger=1
Coms Control Group	Reset Bus 2 Maximum ROCOF	GG	5542	Uint32	4	R W	n/a	Trigger=1
Coms Control Group	Reset Generator Maximum Vector Shift	GG	5544	Uint32	4	R W	n/a	Trigger=1
Coms Control Group	Reset Bus 1 Maximum Vector Shift	GG	5546	Uint32	4	R W	n/a	Trigger=1
Coms Control Group	Reset Bus 2 Maximum Vector Shift	GG	5548	Uint32	4	R W	n/a	Trigger=1
Coms Control Group	Bus 1 Protection Reset	GG	5550	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Coms Control Group	Bus 2 Protection Reset	GG	5552	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Coms Control Group	Bus 1 Bus 2 Protection Reset	GG	5554	Uint32	4	R W	n/a	Disabled=0 Enabled=1
High Current Contacts	Fuel Solenoid Logic Control	GG	5556	Uint32	4	R W	n/a	Predefined=0 Programmable=1
High Current Contacts	Engine Start Delay Logic Control	GG	5558	Uint32	4	R W	n/a	Predefined=0 Programmable=1
High Current Contacts	Master Start Output Logic Control	GG	5560	Uint32	4	R W	n/a	Predefined=0 Programmable=1
Comms Control Group	Group Breaker Open Request	GG	5562	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Comms Control Group	Group Breaker Close Request	GG	5564	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Comms Control Group	Tie Breaker Open Request	GG	5566	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Comms Control Group	Tie Breaker Close Request	GG	5568	Uint32	4	R W	n/a	Disabled=0 Enabled=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Modbus Virtual Switches	Independent Virtual Switches	GG	5570	Uint32	4	R W	n/a	Bit 0=Modbus Switch 1 Bit 1=Modbus Switch 2 Bit 2=Modbus Switch 3 Bit 3=Modbus Switch 4 Bit 4=Modbus Switch 5 Bit 5=Modbus Switch 6 Bit 6=Modbus Switch 7 Bit 7=Modbus Switch 8 Bit 8=Modbus Switch 9 Bit 9=Modbus Switch 10 Bit 10=Modbus Switch 11 Bit 11=Modbus Switch 12 Bit 12=Modbus Switch 13 Bit 13=Modbus Switch 14 Bit 14=Modbus Switch 15 Bit 15=Modbus Switch 16 Bit 16=Modbus Switch 17 Bit 17=Modbus Switch 18 Bit 18=Modbus Switch 19 Bit 19=Modbus Switch 20 Bit 20=Modbus Switch 21 Bit 21=Modbus Switch 22 Bit 22=Modbus Switch 23 Bit 23=Modbus Switch 24 Bit 24=Modbus Switch 25 Bit 25=Modbus Switch 26 Bit 26=Modbus Switch 27 Bit 27=Modbus Switch 28 Bit 28=Modbus Switch 29 Bit 29=Modbus Switch 30 Bit 30=Modbus Switch 31 Bit 31=Modbus Switch 32
Modbus Virtual Switches	Independent Virtual Switches	GG	5572	Uint32	4	R W	n/a	Bit 32=Modbus Switch 33 Bit 33=Modbus Switch 34 Bit 34=Modbus Switch 35 Bit 35=Modbus Switch 36 Bit 36=Modbus Switch 37 Bit 37=Modbus Switch 38 Bit 38=Modbus Switch 39 Bit 39=Modbus Switch 40 Bit 40=Modbus Switch 41 Bit 41=Modbus Switch 42 Bit 42=Modbus Switch 43 Bit 43=Modbus Switch 44 Bit 44=Modbus Switch 45 Bit 45=Modbus Switch 46 Bit 46=Modbus Switch 47 Bit 47=Modbus Switch 48 Bit 48=Modbus Switch 49 Bit 49=Modbus Switch 50 Bit 50=Modbus Switch 51 Bit 51=Modbus Switch 52 Bit 52=Modbus Switch 53 Bit 53=Modbus Switch 54 Bit 54=Modbus Switch 55 Bit 55=Modbus Switch 56 Bit 56=Modbus Switch 57 Bit 57=Modbus Switch 58 Bit 58=Modbus Switch 59 Bit 59=Modbus Switch 60 Bit 60=Modbus Switch 61 Bit 61=Modbus Switch 62 Bit 62=Modbus Switch 63 Bit 63=Modbus Switch 64

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Modbus Virtual Switches	Independent Virtual Switches	GG	5574	UInt32	4	R W	n/a	Bit 64=Modbus Switch 65 Bit 65=Modbus Switch 66 Bit 66=Modbus Switch 67 Bit 67=Modbus Switch 68 Bit 68=Modbus Switch 69 Bit 69=Modbus Switch 70 Bit 70=Modbus Switch 71 Bit 71=Modbus Switch 72 Bit 72=Modbus Switch 73 Bit 73=Modbus Switch 74 Bit 74=Modbus Switch 75 Bit 75=Modbus Switch 76 Bit 76=Modbus Switch 77 Bit 77=Modbus Switch 78 Bit 78=Modbus Switch 79 Bit 79=Modbus Switch 80 Bit 80=Modbus Switch 81 Bit 81=Modbus Switch 82 Bit 82=Modbus Switch 83 Bit 83=Modbus Switch 84 Bit 84=Modbus Switch 85 Bit 85=Modbus Switch 86 Bit 86=Modbus Switch 87 Bit 87=Modbus Switch 88 Bit 88=Modbus Switch 89 Bit 89=Modbus Switch 90 Bit 90=Modbus Switch 91 Bit 91=Modbus Switch 92 Bit 92=Modbus Switch 93 Bit 93=Modbus Switch 94 Bit 94=Modbus Switch 95 Bit 95=Modbus Switch 96
Modbus Virtual Switches	Independent Virtual Switches	GG	5576	UInt32	4	R W	n/a	Bit 96=Modbus Switch 97 Bit 97=Modbus Switch 98 Bit 98=Modbus Switch 99 Bit 99=Modbus Switch 100 Bit 100=Modbus Switch 101 Bit 101=Modbus Switch 102 Bit 102=Modbus Switch 103 Bit 103=Modbus Switch 104 Bit 104=Modbus Switch 105 Bit 105=Modbus Switch 106 Bit 106=Modbus Switch 107 Bit 107=Modbus Switch 108 Bit 108=Modbus Switch 109 Bit 109=Modbus Switch 110 Bit 110=Modbus Switch 111 Bit 111=Modbus Switch 112 Bit 112=Modbus Switch 113 Bit 113=Modbus Switch 114 Bit 114=Modbus Switch 115 Bit 115=Modbus Switch 116 Bit 116=Modbus Switch 117 Bit 117=Modbus Switch 118 Bit 118=Modbus Switch 119 Bit 119=Modbus Switch 120 Bit 120=Modbus Switch 121 Bit 121=Modbus Switch 122 Bit 122=Modbus Switch 123 Bit 123=Modbus Switch 124 Bit 124=Modbus Switch 125 Bit 125=Modbus Switch 126 Bit 126=Modbus Switch 127 Bit 127=Modbus Switch 128
Coms Control Group	Tie Breaker 2 Open Request	GG	5578	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Coms Control Group	Tie Breaker 2 Close Request	GG	5580	UInt32	4	R W	n/a	Disabled=0 Enabled=1



Global Settings Register Table

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
PLC Timed Element Settings	Timer 1 Timeout Hours	GG	6000	Uint32	4	R W	Hour	0 - 250
PLC Timed Element Settings	Timer 1 Timeout Minutes	GG	6002	Uint32	4	R W	Minute	0 - 59
PLC Timed Element Settings	Timer 1 Timeout Seconds	GG	6004	Uint32	4	R W	Second	0 - 59
PLC Timed Element Settings	Timer 2 Timeout Hours	GG	6006	Uint32	4	R W	Hour	0 - 250
PLC Timed Element Settings	Timer 2 Timeout Minutes	GG	6008	Uint32	4	R W	Minute	0 - 59
PLC Timed Element Settings	Timer 2 Timeout Seconds	GG	6010	Uint32	4	R W	Second	0 - 59
PLC Timed Element Settings	Timer 3 Timeout Hours	GG	6012	Uint32	4	R W	Hour	0 - 250
PLC Timed Element Settings	Timer 3 Timeout Minutes	GG	6014	Uint32	4	R W	Minute	0 - 59
PLC Timed Element Settings	Timer 3 Timeout Seconds	GG	6016	Uint32	4	R W	Second	0 - 59
PLC Timed Element Settings	Timer 4 Timeout Hours	GG	6018	Uint32	4	R W	Hour	0 - 250
PLC Timed Element Settings	Timer 4 Timeout Minutes	GG	6020	Uint32	4	R W	Minute	0 - 59
PLC Timed Element Settings	Timer 4 Timeout Seconds	GG	6022	Uint32	4	R W	Second	0 - 59
PLC Timed Element Settings	Timer 5 Timeout Hours	GG	6024	Uint32	4	R W	Hour	0 - 250
PLC Timed Element Settings	Timer 5 Timeout Minutes	GG	6026	Uint32	4	R W	Minute	0 - 59
PLC Timed Element Settings	Timer 5 Timeout Seconds	GG	6028	Uint32	4	R W	Second	0 - 59
PLC Timed Element Settings	Timer 6 Timeout Hours	GG	6030	Uint32	4	R W	Hour	0 - 250
PLC Timed Element Settings	Timer 6 Timeout Minutes	GG	6032	Uint32	4	R W	Minute	0 - 59
PLC Timed Element Settings	Timer 6 Timeout Seconds	GG	6034	Uint32	4	R W	Second	0 - 59
PLC Timed Element Settings	Timer 7 Timeout Hours	GG	6036	Uint32	4	R W	Hour	0 - 250
PLC Timed Element Settings	Timer 7 Timeout Minutes	GG	6038	Uint32	4	R W	Minute	0 - 59
PLC Timed Element Settings	Timer 7 Timeout Seconds	GG	6040	Uint32	4	R W	Second	0 - 59
PLC Timed Element Settings	Timer 8 Timeout Hours	GG	6042	Uint32	4	R W	Hour	0 - 250
PLC Timed Element Settings	Timer 8 Timeout Minutes	GG	6044	Uint32	4	R W	Minute	0 - 59
PLC Timed Element Settings	Timer 8 Timeout Seconds	GG	6046	Uint32	4	R W	Second	0 - 59
PLC Timed Element Settings	Timer 9 Timeout Hours	GG	6048	Uint32	4	R W	Hour	0 - 250
PLC Timed Element Settings	Timer 9 Timeout Minutes	GG	6050	Uint32	4	R W	Minute	0 - 59
PLC Timed Element Settings	Timer 9 Timeout Seconds	GG	6052	Uint32	4	R W	Second	0 - 59
PLC Timed Element Settings	Timer 10 Timeout Hours	GG	6054	Uint32	4	R W	Hour	0 - 250
PLC Timed Element Settings	Timer 10 Timeout Minutes	GG	6056	Uint32	4	R W	Minute	0 - 59
PLC Timed Element Settings	Timer 10 Timeout Seconds	GG	6058	Uint32	4	R W	Second	0 - 59
PLC Timed Element Settings	Timer 11 Timeout Hours	GG	6060	Uint32	4	R W	Hour	0 - 250
PLC Timed Element Settings	Timer 11 Timeout Minutes	GG	6062	Uint32	4	R W	Minute	0 - 59
PLC Timed Element Settings	Timer 11 Timeout Seconds	GG	6064	Uint32	4	R W	Second	0 - 59
PLC Timed Element Settings	Timer 12 Timeout Hours	GG	6066	Uint32	4	R W	Hour	0 - 250
PLC Timed Element Settings	Timer 12 Timeout Minutes	GG	6068	Uint32	4	R W	Minute	0 - 59
PLC Timed Element Settings	Timer 12 Timeout Seconds	GG	6070	Uint32	4	R W	Second	0 - 59
PLC Timed Element Settings	Timer 13 Timeout Hours	GG	6072	Uint32	4	R W	Hour	0 - 250

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
PLC Timed Element Settings	Timer 13 Timeout Minutes	GG	6074	UInt32	4	R W	Minute	0 - 59
PLC Timed Element Settings	Timer 13 Timeout Seconds	GG	6076	UInt32	4	R W	Second	0 - 59
PLC Timed Element Settings	Timer 14 Timeout Hours	GG	6078	UInt32	4	R W	Hour	0 - 250
PLC Timed Element Settings	Timer 14 Timeout Minutes	GG	6080	UInt32	4	R W	Minute	0 - 59
PLC Timed Element Settings	Timer 14 Timeout Seconds	GG	6082	UInt32	4	R W	Second	0 - 59
PLC Timed Element Settings	Timer 15 Timeout Hours	GG	6084	UInt32	4	R W	Hour	0 - 250
PLC Timed Element Settings	Timer 15 Timeout Minutes	GG	6086	UInt32	4	R W	Minute	0 - 59
PLC Timed Element Settings	Timer 15 Timeout Seconds	GG	6088	UInt32	4	R W	Second	0 - 59
PLC Timed Element Settings	Timer 16 Timeout Hours	GG	6090	UInt32	4	R W	Hour	0 - 250
PLC Timed Element Settings	Timer 16 Timeout Minutes	GG	6092	UInt32	4	R W	Minute	0 - 59
PLC Timed Element Settings	Timer 16 Timeout Seconds	GG	6094	UInt32	4	R W	Second	0 - 59
PLC Timed Element Settings	Counter 1 Timeout	GG	6096	Float	4	R W	n/a	0 - 1800
PLC Timed Element Settings	Counter 2 Timeout	GG	6098	Float	4	R W	n/a	0 - 1800
PLC Timed Element Settings	Counter 3 Timeout	GG	6100	Float	4	R W	n/a	0 - 1800
PLC Timed Element Settings	Counter 4 Timeout	GG	6102	Float	4	R W	n/a	0 - 1800
PLC Timed Element Settings	Counter 5 Timeout	GG	6104	Float	4	R W	n/a	0 - 1800
PLC Timed Element Settings	Counter 6 Timeout	GG	6106	Float	4	R W	n/a	0 - 1800
PLC Timed Element Settings	Counter 7 Timeout	GG	6108	Float	4	R W	n/a	0 - 1800
PLC Timed Element Settings	Counter 8 Timeout	GG	6110	Float	4	R W	n/a	0 - 1800
Unit ID Table	ID Missing Pre Alarm Enable	GG	6112	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Unit ID Table	ID Repeat Pre Alarm Enable	GG	6114	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Remote Display Panel	Enable Programmable Alarm 1	GG	6116	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Remote Display Panel	Enable Programmable Alarm 2	GG	6118	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Remote Display Panel	Enable Programmable Pre-Alarm 1	GG	6120	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Remote Display Panel	Enable Programmable Pre-Alarm 2	GG	6122	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Breaker Table Handler	Missing Sys Comp Pre-Alarm Enable	GG	6124	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Breaker Table Handler	Segments Unreachable Pre-Alarm Enable	GG	6126	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Breaker Table Handler	Expected Number Tie Breaker Controllers	GG	6128	UInt32	4	R W	n/a	0 - 32
Breaker Table Handler	Critical Breaker Missing Pre-Alarm Enable	GG	6130	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Breaker Table Handler	System Breaker Configuration Detection	GG	6132	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Logic Input Counter 1	Operation 1	GG	6134	UInt32	4	R W	n/a	Equals=0 Less Than=1 Less Than or Equal=2 Greater Than=3 Greater Than or Equal=4
Logic Input Counter 1	Threshold 1	GG	6136	UInt32	4	R W	n/a	0 - 32
Logic Input Counter 1	Operation 2	GG	6138	UInt32	4	R W	n/a	Equals=0 Less Than=1 Less Than or Equal=2 Greater Than=3 Greater Than or Equal=4
Logic Input Counter 1	Threshold 2	GG	6140	UInt32	4	R W	n/a	0 - 32
Logic Input Counter 2	Operation 1	GG	6142	UInt32	4	R W	n/a	Equals=0 Less Than=1 Less Than or Equal=2 Greater Than=3 Greater Than or Equal=4
Logic Input Counter 2	Threshold 1	GG	6144	UInt32	4	R W	n/a	0 - 32

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Logic Input Counter 2	Operation 2	GG	6146	Uint32	4	R W	n/a	Equals=0 Less Than=1 Less Than or Equal=2 Greater Than=3 Greater Than or Equal=4
Logic Input Counter 2	Threshold 2	GG	6148	Uint32	4	R W	n/a	0 - 32
Logic Input Counter 3	Operation 1	GG	6150	Uint32	4	R W	n/a	Equals=0 Less Than=1 Less Than or Equal=2 Greater Than=3 Greater Than or Equal=4
Logic Input Counter 3	Threshold 1	GG	6152	Uint32	4	R W	n/a	0 - 32
Logic Input Counter 3	Operation 2	GG	6154	Uint32	4	R W	n/a	Equals=0 Less Than=1 Less Than or Equal=2 Greater Than=3 Greater Than or Equal=4
Logic Input Counter 3	Threshold 2	GG	6156	Uint32	4	R W	n/a	0 - 32
Logic Input Counter 4	Operation 1	GG	6158	Uint32	4	R W	n/a	Equals=0 Less Than=1 Less Than or Equal=2 Greater Than=3 Greater Than or Equal=4
Logic Input Counter 4	Threshold 1	GG	6160	Uint32	4	R W	n/a	0 - 32
Logic Input Counter 4	Operation 2	GG	6162	Uint32	4	R W	n/a	Equals=0 Less Than=1 Less Than or Equal=2 Greater Than=3 Greater Than or Equal=4
Logic Input Counter 4	Threshold 2	GG	6164	Uint32	4	R W	n/a	0 - 32
Logic Input Counter 5	Operation 1	GG	6166	Uint32	4	R W	n/a	Equals=0 Less Than=1 Less Than or Equal=2 Greater Than=3 Greater Than or Equal=4
Logic Input Counter 5	Threshold 1	GG	6168	Uint32	4	R W	n/a	0 - 32
Logic Input Counter 5	Operation 2	GG	6170	Uint32	4	R W	n/a	Equals=0 Less Than=1 Less Than or Equal=2 Greater Than=3 Greater Than or Equal=4
Logic Input Counter 5	Threshold 2	GG	6172	Uint32	4	R W	n/a	0 - 32
Logic Input Counter 6	Operation 1	GG	6174	Uint32	4	R W	n/a	Equals=0 Less Than=1 Less Than or Equal=2 Greater Than=3 Greater Than or Equal=4
Logic Input Counter 6	Threshold 1	GG	6176	Uint32	4	R W	n/a	0 - 32
Logic Input Counter 6	Operation 2	GG	6178	Uint32	4	R W	n/a	Equals=0 Less Than=1 Less Than or Equal=2 Greater Than=3 Greater Than or Equal=4
Logic Input Counter 6	Threshold 2	GG	6180	Uint32	4	R W	n/a	0 - 32
Logic Input Counter 7	Operation 1	GG	6182	Uint32	4	R W	n/a	Equals=0 Less Than=1 Less Than or Equal=2 Greater Than=3 Greater Than or Equal=4
Logic Input Counter 7	Threshold 1	GG	6184	Uint32	4	R W	n/a	0 - 32
Logic Input Counter 7	Operation 2	GG	6186	Uint32	4	R W	n/a	Equals=0 Less Than=1 Less Than or Equal=2 Greater Than=3 Greater Than or Equal=4
Logic Input Counter 7	Threshold 2	GG	6188	Uint32	4	R W	n/a	0 - 32
Logic Input Counter 8	Operation 1	GG	6190	Uint32	4	R W	n/a	Equals=0 Less Than=1 Less Than or Equal=2 Greater Than=3 Greater Than or Equal=4
Logic Input Counter 8	Threshold 1	GG	6192	Uint32	4	R W	n/a	0 - 32
Logic Input Counter 8	Operation 2	GG	6194	Uint32	4	R W	n/a	Equals=0 Less Than=1 Less Than or Equal=2 Greater Than=3 Greater Than or Equal=4
Logic Input Counter 8	Threshold 2	GG	6196	Uint32	4	R W	n/a	0 - 32
PLC Timed Element Settings	Timer 17 Timeout Hours	GG	6198	Uint32	4	R W	Hour	0 - 250

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
PLC Timed Element Settings	Timer 17 Timeout Minutes	GG	6200	Uint32	4	R W	Minute	0 – 59
PLC Timed Element Settings	Timer 17 Timeout Seconds	GG	6202	Uint32	4	R W	Second	0 - 599
PLC Timed Element Settings	Timer 18 Timeout Hours	GG	6204	Uint32	4	R W	Hour	0 – 250
PLC Timed Element Settings	Timer 18 Timeout Minutes	GG	6206	Uint32	4	R W	Minute	0 – 59
PLC Timed Element Settings	Timer 18 Timeout Seconds	GG	6208	Uint32	4	R W	Second	0 - 599
PLC Timed Element Settings	Timer 19 Timeout Hours	GG	6210	Uint32	4	R W	Hour	0 – 250
PLC Timed Element Settings	Timer 19 Timeout Minutes	GG	6212	Uint32	4	R W	Minute	0 – 59
PLC Timed Element Settings	Timer 19 Timeout Seconds	GG	6214	Uint32	4	R W	Second	0 - 599
PLC Timed Element Settings	Timer 20 Timeout Hours	GG	6216	Uint32	4	R W	Hour	0 – 250
PLC Timed Element Settings	Timer 20 Timeout Minutes	GG	6218	Uint32	4	R W	Minute	0 – 59
PLC Timed Element Settings	Timer 20 Timeout Seconds	GG	6220	Uint32	4	R W	Second	0 – 599
PLC Timed Element Settings	Timer 21 Timeout Hours	GG	6222	Uint32	4	R W	Hour	0 – 250
PLC Timed Element Settings	Timer 21 Timeout Minutes	GG	6224	Uint32	4	R W	Minute	0 – 59
PLC Timed Element Settings	Timer 21 Timeout Seconds	GG	6226	Uint32	4	R W	Second	0 - 599
PLC Timed Element Settings	Timer 22 Timeout Hours	GG	6228	Uint32	4	R W	Hour	0 – 250
PLC Timed Element Settings	Timer 22 Timeout Minutes	GG	6230	Uint32	4	R W	Minute	0 – 59
PLC Timed Element Settings	Timer 22 Timeout Seconds	GG	6232	Uint32	4	R W	Second	0 - 599
PLC Timed Element Settings	Timer 23 Timeout Hours	GG	6234	Uint32	4	R W	Hour	0 – 250
PLC Timed Element Settings	Timer 23 Timeout Minutes	GG	6236	Uint32	4	R W	Minute	0 – 59
PLC Timed Element Settings	Timer 23 Timeout Seconds	GG	6238	Uint32	4	R W	Second	0 - 599
PLC Timed Element Settings	Timer 24 Timeout Hours	GG	6240	Uint32	4	R W	Hour	0 – 250
PLC Timed Element Settings	Timer 24 Timeout Minutes	GG	6242	Uint32	4	R W	Minute	0 – 59
PLC Timed Element Settings	Timer 24 Timeout Seconds	GG	6244	Uint32	4	R W	Second	0 - 599
PLC Timed Element Settings	Timer 25 Timeout Hours	GG	6246	Uint32	4	R W	Hour	0 – 250
PLC Timed Element Settings	Timer 25 Timeout Minutes	GG	6248	Uint32	4	R W	Minute	0 – 59
PLC Timed Element Settings	Timer 25 Timeout Seconds	GG	6250	Uint32	4	R W	Second	0 - 599
PLC Timed Element Settings	Timer 26 Timeout Hours	GG	6252	Uint32	4	R W	Hour	0 – 250
PLC Timed Element Settings	Timer 26 Timeout Minutes	GG	6254	Uint32	4	R W	Minute	0 – 59
PLC Timed Element Settings	Timer 26 Timeout Seconds	GG	6256	Uint32	4	R W	Second	0 - 599
PLC Timed Element Settings	Timer 27 Timeout Hours	GG	6258	Uint32	4	R W	Hour	0 – 250
PLC Timed Element Settings	Timer 27 Timeout Minutes	GG	6260	Uint32	4	R W	Minute	0 – 59
PLC Timed Element Settings	Timer 27 Timeout Seconds	GG	6262	Uint32	4	R W	Second	0 - 599
PLC Timed Element Settings	Timer 28 Timeout Hours	GG	6264	Uint32	4	R W	Hour	0 – 250
PLC Timed Element Settings	Timer 28 Timeout Minutes	GG	6266	Uint32	4	R W	Minute	0 – 59
PLC Timed Element Settings	Timer 28 Timeout Seconds	GG	6268	Uint32	4	R W	Second	0 - 599
PLC Timed Element Settings	Timer 29 Timeout Hours	GG	6270	Uint32	4	R W	Hour	0 – 250
PLC Timed Element Settings	Timer 29 Timeout Minutes	GG	6272	Uint32	4	R W	Minute	0 – 59
PLC Timed Element Settings	Timer 29 Timeout Seconds	GG	6274	Uint32	4	R W	Second	0 - 599
PLC Timed Element Settings	Timer 30 Timeout Hours	GG	6276	Uint32	4	R W	Hour	0 – 250

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
PLC Timed Element Settings	Timer 30 Timeout Minutes	GG	6278	Uint32	4	R W	Minute	0 – 59
PLC Timed Element Settings	Timer 30 Timeout Seconds	GG	6280	Uint32	4	R W	Second	0 - 599
PLC Timed Element Settings	Timer 31 Timeout Hours	GG	6282	Uint32	4	R W	Hour	0 – 250
PLC Timed Element Settings	Timer 31 Timeout Minutes	GG	6284	Uint32	4	R W	Minute	0 – 59
PLC Timed Element Settings	Timer 31 Timeout Seconds	GG	6286	Uint32	4	R W	Second	0 - 599
PLC Timed Element Settings	Timer 32 Timeout Hours	GG	6288	Uint32	4	R W	Hour	0 – 250
PLC Timed Element Settings	Timer 32 Timeout Minutes	GG	6290	Uint32	4	R W	Minute	0 – 59
PLC Timed Element Settings	Timer 32 Timeout Seconds	GG	6292	Uint32	4	R W	Second	0 – 599
PLC Timed Element Settings	Counter 9 Timeout	GG	6294	Float	4	R W	n/a	0 - 1800
PLC Timed Element Settings	Counter 10 Timeout	GG	6296	Float	4	R W	n/a	0 - 1800
PLC Timed Element Settings	Counter 11 Timeout	GG	6398	Float	4	R W	n/a	0 - 1800
PLC Timed Element Settings	Counter 12 Timeout	GG	6300	Float	4	R W	n/a	0 - 1800
PLC Timed Element Settings	Counter 13 Timeout	GG	6302	Float	4	R W	n/a	0 - 1800
PLC Timed Element Settings	Counter 14 Timeout	GG	6304	Float	4	R W	n/a	0 - 1800
PLC Timed Element Settings	Counter 15 Timeout	GG	6306	Float	4	R W	n/a	0 - 1800
PLC Timed Element Settings	Counter 16 Timeout	GG	6308	Float	4	R W	n/a	0 - 1800



Configuration Register Table

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
System Configuration	Nominal Frequency	GG	6500	UInt32	4	R W	n/a	50 Hz=50 60 Hz=60
System Configuration	Metric English	GG	6502	UInt32	4	R W	n/a	English=0 Metric=1
System Configuration	Metric Units	GG	6504	UInt32	4	R W	n/a	bar=0 kPa/MPa=1
System Configuration	Alternate Frequency	GG	6506	Float	4	R W	Hertz	10 - 90
System Configuration	Aux CT 1	GG	6508	UInt32	4	R W	n/a	CT Not Connected=7 Bus 1 Phase A=0 Bus 1 Phase B=1 Bus 1 Phase C=2 Bus 2 Phase A=3 Bus 2 Phase B=4 Bus 2 Phase C=5 Ground Current=6 87G Dnstrm Phase A=8 87G Dnstrm Phase B=9 87G Dnstrm Phase C=10 Cross Current=11
System Configuration	Aux CT 2	GG	6510	UInt32	4	R W	n/a	CT Not Connected=7 Bus 1 Phase A=0 Bus 1 Phase B=1 Bus 1 Phase C=2 Bus 2 Phase A=3 Bus 2 Phase B=4 Bus 2 Phase C=5 Ground Current=6 87G Dnstrm Phase A=8 87G Dnstrm Phase B=9 87G Dnstrm Phase C=10 Cross Current=11
System Configuration	Aux CT 3	GG	6512	UInt32	4	R W	n/a	CT Not Connected=7 Bus 1 Phase A=0 Bus 1 Phase B=1 Bus 1 Phase C=2 Bus 2 Phase A=3 Bus 2 Phase B=4 Bus 2 Phase C=5 Ground Current=6 87G Dnstrm Phase A=8 87G Dnstrm Phase B=9 87G Dnstrm Phase C=10 Cross Current=11
System Configuration	Aux CT 4	GG	6514	UInt32	4	R W	n/a	CT Not Connected=7 Bus 1 Phase A=0 Bus 1 Phase B=1 Bus 1 Phase C=2 Bus 2 Phase A=3 Bus 2 Phase B=4 Bus 2 Phase C=5 Ground Current=6 87G Dnstrm Phase A=8 87G Dnstrm Phase B=9 87G Dnstrm Phase C=10 Cross Current=11
System Configuration	Engine Rated RPM	GG	6516	UInt32	4	R W	n/a	25 - 3600
System Configuration	RPM Adjustment Bandwidth	GG	6518	UInt32	4	R W	n/a	0 - 1000
System Configuration	24V Battery	GG	6520	UInt32	4	R W	n/a	12V=0 24V=1
System Configuration	Gen CT Low-Line Scale Factor	GG	6522	Float	4	R W	n/a	0.001 - 3
System Configuration	Redundant Ethernet	GG	6524	UInt32	4	R W	n/a	No=0 Yes=1
Gen Volt Configuration	Connection	GG	6526	Int32	4	R W	n/a	Delta=7 Wye=8 1 Phase AB=0 1 Phase AC=2 Grounded Delta=9
Gen Volt Configuration	Ratio Primary	GG	6528	Float	4	R W	n/a	1 - 999999
Gen Volt Configuration	Ratio Secondary	GG	6530	Float	4	R W	n/a	1 - 600

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Gen Volt Configuration	Rated Primary LL	GG	6532	Float	4	R W	Volt	1 - 999999
Bus 1 Volt Config	Connection	GG	6534	Int32	4	R W	n/a	Delta=7 Wye=8 1 Phase AB=0 1 Phase AC=2 Grounded Delta=9
Bus 1 Volt Config	Ratio Primary	GG	6536	Float	4	R W	n/a	1 - 999999
Bus 1 Volt Config	Ratio Secondary	GG	6538	Float	4	R W	n/a	1 - 600
Bus 1 Volt Config	Rated Primary LL	GG	6540	Float	4	R W	Volt	1 - 999999
Bus 2 Volt Config	Connection	GG	6542	Int32	4	R W	n/a	Delta=7 Wye=8 1 Phase AB=0 1 Phase AC=2 Grounded Delta=9
Bus 2 Volt Config	Ratio Primary	GG	6544	Float	4	R W	n/a	1 - 999999
Bus 2 Volt Config	Ratio Secondary	GG	6546	Float	4	R W	n/a	1 - 600
Bus 2 Volt Config	Rated Primary LL	GG	6548	Float	4	R W	Volt	1 - 999999
Gen Current Configuration	Connection	GG	6550	Int32	4	R W	n/a	CT A=0 CT B=1 CT C=2 CT AB=3 CT BC=4 CT CA=5 CT ABC=6
Gen Current Configuration	Ratio Primary	GG	6552	Float	4	R W	n/a	1 - 9999
Gen Current Configuration	Ratio Secondary	GG	6554	Int32	4	R W	n/a	1=1 5=5
Gen Current Configuration	Rated Primary	GG	6556	Float	4	R	Amp	0 - 180000
Bus 1 Current Config	Connection	GG	6558	Int32	4	R W	n/a	CT A=0 CT B=1 CT C=2 CT AB=3 CT BC=4 CT CA=5 CT ABC=6
Bus 1 Current Config	Ratio Primary	GG	6560	Float	4	R W	n/a	1 - 9999
Bus 1 Current Config	Ratio Secondary	GG	6562	Int32	4	R W	n/a	1=1 5=5
Bus 1 Current Config	Rated Primary	GG	6564	Float	4	R	Amp	0 - 180000
Bus 2 Current Config	Connection	GG	6566	Int32	4	R W	n/a	CT A=0 CT B=1 CT C=2 CT AB=3 CT BC=4 CT CA=5 CT ABC=6
Bus 2 Current Config	Ratio Primary	GG	6568	Float	4	R W	n/a	1 - 9999
Bus 2 Current Config	Ratio Secondary	GG	6570	Int32	4	R W	n/a	1=1 5=5
Bus 2 Current Config	Rated Primary	GG	6572	Float	4	R	Amp	0 - 180000
Gen Config	Rated PF	GG	6574	Float	4	R W	Power Factor	-2 - 2
Gen Config	Rated kW	GG	6576	Float	4	R W	kilowatt	0 - 1000000
Gen Config	Rotation	GG	6578	Int32	4	R W	n/a	ABC=0 ACB=1
Bus 1 Config	Rated PF	GG	6580-81	Float	4	R W	Power Factor	-2 - 2
Bus 1 Config	Rated kW	GG	6582	Float	4	R W	kilowatt	0 - 1000000
Reserved			6584					
Bus 2 Config	Rated PF	GG	6586-87	Float	4	R W	Power Factor	-2 - 2
Bus 2 Config	Rated kW	GG	6588	Float	4	R W	kilowatt	0 - 1000000
Reserved			6590					
RS232 Settings	Baud Rate	GG	6592	UInt32	4	R W	n/a	1200 Baud=1200 2400 Baud=2400 4800 Baud=4800 9600 Baud=9600 19200 Baud=19200 38400 Baud=38400 57600 Baud=57600 115200 Baud=115200
RS232 Settings	Parity	GG	6594	UInt32	4	R W	n/a	Even Parity=0 Odd Parity=1 No Parity=2
RS232 Settings	Bits Per Character	GG	6596	UInt32	4	R W	n/a	8-Bits=8 7-Bits=7

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
RS232 Settings	Stop Bits	GG	6598	Uint32	4	R W	n/a	1 Stop Bit=1 2 Stop Bits=2
RS485 Settings	Baud Rate	GG	6600	Uint32	4	R W	n/a	1200 Baud=1200 2400 Baud=2400 4800 Baud=4800 9600 Baud=9600 19200 Baud=19200 38400 Baud=38400 57600 Baud=57600 115200 Baud=115200
RS485 Settings	Parity	GG	6602	Uint32	4	R W	n/a	Even Parity=0 Odd Parity=1 No Parity=2
RS485 Settings	Bits Per Character	GG	6604	Uint32	4	R W	n/a	8-Bits=8 7-Bits=7
RS485 Settings	Stop Bits	GG	6606	Uint32	4	R W	n/a	1 Stop Bit=1 2 Stop Bits=2
Ethernet 0 Settings	Subnet Mask	GG	6608	IP Address	4	R W	n/a	n/a
Ethernet 0 Settings	Gateway Address	GG	6610	IP Address	4	R W	n/a	n/a
Ethernet 0 Settings	Use DHCP	GG	6612	Uint32	4	R W	n/a	Off=0 On=1
Ethernet 0 Settings	Active IP	GG	6614	IP Address	4	R	n/a	n/a
Ethernet 0 Settings	Active Gateway	GG	6616	IP Address	4	R	n/a	n/a
Ethernet 0 Settings	Active Subnet	GG	6618	IP Address	4	R	n/a	n/a
Ethernet 1 Settings	Subnet Mask	GG	6620	IP Address	4	R W	n/a	n/a
Ethernet 1 Settings	Gateway Address	GG	6622	IP Address	4	R W	n/a	n/a
Ethernet 1 Settings	Use DHCP	GG	6624	Uint32	4	R W	n/a	Off=0 On=1
Ethernet 1 Settings	Active IP	GG	6626	IP Address	4	R	n/a	n/a
Ethernet 1 Settings	Active Gateway	GG	6628	IP Address	4	R	n/a	n/a
Ethernet 1 Settings	Active Subnet	GG	6630	IP Address	4	R	n/a	n/a
Modbus	Modbus Ethernet Unit ID	GG	6632	Uint16	2	R W	n/a	1 - 247
Modbus	Modbus Serial Unit ID	GG	6633	Uint16	2	R W	n/a	1 - 247
Reserved			6634-39					
Engine Source	Speed Mode	GG	6640	Uint32	4	R W	n/a	Magnetic Pickup=1 Gen Freq=2 MPU/Gen Freq=3
Engine Source	Flywheel Teeth	GG	6642	Uint32	4	R W	n/a	1 - 500
Engine Source	Speed Sender Fail Time Delay	GG	6644	Uint32	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Engine Source	Fuel Level Source	GG	6646	Uint32	4	R W	n/a	Resistive Sender=0 AEM 1 Analog Input 1=1 AEM 1 Analog Input 2=2 AEM 1 Analog Input 3=3 AEM 1 Analog Input 4=4 AEM 1 Analog Input 5=5 AEM 1 Analog Input 6=6 AEM 1 Analog Input 7=7 AEM 1 Analog Input 8=8 AEM 2 Analog Input 1=9 AEM 2 Analog Input 2=10 AEM 2 Analog Input 3=11 AEM 2 Analog Input 4=12 AEM 2 Analog Input 5=13 AEM 2 Analog Input 6=14 AEM 2 Analog Input 7=15 AEM 2 Analog Input 8=16 AEM 3 Analog Input 1=17 AEM 3 Analog Input 2=18 AEM 3 Analog Input 3=19 AEM 3 Analog Input 4=20 AEM 3 Analog Input 5=21 AEM 3 Analog Input 6=22 AEM 3 Analog Input 7=23 AEM 3 Analog Input 8=24 AEM 4 Analog Input 1=25 AEM 4 Analog Input 2=26 AEM 4 Analog Input 3=27 AEM 4 Analog Input 4=28 AEM 4 Analog Input 5=29 AEM 4 Analog Input 6=30 AEM 4 Analog Input 7=31 AEM 4 Analog Input 8=32 Analog Input 1=33 Analog Input 2=34 Analog Input 3=35 Analog Input 4=36
Engine Source	Fuel Level Function	GG	6648	Uint32	4	R W	n/a	Disable=0 Fuel Level=1 Natural Gas=2 Liquid Propane=3
Engine Source	Coolant Temp Source	GG	6650	Uint32	4	R W	n/a	Resistive Sender=0 AEM 1 Analog Input 1=1 AEM 1 Analog Input 2=2 AEM 1 Analog Input 3=3 AEM 1 Analog Input 4=4 AEM 1 Analog Input 5=5 AEM 1 Analog Input 6=6 AEM 1 Analog Input 7=7 AEM 1 Analog Input 8=8 AEM 2 Analog Input 1=9 AEM 2 Analog Input 2=10 AEM 2 Analog Input 3=11 AEM 2 Analog Input 4=12 AEM 2 Analog Input 5=13 AEM 2 Analog Input 6=14 AEM 2 Analog Input 7=15 AEM 2 Analog Input 8=16 AEM 3 Analog Input 1=17 AEM 3 Analog Input 2=18 AEM 3 Analog Input 3=19 AEM 3 Analog Input 4=20 AEM 3 Analog Input 5=21 AEM 3 Analog Input 6=22 AEM 3 Analog Input 7=23 AEM 3 Analog Input 8=24 AEM 4 Analog Input 1=25 AEM 4 Analog Input 2=26 AEM 4 Analog Input 3=27 AEM 4 Analog Input 4=28 AEM 4 Analog Input 5=29 AEM 4 Analog Input 6=30 AEM 4 Analog Input 7=31 AEM 4 Analog Input 8=32 Analog Input 1=33 Analog Input 2=34 Analog Input 3=35 Analog Input 4=36

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Engine Source	Oil Pressure Source	GG	6652	Uint32	4	R W	n/a	Resistive Sender=0 AEM 1 Analog Input 1=1 AEM 1 Analog Input 2=2 AEM 1 Analog Input 3=3 AEM 1 Analog Input 4=4 AEM 1 Analog Input 5=5 AEM 1 Analog Input 6=6 AEM 1 Analog Input 7=7 AEM 1 Analog Input 8=8 AEM 2 Analog Input 1=9 AEM 2 Analog Input 2=10 AEM 2 Analog Input 3=11 AEM 2 Analog Input 4=12 AEM 2 Analog Input 5=13 AEM 2 Analog Input 6=14 AEM 2 Analog Input 7=15 AEM 2 Analog Input 8=16 AEM 3 Analog Input 1=17 AEM 3 Analog Input 2=18 AEM 3 Analog Input 3=19 AEM 3 Analog Input 4=20 AEM 3 Analog Input 5=21 AEM 3 Analog Input 6=22 AEM 3 Analog Input 7=23 AEM 3 Analog Input 8=24 AEM 4 Analog Input 1=25 AEM 4 Analog Input 2=26 AEM 4 Analog Input 3=27 AEM 4 Analog Input 4=28 AEM 4 Analog Input 5=29 AEM 4 Analog Input 6=30 AEM 4 Analog Input 7=31 AEM 4 Analog Input 8=32 Analog Input 1=33 Analog Input 2=34 Analog Input 3=35 Analog Input 4=36
Gen Exerciser	Start Day of Month	GG	6654	Uint32	4	R W	n/a	1 - 31
Gen Exerciser	Start Day of Week	GG	6656	Uint32	4	R W	n/a	Sunday=0 Monday=1 Tuesday=2 Wednesday=3 Thursday=4 Friday=5 Saturday=6
Gen Exerciser	Start Hour	GG	6658	Uint32	4	R W	n/a	0 - 23
Gen Exerciser	Start Minute	GG	6660	Uint32	4	R W	n/a	0 - 59
Gen Exerciser	Period Hours	GG	6662	Uint32	4	R W	n/a	0 - 23
Gen Exerciser	Period Minutes	GG	6664	Uint32	4	R W	n/a	0 - 59
Gen Exerciser	Run with Load	GG	6666	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Gen Exerciser	Exerciser Mode	GG	6668	Uint32	4	R W	n/a	Disabled=0 Daily=1 Weekly=2 Monthly=3 Weekday of Month=4
Run Statistics	Commission Date Day	GG	6670	Uint32	4	R W	n/a	1 - 31
Run Statistics	Commission Date Month	GG	6672	Uint32	4	R W	n/a	1 - 12
Run Statistics	Commission Date Year	GG	6674	Uint32	4	R W	n/a	1800 - 2099
Run Statistics	Maintenance Interval Enable	GG	6676	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Run Statistics	Maintenance Interval	GG	6678	Uint32	4	R W	Hour	0 - 5000
Run Statistics	Hours Until Maintenance	GG	6680	Int32	4	R W	Hour	0 - 5000
Run Statistics	Cumulative Starts	GG	6682	Uint32	4	R W	n/a	0 - 32767
Run Statistics	Session Number Starts	GG	6684	Uint32	4	R	n/a	n/a
Run Statistics	Session Total kWh	GG	6686	Uint32	4	R	kWh	0 - 999999999
Run Statistics	Session Peak kW	GG	6688	Float	4	R	Watt	0 - 3.00E+14
Run Statistics	Cumulative Total Run Hours For Display	GG	6690	Uint32	4	R	n/a	0 - 1000000
Run Statistics	Cumulative Total Run Minutes For Display	GG	6692	Uint32	4	R	n/a	0 - 59
Run Statistics	Cumulative Loaded Run Hours For Display	GG	6694	Uint32	4	R	n/a	0 - 1000000
Run Statistics	Cumulative Loaded Run Minutes For Display	GG	6696	Uint32	4	R	n/a	0 - 59
Run Statistics	Cumulative Unloaded Run Hours For Display	GG	6698	Uint32	4	R	n/a	0 - 1000000
Run Statistics	Cumulative Unloaded Run Minutes For Display	GG	6700	Uint32	4	R	n/a	0 - 59
Run Statistics	Session Total Run Hours For Display	GG	6702	Uint32	4	R	n/a	0 - 1000000
Run Statistics	Session Total Run Minutes For Display	GG	6704	Uint32	4	R	n/a	0 - 59

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Run Statistics	Session Loaded Run Hours For Display	GG	6706	UInt32	4	R	n/a	0 - 1000000
Run Statistics	Session Loaded Run Minutes For Display	GG	6708	UInt32	4	R	n/a	0 - 59
Run Statistics	Session Unloaded Run Hours For Display	GG	6710	UInt32	4	R	n/a	0 - 1000000
Run Statistics	Session Unloaded Run Minutes For Display	GG	6712	UInt32	4	R	n/a	0 - 59
System Configuration	Engine Idle RPM	GG	6714	UInt32	4	R W	n/a	25 - 3600
System Configuration	Engine Operating RPM	GG	6716	UInt32	4	R W	n/a	25 - 3600
System Configuration	Gen Rated Volts Low Line Scale Factor	GG	6718	Float	4	R W	n/a	0.001 - 3
System Configuration	Rated 87G CT Voltage LL	GG	6720	Float	4	R W	Volt	1 - 1000000
Gen Current Configuration	Transformer Connection	GG	6722	UInt32	4	R W	n/a	Wye=0 DAB=1 DAC=2 ZAB=3 ZAC=4 NA=5
Gen Current Configuration	Phase Relationship	GG	6724	UInt32	4	R W	n/a	A=0 B=1 C=2
Gen Current Configuration	Rotation	GG	6726	UInt32	4	R W	n/a	Forward=0 Reverse=1
Gen Current Configuration	Tap	GG	6728	Float	4	R W	n/a	2 - 20
Gen Current Configuration	Reverse Current	GG	6730	UInt32	4	R W	n/a	0 Deg=0 180 Deg=1
Gen Current Configuration	Ground Compensate	GG	6732	UInt32	4	R W	n/a	No=0 Yes=1
Gen Current Configuration	Differential Circuit	GG	6734	UInt32	4	R W	n/a	Primary=0 Secondary=1 None=2
Gen Current Configuration	Connection Type	GG	6736	Int32	4	R W	n/a	Wye=0 DAB=1 DAC=2
Bus1 Curr Config	Transformer Connection	GG	6738	UInt32	4	R W	n/a	Wye=0 DAB=1 DAC=2 ZAB=3 ZAC=4 NA=5
Bus1 Curr Config	Phase Relationship	GG	6740	UInt32	4	R W	n/a	A=0 B=1 C=2
Bus1 Curr Config	Rotation	GG	6742	UInt32	4	R W	n/a	Forward=0 Reverse=1
Bus1 Curr Config	Tap	GG	6744	Float	4	R W	n/a	2 - 20
Bus1 Curr Config	Reverse Current	GG	6746	UInt32	4	R W	n/a	0 Deg=0 180 Deg=1
Bus1 Curr Config	Ground Compensate	GG	6748	UInt32	4	R W	n/a	No=0 Yes=1
Bus1 Curr Config	Differential Circuit	GG	6750	UInt32	4	R W	n/a	Primary=0 Secondary=1 None=2
Bus1 Curr Config	ConnectionType	GG	6752	Int32	4	R W	n/a	Wye=0 DAB=1 DAC=2
Bus2 Curr Config	Transformer Connection	GG	6754	UInt32	4	R W	n/a	Wye=0 DAB=1 DAC=2 ZAB=3 ZAC=4 NA=5
Bus2 Curr Config	Phase Relationship	GG	6756	UInt32	4	R W	n/a	A=0 B=1 C=2
Bus2 Curr Config	Rotation	GG	6758	UInt32	4	R W	n/a	Forward=0 Reverse=1
Bus2 Curr Config	Tap	GG	6760	Float	4	R W	n/a	2 - 20
Bus2 Curr Config	Reverse Current	GG	6762	UInt32	4	R W	n/a	0 Deg=0 180 Deg=1
Bus2 Curr Config	Ground Compensate	GG	6764	UInt32	4	R W	n/a	No=0 Yes=1
Bus2 Curr Config	Differential Circuit	GG	6766	UInt32	4	R W	n/a	Primary=0 Secondary=1 None=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Bus2 Curr Config	ConnectionType	GG	6768	Int32	4	R W	n/a	Wye=0 DAB=1 DAC=2
87G Curr Config	Connection	GG	6770	Int32	4	R W	n/a	CT A=0 CT B=1 CT C=2 CT AB=3 CT BC=4 CT CA=5 CT ABC=6
87G Curr Config	Ratio Primary	GG	6772	Float	4	R W	n/a	1 - 99
87G Curr Config	Ratio Secondary	GG	6774	Int32	4	R W	n/a	1=1 5=5
87G Curr Config	Rated Primary	GG	6776	Float	4	R	Amp	0 - 180000
87G Curr Config	TransformerConnection	GG	6778	UInt32	4	R W	n/a	Wye=0 DAB=1 DAC=2 ZAB=3 ZAC=4 NA=5
87G Curr Config	Phase Relationship	GG	6780	UInt32	4	R W	n/a	A=0 B=1 C=2
87G Curr Config	Rotation	GG	6782	UInt32	4	R W	n/a	Forward=0 Reverse=1
87G Curr Config	Tap	GG	6784	Float	4	R W	n/a	2 - 20
87G Curr Config	Reverse Current	GG	6786	UInt32	4	R W	n/a	0 Deg=0 180 Deg=1
87G Curr Config	Ground Compensate	GG	6788	UInt32	4	R W	n/a	No=0 Yes=1
87G Curr Config	Differential Circuit	GG	6790	UInt32	4	R W	n/a	Primary=0 Secondary=1 None=2
87G Curr Config	Connection Type	GG	6792	Int32	4	R W	n/a	Wye=0 DAB=1 DAC=2
Gen Config	Rated kvar	GG	6794	Float	4	R	Kilovar	0 - 1000000
Bus1 Config	Rated kvar	GG	6796	Float	4	R	Kilovar	0 - 1000000
Bus2 Config	Rated kvar	GG	6798	Float	4	R	Kilovar	0 - 1000000
RS-232 Settings	Flow Control	GG	6800	UInt32	4	R W	n/a	None=0 Hardware=1
RS-485 Settings	Flow Control	GG	6802	UInt32	4	R W	n/a	None=0 Hardware=1
Ethernet Connection	Active Interface	GG	6804	UInt32	4	R W	n/a	Ethernet 1=0 Ethernet 2=1 None=2
Ethernet Connection	Primary Interface	GG	6806	UInt32	4	R W	n/a	Ethernet 1=0 Ethernet 2=1 None=2
Ethernet Connection	Redundant Mode	GG	6808	UInt32	4	R W	n/a	Link Monitor=0 ARP Ping=1
Ethernet Connection	Ping Mode	GG	6810	UInt32	4	R W	n/a	Any=0 All=1
Ethernet Connection	Ping IP 1	GG	6812	IP Address	4	R W	n/a	IP Address
Ethernet Connection	Ping IP 2	GG	6814	IP Address	4	R W	n/a	IP Address
Ethernet Connection	Ping IP 3	GG	6816	IP Address	4	R W	n/a	IP Address
Ethernet Connection	Ping IP 4	GG	6818	IP Address	4	R W	n/a	IP Address
Ethernet Connection	Ping IP 5	GG	6820	IP Address	4	R W	n/a	IP Address
Ethernet Connection	Ping IP 6	GG	6822	IP Address	4	R W	n/a	IP Address
Ethernet Connection	Ping IP 7	GG	6824	IP Address	4	R W	n/a	IP Address
Ethernet Connection	Ping IP 8	GG	6826	IP Address	4	R W	n/a	IP Address
Ethernet Connection	Ping IP 9	GG	6828	IP Address	4	R W	n/a	IP Address
Ethernet Connection	Ping IP 10	GG	6830	IP Address	4	R W	n/a	IP Address
Ethernet Connection	Ping IP 11	GG	6832	IP Address	4	R W	n/a	IP Address
Ethernet Connection	Ping IP 12	GG	6834	IP Address	4	R W	n/a	IP Address
Ethernet Connection	Ping IP 13	GG	6836	IP Address	4	R W	n/a	IP Address
Ethernet Connection	Ping IP 14	GG	6838	IP Address	4	R W	n/a	IP Address

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Ethernet Connection	Ping IP 15	GG	6840	IP Address	4	R W	n/a	IP Address
Ethernet Connection	Ping IP 16	GG	6842	IP Address	4	R W	n/a	IP Address
Generator Exerciser	Start Week of Month	GG	6844	Uint32	4	R W	n/a	First=0 Second=1 Third=2 Fourth=3 Last=4
Modbus	Auto Save	GG	6846	Uint16	2	R W	n/a	Off=0 On=1

Remote Module Settings Register Table

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 1 Input Config. 1	Param Min	GG	7000	Float	4	R W	n/a	-999999 - 999999
AEM 1 Input Config. 1	Param Max	GG	7002	Float	4	R W	n/a	-999999 - 999999
AEM 1 Input Config. 1	Current Min	GG	7004	Float	4	R W	Milliamp	4 - 20
AEM 1 Input Config. 1	Current Max	GG	7006	Float	4	R W	Milliamp	4 - 20
AEM 1 Input Config. 1	Voltage Min	GG	7008	Float	4	R W	Volt	0 - 10
AEM 1 Input Config. 1	Voltage Max	GG	7010	Float	4	R W	Volt	0 - 10
AEM 1 Input Config. 1	Alarm Configuration	GG	7012	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Input Config. 2	Param Min	GG	7014	Float	4	R W	n/a	-999999 - 999999
AEM 1 Input Config. 2	Param Max	GG	7016	Float	4	R W	n/a	-999999 - 999999
AEM 1 Input Config. 2	Current Min	GG	7018	Float	4	R W	Milliamp	4 - 20
AEM 1 Input Config. 2	Current Max	GG	7020	Float	4	R W	Milliamp	4 - 20
AEM 1 Input Config. 2	Voltage Min	GG	7022	Float	4	R W	Volt	0 - 10
AEM 1 Input Config. 2	Voltage Max	GG	7024	Float	4	R W	Volt	0 - 10
AEM 1 Input Config. 2	Alarm Configuration	GG	7026	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Input Config. 3	Param Min	GG	7028	Float	4	R W	n/a	-999999 - 999999
AEM 1 Input Config. 3	Param Max	GG	7030	Float	4	R W	n/a	-999999 - 999999
AEM 1 Input Config. 3	Current Min	GG	7032	Float	4	R W	Milliamp	4 - 20
AEM 1 Input Config. 3	Current Max	GG	7034	Float	4	R W	Milliamp	4 - 20
AEM 1 Input Config. 3	Voltage Min	GG	7036	Float	4	R W	Volt	0 - 10
AEM 1 Input Config. 3	Voltage Max	GG	7038	Float	4	R W	Volt	0 - 10
AEM 1 Input Config. 3	Alarm Configuration	GG	7040	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Input Config. 4	Param Min	GG	7042	Float	4	R W	n/a	-999999 - 999999
AEM 1 Input Config. 4	Param Max	GG	7044	Float	4	R W	n/a	-999999 - 999999
AEM 1 Input Config. 4	Current Min	GG	7046	Float	4	R W	Milliamp	4 - 20
AEM 1 Input Config. 4	Current Max	GG	7048	Float	4	R W	Milliamp	4 - 20
AEM 1 Input Config. 4	Voltage Min	GG	7050	Float	4	R W	Volt	0 - 10
AEM 1 Input Config. 4	Voltage Max	GG	7052	Float	4	R W	Volt	0 - 10
AEM 1 Input Config. 4	Alarm Configuration	GG	7054	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Input Config. 5	Param Min	GG	7056	Float	4	R W	n/a	-999999 - 999999
AEM 1 Input Config. 5	Param Max	GG	7058	Float	4	R W	n/a	-999999 - 999999
AEM 1 Input Config. 5	Current Min	GG	7060	Float	4	R W	Milliamp	4 - 20
AEM 1 Input Config. 5	Current Max	GG	7062	Float	4	R W	Milliamp	4 - 20
AEM 1 Input Config. 5	Voltage Min	GG	7064	Float	4	R W	Volt	0 - 10
AEM 1 Input Config. 5	Voltage Max	GG	7066	Float	4	R W	Volt	0 - 10
AEM 1 Input Config. 5	Alarm Configuration	GG	7068	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Input Config. 6	Param Min	GG	7070	Float	4	R W	n/a	-999999 - 999999
AEM 1 Input Config. 6	Param Max	GG	7072	Float	4	R W	n/a	-999999 - 999999
AEM 1 Input Config. 6	Current Min	GG	7074	Float	4	R W	Milliamp	4 - 20
AEM 1 Input Config. 6	Current Max	GG	7076	Float	4	R W	Milliamp	4 - 20
AEM 1 Input Config. 6	Voltage Min	GG	7078	Float	4	R W	Volt	0 - 10
AEM 1 Input Config. 6	Voltage Max	GG	7080	Float	4	R W	Volt	0 - 10
AEM 1 Input Config. 6	Alarm Configuration	GG	7082	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Input Config. 7	Param Min	GG	7084	Float	4	R W	n/a	-999999 - 999999
AEM 1 Input Config. 7	Param Max	GG	7086	Float	4	R W	n/a	-999999 - 999999

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 1 Input Config. 7	Current Min	GG	7088	Float	4	R W	Milliamp	4 - 20
AEM 1 Input Config. 7	Current Max	GG	7090	Float	4	R W	Milliamp	4 - 20
AEM 1 Input Config. 7	Voltage Min	GG	7092	Float	4	R W	Volt	0 - 10
AEM 1 Input Config. 7	Voltage Max	GG	7094	Float	4	R W	Volt	0 - 10
AEM 1 Input Config. 7	Alarm Configuration	GG	7096	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Input Config. 8	Param Min	GG	7098	Float	4	R W	n/a	-999999 - 999999
AEM 1 Input Config. 8	Param Max	GG	7100	Float	4	R W	n/a	-999999 - 999999
AEM 1 Input Config. 8	Current Min	GG	7102	Float	4	R W	Milliamp	4 - 20
AEM 1 Input Config. 8	Current Max	GG	7104	Float	4	R W	Milliamp	4 - 20
AEM 1 Input Config. 8	Voltage Min	GG	7106	Float	4	R W	Volt	0 - 10
AEM 1 Input Config. 8	Voltage Max	GG	7108	Float	4	R W	Volt	0 - 10
AEM 1 Input Config. 8	Alarm Configuration	GG	7110	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 1	Hysteresis	GG	7112	Float	4	R W	Percent	0 - 100
AEM 1 Protection 1	Arming Delay	GG	7114	Float	4	R W	Second	0 - 300
AEM 1 Protection 1	Threshold 1 Pickup	GG	7116	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 1	Threshold 1 Activation Delay	GG	7118	Float	4	R W	Second	0 - 300
AEM 1 Protection 1	Threshold 1 Alarm Configuration	GG	7120	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 1	Threshold 2 Pickup	GG	7122	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 1	Threshold 2 Activation Delay	GG	7124	Float	4	R W	Second	0 - 300
AEM 1 Protection 1	Threshold 2 Alarm Configuration	GG	7126	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 1	Threshold 3P Pickup	GG	7128	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 1	Threshold 3 Activation Delay	GG	7130	Float	4	R W	Second	0 - 300
AEM 1 Protection 1	Threshold 3 Alarm Configuration	GG	7132	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 1	Threshold 4 Pickup	GG	7134	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 1	Threshold 4 Activation Delay	GG	7136	Float	4	R W	Second	0 - 300
AEM 1 Protection 1	Threshold 4 Alarm Configuration	GG	7138	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 2	Hysteresis	GG	7140	Float	4	R W	Percent	0 - 100
AEM 1 Protection 2	Arming Delay	GG	7142	Float	4	R W	Second	0 - 300
AEM 1 Protection 2	Threshold 1 Pickup	GG	7144	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 2	Threshold 1 Activation Delay	GG	7146	Float	4	R W	Second	0 - 300
AEM 1 Protection 2	Threshold 1 Alarm Configuration	GG	7148	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 2	Threshold 2 Pickup	GG	7150	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 2	Threshold 2 Activation Delay	GG	7152	Float	4	R W	Second	0 - 300
AEM 1 Protection 2	Threshold 2 Alarm Configuration	GG	7154	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 1 Protection 2	Threshold 3 Pickup	GG	7156	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 2	Threshold 3 Activation Delay	GG	7158	Float	4	R W	Second	0 - 300
AEM 1 Protection 2	Threshold 3 Alarm Configuration	GG	7160	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 2	Threshold 4 Pickup	GG	7162	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 2	Threshold 4 Activation Delay	GG	7164	Float	4	R W	Second	0 - 300
AEM 1 Protection 2	Threshold 4 Alarm Configuration	GG	7166	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 3	Hysteresis	GG	7168	Float	4	R W	Percent	0 - 100
AEM 1 Protection 3	Arming Delay	GG	7170	Float	4	R W	Second	0 - 300
AEM 1 Protection 3	Threshold 1 Pickup	GG	7172	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 3	Threshold 1 Activation Delay	GG	7174	Float	4	R W	Second	0 - 300
AEM 1 Protection 3	Threshold 1 Alarm Configuration	GG	7176	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 3	Threshold 2 Pickup	GG	7178	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 3	Threshold 2 Activation Delay	GG	7180	Float	4	R W	Second	0 - 300
AEM 1 Protection 3	Threshold 2 Alarm Configuration	GG	7182	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 3	Threshold 3 Pickup	GG	7184	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 3	Threshold 3 Activation Delay	GG	7186	Float	4	R W	Second	0 - 300
AEM 1 Protection 3	Threshold 3 Alarm Configuration	GG	7188	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 3	Threshold 4 Pickup	GG	7190	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 3	Threshold 4 Activation Delay	GG	7192	Float	4	R W	Second	0 - 300
AEM 1 Protection 3	Threshold 4 Alarm Configuration	GG	7194	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 4	Hysteresis	GG	7196	Float	4	R W	Percent	0 - 100
AEM 1 Protection 4	Arming Delay	GG	7198	Float	4	R W	Second	0 - 300
AEM 1 Protection 4	Threshold 1 Pickup	GG	7200	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 4	Threshold 1 Activation Delay	GG	7202	Float	4	R W	Second	0 - 300
AEM 1 Protection 4	Threshold 1 Alarm Configuration	GG	7204	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 4	Threshold 2 Pickup	GG	7206	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 4	Threshold 2 Activation Delay	GG	7208	Float	4	R W	Second	0 - 300
AEM 1 Protection 4	Threshold 2 Alarm Configuration	GG	7210	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 4	Threshold 3 Pickup	GG	7212	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 4	Threshold 3 Activation Delay	GG	7214	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 1 Protection 4	Threshold 3 Alarm Configuration	GG	7216	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 4	Threshold 4 Pickup	GG	7218	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 4	Threshold 4 Activation Delay	GG	7220	Float	4	R W	Second	0 - 300
AEM 1 Protection 4	Threshold 4 Alarm Configuration	GG	7222	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 5	Hysteresis	GG	7224	Float	4	R W	Percent	0 - 100
AEM 1 Protection 5	Arming Delay	GG	7226	Float	4	R W	Second	0 - 300
AEM 1 Protection 5	Threshold 1 Pickup	GG	7228	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 5	Threshold 1 Activation Delay	GG	7230	Float	4	R W	Second	0 - 300
AEM 1 Protection 5	Threshold 1 Alarm Configuration	GG	7232	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 5	Threshold 2 Pickup	GG	7234	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 5	Threshold 2 Activation Delay	GG	7236	Float	4	R W	Second	0 - 300
AEM 1 Protection 5	Threshold 2 Alarm Configuration	GG	7238	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 5	Threshold 3P Pickup	GG	7240	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 5	Threshold 3 Activation Delay	GG	7242	Float	4	R W	Second	0 - 300
AEM 1 Protection 5	Threshold 3 Alarm Configuration	GG	7244	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 5	Threshold 4 Pickup	GG	7246	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 5	Threshold 4 Activation Delay	GG	7248	Float	4	R W	Second	0 - 300
AEM 1 Protection 5	Threshold 4 Alarm Configuration	GG	7250	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 6	Hysteresis	GG	7252	Float	4	R W	Percent	0 - 100
AEM 1 Protection 6	Arming Delay	GG	7254	Float	4	R W	Second	0 - 300
AEM 1 Protection 6	Threshold 1 Pickup	GG	7256	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 6	Threshold 1 Activation Delay	GG	7258	Float	4	R W	Second	0 - 300
AEM 1 Protection 6	Threshold 1 Alarm Configuration	GG	7260	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 6	Threshold 2 Pickup	GG	7262	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 6	Threshold 2 Activation Delay	GG	7264	Float	4	R W	Second	0 - 300
AEM 1 Protection 6	Threshold 2 Alarm Configuration	GG	7266	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 6	Threshold 3P Pickup	GG	7268	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 6	Threshold 3 Activation Delay	GG	7270	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 1 Protection 6	Threshold 3 Alarm Configuration	GG	7272	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 6	Threshold 4 Pickup	GG	7274	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 6	Threshold 4 Activation Delay	GG	7276	Float	4	R W	Second	0 - 300
AEM 1 Protection 6	Threshold 4 Alarm Configuration	GG	7278	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 7	Hysteresis	GG	7280	Float	4	R W	Percent	0 - 100
AEM 1 Protection 7	Arming Delay	GG	7282	Float	4	R W	Second	0 - 300
AEM 1 Protection 7	Threshold 1 Pickup	GG	7284	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 7	Threshold 1 Activation Delay	GG	7286	Float	4	R W	Second	0 - 300
AEM 1 Protection 7	Threshold 1 Alarm Configuration	GG	7288	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 7	Threshold 2 Pickup	GG	7290	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 7	Threshold 2 Activation Delay	GG	7292	Float	4	R W	Second	0 - 300
AEM 1 Protection 7	Threshold 2 Alarm Configuration	GG	7294	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 7	Threshold 3P Pickup	GG	7296	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 7	Threshold 3 Activation Delay	GG	7298	Float	4	R W	Second	0 - 300
AEM 1 Protection 7	Threshold 3 Alarm Configuration	GG	7300	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 7	Threshold 4 Pickup	GG	7302	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 7	Threshold 4 Activation Delay	GG	7304	Float	4	R W	Second	0 - 300
AEM 1 Protection 7	Threshold 4 Alarm Configuration	GG	7306	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 8	Hysteresis	GG	7308	Float	4	R W	Percent	0 - 100
AEM 1 Protection 8	Arming Delay	GG	7310	Float	4	R W	Second	0 - 300
AEM 1 Protection 8	Threshold 1 Pickup	GG	7312	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 8	Threshold 1 Activation Delay	GG	7314	Float	4	R W	Second	0 - 300
AEM 1 Protection 8	Threshold 1 Alarm Configuration	GG	7316	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 8	Threshold 2 Pickup	GG	7318	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 8	Threshold 2 Activation Delay	GG	7320	Float	4	R W	Second	0 - 300
AEM 1 Protection 8	Threshold 2 Alarm Configuration	GG	7322	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 8	Threshold 3P Pickup	GG	7324	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 8	Threshold 3 Activation Delay	GG	7326	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 1 Protection 8	Threshold 3 Alarm Configuration	GG	7328	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Protection 8	Threshold 4 Pickup	GG	7330	Float	4	R W	n/a	-999999 - 999999
AEM 1 Protection 8	Threshold 4 Activation Delay	GG	7332	Float	4	R W	Second	0 - 300
AEM 1 Protection 8	Threshold 4 Alarm Configuration	GG	7334	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Remote Analog Output 1	Parameter Selection	GG	7336	Int32	4	R W	n/a	See Selectable Parameters chapter for a complete list.
AEM 1 Remote Analog Output 1	Out-of-Range Activation Delay	GG	7338	Float	4	R W	Second	0 - 300
AEM 1 Remote Analog Output 1	Param Minimum	GG	7340	Float	4	R W	n/a	-999999 - 999999
AEM 1 Remote Analog Output 1	Param Maximum	GG	7342	Float	4	R W	n/a	-999999 - 999999
AEM 1 Remote Analog Output 1	Current Minimum	GG	7344	Float	4	R W	Milliamp	4 - 20
AEM 1 Remote Analog Output 1	Current Maximum	GG	7346	Float	4	R W	Milliamp	4 - 20
AEM 1 Remote Analog Output 1	Voltage Minimum	GG	7348	Float	4	R W	Volt	0 - 10
AEM 1 Remote Analog Output 1	Voltage Maximum	GG	7350	Float	4	R W	Volt	0 - 10
AEM 1 Remote Analog Output 1	Alarm Configuration	GG	7352	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Remote Analog Output 2	Parameter Selection	GG	7354	Int32	4	R W	n/a	See Selectable Parameters chapter for a complete list.
AEM 1 Remote Analog Output 2	Out-of-Range Activation Delay	GG	7356	Float	4	R W	Second	0 - 300
AEM 1 Remote Analog Output 2	Param Minimum	GG	7358	Float	4	R W	n/a	-999999 - 999999
AEM 1 Remote Analog Output 2	Param Maximum	GG	7360	Float	4	R W	n/a	-999999 - 999999
AEM 1 Remote Analog Output 2	Current Minimum	GG	7362	Float	4	R W	Milliamp	4 - 20
AEM 1 Remote Analog Output 2	Current Maximum	GG	7364	Float	4	R W	Milliamp	4 - 20
AEM 1 Remote Analog Output 2	Voltage Minimum	GG	7366	Float	4	R W	Volt	0 - 10
AEM 1 Remote Analog Output 2	Voltage Maximum	GG	7368	Float	4	R W	Volt	0 - 10
AEM 1 Remote Analog Output 2	Alarm Configuration	GG	7370	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Remote Analog Output 3	Parameter Selection	GG	7372	Int32	4	R W	n/a	See Selectable Parameters chapter for a complete list.
AEM 1 Remote Analog Output 3	Out-of-Range Activation Delay	GG	7374	Float	4	R W	Second	0 - 300
AEM 1 Remote Analog Output 3	Parameter Minimum	GG	7376	Float	4	R W	n/a	-999999 - 999999
AEM 1 Remote Analog Output 3	Parameter Maximum	GG	7378	Float	4	R W	n/a	-999999 - 999999
AEM 1 Remote Analog Output 3	Current Minimum	GG	7380	Float	4	R W	Milliamp	4 - 20
AEM 1 Remote Analog Output 3	Current Maximum	GG	7382	Float	4	R W	Milliamp	4 - 20
AEM 1 Remote Analog Output 3	Voltage Minimum	GG	7384	Float	4	R W	Volt	0 - 10
AEM 1 Remote Analog Output 3	Voltage Maximum	GG	7386	Float	4	R W	Volt	0 - 10

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 1 Remote Analog Output 3	Alarm Configuration	GG	7388	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 1 Remote Analog Output 4	Parameter Selection	GG	7390	Int32	4	R W	n/a	See Selectable Parameters chapter for a complete list.
AEM 1 Remote Analog Output 4	Out-of-Range Activation Delay	GG	7392	Float	4	R W	Second	0 - 300
AEM 1 Remote Analog Output 4	Parameter Minimum	GG	7394	Float	4	R W	n/a	-999999 - 999999
AEM 1 Remote Analog Output 4	Parameter Maximum	GG	7396	Float	4	R W	n/a	-999999 - 999999
AEM 1 Remote Analog Output 4	Current Minimum	GG	7398	Float	4	R W	Milliamp	4 - 20
AEM 1 Remote Analog Output 4	Current Maximum	GG	7400	Float	4	R W	Milliamp	4 - 20
AEM 1 Remote Analog Output 4	Voltage Minimum	GG	7402	Float	4	R W	Volt	0 - 10
AEM 1 Remote Analog Output 4	Voltage Maximum	GG	7404	Float	4	R W	Volt	0 - 10
AEM 1 Remote Analog Output 4	Alarm Configuration	GG	7406	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Input Config. 1	Parameter Minimum	GG	7408	Float	4	R W	n/a	-999999 - 999999
AEM 2 Input Config. 1	Parameter Maximum	GG	7410	Float	4	R W	n/a	-999999 - 999999
AEM 2 Input Config. 1	Current Minimum	GG	7412	Float	4	R W	Milliamp	4 - 20
AEM 2 Input Config. 1	Current Maximum	GG	7414	Float	4	R W	Milliamp	4 - 20
AEM 2 Input Config. 1	Voltage Minimum	GG	7416	Float	4	R W	Volt	0 - 10
AEM 2 Input Config. 1	Voltage Maximum	GG	7418	Float	4	R W	Volt	0 - 10
AEM 2 Input Config. 1	Alarm Configuration	GG	7420	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Input Config. 2	Parameter Minimum	GG	7422	Float	4	R W	n/a	-999999 - 999999
AEM 2 Input Config. 2	Parameter Maximum	GG	7424	Float	4	R W	n/a	-999999 - 999999
AEM 2 Input Config. 2	Current Minimum	GG	7426	Float	4	R W	Milliamp	4 - 20
AEM 2 Input Config. 2	Current Maximum	GG	7428	Float	4	R W	Milliamp	4 - 20
AEM 2 Input Config. 2	Voltage Minimum	GG	7430	Float	4	R W	Volt	0 - 10
AEM 2 Input Config. 2	Voltage Maximum	GG	7432	Float	4	R W	Volt	0 - 10
AEM 2 Input Config. 2	Alarm Configuration	GG	7434	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Input Config. 3	Parameter Minimum	GG	7436	Float	4	R W	n/a	-999999 - 999999
AEM 2 Input Config. 3	Parameter Maximum	GG	7438	Float	4	R W	n/a	-999999 - 999999
AEM 2 Input Config. 3	Current Minimum	GG	7440	Float	4	R W	Milliamp	4 - 20
AEM 2 Input Config. 3	Current Maximum	GG	7442	Float	4	R W	Milliamp	4 - 20
AEM 2 Input Config. 3	Voltage Minimum	GG	7444	Float	4	R W	Volt	0 - 10
AEM 2 Input Config. 3	Voltage Maximum	GG	7446	Float	4	R W	Volt	0 - 10
AEM 2 Input Config. 3	Alarm Configuration	GG	7448	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Input Config. 4	Parameter Minimum	GG	7450	Float	4	R W	n/a	-999999 - 999999
AEM 2 Input Config. 4	Parameter Maximum	GG	7452	Float	4	R W	n/a	-999999 - 999999
AEM 2 Input Config. 4	Current Minimum	GG	7454	Float	4	R W	Milliamp	4 - 20
AEM 2 Input Config. 4	Current Maximum	GG	7456	Float	4	R W	Milliamp	4 - 20
AEM 2 Input Config. 4	Voltage Minimum	GG	7458	Float	4	R W	Volt	0 - 10
AEM 2 Input Config. 4	Voltage Maximum	GG	7460	Float	4	R W	Volt	0 - 10
AEM 2 Input Config. 4	Alarm Configuration	GG	7462	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Input Config. 5	Parameter Minimum	GG	7464	Float	4	R W	n/a	-999999 - 999999
AEM 2 Input Config. 5	Parameter Maximum	GG	7466	Float	4	R W	n/a	-999999 - 999999
AEM 2 Input Config. 5	Current Minimum	GG	7468	Float	4	R W	Milliamp	4 - 20

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 2 Input Config. 5	Current Maximum	GG	7470	Float	4	R W	Milliamp	4 - 20
AEM 2 Input Config. 5	Voltage Minimum	GG	7472	Float	4	R W	Volt	0 - 10
AEM 2 Input Config. 5	Voltage Maximum	GG	7474	Float	4	R W	Volt	0 - 10
AEM 2 Input Config. 5	Alarm Configuration	GG	7476	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Input Config. 6	Parameter Minimum	GG	7478	Float	4	R W	n/a	-999999 - 999999
AEM 2 Input Config. 6	Parameter Maximum	GG	7480	Float	4	R W	n/a	-999999 - 999999
AEM 2 Input Config. 6	Current Minimum	GG	7482	Float	4	R W	Milliamp	4 - 20
AEM 2 Input Config. 6	Current Maximum	GG	7484	Float	4	R W	Milliamp	4 - 20
AEM 2 Input Config. 6	Voltage Minimum	GG	7486	Float	4	R W	Volt	0 - 10
AEM 2 Input Config. 6	Voltage Maximum	GG	7488	Float	4	R W	Volt	0 - 10
AEM 2 Input Config. 6	Alarm Configuration	GG	7490	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Input Config. 7	Parameter Minimum	GG	7492	Float	4	R W	n/a	-999999 - 999999
AEM 2 Input Config. 7	Parameter Maximum	GG	7494	Float	4	R W	n/a	-999999 - 999999
AEM 2 Input Config. 7	Current Minimum	GG	7496	Float	4	R W	Milliamp	4 - 20
AEM 2 Input Config. 7	Current Maximum	GG	7498	Float	4	R W	Milliamp	4 - 20
AEM 2 Input Config. 7	Voltage Minimum	GG	7500	Float	4	R W	Volt	0 - 10
AEM 2 Input Config. 7	Voltage Maximum	GG	7502	Float	4	R W	Volt	0 - 10
AEM 2 Input Config. 7	Alarm Configuration	GG	7504	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Input Config. 8	Parameter Minimum	GG	7506	Float	4	R W	n/a	-999999 - 999999
AEM 2 Input Config. 8	Parameter Maximum	GG	7508	Float	4	R W	n/a	-999999 - 999999
AEM 2 Input Config. 8	Current Minimum	GG	7510	Float	4	R W	Milliamp	4 - 20
AEM 2 Input Config. 8	Current Maximum	GG	7512	Float	4	R W	Milliamp	4 - 20
AEM 2 Input Config. 8	Voltage Minimum	GG	7514	Float	4	R W	Volt	0 - 10
AEM 2 Input Config. 8	Voltage Maximum	GG	7516	Float	4	R W	Volt	0 - 10
AEM 2 Input Config. 8	Alarm Configuration	GG	7518	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 1	Hysteresis	GG	7520	Float	4	R W	Percent	0 - 100
AEM 2 Protection 1	Arming Delay	GG	7522	Float	4	R W	Second	0 - 300
AEM 2 Protection 1	Threshold 1 Pickup	GG	7524	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 1	Threshold 1 Activation Delay	GG	7526	Float	4	R W	Second	0 - 300
AEM 2 Protection 1	Threshold 1 Alarm Configuration	GG	7528	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 1	Threshold 2 Pickup	GG	7530	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 1	Threshold 2 Activation Delay	GG	7532	Float	4	R W	Second	0 - 300
AEM 2 Protection 1	Threshold 2 Alarm Configuration	GG	7534	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 1	Threshold 3P ickup	GG	7536	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 1	Threshold 3 Activation Delay	GG	7538	Float	4	R W	Second	0 - 300
AEM 2 Protection 1	Threshold 3 Alarm Configuration	GG	7540	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 1	Threshold 4 Pickup	GG	7542	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 1	Threshold 4 Activation Delay	GG	7544	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 2 Protection 1	Threshold 4 Alarm Configuration	GG	7546	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 2	Hysteresis	GG	7548	Float	4	R W	Percent	0 - 100
AEM 2 Protection 2	Arming Delay	GG	7550	Float	4	R W	Second	0 - 300
AEM 2 Protection 2	Threshold 1 Pickup	GG	7552	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 2	Threshold 1 Activation Delay	GG	7554	Float	4	R W	Second	0 - 300
AEM 2 Protection 2	Threshold 1 Alarm Configuration	GG	7556	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 2	Threshold 2 Pickup	GG	7558	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 2	Threshold 2 Activation Delay	GG	7560	Float	4	R W	Second	0 - 300
AEM 2 Protection 2	Threshold 2 Alarm Configuration	GG	7562	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 2	Threshold 3P pickup	GG	7564	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 2	Threshold 3 Activation Delay	GG	7566	Float	4	R W	Second	0 - 300
AEM 2 Protection 2	Threshold 3 Alarm Configuration	GG	7568	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 2	Threshold 4 Pickup	GG	7570	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 2	Threshold 4 Activation Delay	GG	7572	Float	4	R W	Second	0 - 300
AEM 2 Protection 2	Threshold 4 Alarm Configuration	GG	7574	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 3	Hysteresis	GG	7576	Float	4	R W	Percent	0 - 100
AEM 2 Protection 3	Arming Delay	GG	7578	Float	4	R W	Second	0 - 300
AEM 2 Protection 3	Threshold 1 Pickup	GG	7580	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 3	Threshold 1 Activation Delay	GG	7582	Float	4	R W	Second	0 - 300
AEM 2 Protection 3	Threshold 1 Alarm Configuration	GG	7584	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 3	Threshold 2 Pickup	GG	7586	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 3	Threshold 2 Activation Delay	GG	7588	Float	4	R W	Second	0 - 300
AEM 2 Protection 3	Threshold 2 Alarm Configuration	GG	7590	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 3	Threshold 3P pickup	GG	7592	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 3	Threshold 3 Activation Delay	GG	7594	Float	4	R W	Second	0 - 300
AEM 2 Protection 3	Threshold 3 Alarm Configuration	GG	7596	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 3	Threshold 4 Pickup	GG	7598	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 3	Threshold 4 Activation Delay	GG	7600	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 2 Protection 3	Threshold 4 Alarm Configuration	GG	7602	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 4	Hysteresis	GG	7604	Float	4	R W	Percent	0 - 100
AEM 2 Protection 4	Arming Delay	GG	7606	Float	4	R W	Second	0 - 300
AEM 2 Protection 4	Threshold 1 Pickup	GG	7608	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 4	Threshold 1 Activation Delay	GG	7610	Float	4	R W	Second	0 - 300
AEM 2 Protection 4	Threshold 1 Alarm Configuration	GG	7612	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 4	Threshold 2 Pickup	GG	7614	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 4	Threshold 2 Activation Delay	GG	7616	Float	4	R W	Second	0 - 300
AEM 2 Protection 4	Threshold 2 Alarm Configuration	GG	7618	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 4	Threshold 3P ickup	GG	7620	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 4	Threshold 3 Activation Delay	GG	7622	Float	4	R W	Second	0 - 300
AEM 2 Protection 4	Threshold 3 Alarm Configuration	GG	7624	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 4	Threshold 4 Pickup	GG	7626	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 4	Threshold 4 Activation Delay	GG	7628	Float	4	R W	Second	0 - 300
AEM 2 Protection 4	Threshold 4 Alarm Configuration	GG	7630	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 5	Hysteresis	GG	7632	Float	4	R W	Percent	0 - 100
AEM 2 Protection 5	Arming Delay	GG	7634	Float	4	R W	Second	0 - 300
AEM 2 Protection 5	Threshold 1 Pickup	GG	7636	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 5	Threshold 1 Activation Delay	GG	7638	Float	4	R W	Second	0 - 300
AEM 2 Protection 5	Threshold 1 Alarm Configuration	GG	7640	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 5	Threshold 2 Pickup	GG	7642	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 5	Threshold 2 Activation Delay	GG	7644	Float	4	R W	Second	0 - 300
AEM 2 Protection 5	Threshold 2 Alarm Configuration	GG	7646	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 5	Threshold 3P ickup	GG	7648	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 5	Threshold 3 Activation Delay	GG	7650	Float	4	R W	Second	0 - 300
AEM 2 Protection 5	Threshold 3 Alarm Configuration	GG	7652	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 5	Threshold 4 Pickup	GG	7654	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 5	Threshold 4 Activation Delay	GG	7656	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 2 Protection 5	Threshold 4 Alarm Configuration	GG	7658	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 6	Hysteresis	GG	7660	Float	4	R W	Percent	0 - 100
AEM 2 Protection 6	Arming Delay	GG	7662	Float	4	R W	Second	0 - 300
AEM 2 Protection 6	Threshold 1 Pickup	GG	7664	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 6	Threshold 1 Activation Delay	GG	7666	Float	4	R W	Second	0 - 300
AEM 2 Protection 6	Threshold 1 Alarm Configuration	GG	7668	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 6	Threshold 2 Pickup	GG	7670	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 6	Threshold 2 Activation Delay	GG	7672	Float	4	R W	Second	0 - 300
AEM 2 Protection 6	Threshold 2 Alarm Configuration	GG	7674	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 6	Threshold 3P ickup	GG	7676	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 6	Threshold 3 Activation Delay	GG	7678	Float	4	R W	Second	0 - 300
AEM 2 Protection 6	Threshold 3 Alarm Configuration	GG	7680	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 6	Threshold 4 Pickup	GG	7682	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 6	Threshold 4 Activation Delay	GG	7684	Float	4	R W	Second	0 - 300
AEM 2 Protection 6	Threshold 4 Alarm Configuration	GG	7686	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 7	Hysteresis	GG	7688	Float	4	R W	Percent	0 - 100
AEM 2 Protection 7	Arming Delay	GG	7690	Float	4	R W	Second	0 - 300
AEM 2 Protection 7	Threshold 1 Pickup	GG	7692	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 7	Threshold 1 Activation Delay	GG	7694	Float	4	R W	Second	0 - 300
AEM 2 Protection 7	Threshold 1 Alarm Configuration	GG	7696	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 7	Threshold 2 Pickup	GG	7698	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 7	Threshold 2 Activation Delay	GG	7700	Float	4	R W	Second	0 - 300
AEM 2 Protection 7	Threshold 2 Alarm Configuration	GG	7702	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 7	Threshold 3P ickup	GG	7704	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 7	Threshold 3 Activation Delay	GG	7706	Float	4	R W	Second	0 - 300
AEM 2 Protection 7	Threshold 3 Alarm Configuration	GG	7708	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 7	Threshold 4 Pickup	GG	7710	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 7	Threshold 4 Activation Delay	GG	7712	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 2 Protection 7	Threshold 4 Alarm Configuration	GG	7714	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 8	Hysteresis	GG	7716	Float	4	R W	Percent	0 - 100
AEM 2 Protection 8	Arming Delay	GG	7718	Float	4	R W	Second	0 - 300
AEM 2 Protection 8	Threshold 1 Pickup	GG	7720	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 8	Threshold 1 Activation Delay	GG	7722	Float	4	R W	Second	0 - 300
AEM 2 Protection 8	Threshold 1 Alarm Configuration	GG	7724	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 8	Threshold 2 Pickup	GG	7726	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 8	Threshold 2 Activation Delay	GG	7728	Float	4	R W	Second	0 - 300
AEM 2 Protection 8	Threshold 2 Alarm Configuration	GG	7730	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 8	Threshold 3P Pickup	GG	7732	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 8	Threshold 3 Activation Delay	GG	7734	Float	4	R W	Second	0 - 300
AEM 2 Protection 8	Threshold 3 Alarm Configuration	GG	7736	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Protection 8	Threshold 4 Pickup	GG	7738	Float	4	R W	n/a	-999999 - 999999
AEM 2 Protection 8	Threshold 4 Activation Delay	GG	7740	Float	4	R W	Second	0 - 300
AEM 2 Protection 8	Threshold 4 Alarm Configuration	GG	7742	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Remote Analog Output 1	Parameter Selection	GG	7744	Int32	4	R W	n/a	See Selectable Parameters chapter for a complete list.
AEM 2 Remote Analog Output 1	Out-of-Range Activation Delay	GG	7746	Float	4	R W	Second	0 - 300
AEM 2 Remote Analog Output 1	Parameter Minimum	GG	7748	Float	4	R W	n/a	-999999 - 999999
AEM 2 Remote Analog Output 1	Parameter Maximum	GG	7750	Float	4	R W	n/a	-999999 - 999999
AEM 2 Remote Analog Output 1	Current Minimum	GG	7752	Float	4	R W	Milliamp	4 - 20
AEM 2 Remote Analog Output 1	Current Maximum	GG	7754	Float	4	R W	Milliamp	4 - 20
AEM 2 Remote Analog Output 1	Voltage Minimum	GG	7756	Float	4	R W	Volt	0 - 10
AEM 2 Remote Analog Output 1	Voltage Maximum	GG	7758	Float	4	R W	Volt	0 - 10
AEM 2 Remote Analog Output 1	Alarm Configuration	GG	7760	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Remote Analog Output 2	Parameter Selection	GG	7762	Int32	4	R W	n/a	See Selectable Parameters chapter for a complete list.
AEM 2 Remote Analog Output 2	Out-of-Range Activation Delay	GG	7764	Float	4	R W	Second	0 - 300
AEM 2 Remote Analog Output 2	Parameter Minimum	GG	7766	Float	4	R W	n/a	-999999 - 999999
AEM 2 Remote Analog Output 2	Parameter Maximum	GG	7768	Float	4	R W	n/a	-999999 - 999999
AEM 2 Remote Analog Output 2	Current Minimum	GG	7770	Float	4	R W	Milliamp	4 - 20
AEM 2 Remote Analog Output 2	Current Maximum	GG	7772	Float	4	R W	Milliamp	4 - 20
AEM 2 Remote Analog Output 2	Voltage Minimum	GG	7774	Float	4	R W	Volt	0 - 10

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 2 Remote Analog Output 2	Voltage Maximum	GG	7776	Float	4	R W	Volt	0 - 10
AEM 2 Remote Analog Output 2	Alarm Configuration	GG	7778	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Remote Analog Output 3	Parameter Selection	GG	7780	Int32	4	R W	n/a	See Selectable Parameters chapter for a complete list.
AEM 2 Remote Analog Output 3	Out-of-Range Activation Delay	GG	7782	Float	4	R W	Second	0 - 300
AEM 2 Remote Analog Output 3	Parameter Minimum	GG	7784	Float	4	R W	n/a	-999999 - 999999
AEM 2 Remote Analog Output 3	Parameter Maximum	GG	7786	Float	4	R W	n/a	-999999 - 999999
AEM 2 Remote Analog Output 3	Current Minimum	GG	7788	Float	4	R W	Milliamp	4 - 20
AEM 2 Remote Analog Output 3	Current Maximum	GG	7790	Float	4	R W	Milliamp	4 - 20
AEM 2 Remote Analog Output 3	Voltage Minimum	GG	7792	Float	4	R W	Volt	0 - 10
AEM 2 Remote Analog Output 3	Voltage Maximum	GG	7794	Float	4	R W	Volt	0 - 10
AEM 2 Remote Analog Output 3	Alarm Configuration	GG	7796	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 2 Remote Analog Output 4	Parameter Selection	GG	7798	Int32	4	R W	n/a	See Selectable Parameters chapter for a complete list.
AEM 2 Remote Analog Output 4	Out-of-Range Activation Delay	GG	7800	Float	4	R W	Second	0 - 300
AEM 2 Remote Analog Output 4	Parameter Minimum	GG	7802	Float	4	R W	n/a	-999999 - 999999
AEM 2 Remote Analog Output 4	Parameter Maximum	GG	7804	Float	4	R W	n/a	-999999 - 999999
AEM 2 Remote Analog Output 4	Current Minimum	GG	7806	Float	4	R W	Milliamp	4 - 20
AEM 2 Remote Analog Output 4	Current Maximum	GG	7808	Float	4	R W	Milliamp	4 - 20
AEM 2 Remote Analog Output 4	Voltage Minimum	GG	7810	Float	4	R W	Volt	0 - 10
AEM 2 Remote Analog Output 4	Voltage Maximum	GG	7812	Float	4	R W	Volt	0 - 10
AEM 2 Remote Analog Output 4	Alarm Configuration	GG	7814	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Input Config. 1	Parameter Minimum	GG	7816	Float	4	R W	n/a	-999999 - 999999
AEM 3 Input Config. 1	Parameter Maximum	GG	7818	Float	4	R W	n/a	-999999 - 999999
AEM 3 Input Config. 1	Current Minimum	GG	7820	Float	4	R W	Milliamp	4 - 20
AEM 3 Input Config. 1	Current Maximum	GG	7822	Float	4	R W	Milliamp	4 - 20
AEM 3 Input Config. 1	Voltage Minimum	GG	7824	Float	4	R W	Volt	0 - 10
AEM 3 Input Config. 1	Voltage Maximum	GG	7826	Float	4	R W	Volt	0 - 10
AEM 3 Input Config. 1	Alarm Configuration	GG	7828	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Input Config. 2	Parameter Minimum	GG	7830	Float	4	R W	n/a	-999999 - 999999
AEM 3 Input Config. 2	Parameter Maximum	GG	7832	Float	4	R W	n/a	-999999 - 999999
AEM 3 Input Config. 2	Current Minimum	GG	7834	Float	4	R W	Milliamp	4 - 20
AEM 3 Input Config. 2	Current Maximum	GG	7836	Float	4	R W	Milliamp	4 - 20
AEM 3 Input Config. 2	Voltage Minimum	GG	7838	Float	4	R W	Volt	0 - 10
AEM 3 Input Config. 2	Voltage Maximum	GG	7840	Float	4	R W	Volt	0 - 10
AEM 3 Input Config. 2	Alarm Configuration	GG	7842	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Input Config. 3	Parameter Minimum	GG	7844	Float	4	R W	n/a	-999999 - 999999
AEM 3 Input Config. 3	Parameter Maximum	GG	7846	Float	4	R W	n/a	-999999 - 999999
AEM 3 Input Config. 3	Current Minimum	GG	7848	Float	4	R W	Milliamp	4 - 20

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 3 Input Config. 3	Current Maximum	GG	7850	Float	4	R W	Milliamp	4 - 20
AEM 3 Input Config. 3	Voltage Minimum	GG	7852	Float	4	R W	Volt	0 - 10
AEM 3 Input Config. 3	Voltage Maximum	GG	7854	Float	4	R W	Volt	0 - 10
AEM 3 Input Config. 3	Alarm Configuration	GG	7856	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Input Config. 4	Parameter Minimum	GG	7858	Float	4	R W	n/a	-999999 - 999999
AEM 3 Input Config. 4	Parameter Maximum	GG	7860	Float	4	R W	n/a	-999999 - 999999
AEM 3 Input Config. 4	Current Minimum	GG	7862	Float	4	R W	Milliamp	4 - 20
AEM 3 Input Config. 4	Current Maximum	GG	7864	Float	4	R W	Milliamp	4 - 20
AEM 3 Input Config. 4	Voltage Minimum	GG	7866	Float	4	R W	Volt	0 - 10
AEM 3 Input Config. 4	Voltage Maximum	GG	7868	Float	4	R W	Volt	0 - 10
AEM 3 Input Config. 4	Alarm Configuration	GG	7870	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Input Config. 5	Parameter Minimum	GG	7872	Float	4	R W	n/a	-999999 - 999999
AEM 3 Input Config. 5	Parameter Maximum	GG	7874	Float	4	R W	n/a	-999999 - 999999
AEM 3 Input Config. 5	Current Minimum	GG	7876	Float	4	R W	Milliamp	4 - 20
AEM 3 Input Config. 5	Current Maximum	GG	7878	Float	4	R W	Milliamp	4 - 20
AEM 3 Input Config. 5	Voltage Minimum	GG	7880	Float	4	R W	Volt	0 - 10
AEM 3 Input Config. 5	Voltage Maximum	GG	7882	Float	4	R W	Volt	0 - 10
AEM 3 Input Config. 5	Alarm Configuration	GG	7884	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Input Config. 6	Parameter Minimum	GG	7886	Float	4	R W	n/a	-999999 - 999999
AEM 3 Input Config. 6	Parameter Maximum	GG	7888	Float	4	R W	n/a	-999999 - 999999
AEM 3 Input Config. 6	Current Minimum	GG	7890	Float	4	R W	Milliamp	4 - 20
AEM 3 Input Config. 6	Current Maximum	GG	7892	Float	4	R W	Milliamp	4 - 20
AEM 3 Input Config. 6	Voltage Minimum	GG	7894	Float	4	R W	Volt	0 - 10
AEM 3 Input Config. 6	Voltage Maximum	GG	7896	Float	4	R W	Volt	0 - 10
AEM 3 Input Config. 6	Alarm Configuration	GG	7898	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Input Config. 7	Parameter Minimum	GG	7900	Float	4	R W	n/a	-999999 - 999999
AEM 3 Input Config. 7	Parameter Maximum	GG	7902	Float	4	R W	n/a	-999999 - 999999
AEM 3 Input Config. 7	Current Minimum	GG	7904	Float	4	R W	Milliamp	4 - 20
AEM 3 Input Config. 7	Current Maximum	GG	7906	Float	4	R W	Milliamp	4 - 20
AEM 3 Input Config. 7	Voltage Minimum	GG	7908	Float	4	R W	Volt	0 - 10
AEM 3 Input Config. 7	Voltage Maximum	GG	7910	Float	4	R W	Volt	0 - 10
AEM 3 Input Config. 7	Alarm Configuration	GG	7912	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Input Config. 8	Parameter Minimum	GG	7914	Float	4	R W	n/a	-999999 - 999999
AEM 3 Input Config. 8	Parameter Maximum	GG	7916	Float	4	R W	n/a	-999999 - 999999
AEM 3 Input Config. 8	Current Minimum	GG	7918	Float	4	R W	Milliamp	4 - 20
AEM 3 Input Config. 8	Current Maximum	GG	7920	Float	4	R W	Milliamp	4 - 20
AEM 3 Input Config. 8	Voltage Minimum	GG	7922	Float	4	R W	Volt	0 - 10
AEM 3 Input Config. 8	Voltage Maximum	GG	7924	Float	4	R W	Volt	0 - 10
AEM 3 Input Config. 8	Alarm Configuration	GG	7926	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 1	Hysteresis	GG	7928	Float	4	R W	Percent	0 - 100
AEM 3 Protection 1	Arming Delay	GG	7930	Float	4	R W	Second	0 - 300
AEM 3 Protection 1	Threshold 1 Pickup	GG	7932	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 1	Threshold 1 Activation Delay	GG	7934	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 3 Protection 1	Threshold 1 Alarm Configuration	GG	7936	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 1	Threshold 2 Pickup	GG	7938	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 1	Threshold 2 Activation Delay	GG	7940	Float	4	R W	Second	0 - 300
AEM 3 Protection 1	Threshold 2 Alarm Configuration	GG	7942	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 1	Threshold 3P Pickup	GG	7944	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 1	Threshold 3 Activation Delay	GG	7946	Float	4	R W	Second	0 - 300
AEM 3 Protection 1	Threshold 3 Alarm Configuration	GG	7948	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 1	Threshold 4 Pickup	GG	7950	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 1	Threshold 4 Activation Delay	GG	7952	Float	4	R W	Second	0 - 300
AEM 3 Protection 1	Threshold 4 Alarm Configuration	GG	7954	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 2	Hysteresis	GG	7956	Float	4	R W	Percent	0 - 100
AEM 3 Protection 2	Arming Delay	GG	7958	Float	4	R W	Second	0 - 300
AEM 3 Protection 2	Threshold 1 Pickup	GG	7960	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 2	Threshold 1 Activation Delay	GG	7962	Float	4	R W	Second	0 - 300
AEM 3 Protection 2	Threshold 1 Alarm Configuration	GG	7964	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 2	Threshold 2 Pickup	GG	7966	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 2	Threshold 2 Activation Delay	GG	7968	Float	4	R W	Second	0 - 300
AEM 3 Protection 2	Threshold 2 Alarm Configuration	GG	7970	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 2	Threshold 3P Pickup	GG	7972	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 2	Threshold 3 Activation Delay	GG	7974	Float	4	R W	Second	0 - 300
AEM 3 Protection 2	Threshold 3 Alarm Configuration	GG	7976	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 2	Threshold 4 Pickup	GG	7978	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 2	Threshold 4 Activation Delay	GG	7980	Float	4	R W	Second	0 - 300
AEM 3 Protection 2	Threshold 4 Alarm Configuration	GG	7982	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 3	Hysteresis	GG	7984	Float	4	R W	Percent	0 - 100
AEM 3 Protection 3	Arming Delay	GG	7986	Float	4	R W	Second	0 - 300
AEM 3 Protection 3	Threshold 1 Pickup	GG	7988	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 3	Threshold 1 Activation Delay	GG	7990	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 3 Protection 3	Threshold 1 Alarm Configuration	GG	7992	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 3	Threshold 2 Pickup	GG	7994	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 3	Threshold 2 Activation Delay	GG	7996	Float	4	R W	Second	0 - 300
AEM 3 Protection 3	Threshold 2 Alarm Configuration	GG	7998	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 3	Threshold 3P Pickup	GG	8000	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 3	Threshold 3 Activation Delay	GG	8002	Float	4	R W	Second	0 - 300
AEM 3 Protection 3	Threshold 3 Alarm Configuration	GG	8004	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 3	Threshold 4 Pickup	GG	8006	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 3	Threshold 4 Activation Delay	GG	8008	Float	4	R W	Second	0 - 300
AEM 3 Protection 3	Threshold 4 Alarm Configuration	GG	8010	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 4	Hysteresis	GG	8012	Float	4	R W	Percent	0 - 100
AEM 3 Protection 4	Arming Delay	GG	8014	Float	4	R W	Second	0 - 300
AEM 3 Protection 4	Threshold 1 Pickup	GG	8016	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 4	Threshold 1 Activation Delay	GG	8018	Float	4	R W	Second	0 - 300
AEM 3 Protection 4	Threshold 1 Alarm Configuration	GG	8020	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 4	Threshold 2 Pickup	GG	8022	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 4	Threshold 2 Activation Delay	GG	8024	Float	4	R W	Second	0 - 300
AEM 3 Protection 4	Threshold 2 Alarm Configuration	GG	8026	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 4	Threshold 3 Pickup	GG	8028	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 4	Threshold 3 Activation Delay	GG	8030	Float	4	R W	Second	0 - 300
AEM 3 Protection 4	Threshold 3 Alarm Configuration	GG	8032	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 4	Threshold 4 Pickup	GG	8034	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 4	Threshold 4 Activation Delay	GG	8036	Float	4	R W	Second	0 - 300
AEM 3 Protection 4	Threshold 4 Alarm Configuration	GG	8038	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 5	Hysteresis	GG	8040	Float	4	R W	Percent	0 - 100
AEM 3 Protection 5	Arming Delay	GG	8042	Float	4	R W	Second	0 - 300
AEM 3 Protection 5	Threshold 1 Pickup	GG	8044	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 5	Threshold 1 Activation Delay	GG	8046	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 3 Protection 5	Threshold 1 Alarm Configuration	GG	8048	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 5	Threshold 2 Pickup	GG	8050	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 5	Threshold 2 Activation Delay	GG	8052	Float	4	R W	Second	0 - 300
AEM 3 Protection 5	Threshold 2 Alarm Configuration	GG	8054	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 5	Threshold 3 Pickup	GG	8056	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 5	Threshold 3 Activation Delay	GG	8058	Float	4	R W	Second	0 - 300
AEM 3 Protection 5	Threshold 3 Alarm Configuration	GG	8060	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 5	Threshold 4 Pickup	GG	8062	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 5	Threshold 4 Activation Delay	GG	8064	Float	4	R W	Second	0 - 300
AEM 3 Protection 5	Threshold 4 Alarm Configuration	GG	8066	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 6	Hysteresis	GG	8068	Float	4	R W	Percent	0 - 100
AEM 3 Protection 6	Arming Delay	GG	8070	Float	4	R W	Second	0 - 300
AEM 3 Protection 6	Threshold 1 Pickup	GG	8072	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 6	Threshold 1 Activation Delay	GG	8074	Float	4	R W	Second	0 - 300
AEM 3 Protection 6	Threshold 1 Alarm Configuration	GG	8076	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 6	Threshold 2 Pickup	GG	8078	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 6	Threshold 2 Activation Delay	GG	8080	Float	4	R W	Second	0 - 300
AEM 3 Protection 6	Threshold 2 Alarm Configuration	GG	8082	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 6	Threshold 3 Pickup	GG	8084	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 6	Threshold 3 Activation Delay	GG	8086	Float	4	R W	Second	0 - 300
AEM 3 Protection 6	Threshold 3 Alarm Configuration	GG	8088	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 6	Threshold 4 Pickup	GG	8090	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 6	Threshold 4 Activation Delay	GG	8092	Float	4	R W	Second	0 - 300
AEM 3 Protection 6	Threshold 4 Alarm Configuration	GG	8094	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 7	Hysteresis	GG	8096	Float	4	R W	Percent	0 - 100
AEM 3 Protection 7	Arming Delay	GG	8098	Float	4	R W	Second	0 - 300
AEM 3 Protection 7	Threshold 1 Pickup	GG	8100	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 7	Threshold 1 Activation Delay	GG	8102	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 3 Protection 7	Threshold 1 Alarm Configuration	GG	8104	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 7	Threshold 2 Pickup	GG	8106	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 7	Threshold 2 Activation Delay	GG	8108	Float	4	R W	Second	0 - 300
AEM 3 Protection 7	Threshold 2 Alarm Configuration	GG	8110	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 7	Threshold 3 Pickup	GG	8112	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 7	Threshold 3 Activation Delay	GG	8114	Float	4	R W	Second	0 - 300
AEM 3 Protection 7	Threshold 3 Alarm Configuration	GG	8116	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 7	Threshold 4 Pickup	GG	8118	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 7	Threshold 4 Activation Delay	GG	8120	Float	4	R W	Second	0 - 300
AEM 3 Protection 7	Threshold 4 Alarm Configuration	GG	8122	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 8	Hysteresis	GG	8124	Float	4	R W	Percent	0 - 100
AEM 3 Protection 8	Arming Delay	GG	8126	Float	4	R W	Second	0 - 300
AEM 3 Protection 8	Threshold 1 Pickup	GG	8128	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 8	Threshold 1 Activation Delay	GG	8130	Float	4	R W	Second	0 - 300
AEM 3 Protection 8	Threshold 1 Alarm Configuration	GG	8132	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 8	Threshold 2 Pickup	GG	8134	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 8	Threshold 2 Activation Delay	GG	8136	Float	4	R W	Second	0 - 300
AEM 3 Protection 8	Threshold 2 Alarm Configuration	GG	8138	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 8	Threshold 3 Pickup	GG	8140	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 8	Threshold 3 Activation Delay	GG	8142	Float	4	R W	Second	0 - 300
AEM 3 Protection 8	Threshold 3 Alarm Configuration	GG	8144	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Protection 8	Threshold 4 Pickup	GG	8146	Float	4	R W	n/a	-999999 - 999999
AEM 3 Protection 8	Threshold 4 Activation Delay	GG	8148	Float	4	R W	Second	0 - 300
AEM 3 Protection 8	Threshold 4 Alarm Configuration	GG	8150	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Remote Analog Output 1	Parameter Selection	GG	8152	Int32	4	R W	n/a	See Selectable Parameters chapter for a complete list.
AEM 3 Remote Analog Output 1	Out-of-Range Activation Delay	GG	8154	Float	4	R W	Second	0 - 300
AEM 3 Remote Analog Output 1	Parameter Minimum	GG	8156	Float	4	R W	n/a	-999999 - 999999
AEM 3 Remote Analog Output 1	Parameter Maximum	GG	8158	Float	4	R W	n/a	-999999 - 999999

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 3 Remote Analog Output 1	Current Minimum	GG	8160	Float	4	R W	Milliamp	4 - 20
AEM 3 Remote Analog Output 1	Current Maximum	GG	8162	Float	4	R W	Milliamp	4 - 20
AEM 3 Remote Analog Output 1	Voltage Minimum	GG	8164	Float	4	R W	Volt	0 - 10
AEM 3 Remote Analog Output 1	Voltage Maximum	GG	8166	Float	4	R W	Volt	0 - 10
AEM 3 Remote Analog Output 1	Alarm Configuration	GG	8168	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Remote Analog Output 2	Parameter Selection	GG	8170	Int32	4	R W	n/a	See Selectable Parameters chapter for a complete list.
AEM 3 Remote Analog Output 2	Out-of-Range Activation Delay	GG	8172	Float	4	R W	Second	0 - 300
AEM 3 Remote Analog Output 2	Parameter Minimum	GG	8174	Float	4	R W	n/a	-999999 - 999999
AEM 3 Remote Analog Output 2	Parameter Maximum	GG	8176	Float	4	R W	n/a	-999999 - 999999
AEM 3 Remote Analog Output 2	Current Minimum	GG	8178	Float	4	R W	Milliamp	4 - 20
AEM 3 Remote Analog Output 2	Current Maximum	GG	8180	Float	4	R W	Milliamp	4 - 20
AEM 3 Remote Analog Output 2	Voltage Minimum	GG	8182	Float	4	R W	Volt	0 - 10
AEM 3 Remote Analog Output 2	Voltage Maximum	GG	8184	Float	4	R W	Volt	0 - 10
AEM 3 Remote Analog Output 2	Alarm Configuration	GG	8186	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Remote Analog Output 3	Parameter Selection	GG	8188	Int32	4	R W	n/a	See Selectable Parameters chapter for a complete list.
AEM 3 Remote Analog Output 3	Out-of-Range Activation Delay	GG	8190	Float	4	R W	Second	0 - 300
AEM 3 Remote Analog Output 3	Parameter Minimum	GG	8192	Float	4	R W	n/a	-999999 - 999999
AEM 3 Remote Analog Output 3	Parameter Maximum	GG	8194	Float	4	R W	n/a	-999999 - 999999
AEM 3 Remote Analog Output 3	Current Minimum	GG	8196	Float	4	R W	Milliamp	4 - 20
AEM 3 Remote Analog Output 3	Current Maximum	GG	8198	Float	4	R W	Milliamp	4 - 20
AEM 3 Remote Analog Output 3	Voltage Minimum	GG	8200	Float	4	R W	Volt	0 - 10
AEM 3 Remote Analog Output 3	Voltage Maximum	GG	8202	Float	4	R W	Volt	0 - 10
AEM 3 Remote Analog Output 3	Alarm Configuration	GG	8204	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 3 Remote Analog Output 4	Parameter Selection	GG	8206	Int32	4	R W	n/a	See Selectable Parameters chapter for a complete list.
AEM 3 Remote Analog Output 4	Out-of-Range Activation Delay	GG	8208	Float	4	R W	Second	0 - 300
AEM 3 Remote Analog Output 4	Parameter Minimum	GG	8210	Float	4	R W	n/a	-999999 - 999999
AEM 3 Remote Analog Output 4	Parameter Maximum	GG	8212	Float	4	R W	n/a	-999999 - 999999
AEM 3 Remote Analog Output 4	Current Minimum	GG	8214	Float	4	R W	Milliamp	4 - 20
AEM 3 Remote Analog Output 4	Current Maximum	GG	8216	Float	4	R W	Milliamp	4 - 20
AEM 3 Remote Analog Output 4	Voltage Minimum	GG	8218	Float	4	R W	Volt	0 - 10
AEM 3 Remote Analog Output 4	Voltage Maximum	GG	8220	Float	4	R W	Volt	0 - 10
AEM 3 Remote Analog Output 4	Alarm Configuration	GG	8222	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 4 Input Config. 1	Parameter Minimum	GG	8224	Float	4	R W	n/a	-999999 - 999999
AEM 4 Input Config. 1	Parameter Maximum	GG	8226	Float	4	R W	n/a	-999999 - 999999
AEM 4 Input Config. 1	Current Minimum	GG	8228	Float	4	R W	Milliamp	4 - 20
AEM 4 Input Config. 1	Current Maximum	GG	8230	Float	4	R W	Milliamp	4 - 20
AEM 4 Input Config. 1	Voltage Minimum	GG	8232	Float	4	R W	Volt	0 - 10
AEM 4 Input Config. 1	Voltage Maximum	GG	8234	Float	4	R W	Volt	0 - 10
AEM 4 Input Config. 1	Alarm Configuration	GG	8236	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Input Config. 2	Parameter Minimum	GG	8238	Float	4	R W	n/a	-999999 - 999999
AEM 4 Input Config. 2	Parameter Maximum	GG	8240	Float	4	R W	n/a	-999999 - 999999
AEM 4 Input Config. 2	Current Minimum	GG	8242	Float	4	R W	Milliamp	4 - 20
AEM 4 Input Config. 2	Current Maximum	GG	8244	Float	4	R W	Milliamp	4 - 20
AEM 4 Input Config. 2	Voltage Minimum	GG	8246	Float	4	R W	Volt	0 - 10
AEM 4 Input Config. 2	Voltage Maximum	GG	8248	Float	4	R W	Volt	0 - 10
AEM 4 Input Config. 2	Alarm Configuration	GG	8250	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Input Config. 3	Parameter Minimum	GG	8252	Float	4	R W	n/a	-999999 - 999999
AEM 4 Input Config. 3	Parameter Maximum	GG	8254	Float	4	R W	n/a	-999999 - 999999
AEM 4 Input Config. 3	Current Minimum	GG	8256	Float	4	R W	Milliamp	4 - 20
AEM 4 Input Config. 3	Current Maximum	GG	8258	Float	4	R W	Milliamp	4 - 20
AEM 4 Input Config. 3	Voltage Minimum	GG	8260	Float	4	R W	Volt	0 - 10
AEM 4 Input Config. 3	Voltage Maximum	GG	8262	Float	4	R W	Volt	0 - 10
AEM 4 Input Config. 3	Alarm Config	GG	8264	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Input Config. 4	Parameter Minimum	GG	8266	Float	4	R W	n/a	-999999 - 999999
AEM 4 Input Config. 4	Parameter Maximum	GG	8268	Float	4	R W	n/a	-999999 - 999999
AEM 4 Input Config. 4	Current Minimum	GG	8270	Float	4	R W	Milliamp	4 - 20
AEM 4 Input Config. 4	Current Maximum	GG	8272	Float	4	R W	Milliamp	4 - 20
AEM 4 Input Config. 4	Voltage Minimum	GG	8274	Float	4	R W	Volt	0 - 10
AEM 4 Input Config. 4	Voltage Maximum	GG	8276	Float	4	R W	Volt	0 - 10
AEM 4 Input Config. 4	Alarm Configuration	GG	8278	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Input Config. 5	Parameter Minimum	GG	8280	Float	4	R W	n/a	-999999 - 999999
AEM 4 Input Config. 5	Parameter Maximum	GG	8282	Float	4	R W	n/a	-999999 - 999999
AEM 4 Input Config. 5	Current Minimum	GG	8284	Float	4	R W	Milliamp	4 - 20
AEM 4 Input Config. 5	Current Maximum	GG	8286	Float	4	R W	Milliamp	4 - 20
AEM 4 Input Config. 5	Voltage Minimum	GG	8288	Float	4	R W	Volt	0 - 10
AEM 4 Input Config. 5	Voltage Maximum	GG	8290	Float	4	R W	Volt	0 - 10
AEM 4 Input Config. 5	Alarm Config	GG	8292	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Input Config. 6	Parameter Minimum	GG	8294	Float	4	R W	n/a	-999999 - 999999
AEM 4 Input Config. 6	Parameter Maximum	GG	8296	Float	4	R W	n/a	-999999 - 999999
AEM 4 Input Config. 6	Current Minimum	GG	8298	Float	4	R W	Milliamp	4 - 20
AEM 4 Input Config. 6	Current Maximum	GG	8300	Float	4	R W	Milliamp	4 - 20
AEM 4 Input Config. 6	Voltage Minimum	GG	8302	Float	4	R W	Volt	0 - 10
AEM 4 Input Config. 6	Voltage Maximum	GG	8304	Float	4	R W	Volt	0 - 10
AEM 4 Input Config. 6	Alarm Configuration	GG	8306	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Input Config. 7	Parameter Minimum	GG	8308	Float	4	R W	n/a	-999999 - 999999
AEM 4 Input Config. 7	Parameter Maximum	GG	8310	Float	4	R W	n/a	-999999 - 999999
AEM 4 Input Config. 7	Current Minimum	GG	8312	Float	4	R W	Milliamp	4 - 20
AEM 4 Input Config. 7	Current Maximum	GG	8314	Float	4	R W	Milliamp	4 - 20
AEM 4 Input Config. 7	Voltage Minimum	GG	8316	Float	4	R W	Volt	0 - 10
AEM 4 Input Config. 7	Voltage Maximum	GG	8318	Float	4	R W	Volt	0 - 10

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 4 Input Config. 7	Alarm Configuration	GG	8320	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Input Config. 8	Parameter Minimum	GG	8322	Float	4	R W	n/a	-999999 - 999999
AEM 4 Input Config. 8	Parameter Maximum	GG	8324	Float	4	R W	n/a	-999999 - 999999
AEM 4 Input Config. 8	Current Minimum	GG	8326	Float	4	R W	Milliamp	4 - 20
AEM 4 Input Config. 8	Current Maximum	GG	8328	Float	4	R W	Milliamp	4 - 20
AEM 4 Input Config. 8	Voltage Minimum	GG	8330	Float	4	R W	Volt	0 - 10
AEM 4 Input Config. 8	Voltage Maximum	GG	8332	Float	4	R W	Volt	0 - 10
AEM 4 Input Config. 8	Alarm Configuration	GG	8334	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 1	Hysteresis	GG	8336	Float	4	R W	Percent	0 - 100
AEM 4 Protection 1	Arming Delay	GG	8338	Float	4	R W	Second	0 - 300
AEM 4 Protection 1	Threshold 1 Pickup	GG	8340	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 1	Threshold 1 Activation Delay	GG	8342	Float	4	R W	Second	0 - 300
AEM 4 Protection 1	Threshold 1 Alarm Configuration	GG	8344	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 1	Threshold 2 Pickup	GG	8346	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 1	Threshold 2 Activation Delay	GG	8348	Float	4	R W	Second	0 - 300
AEM 4 Protection 1	Threshold 2 Alarm Configuration	GG	8350	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 1	Threshold 3 Pickup	GG	8352	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 1	Threshold 3 Activation Delay	GG	8354	Float	4	R W	Second	0 - 300
AEM 4 Protection 1	Threshold 3 Alarm Configuration	GG	8356	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 1	Threshold 4 Pickup	GG	8358	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 1	Threshold 4 Activation Delay	GG	8360	Float	4	R W	Second	0 - 300
AEM 4 Protection 1	Threshold 4 Alarm Configuration	GG	8362	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 2	Hysteresis	GG	8364	Float	4	R W	Percent	0 - 100
AEM 4 Protection 2	Arming Delay	GG	8366	Float	4	R W	Second	0 - 300
AEM 4 Protection 2	Threshold 1 Pickup	GG	8368	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 2	Threshold 1 Activation Delay	GG	8370	Float	4	R W	Second	0 - 300
AEM 4 Protection 2	Threshold 1 Alarm Configuration	GG	8372	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 2	Threshold 2 Pickup	GG	8374	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 2	Threshold 2 Activation Delay	GG	8376	Float	4	R W	Second	0 - 300
AEM 4 Protection 2	Threshold 2 Alarm Configuration	GG	8378	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 2	Threshold 3 Pickup	GG	8380	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 2	Threshold 3 Activation Delay	GG	8382	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 4 Protection 2	Threshold 3 Alarm Configuration	GG	8384	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 2	Threshold 4 Pickup	GG	8386	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 2	Threshold 4 Activation Delay	GG	8388	Float	4	R W	Second	0 - 300
AEM 4 Protection 2	Threshold 4 Alarm Configuration	GG	8390	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 3	Hysteresis	GG	8392	Float	4	R W	Percent	0 - 100
AEM 4 Protection 3	Arming Delay	GG	8394	Float	4	R W	Second	0 - 300
AEM 4 Protection 3	Threshold 1 Pickup	GG	8396	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 3	Threshold 1 Activation Delay	GG	8398	Float	4	R W	Second	0 - 300
AEM 4 Protection 3	Threshold 1 Alarm Configuration	GG	8400	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 3	Threshold 2 Pickup	GG	8402	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 3	Threshold 2 Activation Delay	GG	8404	Float	4	R W	Second	0 - 300
AEM 4 Protection 3	Threshold 2 Alarm Configuration	GG	8406	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 3	Threshold 3 Pickup	GG	8408	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 3	Threshold 3 Activation Delay	GG	8410	Float	4	R W	Second	0 - 300
AEM 4 Protection 3	Threshold 3 Alarm Configuration	GG	8412	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 3	Threshold 4 Pickup	GG	8414	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 3	Threshold 4 Activation Delay	GG	8416	Float	4	R W	Second	0 - 300
AEM 4 Protection 3	Threshold 4 Alarm Configuration	GG	8418	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 4	Hysteresis	GG	8420	Float	4	R W	Percent	0 - 100
AEM 4 Protection 4	Arming Delay	GG	8422	Float	4	R W	Second	0 - 300
AEM 4 Protection 4	Threshold 1 Pickup	GG	8424	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 4	Threshold 1 Activation Delay	GG	8426	Float	4	R W	Second	0 - 300
AEM 4 Protection 4	Threshold 1 Alarm Configuration	GG	8428	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 4	Threshold 2 Pickup	GG	8430	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 4	Threshold 2 Activation Delay	GG	8432	Float	4	R W	Second	0 - 300
AEM 4 Protection 4	Threshold 2 Alarm Configuration	GG	8434	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 4	Threshold 3 Pickup	GG	8436	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 4	Threshold 3 Activation Delay	GG	8438	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 4 Protection 4	Threshold 3 Alarm Configuration	GG	8440	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 4	Threshold 4 Pickup	GG	8442	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 4	Threshold 4 Activation Delay	GG	8444	Float	4	R W	Second	0 - 300
AEM 4 Protection 4	Threshold 4 Alarm Configuration	GG	8446	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 5	Hysteresis	GG	8448	Float	4	R W	Percent	0 - 100
AEM 4 Protection 5	Arming Delay	GG	8450	Float	4	R W	Second	0 - 300
AEM 4 Protection 5	Threshold 1 Pickup	GG	8452	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 5	Threshold 1 Activation Delay	GG	8454	Float	4	R W	Second	0 - 300
AEM 4 Protection 5	Threshold 1 Alarm Configuration	GG	8456	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 5	Threshold 2 Pickup	GG	8458	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 5	Threshold 2 Activation Delay	GG	8460	Float	4	R W	Second	0 - 300
AEM 4 Protection 5	Threshold 2 Alarm Configuration	GG	8462	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 5	Threshold 3 Pickup	GG	8464	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 5	Threshold 3 Activation Delay	GG	8466	Float	4	R W	Second	0 - 300
AEM 4 Protection 5	Threshold 3 Alarm Configuration	GG	8468	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 5	Threshold 4 Pickup	GG	8470	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 5	Threshold 4 Activation Delay	GG	8472	Float	4	R W	Second	0 - 300
AEM 4 Protection 5	Threshold 4 Alarm Configuration	GG	8474	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 6	Hysteresis	GG	8476	Float	4	R W	Percent	0 - 100
AEM 4 Protection 6	Arming Delay	GG	8478	Float	4	R W	Second	0 - 300
AEM 4 Protection 6	Threshold 1 Pickup	GG	8480	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 6	Threshold 1 Activation Delay	GG	8482	Float	4	R W	Second	0 - 300
AEM 4 Protection 6	Threshold 1 Alarm Configuration	GG	8484	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 6	Threshold 2 Pickup	GG	8486	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 6	Threshold 2 Activation Delay	GG	8488	Float	4	R W	Second	0 - 300
AEM 4 Protection 6	Threshold 2 Alarm Configuration	GG	8490	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 6	Threshold 3 Pickup	GG	8492	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 6	Threshold 3 Activation Delay	GG	8494	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 4 Protection 6	Threshold 3 Alarm Configuration	GG	8496	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 6	Threshold 4 Pickup	GG	8498	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 6	Threshold 4 Activation Delay	GG	8500	Float	4	R W	Second	0 - 300
AEM 4 Protection 6	Threshold 4 Alarm Configuration	GG	8502	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 7	Hysteresis	GG	8504	Float	4	R W	Percent	0 - 100
AEM 4 Protection 7	Arming Delay	GG	8506	Float	4	R W	Second	0 - 300
AEM 4 Protection 7	Threshold 1 Pickup	GG	8508	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 7	Threshold 1 Activation Delay	GG	8510	Float	4	R W	Second	0 - 300
AEM 4 Protection 7	Threshold 1 Alarm Configuration	GG	8512	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 7	Threshold 2 Pickup	GG	8514	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 7	Threshold 2 Activation Delay	GG	8516	Float	4	R W	Second	0 - 300
AEM 4 Protection 7	Threshold 2 Alarm Configuration	GG	8518	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 7	Threshold 3 Pickup	GG	8520	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 7	Threshold 3 Activation Delay	GG	8522	Float	4	R W	Second	0 - 300
AEM 4 Protection 7	Threshold 3 Alarm Configuration	GG	8524	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 7	Threshold 4 Pickup	GG	8526	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 7	Threshold 4 Activation Delay	GG	8528	Float	4	R W	Second	0 - 300
AEM 4 Protection 7	Threshold 4 Alarm Configuration	GG	8530	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 8	Hysteresis	GG	8532	Float	4	R W	Percent	0 - 100
AEM 4 Protection 8	Arming Delay	GG	8534	Float	4	R W	Second	0 - 300
AEM 4 Protection 8	Threshold 1 Pickup	GG	8536	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 8	Threshold 1 Activation Delay	GG	8538	Float	4	R W	Second	0 - 300
AEM 4 Protection 8	Threshold 1 Alarm Configuration	GG	8540	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 8	Threshold 2 Pickup	GG	8542	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 8	Threshold 2 Activation Delay	GG	8544	Float	4	R W	Second	0 - 300
AEM 4 Protection 8	Threshold 2 Alarm Configuration	GG	8546	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 8	Threshold 3 Pickup	GG	8548	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 8	Threshold 3 Activation Delay	GG	8550	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 4 Protection 8	Threshold 3 Alarm Configuration	GG	8552	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Protection 8	Threshold 4 Pickup	GG	8554	Float	4	R W	n/a	-999999 - 999999
AEM 4 Protection 8	Threshold 4 Activation Delay	GG	8556	Float	4	R W	Second	0 - 300
AEM 4 Protection 8	Threshold 4 Alarm Configuration	GG	8558	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Remote Analog Output 1	Parameter Selection	GG	8560	Int32	4	R W	n/a	See Selectable Parameters chapter for a complete list.
AEM 4 Remote Analog Output 1	Out-of-Range Activation Delay	GG	8562	Float	4	R W	Second	0 - 300
AEM 4 Remote Analog Output 1	Parameter Minimum	GG	8564	Float	4	R W	n/a	-999999 - 999999
AEM 4 Remote Analog Output 1	Parameter Maximum	GG	8566	Float	4	R W	n/a	-999999 - 999999
AEM 4 Remote Analog Output 1	Current Minimum	GG	8568	Float	4	R W	Milliamp	4 - 20
AEM 4 Remote Analog Output 1	Current Maximum	GG	8570	Float	4	R W	Milliamp	4 - 20
AEM 4 Remote Analog Output 1	Voltage Minimum	GG	8572	Float	4	R W	Volt	0 - 10
AEM 4 Remote Analog Output 1	Voltage Maximum	GG	8574	Float	4	R W	Volt	0 - 10
AEM 4 Remote Analog Output 1	Alarm Configuration	GG	8576	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Remote Analog Output 2	Parameter Selection	GG	8578	Int32	4	R W	n/a	See Selectable Parameters chapter for a complete list.
AEM 4 Remote Analog Output 2	Out-of-Range Activation Delay	GG	8580	Float	4	R W	Second	0 - 300
AEM 4 Remote Analog Output 2	Parameter Minimum	GG	8582	Float	4	R W	n/a	-999999 - 999999
AEM 4 Remote Analog Output 2	Parameter Maximum	GG	8584	Float	4	R W	n/a	-999999 - 999999
AEM 4 Remote Analog Output 2	Current Minimum	GG	8586	Float	4	R W	Milliamp	4 - 20
AEM 4 Remote Analog Output 2	Current Maximum	GG	8588	Float	4	R W	Milliamp	4 - 20
AEM 4 Remote Analog Output 2	Voltage Minimum	GG	8590	Float	4	R W	Volt	0 - 10
AEM 4 Remote Analog Output 2	Voltage Maximum	GG	8592	Float	4	R W	Volt	0 - 10
AEM 4 Remote Analog Output 2	Alarm Configuration	GG	8594	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Remote Analog Output 3	Parameter Selection	GG	8596	Int32	4	R W	n/a	See Selectable Parameters chapter for a complete list.
AEM 4 Remote Analog Output 3	Out-of-Range Activation Delay	GG	8598	Float	4	R W	Second	0 - 300
AEM 4 Remote Analog Output 3	Parameter Minimum	GG	8600	Float	4	R W	n/a	-999999 - 999999
AEM 4 Remote Analog Output 3	Parameter Maximum	GG	8602	Float	4	R W	n/a	-999999 - 999999
AEM 4 Remote Analog Output 3	Current Minimum	GG	8604	Float	4	R W	Milliamp	4 - 20
AEM 4 Remote Analog Output 3	Current Maximum	GG	8606	Float	4	R W	Milliamp	4 - 20
AEM 4 Remote Analog Output 3	Voltage Minimum	GG	8608	Float	4	R W	Volt	0 - 10
AEM 4 Remote Analog Output 3	Voltage Maximum	GG	8610	Float	4	R W	Volt	0 - 10

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 4 Remote Analog Output 3	Alarm Configuration	GG	8612	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
AEM 4 Remote Analog Output 4	Parameter Selection	GG	8614	Int32	4	R W	n/a	See Selectable Parameters chapter for a complete list.
AEM 4 Remote Analog Output 4	Out-of-Range Activation Delay	GG	8616	Float	4	R W	Second	0 - 300
AEM 4 Remote Analog Output 4	Parameter Minimum	GG	8618	Float	4	R W	n/a	-999999 - 999999
AEM 4 Remote Analog Output 4	Parameter Maximum	GG	8620	Float	4	R W	n/a	-999999 - 999999
AEM 4 Remote Analog Output 4	Current Minimum	GG	8622	Float	4	R W	Milliamp	4 - 20
AEM 4 Remote Analog Output 4	Current Maximum	GG	8624	Float	4	R W	Milliamp	4 - 20
AEM 4 Remote Analog Output 4	Voltage Minimum	GG	8626	Float	4	R W	Volt	0 - 10
AEM 4 Remote Analog Output 4	Voltage Maximum	GG	8628	Float	4	R W	Volt	0 - 10
AEM 4 Remote Analog Output 4	Alarm Configuration	GG	8630	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Analog Input 1 Protection	Parameter Minimum	GG	8632	Float	4	R W	n/a	-999999 - 999999
Analog Input 1 Protection	Parameter Maximum	GG	8634	Float	4	R W	n/a	-999999 - 999999
Analog Input 1 Protection	Current Minimum	GG	8636	Float	4	R W	Milliamp	4 - 20
Analog Input 1 Protection	Current Maximum	GG	8638	Float	4	R W	Milliamp	4 - 20
Analog Input 1 Protection	Voltage Minimum	GG	8640	Float	4	R W	Volt	0 - 10
Analog Input 1 Protection	Voltage Maximum	GG	8642	Float	4	R W	Volt	0 - 10
Analog Input 1 Protection	Alarm Configuration	GG	8644	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Analog Input 1 Protection	Hysteresis	GG	8646	Float	4	R W	Percent	0 - 100
Analog Input 1 Protection	Arming Delay	GG	8648	Float	4	R W	Second	0 - 300
Analog Input 1 Protection	Threshold 1 Pickup	GG	8650	Float	4	R W	n/a	-999999 - 999999
Analog Input 1 Protection	Threshold 1 Activation Delay	GG	8652	Float	4	R W	Second	0 - 300
Analog Input 1 Protection	Threshold 1 Alarm Configuration	GG	8654	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Analog Input 1 Protection	Threshold 2 Pickup	GG	8656	Float	4	R W	n/a	-999999 - 999999
Analog Input 1 Protection	Threshold 2 Activation Delay	GG	8658	Float	4	R W	Second	0 - 300
Analog Input 1 Protection	Threshold 2 Alarm Configuration	GG	8660	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Analog Input 1 Protection	Threshold 3 Pickup	GG	8662	Float	4	R W	n/a	-999999 - 999999
Analog Input 1 Protection	Threshold 3 Activation Delay	GG	8664	Float	4	R W	Second	0 - 300
Analog Input 1 Protection	Threshold 3 Alarm Configuration	GG	8666	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Analog Input 1 Protection	Threshold 4 Pickup	GG	8668	Float	4	R W	n/a	-999999 - 999999
Analog Input 1 Protection	Threshold 4 Activation Delay	GG	8670	Float	4	R W	Second	0 - 300
Analog Input 1 Protection	Threshold 4 Alarm Configuration	GG	8672	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Analog Input 2 Protection	Parameter Minimum	GG	8674	Float	4	R W	n/a	-999999 - 999999
Analog Input 2 Protection	Parameter Maximum	GG	8676	Float	4	R W	n/a	-999999 - 999999
Analog Input 2 Protection	Current Minimum	GG	8678	Float	4	R W	Milliamp	4 - 20
Analog Input 2 Protection	Current Maximum	GG	8680	Float	4	R W	Milliamp	4 - 20
Analog Input 2 Protection	Voltage Minimum	GG	8682	Float	4	R W	Volt	0 - 10
Analog Input 2 Protection	Voltage Maximum	GG	8684	Float	4	R W	Volt	0 - 10
Analog Input 2 Protection	alarm config	GG	8686	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Analog Input 2 Protection	Hysteresis	GG	8688	Float	4	R W	Percent	0 - 100
Analog Input 2 Protection	Arming Delay	GG	8690	Float	4	R W	Second	0 - 300
Analog Input 2 Protection	Threshold 1 Pickup	GG	8692	Float	4	R W	n/a	-999999 - 999999
Analog Input 2 Protection	Threshold 1 Activation Delay	GG	8694	Float	4	R W	Second	0 - 300
Analog Input 2 Protection	Threshold 1 Alarm Configuration	GG	8696	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Analog Input 2 Protection	Threshold 2 Pickup	GG	8698	Float	4	R W	n/a	-999999 - 999999
Analog Input 2 Protection	Threshold 2 Activation Delay	GG	8700	Float	4	R W	Second	0 - 300
Analog Input 2 Protection	Threshold 2 Alarm Configuration	GG	8702	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Analog Input 2 Protection	Threshold 3 Pickup	GG	8704	Float	4	R W	n/a	-999999 - 999999
Analog Input 2 Protection	Threshold 3 Activation Delay	GG	8706	Float	4	R W	Second	0 - 300
Analog Input 2 Protection	Threshold 3 Alarm Configuration	GG	8708	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Analog Input 2 Protection	Threshold 4 Pickup	GG	8710	Float	4	R W	n/a	-999999 - 999999
Analog Input 2 Protection	Threshold 4 Activation Delay	GG	8712	Float	4	R W	Second	0 - 300
Analog Input 2 Protection	Threshold 4 Alarm Configuration	GG	8714	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Analog Input 3 Protection	Parameter Minimum	GG	8716	Float	4	R W	n/a	-999999 - 999999
Analog Input 3 Protection	Parameter Maximum	GG	8718	Float	4	R W	n/a	-999999 - 999999
Analog Input 3 Protection	Current Minimum	GG	8720	Float	4	R W	Milliamp	4 - 20
Analog Input 3 Protection	Current Maximum	GG	8722	Float	4	R W	Milliamp	4 - 20

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Analog Input 3 Protection	Voltage Minimum	GG	8724	Float	4	R W	Volt	0 - 10
Analog Input 3 Protection	Voltage Maximum	GG	8726	Float	4	R W	Volt	0 - 10
Analog Input 3 Protection	alarm config	GG	8728	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Analog Input 3 Protection	Hysteresis	GG	8730	Float	4	R W	Percent	0 - 100
Analog Input 3 Protection	Arming Delay	GG	8732	Float	4	R W	Second	0 - 300
Analog Input 3 Protection	Threshold 1 Pickup	GG	8734	Float	4	R W	n/a	-999999 - 999999
Analog Input 3 Protection	Threshold 1 Activation Delay	GG	8736	Float	4	R W	Second	0 - 300
Analog Input 3 Protection	Threshold 1 Alarm Configuration	GG	8738	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Analog Input 3 Protection	Threshold 2 Pickup	GG	8740	Float	4	R W	n/a	-999999 - 999999
Analog Input 3 Protection	Threshold 2 Activation Delay	GG	8742	Float	4	R W	Second	0 - 300
Analog Input 3 Protection	Threshold 2 Alarm Configuration	GG	8744	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Analog Input 3 Protection	Threshold 3 Pickup	GG	8746	Float	4	R W	n/a	-999999 - 999999
Analog Input 3 Protection	Threshold 3 Activation Delay	GG	8748	Float	4	R W	Second	0 - 300
Analog Input 3 Protection	Threshold 3 Alarm Configuration	GG	8750	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Analog Input 3 Protection	Threshold 4 Pickup	GG	8752	Float	4	R W	n/a	-999999 - 999999
Analog Input 3 Protection	Threshold 4 Activation Delay	GG	8754	Float	4	R W	Second	0 - 300
Analog Input 3 Protection	Threshold 4 Alarm Configuration	GG	8756	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Analog Input 4 Protection	Parameter Minimum	GG	8758	Float	4	R W	n/a	-999999 - 999999
Analog Input 4 Protection	Parameter Maximum	GG	8760	Float	4	R W	n/a	-999999 - 999999
Analog Input 4 Protection	Current Minimum	GG	8762	Float	4	R W	Milliamp	4 - 20
Analog Input 4 Protection	Current Maximum	GG	8764	Float	4	R W	Milliamp	4 - 20
Analog Input 4 Protection	Voltage Minimum	GG	8766	Float	4	R W	Volt	0 - 10
Analog Input 4 Protection	Voltage Maximum	GG	8768	Float	4	R W	Volt	0 - 10
Analog Input 4 Protection	alarm config	GG	8770	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Analog Input 4 Protection	Hysteresis	GG	8772	Float	4	R W	Percent	0 - 100
Analog Input 4 Protection	Arming Delay	GG	8774	Float	4	R W	Second	0 - 300
Analog Input 4 Protection	Threshold 1 Pickup	GG	8776	Float	4	R W	n/a	-999999 - 999999
Analog Input 4 Protection	Threshold 1 Activation Delay	GG	8778	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Analog Input 4 Protection	Threshold 1 Alarm Configuration	GG	8780	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Analog Input 4 Protection	Threshold 2 Pickup	GG	8782	Float	4	R W	n/a	-999999 - 999999
Analog Input 4 Protection	Threshold 2 Activation Delay	GG	8784	Float	4	R W	Second	0 - 300
Analog Input 4 Protection	Threshold 2 Alarm Configuration	GG	8786	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Analog Input 4 Protection	Threshold 3 Pickup	GG	8788	Float	4	R W	n/a	-999999 - 999999
Analog Input 4 Protection	Threshold 3 Activation Delay	GG	8790	Float	4	R W	Second	0 - 300
Analog Input 4 Protection	Threshold 3 Alarm Configuration	GG	8792	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Analog Input 4 Protection	Threshold 4 Pickup	GG	8794	Float	4	R W	n/a	-999999 - 999999
Analog Input 4 Protection	Threshold 4 Activation Delay	GG	8796	Float	4	R W	Second	0 - 300
Analog Input 4 Protection	Threshold 4 Alarm Configuration	GG	8798	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Load Share Settings	Type	GG	8800	Uint32	4	R W		Voltage=0 Current=1
Load Share Settings	Current Min	GG	8802	Float	4	R W	Milliamp	4 - 20
Load Share Settings	Current Max	GG	8804	Float	4	R W	Milliamp	4 - 20
Load Share Settings	Voltage Min	GG	8806	Float	4	R W	Volt	-10 - 10
Load Share Settings	Voltage Max	GG	8808	Float	4	R W	Volt	-10 - 10
VRM	Enable	GG	8810	Uint32	4	R W	n/a	Disabled=0, Enabled=1



Metering Register Table

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
ECU Metering	ECU Lamp Status Data	GG	10000	Uint32	4	R	n/a	Bit 0 = Protect Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Warning Bit 4 = Stop Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Malfunction Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = Not Used Bit 19 = Not Used Bit 20 = Not Used Bit 21 = Not Used Bit 22 = Not Used Bit 23 = Not Used Bit 24 = Not Used Bit 25 = Not Used Bit 26 = Not Used Bit 27 = Not Used Bit 28 = Not Used Bit 29 = Not Used Bit 30 = Not Used Bit 31 = Not Used
ECU Metering	DTC Count Data	GG	10002	Uint32	4	R	n/a	Active stored in upper byte, Previous stored in lower byte
ECU Metering	CAN Coolant Level	GG	10004	Uint32	4	R	n/a	Percent
Reserved			10006-7					
Gen Voltage Meter Mag 1	VA	GG	10008	Float	4	R	Volt	0 - 2000000000
Gen Voltage Meter Mag 1	VB	GG	10010	Float	4	R	Volt	0 - 2000000000
Gen Voltage Meter Mag 1	VC	GG	10012	Float	4	R	Volt	0 - 2000000000
Gen Voltage Meter Mag 1	VAB	GG	10014	Float	4	R	Volt	0 - 2000000000
Gen Voltage Meter Mag 1	VBC	GG	10016	Float	4	R	Volt	0 - 2000000000
Gen Voltage Meter Mag 1	VCA	GG	10018	Float	4	R	Volt	0 - 2000000000
Gen Voltage Meter Mag 1	V2L	GG	10020	Float	4	R	Volt	0 - 2000000000
Gen Voltage Meter Mag 1	VA VG LL	GG	10022	Float	4	R	Volt	0 - 2000000000
Gen Voltage Meter Pri 1	VA	GG	10024	Float	4	R	Volt	0 - 2000000000
Gen Voltage Meter Pri 1	VB	GG	10026	Float	4	R	Volt	0 - 2000000000
Gen Voltage Meter Pri 1	VC	GG	10028	Float	4	R	Volt	0 - 2000000000
Gen Voltage Meter Pri 1	VAB	GG	10030	Float	4	R	Volt	0 - 2000000000
Gen Voltage Meter Pri 1	VBC	GG	10032	Float	4	R	Volt	0 - 2000000000
Gen Voltage Meter Pri 1	VCA	GG	10034	Float	4	R	Volt	0 - 2000000000
Gen Voltage Meter Pri 1	V2L	GG	10036	Float	4	R	Volt	0 - 2000000000
Gen Voltage Meter Pri 1	VA VG LL	GG	10038	Float	4	R	Volt	0 - 2000000000
Gen Voltage Meter Ang 1	VA	GG	10040	Float	4	R	Degree	0 - 360
Gen Voltage Meter Ang 1	VB	GG	10042	Float	4	R	Degree	0 - 360
Gen Voltage Meter Ang 1	VC	GG	10044	Float	4	R	Degree	0 - 360

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Gen Voltage Meter Ang 1	VAB	GG	10046	Float	4	R	Degree	0 - 360
Gen Voltage Meter Ang 1	VBC	GG	10048	Float	4	R	Degree	0 - 360
Gen Voltage Meter Ang 1	VCA	GG	10050	Float	4	R	Degree	0 - 360
Bus 1 Voltage Meter Mag	VA	GG	10052	Float	4	R	Volt	0 - 2000000000
Bus 1 Voltage Meter Mag	VB	GG	10054	Float	4	R	Volt	0 - 2000000000
Bus 1 Voltage Meter Mag	VC	GG	10056	Float	4	R	Volt	0 - 2000000000
Bus 1 Voltage Meter Mag	VAB	GG	10058	Float	4	R	Volt	0 - 2000000000
Bus 1 Voltage Meter Mag	VBC	GG	10060	Float	4	R	Volt	0 - 2000000000
Bus 1 Voltage Meter Mag	VCA	GG	10062	Float	4	R	Volt	0 - 2000000000
Bus 1 Voltage Meter Mag	V2L	GG	10064	Float	4	R	Volt	0 - 2000000000
Bus 1 Voltage Meter Mag	VA VG LL	GG	10066	Float	4	R	Volt	0 - 2000000000
Bus 1 Voltage Meter Pri	VA	GG	10068	Float	4	R	Volt	0 - 2000000000
Bus 1 Voltage Meter Pri	VB	GG	10070	Float	4	R	Volt	0 - 2000000000
Bus 1 Voltage Meter Pri	VC	GG	10072	Float	4	R	Volt	0 - 2000000000
Bus 1 Voltage Meter Pri	VAB	GG	10074	Float	4	R	Volt	0 - 2000000000
Bus 1 Voltage Meter Pri	VBC	GG	10076	Float	4	R	Volt	0 - 2000000000
Bus 1 Voltage Meter Pri	VCA	GG	10078	Float	4	R	Volt	0 - 2000000000
Bus 1 Voltage Meter Pri	V2L	GG	10080	Float	4	R	Volt	0 - 2000000000
Bus 1 Voltage Meter Pri	VA VG LL	GG	10082	Float	4	R	Volt	0 - 2000000000
Bus 1 Voltage Meter Ang	VA	GG	10084	Float	4	R	Degree	0 - 360
Bus 1 Voltage Meter Ang	VB	GG	10086	Float	4	R	Degree	0 - 360
Bus 1 Voltage Meter Ang	VC	GG	10088	Float	4	R	Degree	0 - 360
Bus 1 Voltage Meter Ang	VAB	GG	10090	Float	4	R	Degree	0 - 360
Bus 1 Voltage Meter Ang	VBC	GG	10092	Float	4	R	Degree	0 - 360
Bus 1 Voltage Meter Ang	VCA	GG	10094	Float	4	R	Degree	0 - 360
Bus 2 Voltage Meter Mag	VA	GG	10096	Float	4	R	Volt	0 - 2000000000
Bus 2 Voltage Meter Mag	VB	GG	10098	Float	4	R	Volt	0 - 2000000000
Bus 2 Voltage Meter Mag	VC	GG	10100	Float	4	R	Volt	0 - 2000000000
Bus 2 Voltage Meter Mag	VAB	GG	10102	Float	4	R	Volt	0 - 2000000000
Bus 2 Voltage Meter Mag	VBC	GG	10104	Float	4	R	Volt	0 - 2000000000
Bus 2 Voltage Meter Mag	VCA	GG	10106	Float	4	R	Volt	0 - 2000000000
Bus 2 Voltage Meter Mag	V2L	GG	10108	Float	4	R	Volt	0 - 2000000000
Bus 2 Voltage Meter Mag	VA VG LL	GG	10110	Float	4	R	Volt	0 - 2000000000
Bus 2 Voltage Meter Pri	VA	GG	10112	Float	4	R	Volt	0 - 2000000000
Bus 2 Voltage Meter Pri	VB	GG	10114	Float	4	R	Volt	0 - 2000000000
Bus 2 Voltage Meter Pri	VC	GG	10116	Float	4	R	Volt	0 - 2000000000
Bus 2 Voltage Meter Pri	VAB	GG	10118	Float	4	R	Volt	0 - 2000000000
Bus 2 Voltage Meter Pri	VBC	GG	10120	Float	4	R	Volt	0 - 2000000000
Bus 2 Voltage Meter Pri	VCA	GG	10122	Float	4	R	Volt	0 - 2000000000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Bus 2 Voltage Meter Pri	V2L	GG	10124	Float	4	R	Volt	0 - 2000000000
Bus 2 Voltage Meter Pri	VA VG LL	GG	10126	Float	4	R	Volt	0 - 2000000000
Bus 2 Voltage Meter Ang	VA	GG	10128	Float	4	R	Degree	0 - 360
Bus 2 Voltage Meter Ang	VB	GG	10130	Float	4	R	Degree	0 - 360
Bus 2 Voltage Meter Ang	VC	GG	10132	Float	4	R	Degree	0 - 360
Bus 2 Voltage Meter Ang	VAB	GG	10134	Float	4	R	Degree	0 - 360
Bus 2 Voltage Meter Ang	VBC	GG	10136	Float	4	R	Degree	0 - 360
Bus 2 Voltage Meter Ang	VCA	GG	10138	Float	4	R	Degree	0 - 360
Gen Current Meter Mag 1	IA	GG	10140	Float	4	R	Amp	0 - 2000000000
Gen Current Meter Mag 1	IB	GG	10142	Float	4	R	Amp	0 - 2000000000
Gen Current Meter Mag 1	IC	GG	10144	Float	4	R	Amp	0 - 2000000000
Gen Current Meter Mag 1	I1	GG	10146	Float	4	R	Amp	0 - 2000000000
Gen Current Meter Mag 1	I2	GG	10148	Float	4	R	Amp	0 - 2000000000
Gen Current Meter Mag 1	3I0	GG	10150	Float	4	R	Amp	0 - 2000000000
Gen Current Meter Mag 1	IAVG	GG	10152	Float	4	R	Amp	0 - 2000000000
Gen Current Meter Pri 1	IA	GG	10154	Float	4	R	Amp	0 - 2000000000
Gen Current Meter Pri 1	IB	GG	10156	Float	4	R	Amp	0 - 2000000000
Gen Current Meter Pri 1	IC	GG	10158	Float	4	R	Amp	0 - 2000000000
Gen Current Meter Pri 1	I1	GG	10160	Float	4	R	Amp	0 - 2000000000
Gen Current Meter Pri 1	I2	GG	10162	Float	4	R	Amp	0 - 2000000000
Gen Current Meter Pri 1	3I0	GG	10164	Float	4	R	Amp	0 - 2000000000
Gen Current Meter Pri 1	IAVG	GG	10166	Float	4	R	Amp	0 - 2000000000
Gen Current Meter Ang 1	IA	GG	10168	Float	4	R	Degree	0 - 360
Gen Current Meter Ang 1	IB	GG	10170	Float	4	R	Degree	0 - 360
Gen Current Meter Ang 1	IC	GG	10172	Float	4	R	Degree	0 - 360
Bus 1 Current Meter Mag	IA	GG	10174	Float	4	R	Amp	0 - 2000000000
Bus 1 Current Meter Mag	IB	GG	10176	Float	4	R	Amp	0 - 2000000000
Bus 1 Current Meter Mag	IC	GG	10178	Float	4	R	Amp	0 - 2000000000
Bus 1 Current Meter Mag	I1	GG	10180	Float	4	R	Amp	0 - 2000000000
Bus 1 Current Meter Mag	I2	GG	10182	Float	4	R	Amp	0 - 2000000000
Bus 1 Current Meter Mag	3I0	GG	10184	Float	4	R	Amp	0 - 2000000000
Bus 1 Current Meter Mag	IAVG	GG	10186	Float	4	R	Amp	0 - 2000000000
Bus 1 Current Meter Pri	IA	GG	10188	Float	4	R	Amp	0 - 2000000000
Bus 1 Current Meter Pri	IB	GG	10190	Float	4	R	Amp	0 - 2000000000
Bus 1 Current Meter Pri	IC	GG	10192	Float	4	R	Amp	0 - 2000000000
Bus 1 Current Meter Pri	I1	GG	10194	Float	4	R	Amp	0 - 2000000000
Bus 1 Current Meter Pri	I2	GG	10196	Float	4	R	Amp	0 - 2000000000
Bus 1 Current Meter Pri	3I0	GG	10198	Float	4	R	Amp	0 - 2000000000
Bus 1 Current Meter Pri	IAVG	GG	10200	Float	4	R	Amp	0 - 2000000000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Bus 1 Current Meter Ang	IA	GG	10202	Float	4	R	Degree	0 - 360
Bus 1 Current Meter Ang	IB	GG	10204	Float	4	R	Degree	0 - 360
Bus 1 Current Meter Ang	IC	GG	10206	Float	4	R	Degree	0 - 360
Bus 2 Current Meter Mag	IA	GG	10208	Float	4	R	Amp	0 - 2000000000
Bus 2 Current Meter Mag	IB	GG	10210	Float	4	R	Amp	0 - 2000000000
Bus 2 Current Meter Mag	IC	GG	10212	Float	4	R	Amp	0 - 2000000000
Bus 2 Current Meter Mag	I1	GG	10214	Float	4	R	Amp	0 - 2000000000
Bus 2 Current Meter Mag	I2	GG	10216	Float	4	R	Amp	0 - 2000000000
Bus 2 Current Meter Mag	3I0	GG	10218	Float	4	R	Amp	0 - 2000000000
Bus 2 Current Meter Mag	IAVG	GG	10220	Float	4	R	Amp	0 - 2000000000
Bus 2 Current Meter Pri	IA	GG	10222	Float	4	R	Amp	0 - 2000000000
Bus 2 Current Meter Pri	IB	GG	10224	Float	4	R	Amp	0 - 2000000000
Bus 2 Current Meter Pri	IC	GG	10226	Float	4	R	Amp	0 - 2000000000
Bus 2 Current Meter Pri	I1	GG	10228	Float	4	R	Amp	0 - 2000000000
Bus 2 Current Meter Pri	I2	GG	10230	Float	4	R	Amp	0 - 2000000000
Bus 2 Current Meter Pri	3I0	GG	10232	Float	4	R	Amp	0 - 2000000000
Bus 2 Current Meter Pri	IAVG	GG	10234	Float	4	R	Amp	0 - 2000000000
Bus 2 Current Meter Ang	IA	GG	10236	Float	4	R	Degree	0 - 360
Bus 2 Current Meter Ang	IB	GG	10238	Float	4	R	Degree	0 - 360
Bus 2 Current Meter Ang	IC	GG	10240	Float	4	R	Degree	0 - 360
Icc Current Meter Mag 1	IX	GG	10242	Float	4	R	Amp	0 - 2000000000
Icc Current Meter Pri 1	IX	GG	10244	Float	4	R	Amp	0 - 2000000000
Icc Current Meter Ang 1	IX	GG	10246	Float	4	R	Degree	0 - 360
Power Meter	Watt A Primary Average	GG	10248	Float	4	R	Watt	0 - 3.00E+14
Power Meter	Watt B Primary Average	GG	10250	Float	4	R	Watt	0 - 3.00E+14
Power Meter	Watt C Primary Average	GG	10252	Float	4	R	Watt	0 - 3.00E+14
Power Meter	Total Watts Primary Average	GG	10254	Float	4	R	Watt	0 - 3.00E+14
Power Meter	var A Primary Average	GG	10256	Float	4	R	var	0 - 3.00E+14
Power Meter	var B Primary Average	GG	10258	Float	4	R	var	0 - 3.00E+14
Power Meter	var C Primary Average	GG	10260	Float	4	R	var	0 - 3.00E+14
Power Meter	Total vars Primary Average	GG	10262	Float	4	R	var	0 - 3.00E+14
Power Meter	S A Primary Average	GG	10264	Float	4	R	VA	0 - 3.00E+14
Power Meter	S B Primary Average	GG	10266	Float	4	R	VA	0 - 3.00E+14
Power Meter	S C Primary Average	GG	10268	Float	4	R	VA	0 - 3.00E+14
Power Meter	Total S Primary Average	GG	10270	Float	4	R	VA	0 - 3.00E+14
Power Meter	PF A Primary Average	GG	10272	Float	4	R	Power Factor	-1 - 1
Power Meter	PF B Primary Average	GG	10274	Float	4	R	Power Factor	-1 - 1
Power Meter	PF C Primary Average	GG	10276	Float	4	R	Power Factor	-1 - 1
Power Meter	Total PF Primary Average	GG	10278	Float	4	R	Power Factor	-1 - 1
Power Meter 2	Watt A Primary Average	GG	10280	Float	4	R	Watt	0 - 3.00E+14
Power Meter 2	Watt B Primary Average	GG	10282	Float	4	R	Watt	0 - 3.00E+14
Power Meter 2	Watt C Primary Average	GG	10284	Float	4	R	Watt	0 - 3.00E+14
Power Meter 2	Total Watts Primary Average	GG	10286	Float	4	R	Watt	0 - 3.00E+14
Power Meter 2	var A Primary Average	GG	10288	Float	4	R	var	0 - 3.00E+14
Power Meter 2	var B Primary Average	GG	10290	Float	4	R	var	0 - 3.00E+14
Power Meter 2	var C Primary Average	GG	10292	Float	4	R	var	0 - 3.00E+14
Power Meter 2	Total vars Primary Average	GG	10294	Float	4	R	var	0 - 3.00E+14
Power Meter 2	S A Primary Average	GG	10296	Float	4	R	VA	0 - 3.00E+14
Power Meter 2	S B Primary Average	GG	10298	Float	4	R	VA	0 - 3.00E+14
Power Meter 2	S C Primary Average	GG	10300	Float	4	R	VA	0 - 3.00E+14
Power Meter 2	Total S Primary Average	GG	10302	Float	4	R	VA	0 - 3.00E+14

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Power Meter 2	PF A Primary Average	GG	10304	Float	4	R	Power Factor	-1 - 1
Power Meter 2	PF B Primary Average	GG	10306	Float	4	R	Power Factor	-1 - 1
Power Meter 2	PF C Primary Average	GG	10308	Float	4	R	Power Factor	-1 - 1
Power Meter 2	Total PF Primary Average	GG	10310	Float	4	R	Power Factor	-1 - 1
Power Meter 3	Watt A Primary Average	GG	10312	Float	4	R	Watt	0 - 3.00E+14
Power Meter 3	Watt B Primary Average	GG	10314	Float	4	R	Watt	0 - 3.00E+14
Power Meter 3	Watt C Primary Average	GG	10316	Float	4	R	Watt	0 - 3.00E+14
Power Meter 3	Total Watts Primary Average	GG	10318	Float	4	R	Watt	0 - 3.00E+14
Power Meter 3	var A Primary Average	GG	10320	Float	4	R	var	0 - 3.00E+14
Power Meter 3	var B Primary Average	GG	10322	Float	4	R	var	0 - 3.00E+14
Power Meter 3	var C Primary Average	GG	10324	Float	4	R	var	0 - 3.00E+14
Power Meter 3	Total vars Primary Average	GG	10326	Float	4	R	var	0 - 3.00E+14
Power Meter 3	S A Primary Average	GG	10328	Float	4	R	VA	0 - 3.00E+14
Power Meter 3	S B Primary Average	GG	10330	Float	4	R	VA	0 - 3.00E+14
Power Meter 3	S C Primary Average	GG	10332	Float	4	R	VA	0 - 3.00E+14
Power Meter 3	Total S Primary Average	GG	10334	Float	4	R	VA	0 - 3.00E+14
Power Meter 3	PF A Primary Average	GG	10336	Float	4	R	Power Factor	-1 - 1
Power Meter 3	PF B Primary Average	GG	10338	Float	4	R	Power Factor	-1 - 1
Power Meter 3	PF C Primary Average	GG	10340	Float	4	R	Power Factor	-1 - 1
Power Meter 3	Total PF Primary Average	GG	10342	Float	4	R	Power Factor	-1 - 1
Energy Meter	Positive Watthour Total	GG	10344	Float	4	R W	Watthour	0.00E+00 - 1.00E+12
Energy Meter	Positive varhour Total	GG	10346	Float	4	R W	varhour	0.00E+00 - 1.00E+12
Energy Meter	Negative Watthour Total	GG	10348	Float	4	R W	Watthour	-1.00E+12 - 0.00E+00
Energy Meter	Negative varhour Total	GG	10350	Float	4	R W	varhour	-1.00E+12 - 0.00E+00
Energy Meter	VA Hour Total	GG	10352	Float	4	R W	varhour	0.00E+00 - 1.00E+12
Energy Meter 2	Positive Watthour Total	GG	10354	Float	4	R W	Watthour	0.00E+00 - 1.00E+12
Energy Meter 2	Positive varhour Total	GG	10356	Float	4	R W	varhour	0.00E+00 - 1.00E+12
Energy Meter 2	Negative Watthour Total	GG	10358	Float	4	R W	Watthour	-1.00E+12 - 0.00E+00
Energy Meter 2	Negative varhour Total	GG	10360	Float	4	R W	varhour	-1.00E+12 - 0.00E+00
Energy Meter 2	VA Hour Total	GG	10362	Float	4	R W	varhour	0.00E+00 - 1.00E+12
Energy Meter 3	Positive Watthour Total	GG	10364	Float	4	R W	Watthour	0.00E+00 - 1.00E+12
Energy Meter 3	Positive varhour Total	GG	10366	Float	4	R W	varhour	0.00E+00 - 1.00E+12
Energy Meter 3	Negative Watthour Total	GG	10368	Float	4	R W	Watthour	-1.00E+12 - 0.00E+00
Energy Meter 3	Negative varhour Total	GG	10370	Float	4	R W	varhour	-1.00E+12 - 0.00E+00
Energy Meter 3	VA Hour Total	GG	10372	Float	4	R W	varhour	0.00E+00 - 1.00E+12
Sync Meter 1	Slip Angle	GG	10374	Float	4	R	Degree	-359.9 - 359.9
Sync Meter 1	Slip Freq	GG	10376	Float	4	R	Hertz	n/a
Sync Meter 1	Voltage Difference	GG	10378	Float	4	R	Volt	n/a
Gen Frequency Meter 1	Frequency	GG	10380	Float	4	R	Hertz	10 - 180
Bus 1 Frequency Meter	Frequency	GG	10382	Float	4	R	Hertz	10 - 180
Bus 2 Frequency Meter	Frequency	GG	10384	Float	4	R	Hertz	10 - 180
Aux Input Voltage 1	Value	GG	10386	Float	4	R	Volt	-9999999 - 9999999
Battery Voltage 1	Value	GG	10388	Float	4	R	Volt	-9999999 - 9999999
Independent Meter 1	Oil Pressure, Filtered	GG	10390	Float	4	R	PSI	n/a
Independent Meter 1	Coolant Temperature	GG	10392	Float	4	R	Deg F	n/a
Independent Meter 1	Fuel Level	GG	10394	Float	4	R	Percent	n/a
Independent Meter 1	Engine Speed RPM	GG	10396	Float	4	R	RPM	n/a
Independent Meter 1	Gen Seq Start Level 1 PU	GG	10398	Float	4	R	n/a	n/a
Independent Meter 1	Gen Seq Start Level 1 Timeout	GG	10400	Float	4	R	Second	n/a
Independent Meter 1	Gen Seq Start Level 1 Time Delay	GG	10402	Float	4	R	Second	n/a
IndependentMeter1	Gen Seq Start Level 2 PU	GG	10404	Float	4	R	n/a	n/a
Independent Meter 1	Gen Seq Start Level 2 Timeout	GG	10406	Float	4	R	Second	n/a
Independent Meter 1	Gen Seq Start Level 2 Time Delay	GG	10408	Float	4	R	Second	n/a
Independent Meter 1	Gen Seq Stop Level PU	GG	10410	Float	4	R	n/a	n/a
Independent Meter 1	Gen Seq Stop Level Timeout	GG	10412	Float	4	R	Second	n/a
Independent Meter 1	Gen Seq Stop Level Time Delay	GG	10414	Float	4	R	Second	n/a
Independent Meter 1	Gen Seq Seq ID	GG	10416	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Next to Start	GG	10418	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Next to Stop	GG	10420	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Watt Load PU	GG	10422	Float	4	R	n/a	n/a
Independent Meter 1	Gen Seq var Load PU	GG	10424	Float	4	R	n/a	n/a

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Independent Meter 1	Gen Seq DSS Mode	GG	10426	Uint32	4	R	n/a	Disabled=0 PU Load=1 Spinning Reserve=2
Independent Meter 1	Gen Seq Seq Mode	GG	10428	Uint32	4	R	n/a	Disabled=50 Staggered=51 Balanced=52 Large Size=53 Small Size=54 Small ID=55 Adopt System Mode=56 Balanced Engine Hours=57 Uninitialized=99
Independent Meter 1	Gen Seq Network Sys Manager	GG	10430	Uint32	4	R	n/a	n/a
Independent Meter 1	Gen Seq Network Num Units	GG	10432	Uint32	4	R	n/a	n/a
Independent Meter 1	Gen Seq Network Num Units Online	GG	10434	Float	4	R	n/a	n/a
Independent Meter 1	Gen Seq Network Online kW Capacity	GG	10436	Float	4	R	kW	0 - 3.00E+14
Independent Meter 1	Gen Seq Network Online kvar Capacity	GG	10438	Float	4	R	kvar	0 - 3.00E+14
Independent Meter 1	Gen Seq Network Total kW	GG	10440	Float	4	R	kW	0 - 3.00E+14
Independent Meter 1	Gen Seq Network Total kvar	GG	10442	Float	4	R	kvar	0 - 3.00E+14
Independent Meter 1	Gen Seq Network ID 1	GG	10444	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 2	GG	10446	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 3	GG	10448	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 4	GG	10450	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 5	GG	10452	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 6	GG	10454	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 7	GG	10456	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 8	GG	10458	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 9	GG	10460	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 10	GG	10462	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 11	GG	10464	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 12	GG	10466	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 13	GG	10468	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 14	GG	10470	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 15	GG	10472	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 16	GG	10474	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 17	GG	10476	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 18	GG	10478	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 19	GG	10480	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 20	GG	10482	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 21	GG	10484	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 22	GG	10486	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 23	GG	10488	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 24	GG	10490	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 25	GG	10492	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 26	GG	10494	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 27	GG	10496	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 28	GG	10498	Int32	4	R	n/a	-2147483647 - 2147483647

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Independent Meter 1	Gen Seq Network ID 29	GG	10500	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 30	GG	10502	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 31	GG	10504	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Gen Seq Network ID 32	GG	10506	Int32	4	R	n/a	-2147483647 - 2147483647
Independent Meter 1	Reserve Available	GG	10508	Float	4	R	kW	0 - 3.00E+14
Independent Meter 1	Adjusted Reserve Available	GG	10510	Float	4	R	kW	0 - 3.00E+14
Independent Meter 1	Reserve Capacity 1	GG	10512	Float	4	R	kW	0 - 3.00E+14
Independent Meter 1	Reserve Capacity 2	GG	10514	Float	4	R	kW	0 - 3.00E+14
Independent Meter 1	Reserve Hysteresis	GG	10516	Float	4	R	kW	0 - 3.00E+14
Independent Meter 1	Gen Operating Connection	GG	10518	Int32	4	R		Delta=7 Wye=8 1 Phase AB=0 1 Phase AC=2 Grounded Delta=9
Independent Meter 1	Gen Max Vector Shift	GG	10520	Float	4	R	Degree	0 - 360
Independent Meter 1	Gen Max ROCOF	GG	10522	Float	4	R	Hertz	-9999 - 9999
Independent Meter 1	Gen ROCOF	GG	10524	Float	4	R	Hertz	-9999 - 9999
Independent Meter 1	Bus 1 Operating Connection	GG	10526	Int32	4	R		Delta=7 Wye=8 1 Phase AB=0 1 Phase AC=2 Grounded Delta=9
Independent Meter 1	Bus 1 Max Vector Shift	GG	10528	Float	4	R	Degree	0 - 360
Independent Meter 1	Bus 1 Max ROCOF	GG	10530	Float	4	R	Hertz	-9999 - 9999
Independent Meter 1	Bus 1 ROCOF	GG	10532	Float	4	R	Hertz	-9999 - 9999
Independent Meter 1	Bus 2 Operating Connection	GG	10534	Int32	4	R		Delta=7 Wye=8 1 Phase AB=0 1 Phase AC=2 Grounded Delta=9
Independent Meter 1	Bus 2 Max Vector Shift	GG	10536	Float	4	R	Degree	0 - 360
Independent Meter 1	Bus 2 Max ROCOF	GG	10538	Float	4	R	Hertz	-9999 - 9999
Independent Meter 1	Bus 2 ROCOF	GG	10540	Float	4	R	Hertz	-9999 - 9999
Independent Meter 1	Engine Load	GG	10542	Float	4	R	Percent	n/a
Independent Meter 1	Coolant Level	GG	10544	Float	4	R	Percent	n/a
Independent Meter 1	Active Speed Source	GG	10546	UInt32	4	R		NA=0 MPU=1 Gen Freq=2 CANBus=4
Independent Meter 1	Voltage Bias Output	GG	10548	Float	4	R	n/a	n/a
Independent Meter 1	Speed Bias Output	GG	10550	Float	4	R	n/a	n/a
Independent Meter 1	Demand per Unit	GG	10552	Float	4	R	n/a	n/a
Independent Meter 1	Auxiliary Voltage Input	GG	10554	Float	4	R	Volt	n/a
Independent Meter 1	Auxiliary Current Input	GG	10556	Float	4	R	Milliamp	n/a
IG Current Meter Mag 1	IX	GG	10558	Float	4	R	Amp	0 - 2000000000
IG Current Meter Pri 1	IX	GG	10560	Float	4	R	Amp	0 - 2000000000
IG Current Meter Ang 1	IX	GG	10562	Float	4	R	Degree	0 - 360
AVR Output Meter 1	Raw	GG	10564	Float	4	R	Volt	n/a
AVR Output Meter 1	Scaled	GG	10566	Float	4	R	n/a	n/a
AVR Output Meter 1	Raw Filtered	GG	10568	Float	4	R	Volt	n/a
GOV Output Meter 1	Raw	GG	10570	Float	4	R	Volt	n/a
GOV Output Meter 1	Scaled	GG	10572	Float	4	R	n/a	n/a
GOV Output Meter 1	Raw Filtered	GG	10574	Float	4	R	Volt	n/a
LS Output Meter 1	Raw	GG	10576	Float	4	R	Volt	n/a
LS Output Meter 1	Scaled	GG	10578	Float	4	R	n/a	n/a
LS Output Meter 1	Raw Filtered	GG	10580	Float	4	R	n/a	n/a
Load Share Line Volt Meter 1	VX	GG	10582	Float	4	R	Volt	-1000 - 1000
AEM 1 Metering	Analog Input 1 Raw Value	GG	10584	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Input 2 Raw Value	GG	10586	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Input 3 Raw Value	GG	10588	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Input 4 Raw Value	GG	10590	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Input 5 Raw Value	GG	10592	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Input 6 Raw Value	GG	10594	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Input 7 Raw Value	GG	10596	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Input 8 Raw Value	GG	10598	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Input 1 Scaled Value	GG	10600	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Input 2 Scaled Value	GG	10602	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Input 3 Scaled Value	GG	10604	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Input 4 Scaled Value	GG	10606	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Input 5 Scaled Value	GG	10608	Float	4	R	n/a	n/a

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 1 Metering	Analog Input 6 Scaled Value	GG	10610	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Input 7 Scaled Value	GG	10612	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Input 8 Scaled Value	GG	10614	Float	4	R	n/a	n/a
AEM 1 Metering	RTD Input 1 Raw Value	GG	10616	Float	4	R	Ohm	n/a
AEM 1 Metering	RTD Input 2 Raw Value	GG	10618	Float	4	R	Ohm	n/a
AEM 1 Metering	RTD Input 3 Raw Value	GG	10620	Float	4	R	Ohm	n/a
AEM 1 Metering	RTD Input 4 Raw Value	GG	10622	Float	4	R	Ohm	n/a
AEM 1 Metering	RTD Input 5 Raw Value	GG	10624	Float	4	R	Ohm	n/a
AEM 1 Metering	RTD Input 6 Raw Value	GG	10626	Float	4	R	Ohm	n/a
AEM 1 Metering	RTD Input 7 Raw Value	GG	10628	Float	4	R	Ohm	n/a
AEM 1 Metering	RTD Input 8 Raw Value	GG	10630	Float	4	R	Ohm	n/a
AEM 1 Metering	RTD Input 1 Scaled Value	GG	10632	Float	4	R	Deg F	n/a
AEM 1 Metering	RTD Input 2 Scaled Value	GG	10634	Float	4	R	Deg F	n/a
AEM 1 Metering	RTD Input 3 Scaled Value	GG	10636	Float	4	R	Deg F	n/a
AEM 1 Metering	RTD Input 4 Scaled Value	GG	10638	Float	4	R	Deg F	n/a
AEM 1 Metering	RTD Input 5 Scaled Value	GG	10640	Float	4	R	Deg F	n/a
AEM 1 Metering	RTD Input 6 Scaled Value	GG	10642	Float	4	R	Deg F	n/a
AEM 1 Metering	RTD Input 7 Scaled Value	GG	10644	Float	4	R	Deg F	n/a
AEM 1 Metering	RTD Input 8 Scaled Value	GG	10646	Float	4	R	Deg F	n/a
AEM 1 Metering	Thermal Input 1 Raw Value	GG	10648	Float	4	R	Millivolt	n/a
AEM 1 Metering	Thermal Input 2 Raw Value	GG	10650	Float	4	R	Millivolt	n/a
AEM 1 Metering	Analog Output 1 Raw Value	GG	10652	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Output 2 Raw Value	GG	10654	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Output 3 Raw Value	GG	10656	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Output 4 Raw Value	GG	10658	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Output 1 Scaled Value	GG	10660	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Output 2 Scaled Value	GG	10662	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Output 3 Scaled Value	GG	10664	Float	4	R	n/a	n/a
AEM 1 Metering	Analog Output 4 Scaled Value	GG	10666	Float	4	R	n/a	n/a
AEM 1 Metering	Thermal Input 1 Scaled Value	GG	10668	Float	4	R	Deg F	n/a
AEM 1 Metering	Thermal Input 2 Scaled Value	GG	10670	Float	4	R	Deg F	n/a
AEM 2 Metering	Analog Input 1 Raw Value	GG	10672	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Input 2 Raw Value	GG	10674	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Input 3 Raw Value	GG	10676	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Input 4 Raw Value	GG	10678	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Input 5 Raw Value	GG	10680	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Input 6 Raw Value	GG	10682	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Input 7 Raw Value	GG	10684	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Input 8 Raw Value	GG	10686	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Input 1 Scaled Value	GG	10688	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Input 2 Scaled Value	GG	10690	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Input 3 Scaled Value	GG	10692	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Input 4 Scaled Value	GG	10694	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Input 5 Scaled Value	GG	10696	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Input 6 Scaled Value	GG	10698	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Input 7 Scaled Value	GG	10700	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Input 8 Scaled Value	GG	10702	Float	4	R	n/a	n/a
AEM 2 Metering	RTD Input 1 Raw Value	GG	10704	Float	4	R	Ohm	n/a
AEM 2 Metering	RTD Input 2 Raw Value	GG	10706	Float	4	R	Ohm	n/a
AEM 2 Metering	RTD Input 3 Raw Value	GG	10708	Float	4	R	Ohm	n/a
AEM 2 Metering	RTD Input 4 Raw Value	GG	10710	Float	4	R	Ohm	n/a
AEM 2 Metering	RTD Input 5 Raw Value	GG	10712	Float	4	R	Ohm	n/a
AEM 2 Metering	RTD Input 6 Raw Value	GG	10714	Float	4	R	Ohm	n/a
AEM 2 Metering	RTD Input 7 Raw Value	GG	10716	Float	4	R	Ohm	n/a
AEM 2 Metering	RTD Input 8 Raw Value	GG	10718	Float	4	R	Ohm	n/a
AEM 2 Metering	RTD Input 1 Scaled Value	GG	10720	Float	4	R	Deg F	n/a
AEM 2 Metering	RTD Input 2 Scaled Value	GG	10722	Float	4	R	Deg F	n/a
AEM 2 Metering	RTD Input 3 Scaled Value	GG	10724	Float	4	R	Deg F	n/a
AEM 2 Metering	RTD Input 4 Scaled Value	GG	10726	Float	4	R	Deg F	n/a
AEM 2 Metering	RTD Input 5 Scaled Value	GG	10728	Float	4	R	Deg F	n/a
AEM 2 Metering	RTD Input 6 Scaled Value	GG	10730	Float	4	R	Deg F	n/a
AEM 2 Metering	RTD Input 7 Scaled Value	GG	10732	Float	4	R	Deg F	n/a
AEM 2 Metering	RTD Input 8 Scaled Value	GG	10734	Float	4	R	Deg F	n/a
AEM 2 Metering	Thermal Input 1 Raw Value	GG	10736	Float	4	R	Millivolt	n/a
AEM 2 Metering	Thermal Input 2 Raw Value	GG	10738	Float	4	R	Millivolt	n/a
AEM 2 Metering	Analog Output 1 Raw Value	GG	10740	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Output 2 Raw Value	GG	10742	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Output 3 Raw Value	GG	10744	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Output 4 Raw Value	GG	10746	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Output 1 Scaled Value	GG	10748	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Output 2 Scaled Value	GG	10750	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Output 3 Scaled Value	GG	10752	Float	4	R	n/a	n/a
AEM 2 Metering	Analog Output 4 Scaled Value	GG	10754	Float	4	R	n/a	n/a
AEM 2 Metering	Thermal Input 1 Scaled Value	GG	10756	Float	4	R	Deg F	n/a
AEM 2 Metering	Thermal Input 2 Scaled Value	GG	10758	Float	4	R	Deg F	n/a
AEM 3 Metering	Analog Input 1 Raw Value	GG	10760	Float	4	R	n/a	n/a

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 3 Metering	Analog Input 2 Raw Value	GG	10762	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Input 3 Raw Value	GG	10764	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Input 4 Raw Value	GG	10766	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Input 5 Raw Value	GG	10768	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Input 6 Raw Value	GG	10770	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Input 7 Raw Value	GG	10772	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Input 8 Raw Value	GG	10774	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Input 1 Scaled Value	GG	10776	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Input 2 Scaled Value	GG	10778	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Input 3 Scaled Value	GG	10780	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Input 4 Scaled Value	GG	10782	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Input 5 Scaled Value	GG	10784	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Input 6 Scaled Value	GG	10786	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Input 7 Scaled Value	GG	10788	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Input 8 Scaled Value	GG	10790	Float	4	R	n/a	n/a
AEM 3 Metering	RTD Input 1 Raw Value	GG	10792	Float	4	R	Ohm	n/a
AEM 3 Metering	RTD Input 2 Raw Value	GG	10794	Float	4	R	Ohm	n/a
AEM 3 Metering	RTD Input 3 Raw Value	GG	10796	Float	4	R	Ohm	n/a
AEM 3 Metering	RTD Input 4 Raw Value	GG	10798	Float	4	R	Ohm	n/a
AEM 3 Metering	RTD Input 5 Raw Value	GG	10800	Float	4	R	Ohm	n/a
AEM 3 Metering	RTD Input 6 Raw Value	GG	10802	Float	4	R	Ohm	n/a
AEM 3 Metering	RTD Input 7 Raw Value	GG	10804	Float	4	R	Ohm	n/a
AEM 3 Metering	RTD Input 8 Raw Value	GG	10806	Float	4	R	Ohm	n/a
AEM 3 Metering	RTD Input 1 Scaled Value	GG	10808	Float	4	R	Deg F	n/a
AEM 3 Metering	RTD Input 2 Scaled Value	GG	10810	Float	4	R	Deg F	n/a
AEM 3 Metering	RTD Input 3 Scaled Value	GG	10812	Float	4	R	Deg F	n/a
AEM 3 Metering	RTD Input 4 Scaled Value	GG	10814	Float	4	R	Deg F	n/a
AEM 3 Metering	RTD Input 5 Scaled Value	GG	10816	Float	4	R	Deg F	n/a
AEM 3 Metering	RTD Input 6 Scaled Value	GG	10818	Float	4	R	Deg F	n/a
AEM 3 Metering	RTD Input 7 Scaled Value	GG	10820	Float	4	R	Deg F	n/a
AEM 3 Metering	RTD Input 8 Scaled Value	GG	10822	Float	4	R	Deg F	n/a
AEM 3 Metering	Thermal Input 1 Raw Value	GG	10824	Float	4	R	Millivolt	n/a
AEM 3 Metering	Thermal Input 2 Raw Value	GG	10826	Float	4	R	Millivolt	n/a
AEM 3 Metering	Analog Output 1 Raw Value	GG	10828	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Output 2 Raw Value	GG	10830	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Output 3 Raw Value	GG	10832	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Output 4 Raw Value	GG	10834	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Output 1 Scaled Value	GG	10836	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Output 2 Scaled Value	GG	10838	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Output 3 Scaled Value	GG	10840	Float	4	R	n/a	n/a
AEM 3 Metering	Analog Output 4 Scaled Value	GG	10842	Float	4	R	n/a	n/a
AEM 3 Metering	Thermal Input 1 Scaled Value	GG	10844	Float	4	R	Deg F	n/a
AEM 3 Metering	Thermal Input 2 Scaled Value	GG	10846	Float	4	R	Deg F	n/a
AEM 4 Metering	Analog Input 1 Raw Value	GG	10848	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Input 2 Raw Value	GG	10850	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Input 3 Raw Value	GG	10852	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Input 4 Raw Value	GG	10854	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Input 5 Raw Value	GG	10856	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Input 6 Raw Value	GG	10858	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Input 7 Raw Value	GG	10860	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Input 8 Raw Value	GG	10862	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Input 1 Scaled Value	GG	10864	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Input 2 Scaled Value	GG	10866	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Input 3 Scaled Value	GG	10868	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Input 4 Scaled Value	GG	10870	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Input 5 Scaled Value	GG	10872	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Input 6 Scaled Value	GG	10874	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Input 7 Scaled Value	GG	10876	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Input 8 Scaled Value	GG	10878	Float	4	R	n/a	n/a
AEM 4 Metering	RTD Input 1 Raw Value	GG	10880	Float	4	R	Ohm	n/a
AEM 4 Metering	RTD Input 2 Raw Value	GG	10882	Float	4	R	Ohm	n/a
AEM 4 Metering	RTD Input 3 Raw Value	GG	10884	Float	4	R	Ohm	n/a
AEM 4 Metering	RTD Input 4 Raw Value	GG	10886	Float	4	R	Ohm	n/a
AEM 4 Metering	RTD Input 5 Raw Value	GG	10888	Float	4	R	Ohm	n/a
AEM 4 Metering	RTD Input 6 Raw Value	GG	10890	Float	4	R	Ohm	n/a
AEM 4 Metering	RTD Input 7 Raw Value	GG	10892	Float	4	R	Ohm	n/a
AEM 4 Metering	RTD Input 8 Raw Value	GG	10894	Float	4	R	Ohm	n/a
AEM 4 Metering	RTD Input 1 Scaled Value	GG	10896	Float	4	R	Deg F	n/a
AEM 4 Metering	RTD Input 2 Scaled Value	GG	10898	Float	4	R	Deg F	n/a
AEM 4 Metering	RTD Input 3 Scaled Value	GG	10900	Float	4	R	Deg F	n/a
AEM 4 Metering	RTD Input 4 Scaled Value	GG	10902	Float	4	R	Deg F	n/a
AEM 4 Metering	RTD Input 5 Scaled Value	GG	10904	Float	4	R	Deg F	n/a
AEM 4 Metering	RTD Input 6 Scaled Value	GG	10906	Float	4	R	Deg F	n/a
AEM 4 Metering	RTD Input 7 Scaled Value	GG	10908	Float	4	R	Deg F	n/a
AEM 4 Metering	RTD Input 8 Scaled Value	GG	10910	Float	4	R	Deg F	n/a
AEM 4 Metering	Thermal Input 1 Raw Value	GG	10912	Float	4	R	Millivolt	n/a

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
AEM 4 Metering	Thermal Input 2 Raw Value	GG	10914	Float	4	R	Millivolt	n/a
AEM 4 Metering	Analog Output 1 Raw Value	GG	10916	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Output 2 Raw Value	GG	10918	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Output 3 Raw Value	GG	10920	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Output 4 Raw Value	GG	10922	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Output 1 Scaled Value	GG	10924	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Output 2 Scaled Value	GG	10926	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Output 3 Scaled Value	GG	10928	Float	4	R	n/a	n/a
AEM 4 Metering	Analog Output 4 Scaled Value	GG	10930	Float	4	R	n/a	n/a
AEM 4 Metering	Thermal Input 1 Scaled Value	GG	10932	Float	4	R	Deg F	n/a
AEM 4 Metering	Thermal Input 2 Scaled Value	GG	10934	Float	4	R	Deg F	n/a
COMS CONTROL GROUP	Average Line-Line Generator Voltage	GG	10936	Float	4	R	Volt LL	0 - 2000000000
J1939 Params	J1939 Accelerator Pedal Position	GG	10938	Uint32	4	R	Percent	<u>Data Range</u> 0 – 100% <u>Raw ECU Parameter Data</u> (0.4 %/bit gain, 0% offset)
J1939 Params	J1939 Percent Load At Current Speed	GG	10940	Uint32	4	R	Percent	<u>Data Range</u> 0 – 125% <u>Raw ECU Parameter Data</u> 1 %/bit gain, 0% offset
J1939 Params	J1939 Actual Engine Percent Torque	GG	10942	Uint32	4	R	Percent	<u>Data Range</u> -125 – 125% <u>Raw ECU Parameter Data</u> 1 %/bit gain, -125% offset
J1939 Params	J1939 Engine Speed	GG	10944	Uint32	4	R	rpm	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit gain, 0 rpm offset)
J1939 Params	J1939 Speed At Idle Point 1	GG	10946	Uint32	4	R	rpm	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit, 0 rpm offset
J1939 Params	J1939 Torque At Idle Point 1	GG	10948	Uint32	4	R	Percent	<u>Data Range</u> 0 – 125% <u>Raw ECU Parameter Data</u> 1 %/bit gain, -125% offset
J1939 Params	J1939 Speed At Idle Point 2	GG	10950	Uint32	4	R	rpm	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit, 0 rpm offset
J1939 Params	J1939 Torque At Idle Point 2	GG	10952	Uint32	4	R	Percent	<u>Data Range</u> 0 – 125% <u>Raw ECU Parameter Data</u> 1 %/bit gain, -125% offset
J1939 Params	J1939 Speed At Idle Point 3	GG	10954	Uint32	4	R	rpm	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit, 0 rpm offset
J1939 Params	J1939 Torque At Idle Point 3	GG	10956	Uint32	4	R	Percent	<u>Data Range</u> 0 – 125% <u>Raw ECU Parameter Data</u> 1 %/bit gain, -125% offset
J1939 Params	J1939 Speed At Idle Point 4	GG	10958	Uint32	4	R	rpm	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit, 0 rpm offset
J1939 Params	J1939 Torque At Idle Point 4	GG	10960	Uint32	4	R	Percent	<u>Data Range</u> 0 – 125% <u>Raw ECU Parameter Data</u> 1 %/bit gain, -125% offset
J1939 Params	J1939 Speed At Idle Point 5	GG	10962	Uint32	4	R	rpm	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit, 0 rpm offset
J1939 Params	J1939 Torque At Idle Point 5	GG	10964	Uint32	4	R	Percent	<u>Data Range</u> 0 – 125% <u>Raw ECU Parameter Data</u> 1 %/bit gain, -125% offset
J1939 Params	J1939 Speed At High Idle Point 6	GG	10966	Uint32	4	R	rpm	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit, 0 rpm offset

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
J1939 Params	J1939 Gain Of End speed Governor	GG	10968	Uint32	4	R	rpm	<u>Data Range</u> 0 – 50.2 %/rpm <u>Raw ECU Parameter Data</u> 0.0007813% engine reference torque/rpm per bit gain (normalized), 0 %/rpm per bit offset
J1939 Params	J1939 Reference Engine Torque	GG	10970	Uint32	4	R	Nm	<u>Data Range</u> 0 – 64255 Nm <u>Raw ECU Parameter Data</u> 1 Nm/bit gain, 0 Nm offset
J1939 Params	J1939 Override Speed Point 7	GG	10972	Uint32	4	R	rpm	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit, 0 rpm offset
J1939 Params	J1939 Override Time Limit	GG	10974	Uint32	4	R	Seconds	<u>Data Range</u> 0 – 25 s <u>Raw ECU Parameter Data</u> 0.1 s/bit gain, 0 s offset
J1939 Params	J1939 Speed Lower Limit	GG	10976	Uint32	4	R	rpm	<u>Data Range</u> 0 – 2500 rpm <u>Raw ECU Parameter Data</u> 10 rpm/bit gain, 0 rpm offset
J1939 Params	J1939 Speed Upper Limit	GG	10978	Uint32	4	R	rpm	<u>Data Range</u> 0 – 2500 rpm <u>Raw ECU Parameter Data</u> 10 rpm/bit gain, 0 rpm offset
J1939 Params	J1939 Torque Lower Limit	GG	10980	Uint32	4	R	Percent	<u>Data Range</u> 0 – 125% <u>Raw ECU Parameter Data</u> 1 %/bit gain, -125% offset
J1939 Params	J1939 Torque Upper Limit	GG	10982	Uint32	4	R	Percent	<u>Data Range</u> 0 – 125% <u>Raw ECU Parameter Data</u> 1 %/bit gain, -125% offset
J1939 Params	J1939 Engine Run Time	GG	10984	Uint32	4	R	Hours	<u>Data Range</u> 0 – +210,554, 060.75 h <u>Raw ECU Parameter Data</u> 0.05 h/bit gain, 0 h offset
J1939 Params	J1939 Trip Fuel	GG	10986	Uint32	4	R	Liters	<u>Data Range</u> 0 – 2105540,608 L <u>Raw ECU Parameter Data</u> 0.5 L/bit gain, 0 L offset
J1939 Params	J1939 Total Fuel Used	GG	10988	Uint32	4	R	Liters	<u>Data Range</u> 0 – 2105540608 L <u>Raw ECU Parameter Data</u> 0.5 L/bit gain, 0 L offset
J1939 Params	J1939 Coolant Temperature	GG	10990	Uint32	4	R	Degrees	<u>Data Range</u> -40 – 210°C, -40 – 410°F <u>Raw ECU Parameter Data</u> 1 °C/bit gain, -40°C offset
J1939 Params	J1939 Fuel Temperature	GG	10992	Uint32	4	R	Degrees	<u>Data Range</u> -40 – 210°C, -40 – 410°F <u>Raw ECU Parameter Data</u> 1 °C/bit gain, -40°C offset
J1939 Params	J1939 Engine Oil Temperature	GG	10994	Uint32	4	R	Degrees	<u>Data Range</u> -273 – 1735°C, -459.4 – 3155°F <u>Raw ECU Parameter Data</u> 0.03125 °C/bit gain, -273°C offset
J1939 Params	J1939 Engine Intercooler Temperature	GG	10996	Uint32	4	R	Degrees	<u>Data Range</u> -40 – 210°C, -40 – 410°F <u>Raw ECU Parameter Data</u> 1 °C/bit gain, -40°C offset
J1939 Params	J1939 Fuel Delivery Pressure	GG	10998	Uint32	4	R	kPa	<u>Data Range</u> 0 – 1000 kPa, 0 – 145 psi <u>Raw ECU Parameter Data</u> 4 kPa/bit gain, 0 kPa offset
J1939 Params	J1939 Engine Oil Level	GG	11000	Uint32	4	R	Percent	<u>Data Range</u> 0 – 100% <u>Raw ECU Parameter Data</u> 0.4 %/bit gain, 0% offset
J1939 Params	J1939 Oil Pressure	GG	11002	Uint32	4	R	kPa	<u>Data Range</u> 0 – 1000 kPa, 0 - 145 psi <u>Raw ECU Parameter Data</u> 4 kPa/bit gain, 0 kPa offset

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
J1939 Params	J1939 Coolant Pressure	GG	11004	Uint32	4	R	kPa	<u>Data Range</u> 0 – 500 kPa, 0 – 72.5 psi <u>Raw ECU Parameter Data</u> 2 kPa/bit gain, 0 kPa offset
J1939 Params	J1939 Coolant Level	GG	11006	Uint32	4	R	Percent	<u>Data Range</u> 0 – 100% <u>Raw ECU Parameter Data</u> 0.4 %/bit gain, 0% offset
J1939 Params	J1939 Injection Control Pressure 2	GG	11008	Uint32	4	R	MPa	<u>Data Range</u> 0 – 251 MPa <u>Raw ECU Parameter Data</u> 1/256 MPa/bit gain, 0 MPa offset
J1939 Params	J1939 Injector Metering Rail Pressure 2	GG	11010	Uint32	4	R	MPa	<u>Data Range</u> 0 – 251 MPa, 0 – 36404 psi <u>Raw ECU Parameter Data</u> 1/256 MPa/bit gain, 0 MPa offset
J1939 Params	J1939 Fuel Rate	GG	11012	Uint32	4	R	Liters/hour	<u>Data Range</u> 0 – 3212.75 L/h <u>Raw ECU Parameter Data</u> 0.05 L/h per bit gain, 0 L/h offset (13.9 x 10 ⁻⁶ L/s per bit)
J1939 Params	J1939 Instantaneous Fuel Economy	GG	11014	Uint32	4	R	Km/Liter	<u>Data Range</u> 0 – 125.498046875 <u>Raw ECU Parameter Data</u> 1/512 km/L per bit gain, 0 offset
J1939 Params	J1939 Average Fuel Economy	GG	11016	Uint32	4	R	Km/Liter	<u>Data Range</u> 0 – 125.498046875 <u>Raw ECU Parameter Data</u> 1/512 km/L per bit gain, 0 offset
J1939 Params	J1939 Barometric Pressure	GG	11018	Uint32	4	R	kPa	<u>Data Range</u> 0 – 125 kPa, 0 – 18.1 psi <u>Raw ECU Parameter Data</u> 0.5 kPa/bit gain, 0 kPa offset
J1939 Params	J1939 Ambient Air Temperature	GG	11020	Uint32	4	R	Degrees	<u>Data Range</u> -273 – 1735°C, -459.4 – 3155°F <u>Raw ECU Parameter Data</u> 0.03125 °C/bit gain, -273°C offset
J1939 Params	J1939 Air Inlet Temperature	GG	11022	Uint32	4	R	Degrees	<u>Data Range</u> -40 – 210°C, -40 – 410°F <u>Raw ECU Parameter Data</u> 1 °C/bit gain, -40°C offset
J1939 Params	J1939 Boost Pressure	GG	11024	Uint32	4	R	kPa	<u>Data Range</u> 0 – 500 kPa, 0 – 72.5 psi <u>Raw ECU Parameter Data</u> 2 kPa/bit gain, 0 kPa offset
J1939 Params	J1939 Intake Manifold Temperature	GG	11026	Uint32	4	R	Degrees	<u>Data Range</u> -40 – 210°C, -40 – 410°F <u>Raw ECU Parameter Data</u> 1 °C/bit gain, -40°C offset
J1939 Params	J1939 Air Filter Differential Pressure	GG	11028	Uint32	4	R	kPa	<u>Data Range</u> 0 – 12.5 kPa, 0 – 1.8 psi <u>Raw ECU Parameter Data</u> 0.05 kPa/bit gain, 0 kPa offset
J1939 Params	J1939 Exhaust Gas Temperature	GG	11030	Uint32	4	R	Degrees	<u>Data Range</u> -273 – 1735°C, -459.4 – 3155.0°F <u>Raw ECU Parameter Data</u> 0.03125 °C/bit gain, -273°C offset
J1939 Params	J1939 Electrical Potential Voltage	GG	11032	Uint32	4	R	Volts	<u>Data Range</u> 0 – 3212.75 V <u>Raw ECU Parameter Data</u> 0.05 V/bit gain, 0 V offset
J1939 Params	J1939 Battery Potential Voltage Switched	GG	11034	Uint32	4	R	Volts	<u>Data Range</u> 0 – 3212.75 V <u>Raw ECU Parameter Data</u> 0.05 V/bit gain, 0 V offset
J1939 Params	J1939 Transmission Oil Pressure	GG	11036	Uint32	4	R	kPa	<u>Data Range</u> 0 – 4000 kPa, 0 – 580 psi <u>Raw ECU Parameter Data</u> 16 kPa/bit gain, 0 kPa offset

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
J1939 Params	J1939 Transmission Oil Temperature	GG	11038	Uint32	4	R	Degrees	<u>Data Range</u> -273 – 1735°C, -459.4 – 3155.0°F <u>Raw ECU Parameter Data</u> 0.03125 °C/bit gain, -273°C offset
J1939 Params	J1939 Winding 1 Temperature	GG	11040	Uint32	4	R	Degrees	<u>Data Range</u> -40 – 210°C, -40 – 410°F <u>Raw ECU Parameter Data</u> 1 °C/bit gain, -40°C offset
J1939 Params	J1939 Winding 2 Temperature	GG	11042	Uint32	4	R	Degrees	<u>Data Range</u> -40 – 210°C, -40 – 410°F <u>Raw ECU Parameter Data</u> 1 °C/bit gain, -40°C offset
J1939 Params	J1939 Winding 3 Temperature	GG	11044	Uint32	4	R	Degrees	<u>Data Range</u> -40 – 210°C, -40 – 410°F <u>Raw ECU Parameter Data</u> 1 °C/bit gain, -40°C offset
J1939 Params	J1939 ECU Temperature	GG	11046	Uint32	4	R	Degrees	<u>Data Range</u> -273 – 1734.96875°C, -459.4 – 3155.0°F <u>Raw ECU Parameter Data</u> 0.03125 °C/bit gain, -273°C offset
J1939 Params	J1939 Auxiliary Pressure 1	GG	11048	Uint32	4	R	kPa	<u>Data Range</u> 0 – 4000 kPa, 0 – 580 psi <u>Raw ECU Parameter Data</u> 16 kPa/bit gain, 0 kPa offset
J1939 Params	J1939 Auxiliary Pressure 2	GG	11050	Uint32	4	R	kPa	<u>Data Range</u> 0 – 4000 kPa, 0 – 580 psi <u>Raw ECU Parameter Data</u> 16 kPa/bit gain, 0 kPa offset
J1939 Params	J1939 Rated Power	GG	11052	Uint32	4	R	kW	<u>Data Range</u> 0 – 32127.5 kW <u>Raw ECU Parameter Data</u> 0.5 kW/bit gain, 0 kW offset
J1939 Params	J1939 Rated rpm	GG	11054	Uint32	4	R	rpm	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit gain, 0 rpm offset
J1939 Params	J1939 Exhaust Temperature A	GG	11056	Uint32	4	R	Degrees	<u>Data Range</u> -273 – 1734.96875°C, -459.4 – 3155.0°F <u>Raw ECU Parameter Data</u> 0.03125 °C/bit gain, -273°C offset
J1939 Params	J1939 Exhaust Temperature B	GG	11058	Uint32	4	R	Degrees	<u>Data Range</u> -273 – 1734.96875°C, -459.4 – 3155.0°F <u>Raw ECU Parameter Data</u> 0.03125 °C/bit gain, -273°C offset
J1939 Params	J1939 Charge Air Temperature	GG	11060	Uint32	4	R	Degrees	<u>Data Range</u> -273 – 1734.96875°C, -459.4 – 3155.0°F <u>Raw ECU Parameter Data</u> 0.03125 °C/bit gain, -273°C offset
J1939 Params	J1939 Fuel Leakage Filter 1	GG	11062	Uint32	4	R	n/a	0- Fail 1- Ok 2- Internal Error 3- No Status Available
J1939 Params	J1939 Fuel Leakage Filter 2	GG	11064	Uint32	4	R	n/a	0- Fail 1- Ok 2- Internal Error 3- No Status Available
J1939 Params	J1939 Alarm Reset Feedback	GG	11066	Uint32	4	R	n/a	0- Fail 1- Ok 2- Internal Error 3- No Status Available
J1939 Params	J1939 Shutdown From ECU	GG	11068	Uint32	4	R	n/a	0- Fail 1- Ok 2- Internal Error 3- No Status Available

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
J1939 Params	J1939 ADEC ECU Error Code	GG	11070	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0 – 65535 Proprietary: Consult engine manufacturer
J1939 Params	J1939 ADEC Selected Speed Demand	GG	11072	Uint32	4	R	rpm	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit gain, 0 rpm offset
J1939 Params	J1939 ADEC Effective Set Speed	GG	11074	Uint32	4	R	rpm	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit gain, 0 rpm offset
J1939 Params	J1939 ADEC CAN Bus Speed Demand Fdbk	GG	11076	Uint32	4	R	rpm	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit gain, 0 rpm offset
J1939 Params	J1939 ADEC Analog Speed Demand Fdbk	GG	11078	Uint32	4	R	rpm	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit gain, 0 rpm offset
J1939 Params	J1939 ADEC Speed Demand Source	GG	11080	Uint32	4	R	n/a	0- Analog CAN 1- UP/DN ECU 2- UP/DN CAN 3- Analog ECU 5- Frequency 7- No CAN Demand
J1939 Params	J1939 ADEC Specified Torque	GG	11082	Uint32	4	R	Nm	<u>Data Range</u> 0 – 64255 Nm <u>Raw ECU Parameter Data</u> 1 Nm/bit gain, 0 Nm offset
J1939 Params	J1939 ADEC Engine Optimized	GG	11084	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0 – 64255 Proprietary: Consult engine manufacturer
J1939 Params	J1939 ADEC Current P Degree	GG	11086	Uint32	4	R	Percent	<u>Data Range</u> 0 – 160.7375% <u>Raw ECU Parameter Data</u> 0.0025 %/bit gain, 0% offset
J1939 Params	J1939 ADEC Day Tank Fill Percent	GG	11088	Uint32	4	R	Percent	<u>Data Range</u> 0 – 100% <u>Raw ECU Parameter Data</u> 0.4 %/bit gain, 0% offset
J1939 Params	J1939 ADEC Storage Tank Fill Percent	GG	11090	Uint32	4	R	Percent	<u>Data Range</u> 0 – 100% <u>Raw ECU Parameter Data</u> 0.4 %/bit gain, 0% offset
J1939 Params	J1939 ADEC Injection Quantity	GG	11092	Uint32	4	R	mm2	<u>Data Range</u> 0 – 429496729.5 <u>Raw ECU Parameter Data</u> 0.1 mm2/bit gain, 0 mm2 offset
J1939 Params	J1939 ADEC Engine Power Reserve	GG	11094	Uint32	4	R	Percent	<u>Data Range</u> 0 – 4294967.295 <u>Raw ECU Parameter Data</u> 0.001 %/bit gain, 0% offset
J1939 Params	J1939 ADEC Cylinder Cutout Code	GG	11096	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0 – 4294967295 Proprietary: Consult engine manufacturer
J1939 Params	J1939 ADEC Start Sequence Bit Field	GG	11098	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0 – 4294967295 Proprietary Bit Field Data: Consult engine manufacturer for Details
J1939 Params	J1939 ADEC P Lube Oil Limit LO	GG	11100	Uint32	4	R	mbar	<u>Data Range</u> 0 – 42949672.95 mbar <u>Raw ECU Parameter Data</u> 0.01 mbar/bit gain, 0 mbar offset
J1939 Params	J1939 ADEC P Lube Oil Limit LO LO	GG	11102	Uint32	4	R	mbar	<u>Data Range</u> 0 – 42949672.95 mbar <u>Raw ECU Parameter Data</u> 0.01 mbar/bit gain, 0 mbar offset

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
J1939 Params	J1939 ADEC P Charge Air Pressure	GG	11104	Uint32	4	R	mbar	<u>Data Range</u> 0 – 42949672.95 mbar <u>Raw ECU Parameter Data</u> 0.01 mbar/bit gain, 0 mbar offset
J1939 Params	J1939 ADEC AL Power Amp 1 Fail Bit Fld	GG	11106	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0 – 4294967295 Proprietary Bit Field Data: Consult engine manufacturer for Details
J1939 Params	J1939 ADEC AL Power Amp 2 Fail Bit Fld	GG	11108	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0 – 4294967295 Proprietary Bit Field Data: Consult engine manufacturer for Details
J1939 Params	J1939 ADEC AL Transistor Out Bit Fld	GG	11110	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0 – 4294967295 Proprietary Bit Field Data: Consult engine manufacturer for Details
J1939 Params	J1939 ADEC Camshaft rpm	GG	11112	Uint32	4	R	rpm	<u>Data Range</u> 0 – 429496729.5 rpm <u>Raw ECU Parameter Data</u> 0.1 rpm/bit gain, 0 rpm offset
J1939 Params	J1939 ADEC Daily Fuel Consumption	GG	11114	Uint32	4	R	cubic meters	<u>Data Range</u> 0 – 429496.7295 m3 <u>Raw ECU Parameter Data</u> 0.0001 m3/bit gain, 0 m3 offset
J1939 Params	J1939 ADEC Frequency Speed Demand	GG	11116	Uint32	4	R	rpm	<u>Data Range</u> 0 – 429496729.5 rpm <u>Raw ECU Parameter Data</u> 0.1 rpm/bit gain, 0 rpm offset
J1939 Params	J1939 ADEC Average Trip Fuel Consumption	GG	11118	Uint32	4	R	Liters/hour	<u>Data Range</u> 0 – 4294967.295 L/h <u>Raw ECU Parameter Data</u> 0.001 L/h per bit gain, 0 L/h offset
J1939 Params	J1939 ADEC Injection Quantity DBR Pct	GG	11120	Uint32	4	R	Percent	<u>Data Range</u> 0 – 42949672.95 <u>Raw ECU Parameter Data</u> 0.01 %/bit gain, 0% offset
J1939 Params	J1939 ADEC Actual Droop	GG	11122	Uint32	4	R	Percent	<u>Data Range</u> 0 – 4294967.295 <u>Raw ECU Parameter Data</u> 0.001 %/bit gain, 0% offset
J1939 Params	J1939 ADEC Nodes On CAN Bus	GG	11124	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0 – 4294967295 Proprietary Bit Field Data: Consult engine manufacturer for Details
J1939 Params	J1939 ADEC Lost Nodes On CAN Bus	GG	11126	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0 – 4294967295 Proprietary Bit Field Data: Consult engine manufacturer for Details
J1939 Params	J1939 ADEC Trip Operating Time	GG	11128	Uint32	4	R	hours	<u>Data Range</u> 0 – 4294967.295 <u>Raw ECU Parameter Data</u> No gain or offset
J1939 Params	J1939 ADEC Transistor Out Bit Fld	GG	11130	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0 – 4294967295 Proprietary Bit Field Data: Consult engine manufacturer for Details
J1939 Params	J1939 ADEC L1 L ECU Power Supply Volts	GG	11132	Uint32	4	R	Volts	<u>Data Range</u> 0 – 4294967.295 V <u>Raw ECU Parameter Data</u> 0.001 V/bit gain, 0 V offset
J1939 Params	J1939 ADEC L2 L ECU Power Supply Volts	GG	11134	Uint32	4	R	Volts	<u>Data Range</u> 0 – 4294967.295 V <u>Raw ECU Parameter Data</u> 0.001 V/bit gain, 0 V offset
J1939 Params	J1939 ADEC U1 L ECU Power Supply Volts	GG	11136	Uint32	4	R	Volts	<u>Data Range</u> 0 – 4294967.295 V <u>Raw ECU Parameter Data</u> 0.001 V/bit gain, 0 V offset

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
J1939 Params	J1939 ADEC U2 L ECU Power Supply Volts	GG	11138	Uint32	4	R	Volts	<u>Data Range</u> 0 – 4294967295 s <u>Raw ECU Parameter Data</u> 0.001 V/bit gain, 0 V offset
J1939 Params	J1939 ADEC Trip Idle Time	GG	11140	Uint32	4	R	Seconds	<u>Data Range</u> 0 – 4294967295 V <u>Raw ECU Parameter Data</u> No gain or offset
J1939 Params	J1939 ADEC T Coolant Limit Hi	GG	11142	Uint32	4	R	Degrees	<u>Data Range</u> 0 – 42949672.95 °C <u>Raw ECU Parameter Data</u> 0.01 °C/bit gain, 0 °C offset
J1939 Params	J1939 ADEC T Coolant Limit Hi Hi	GG	11144	Uint32	4	R	Degrees	<u>Data Range</u> 0 – 42949672.95 °C <u>Raw ECU Parameter Data</u> 0.01 °C/bit gain, 0 °C offset
J1939 Params	J1939 ADEC T Charge Air Limit Hi	GG	11146	Uint32	4	R	Degrees	<u>Data Range</u> 0 – 42949672.95 °C <u>Raw ECU Parameter Data</u> 0.01 °C/bit gain, 0 °C offset
J1939 Params	J1939 ADEC T Intercooler Limit Hi	GG	11148	Uint32	4	R	Degrees	<u>Data Range</u> 0 – 42949672.95 °C <u>Raw ECU Parameter Data</u> 0.01 °C/bit gain, 0 °C offset
J1939 Params	J1939 MTU SPS Node Byte	GG	11150	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0 – 255 Proprietary: Consult engine manufacturer
J1939 Params	J1939 MTU Sw Typ Byte	GG	11152	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0 – 255 Proprietary: Consult engine manufacturer
J1939 Params	J1939 MTU Sw Var Byte	GG	11154	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0 – 255 Proprietary: Consult engine manufacturer
J1939 Params	J1939 MTU Sw Ed 1 Byte	GG	11156	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0 – 255 Proprietary: Consult engine manufacturer
J1939 Params	J1939 MTU Sw Ed 2 Byte	GG	11158	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0 – 255 Proprietary: Consult engine manufacturer
J1939 Params	J1939 MTU Rev Byte	GG	11160	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0 – 255 Proprietary: Consult engine manufacturer
J1939 Params	J1939 MTU Sw Mod Byte	GG	11162	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0 – 255 Proprietary: Consult engine manufacturer
J1939 Params	J1939 DPF Lamp	GG	11164	Uint32	4	R	n/a	0 – Off 1 – On Solid 4 – On – Fast Blink (1 Hz) Others Reserved
J1939 Params	J1939 High Exhaust Temp Lamp	GG	11166	Uint32	4	R	n/a	0 – Off 1 – On Solid Others Reserved
J1939 Params	J1939 DPF Regeneration Inhibited By Switch	GG	11168	Uint32	4	R	n/a	0 – Off 1 – On
J1939 Params	J1939 Trip Average Fuel Rate	GG	11170	Uint32	4	R	Liters per hour	<u>Data Range</u> 0 - 3,212.75 L/h <u>Raw ECU Parameter Data</u> 0.05 L/h per bit gain, 0 offset
J1939 Params	J1939 Intake Manifold One Absolute Pressure	GG	11172	Uint32	4	R	kPa	<u>Data Range</u> 0 – 500 kPa <u>Raw ECU Parameter Data</u> 2 kPa per bit gain, 0 offset
J1939 Params	J1939 Intercooler Coolant Level	GG	11174	Uint32	4	R	Percent	<u>Data Range</u> 0 – 100% <u>Raw ECU Parameter Data</u> 0.4 %/bit gain, 0% offset
J1939 Params	J1939 Engine Coolant Preheated State	GG	11176	Uint32	4	R	n/a	0 - false 1 - true

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
J1939 Params	J1939 Engine Desired Operating Speed	GG	11178	Uint32	4	R	rpm	<u>Data Range</u> 0 – 8031,875 rpm <u>Raw ECU Parameter Data</u> 1/8 rpm per bit gain, 0 offset
J1939 Params	J1939 MTU ECU 8 SMC Requested Absolute Torque	GG	11180	Uint32	4	R	Nm	<u>Data Range</u> -32000 – 32000 Nm <u>Raw ECU Parameter Data</u> 1 Nm/bit gain, -32000 offset
J1939 Params	J1939 MTU ECU 8 SMC Actual Droop	GG	11182	Uint32	4	R	percent	<u>Data Range</u> 0 to 100% <u>Raw ECU Parameter Data</u> 0.4%/bit gain, 0 offset
J1939 Params	J1939 MTU ECU 8 SMC Status Of Start Procedure	GG	11184	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0 – 4294967295 Proprietary Bit Field Data: Consult engine manufacturer for Details
J1939 Params	J1939 MTU ECU 8 SMC Eng Oper Mode	GG	11186	Uint32	4	R	n/a	0 – Operating Mode 1 1 – Operating Mode 2 Consult manufacturer for details of each operating mode.
J1939 Params	J1939 MTU ECU 8 SMC Speed Demand Feedback	GG	11188	Uint32	4	R	n/a	<u>Data Range</u> 0 – 8031,875 rpm <u>Raw ECU Parameter Data</u> 1/8 rpm per bit gain, 0 offset
J1939 Params	J1939 MTU ECU 8 SMC Speed Demand Source	GG	11190	Uint32	4	R	n/a	0 – CAN demand 1 – Up/Dn ECU 2 – CAN Up/Down 3 – ECU Speed Demand Input 4 – Reserved 5 – ECU Speed Demand Frequency Input
J1939 Params	J1939 MTU ECU 8 SMC Can Speed Demand Feedback	GG	11192	Uint32	4	R	n/a	<u>Data Range</u> 0 – 8031,875 rpm <u>Raw ECU Parameter Data</u> 1/8 rpm per bit gain, 0 offset
J1939 Params	J1939 MTU ECU 8 SMC Analog Speed Demand Feedback	GG	11194	Uint32	4	R	n/a	<u>Data Range</u> 0 – 8031,875 rpm <u>Raw ECU Parameter Data</u> 1/8 rpm per bit gain, 0 offset
J1939 Params	J1939 MTU ECU 8 SMC Can Mode Feedback Status Bit	GG	11196	Uint32	4	R	n/a	0 – Operating Mode 1 1 – Operating Mode 2 Consult manufacturer for details of each operating mode.
J1939 Params	J1939 DEF Tank 1 Level Percent	GG	11198	Uint32	4	R	percent	<u>Data Range</u> 0 – 100% <u>Raw ECU Parameter Data</u> 0.4%/bit gain, 0 offset
J1939 Params	J1939 DEF Tank 2 Level Percent	GG	11200	Uint32	4	R	percent	<u>Data Range</u> 0 – 100% <u>Raw ECU Parameter Data</u> 0.4%/bit gain, 0 offset
J1939 Params	J1939 Engine Wait To Start Lamp	GG	11202	Uint32	4	R	n/a	0 – Lamp Off 1 – Lamp On 2 – Error 3 – Not Available
J1939 Params	J1939 DEF Severity Level	GG	11204	Uint32	4	R	n/a	0 – No Warning 1 – Low DEF Level – Lamp on Solid 4 – DEF Low Severe – DEF Lamp Blinking at 1Hz rate Other values are Reserved for SAE Assignment
J1939 Params	J1939 DEF Inducement Level	GG	11206	Uint32	4	R	n/a	0 – No Inducement 1 – DEF Warning 2 – DEF Warning Level 2 3 – Inducement 4 – Pre-Severe Inducement 5 – Severe Inducement 6 – Temporary Override of Inducement

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
J1939 Params	J1939 Field Voltage	GG	11208	Uint32	4	R	volts	<u>Data Range</u> -1606.00 – 1606.75 V <u>Raw ECU Parameter Data</u> 0.05 V/bit gain, -1606.00V offset
J1939 Params	J1939 Field Current	GG	11210	Uint32	4	R	amps	<u>Data Range</u> 0 – 3212.75 A <u>Raw ECU Parameter Data</u> 0.05 A/bit gain, 0 offset
J1939 Params	J1939 DPF Filter Status	GG	11212	Uint32	4	R	n/a	0 – No Regeneration Needed 1 – Regeneration Needed – lowest Level 2 – Regeneration Needed – Moderate Level 3 – Regeneration Needed – Highest Level 4-6 Reserved 7 – Not Available
ECU Metering	CAN Bus Results Register	GG	11214	Uint32	4	R	n/a	Bit 0 – Can Comms Fail Bit 1 – Active DTC Clear Fail Bit 2 – Previous DTC Clear Fail Bit 4 – 31 Disregard
ECU Metering	CAN Communications Diagnostics	GG	11216	Uint32	4	R	n/a	Bit 0 – Can ECU Offline Bit 1 – Active DTC Clear Fail Bit 2 – Previously Active DTC Clear Fail Bit 3 – Disregard Bit 4 – Ecu Comms Failed Bits 5 – 31 Disregard
ECU Metering	J1939 ECU Protect Lamp Status Data	GG	11218	Uint32	4	R		Off=0 On=1 Slow Flash=2 Fast Flash=3
ECU Metering	J1939 ECU Warning Lamp Status Data	GG	11220	Uint32	4	R		Off=0 On=1 Slow Flash=2 Fast Flash=3
ECU Metering	J1939 ECU Red Stop Lamp Status Data	GG	11222	Uint32	4	R		Off=0 On=1 Slow Flash=2 Fast Flash=3
ECU Metering	J1939 ECU Malfunction Status Data	GG	11224	Uint32	4	R		Off=0 On=1 Slow Flash=2 Fast Flash=3
ECU Metering	Active DTC1	GG	11226	Uint32	4	R	n/a	Suppose the 32 bits of DTC Data is in Register N and N+1. SPN = (Register N: Most Significant 3 bits * 65536) + (Register N+1: LS Byte * 256) + (Register N+1: MS Byte) FMI = Register N: Bits 8-12 Occurrence Count = Register N: Bits 0 through 6
ECU Metering	Active DTC2	GG	11228	Uint32	4	R	n/a	
ECU Metering	Active DTC3	GG	11230	Uint32	4	R	n/a	
ECU Metering	Active DTC4	GG	11232	Uint32	4	R	n/a	
ECU Metering	Active DTC5	GG	11234	Uint32	4	R	n/a	
ECU Metering	Active DTC6	GG	11236	Uint32	4	R	n/a	
ECU Metering	Active DTC7	GG	11238	Uint32	4	R	n/a	
ECU Metering	Active DTC8	GG	11240	Uint32	4	R	n/a	
ECU Metering	Active DTC9	GG	11242	Uint32	4	R	n/a	
ECU Metering	Active DTC10	GG	11244	Uint32	4	R	n/a	
ECU Metering	Active DTC11	GG	11246	Uint32	4	R	n/a	
ECU Metering	Active DTC12	GG	11248	Uint32	4	R	n/a	
ECU Metering	Active DTC13	GG	11250	Uint32	4	R	n/a	
ECU Metering	Active DTC14	GG	11252	Uint32	4	R	n/a	
ECU Metering	Active DTC15	GG	11254	Uint32	4	R	n/a	
ECU Metering	Active DTC16	GG	11256	Uint32	4	R	n/a	
ECU Metering	Previously Active DTC1	GG	11258	Uint32	4	R	n/a	
ECU Metering	Previously Active DTC2	GG	11260	Uint32	4	R	n/a	
ECU Metering	Previously Active DTC3	GG	11262	Uint32	4	R	n/a	
ECU Metering	Previously Active DTC4	GG	11264	Uint32	4	R	n/a	
ECU Metering	Previously Active DTC5	GG	11266	Uint32	4	R	n/a	
ECU Metering	Previously Active DTC6	GG	11268	Uint32	4	R	n/a	
ECU Metering	Previously Active DTC7	GG	11270	Uint32	4	R	n/a	
ECU Metering	Previously Active DTC8	GG	11272	Uint32	4	R	n/a	
ECU Metering	Previously Active DTC9	GG	11274	Uint32	4	R	n/a	
ECU Metering	Previously Active DTC10	GG	11276	Uint32	4	R	n/a	
ECU Metering	Previously Active DTC11	GG	11278	Uint32	4	R	n/a	
ECU Metering	Previously Active DTC12	GG	11280	Uint32	4	R	n/a	
ECU Metering	Previously Active DTC13	GG	11282	Uint32	4	R	n/a	
ECU Metering	Previously Active DTC14	GG	11284	Uint32	4	R	n/a	

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
ECU Metering	Previously Active DTC15	GG	11286	Uint32	4	R	n/a	
ECU Metering	Previously Active DTC16	GG	11288	Uint32	4	R	n/a	
ECU Metering	MDEC Alarms	GG	11290	Uint32	4	R	n/a	b0 = High Charge Air Temp, b1 = High Oil Temp, b2 = High Coolant Temp, b3 = Low Aftercooler Level, b4 = Low Fuel Delivery Press, b5 = Low Oil Press, b6 = Overspeed, b7 = Combined Red, b8-b31 Unassigned
ECU Metering	MDEC Prealarms	GG	11292	Uint32	4	R	n/a	b0 = High ECU Temp, b1 = High Oil Temp, b2 = High Intercooler Temp, b3 = High Charge Air Temp, b4 = High Coolant Temp, b5 = Shutdown Override, b6 = High Fuel Rail Press, b7 = Low Fuel Rail Press, b8 = Low Coolant Level, b9 = Low Charge Air Pressure, b10 = Low Fuel Deliv Pressure, b11 = Low Oil Pressure, b12 = Combined Yellow, b13-b31 Unassigned
ECU Metering	Active DTC Count	GG	11294	Uint32	4	R	n/a	0 - 16
ECU Metering	Prev DTC Count	GG	11296	Uint32	4	R	n/a	0 - 16
ECU Metering	MDEC Faults Count	GG	11298	Uint32	4	R	n/a	0 - 20
Gen Voltage Meter Mag 1	Average Line-Neutral Voltage	GG	11300	Float	4	R	Volt	0 - 2000000000
Gen Voltage Meter Pri1	Average Line-Neutral Voltage	GG	11302	Float	4	R	Volt	0 - 2000000000
Bus 1 Voltage Meter Mag	Average Line-Neutral Voltage	GG	11304	Float	4	R	Volt	0 - 2000000000
Bus 1 Voltage Meter Pri	Average Line-Neutral Voltage	GG	11306	Float	4	R	Volt	0 - 2000000000
Bus 2 Voltage Meter Mag	Average Line-Neutral Voltage	GG	11308	Float	4	R	Volt	0 - 2000000000
Bus 2 Voltage Meter Pri	Average Line-Neutral Voltage	GG	11310	Float	4	R	Volt	0 - 2000000000
J1939 Params	j1939 Scania Urea Lvl	GG	11312	Uint32	4	R	n/a	<u>Data Range</u> 0 to 100% <u>Raw ECU Parameter Data</u> 0.4 %/bit gain, 0% offset
J1939 Params	j1939 Scania Urea Lvl Inducement State	GG	11314	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0- Urea Level OK 1- Low Urea Level 2- Fill Up Urea 3- Urea Tank Empty
J1939 Params	j1939 Scania Urea OBD Inducement State	GG	11316	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0- No Inducement 1- Active Torque Limit Due to Urea Level 2- Active Speed Limit Due to Urea Level 3- Active Torque Limit Due to SCR Failure 4- Active Speed Limit Due to SCR Failure
J1939 Params	j1939 DPF Outlet Gas Temp	GG	11318	Uint32	4	R	n/a	<u>Data Range</u> -273 to +1735.0 °C (-459.4 to +155.0 °F) <u>Raw ECU Parameter Data</u> 0.03125 °C/bit gain, -273 °C offset
Independent Meter 1	SystemTotalSequencingReserve	GG	11320	Float	4	R	Kilowatt	n/a
Independent Meter 1	Gen seq Unit ID	GG	11322	Reg32	4	R	n/a	n/a
Independent Meter 1	Gen seq Next To Start Unit ID	GG	11324	Reg32	4	R	n/a	n/a
Independent Meter 1	Gen seq Next To Stop Unit ID	GG	11326	Reg32	4	R	n/a	n/a
Independent Meter 1	Gen seq Network Manager Unit ID	GG	11328	Reg32	4	R	n/a	n/a
Independent Meter 1	GEN SEQ ACTIVE SEG NETWORK NUM UNITS	GG	11330	Uint32	4	R	n/a	0 - 4294967295

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Independent Meter 1	Mains Breaker Control kW Measured	GG	11332	Float	4	R	Kilowatt	n/a
Independent Meter 1	Mains Breaker Control Error	GG	11334	Float	4	R	Kilowatt	n/a
Independent Meter 1	Mains Breaker Control Baseload	GG	11336	Float	4	R	n/a	n/a
Independent Meter 1	Mains Breaker Control Sys Gen kW	GG	11338	Float	4	R	Kilowatt	n/a
Independent Meter 1	Mains Breaker Control Sys Rated kW	GG	11340	Float	4	R	Kilowatt	n/a
Independent Meter 1	Kw Load Percent	GG	11342	Float	4	R	Percent	n/a
Independent Meter 1	System Total kW Capacity	GG	11344	Float	4	R	Kilowatt	n/a
Independent Meter 1	Sys Gen kW Percent	GG	11346	Float	4	R	Percent	n/a
Independent Meter 1	DPF Outlet Gas Temp	GG	11348	Float	4	R	Deg F	n/a
Independent Meter 1	System Group Bus Freq	GG	11350	Float	4	R	Hertz	10 - 180
Independent Meter 1	System Group Bus Vavg LL	GG	11352	Float	4	R	Volt LL	0 - 2000000000
Independent Meter 1	System Group Bus Iavg	GG	11354	Float	4	R	Amp	0 - 2000000000
Independent Meter 1	System Group Bus Total Watt Pri	GG	11356	Float	4	R	Watt	n/a
Independent Meter 1	System Group Bus Total Var Pri	GG	11358	Float	4	R	Var	n/a
Independent Meter 1	System Group Bus Total PF	GG	11360	Float	4	R	Power Factor	n/a
Independent Meter 1	System Load Bus Freq	GG	11362	Float	4	R	Hertz	10 - 180
Independent Meter 1	System Load Bus Vavg LL	GG	11364	Float	4	R	Volt LL	0 - 2000000000
Independent Meter 1	System Load Bus Iavg	GG	11366	Float	4	R	Amp	0 - 2000000000
Independent Meter 1	System Load Bus Total Watt Pri	GG	11368	Float	4	R	Watt	n/a
Independent Meter 1	System Load Bus Total Var Pri	GG	11370	Float	4	R	Var	n/a
Independent Meter 1	System Load Bus Total PF	GG	11372	Float	4	R	Power Factor	n/a
Independent Meter 1	System Mains Bus Freq	GG	11374	Float	4	R	Hertz	10 - 180
Independent Meter 1	System Mains Bus Iavg	GG	11376	Float	4	R	Amp	0 - 2000000000
Independent Meter 1	System Mains Bus Total Watt Pri	GG	11378	Float	4	R	Watt	n/a
Independent Meter 1	System Mains Bus Total Var Pri	GG	11380	Float	4	R	Var	n/a
Independent Meter 1	System Mains Bus Total PF	GG	11382	Float	4	R	Power Factor	n/a
Independent Meter 1	Mains Breaker Control Sys Total kW	GG	11384	Float	4	R	Kilowatt	n/a
Independent Meter 1	Breaker Power Sum 1 kW	GG	11386	Float	4	R	Kilowatt	n/a
Independent Meter 1	Breaker Power Sum 1 kvar	GG	11388	Float	4	R	Kilovar	n/a
Independent Meter 1	Breaker Power Sum 2 kW	GG	11390	Float	4	R	Kilowatt	n/a
Independent Meter 1	Breaker Power Sum 2 kvar	GG	11392	Float	4	R	Kilovar	n/a
Independent Meter 1	Breaker Power Sum 3 kW	GG	11394	Float	4	R	Kilowatt	n/a
Independent Meter 1	Breaker Power Sum 3 kvar	GG	11396	Float	4	R	Kilovar	n/a
Independent Meter 1	Breaker Power Sum 4 kW	GG	11398	Float	4	R	Kilowatt	n/a
Independent Meter 1	Breaker Power Sum 4 kvar	GG	11400	Float	4	R	Kilovar	n/a
Independent Meter 1	Breaker Power Sum 5 kW	GG	11402	Float	4	R	Kilowatt	n/a
Independent Meter 1	Breaker Power Sum 5 kvar	GG	11404	Float	4	R	Kilovar	n/a
Independent Meter 1	Breaker Power Sum 6 kW	GG	11406	Float	4	R	Kilowatt	n/a
Independent Meter 1	Breaker Power Sum 6 kvar	GG	11408	Float	4	R	Kilovar	n/a
Independent Meter 1	Breaker Power Sum 7 kW	GG	11410	Float	4	R	Kilowatt	n/a
Independent Meter 1	Breaker Power Sum 7 kvar	GG	11412	Float	4	R	Kilovar	n/a
Independent Meter 1	Breaker Power Sum 8 kW	GG	11414	Float	4	R	Kilowatt	n/a
Independent Meter 1	Breaker Power Sum 8 kvar	GG	11416	Float	4	R	Kilovar	n/a
Independent Meter 1	Active Block Load Level	GG	11418	Float	4	R	Kilowatt	1 - 999999
Independent Meter 1	Load Shed Priority To Shed	GG	11420	Int32	4	R	n/a	n/a
Independent Meter 1	Load Shed Time To Shed	GG	11422	Float	4	R	Second	n/a
Independent Meter 1	Load Shed Time To Shed Fast	GG	11424	Float	4	R	Second	n/a
Independent Meter 1	Load Shed Priority To Add	GG	11426	Int32	4	R	n/a	-4294967294
Independent Meter 1	Load Shed Time To Add	GG	11428	Float	4	R	Second	n/a
Differential	Iop	GG	11430	Float	4	R	Amp	0 - 100000
Differential	Ir	GG	11432	Float	4	R	Amp	0 - 100000
87G	Circuit 1 Phase Comp	SG0	11434	UInt32	4	R	n/a	NA=0 Wye=1 DAB=2 DAC=3 ZAB=4 ZAC=5 DDAB=6
87G	Circuit 1 Rotation Comp	SG0	11436	UInt32	4	R	n/a	NA=0 R1=1 R2=2
87G	Circuit 2 Phase Comp	SG0	11438	UInt32	4	R	n/a	NA=0 Wye=1 DAB=2 DAC=3 ZAB=4 ZAC=5 DDAB=6

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
87G	Circuit 2 Rotation Comp	SG0	11440	Uint32	4	R	n/a	NA=0 R1=1 R2=2
87G	Circuit 4 Phase Comp	SG0	11442	Uint32	4	R	n/a	NA=0 Wye=1 DAB=2 DAC=3 ZAB=4 ZAC=5 DDAB=6
87G	Circuit 4 Rotation Comp	SG0	11444	Uint32	4	R	n/a	NA=0 R1=1 R2=2
87G	Circuit 1 Phase Comp	SG1	11446	Uint32	4	R	n/a	NA=0 Wye=1 DAB=2 DAC=3 ZAB=4 ZAC=5 DDAB=6
87G	Circuit 1 Rotation Comp	SG1	11448	Uint32	4	R	n/a	NA=0 R1=1 R2=2
87G	Circuit 2 Phase Comp	SG1	11450	Uint32	4	R	n/a	NA=0 Wye=1 DAB=2 DAC=3 ZAB=4 ZAC=5 DDAB=6
87G	Circuit 2 Rotation Comp	SG1	11452	Uint32	4	R	n/a	NA=0 R1=1 R2=2
87G	Circuit 4 Phase Comp	SG1	11454	Uint32	4	R	n/a	NA=0 Wye=1 DAB=2 DAC=3 ZAB=4 ZAC=5 DDAB=6
87G	Circuit 4 Rotation Comp	SG1	11456	Uint32	4	R	n/a	NA=0 R1=1 R2=2
87G	Circuit 1 Phase Comp	SG2	11458	Uint32	4	R	n/a	NA=0 Wye=1 DAB=2 DAC=3 ZAB=4 ZAC=5 DDAB=6
87G	Circuit 1 Rotation Comp	SG2	11460	Uint32	4	R	n/a	NA=0 R1=1 R2=2
87G	Circuit 2 Phase Comp	SG2	11462	Uint32	4	R	n/a	NA=0 Wye=1 DAB=2 DAC=3 ZAB=4 ZAC=5 DDAB=6
87G	Circuit 2 Rotation Comp	SG2	11464	Uint32	4	R	n/a	NA=0 R1=1 R2=2
87G	Circuit 4 Phase Comp	SG2	11466	Uint32	4	R	n/a	NA=0 Wye=1 DAB=2 DAC=3 ZAB=4 ZAC=5 DDAB=6
87G	Circuit 4 Rotation Comp	SG2	11468	Uint32	4	R	n/a	NA=0 R1=1 R2=2
87G	Circuit 1 Phase Comp	SG3	11470	Uint32	4	R	n/a	NA=0 Wye=1 DAB=2 DAC=3 ZAB=4 ZAC=5 DDAB=6

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
87G	Circuit 1 Rotation Comp	SG3	11472	Uint32	4	R	n/a	NA=0 R1=1 R2=2
87G	Circuit 2 Phase Comp	SG3	11474	Uint32	4	R	n/a	NA=0 Wye=1 DAB=2 DAC=3 ZAB=4 ZAC=5 DDAB=6
87G	Circuit 2 Rotation Comp	SG3	11476	Uint32	4	R	n/a	NA=0 R1=1 R2=2
87G	Circuit 4 Phase Comp	SG3	11478	Uint32	4	R	n/a	NA=0 Wye=1 DAB=2 DAC=3 ZAB=4 ZAC=5 DDAB=6
87G	Circuit 4 Rotation Comp	SG3	11480	Uint32	4	R	n/a	NA=0 R1=1 R2=2
Phase Differential	Iop A	GG	11482	Float	4	R	X Tap	0 - 100000
Phase Differential	Ir A	GG	11484	Float	4	R	X Tap	0 - 100000
Phase Differential	Iop B	GG	11486	Float	4	R	X Tap	0 - 100000
Phase Differential	Ir B	GG	11488	Float	4	R	X Tap	0 - 100000
Phase Differential	Iop C	GG	11490	Float	4	R	X Tap	0 - 100000
Phase Differential	Ir C	GG	11492	Float	4	R	X Tap	0 - 100000
Phase Differential	Iop 2nd A	GG	11494	Float	4	R	Percent	0 - 1000
Phase Differential	Iop 2nd B	GG	11496	Float	4	R	Percent	0 - 1000
Phase Differential	Iop 2nd C	GG	11498	Float	4	R	Percent	0 - 1000
Phase Differential	Iop 5th A	GG	11500	Float	4	R	Percent	0 - 1000
Phase Differential	Iop 5th B	GG	11502	Float	4	R	Percent	0 - 1000
Phase Differential	Iop 5th C	GG	11504	Float	4	R	Percent	0 - 1000
J1939 Parameters	J1939 Volvo DEF Inducement Reason	GG	11506	Uint32	4	R	n/a	0 – OK 1 – Reagent Level Low 2 – Incorrect Quality 3 – Incorrect Consumption 4 – Tampering 5 – Not Used 6 – Error 7 – Not Available
J1939 Parameters	J1939 Volvo DEF Inducement Level	GG	11508	Uint32	4	R	n/a	0 – No Inducement 1 – Inducement Warning 2 – Not Used 3 – Derate Active 4 – Pre-Severe Derate Warning 5 – Severe Derate 6 – Temporary Override of Derate 7 – Not Available
ECU Metering	Engine ECU Address	GG	11510	Uint32	4	R	n/a	0 - 4294967295
Independent Meter 1	Load Anticipation Washout Output	GG	11512	Float	4	R	n/a	n/a
Independent Meter 1	Load Anticipation LeadLag Output	GG	11514	Float	4	R	n/a	n/a
Independent Meter 1	Load Anticipation Output	GG	11516	Float	4	R	n/a	n/a
Analog Input Meter 1	Raw	GG	11518	Float	4	R	Volt	n/a
Analog Input Meter 1	Scaled	GG	11520	Float	4	R	n/a	n/a
Analog Input Meter 2	Raw	GG	11522	Float	4	R	Volt	n/a
Analog Input Meter 2	Scaled	GG	11524	Float	4	R	n/a	n/a
Analog Input Meter 3	Raw	GG	11526	Float	4	R	Volt	n/a
Analog Input Meter 3	Scaled	GG	11528	Float	4	R	n/a	n/a
Analog Input Meter 4	Raw	GG	11530	Float	4	R	Volt	n/a
Analog Input Meter 4	Scaled	GG	11532	Float	4	R	n/a	n/a
Analog Input Meter 5	Raw	GG	11534	Float	4	R	Volt	n/a
Analog Input Meter 5	Scaled	GG	11536	Float	4	R	n/a	n/a
Configurable Protection 1	Math Result	GG	11538	Float	4	R	n/a	-999999 - 999999
Configurable Protection 2	Math Result	GG	11540	Float	4	R	n/a	-999999 - 999999
Configurable Protection 3	Math Result	GG	11542	Float	4	R	n/a	-999999 - 999999
Configurable Protection 4	Math Result	GG	11544	Float	4	R	n/a	-999999 - 999999
Configurable Protection 5	Math Result	GG	11546	Float	4	R	n/a	-999999 - 999999

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 6	Math Result	GG	11548	Float	4	R	n/a	-999999 - 999999
Configurable Protection 7	Math Result	GG	11550	Float	4	R	n/a	-999999 - 999999
Configurable Protection 8	Math Result	GG	11552	Float	4	R	n/a	-999999 - 999999
Configurable Protection 9	Math Result	GG	11554	Float	4	R	n/a	-999999 - 999999
Configurable Protection 10	Math Result	GG	11556	Float	4	R	n/a	-999999 - 999999
Configurable Protection 11	Math Result	GG	11558	Float	4	R	n/a	-999999 - 999999
Configurable Protection 12	Math Result	GG	11560	Float	4	R	n/a	-999999 - 999999
Configurable Protection 13	Math Result	GG	11562	Float	4	R	n/a	-999999 - 999999
Configurable Protection 14	Math Result	GG	11564	Float	4	R	n/a	-999999 - 999999
Configurable Protection 15	Math Result	GG	11566	Float	4	R	n/a	-999999 - 999999
Configurable Protection 16	Math Result	GG	11568	Float	4	R	n/a	-999999 - 999999
Configurable Protection 17	Math Result	GG	11570	Float	4	R	n/a	-999999 - 999999
Configurable Protection 18	Math Result	GG	11572	Float	4	R	n/a	-999999 - 999999
Configurable Protection 19	Math Result	GG	11574	Float	4	R	n/a	-999999 - 999999
Configurable Protection 20	Math Result	GG	11576	Float	4	R	n/a	-999999 - 999999
Configurable Protection 21	Math Result	GG	11578	Float	4	R	n/a	-999999 - 999999
Configurable Protection 22	Math Result	GG	11580	Float	4	R	n/a	-999999 - 999999
Configurable Protection 23	Math Result	GG	11582	Float	4	R	n/a	-999999 - 999999
Configurable Protection 24	Math Result	GG	11584	Float	4	R	n/a	-999999 - 999999
Configurable Protection 25	Math Result	GG	11586	Float	4	R	n/a	-999999 - 999999
Configurable Protection 26	Math Result	GG	11588	Float	4	R	n/a	-999999 - 999999
Configurable Protection 27	Math Result	GG	11590	Float	4	R	n/a	-999999 - 999999
Configurable Protection 28	Math Result	GG	11592	Float	4	R	n/a	-999999 - 999999
Configurable Protection 29	Math Result	GG	11594	Float	4	R	n/a	-999999 - 999999
Configurable Protection 30	Math Result	GG	11596	Float	4	R	n/a	-999999 - 999999
Configurable Protection 31	Math Result	GG	11598	Float	4	R	n/a	-999999 - 999999
Configurable Protection 32	Math Result	GG	11600	Float	4	R	n/a	-999999 - 999999
Independent Meter 1	Field Voltage	GG	11602	Float	4	R	Volt	-1000 - 1000
Independent Meter 1	Field Current	GG	11604	Float	4	R	Amp	-1000 - 1000
Independent Meter 1	VRM EDM Ripple	GG	11606	Float	4	R	Amp	-1000 - 1000
Independent Meter 1	VRM Control Output	GG	11608	Float	4	R	n/a	n/a
Independent Meter 1	VRM Tracking Error	GG	11610	Float	4	R	Percent	n/a
Independent Meter 1	VRM AVR Active Setpoint	GG	11612	Float	4	R	Volt	1 - 999999
Independent Meter 1	VRM FCR Active Setpoint	GG	11614	Float	4	R	Amp	0 - 3.5
Independent Meter 1	VRM AVR Error	GG	11616	Float	4	R	n/a	n/a
Independent Meter 1	VRM FCR Error	GG	11618	Float	4	R	n/a	n/a
Independent Meter 1	VRM OEL Reference	GG	11620	Float	4	R	n/a	n/a
Independent Meter 1	VRM OEL Takeover Error	GG	11622	Float	4	R	n/a	n/a
Independent Meter 1	VRM OEL Summing Error	GG	11624	Float	4	R	n/a	n/a
Independent Meter 1	VRM OEL Summing Output	GG	11626	Float	4	R	n/a	n/a
Independent Meter 1	VRM UEL Reference	GG	11628	Float	4	R	n/a	n/a
Independent Meter 1	VRM UEL Error	GG	11630	Float	4	R	n/a	n/a
Independent Meter 1	VRM UEL Output	GG	11632	Float	4	R	n/a	n/a
Independent Meter 1	VRM AVR Final Reference	GG	11634	Float	4	R	Volt	1 - 999999
Independent Meter 1	VRM FCR Final Reference	GG	11636	Float	4	R	Amp	0 - 3.5
Independent Meter 1	Active Islanded Baseload Level	GG	11638	Float	4	R	Percent	0 - 100
Independent Meter 1	Active Voltage Trim Setpoint	GG	11640	Float	4	R	Volt	1 - 999999
Independent Meter 1	Active Speed Trim Setpoint	GG	11642	Float	4	R	Hertz	47 - 100
Independent Meter 1	Oil Pressure, Raw	GG	11644	Float	4	R	PSI	n/a
VRM 1 Metering	RTD Input 1 Raw Value	GG	11646	Float	4	R	Ohm	n/a
VRM 1 Metering	RTD Input 2 Raw Value	GG	11648	Float	4	R	Ohm	n/a

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
VRM 1 Metering	RTD Input 3 Raw Value	GG	11650	Float	4	R	Ohm	n/a
VRM 1 Metering	RTD Input 4 Raw Value	GG	11652	Float	4	R	Ohm	n/a
VRM 1 Metering	RTD Input 5 Raw Value	GG	11654	Float	4	R	Ohm	n/a
VRM 1 Metering	RTD Input 6 Raw Value	GG	11656	Float	4	R	Ohm	n/a
VRM 1 Metering	RTD Input 7 Raw Value	GG	11658	Float	4	R	Ohm	n/a
VRM 1 Metering	RTD Input 8 Raw Value	GG	11660	Float	4	R	Ohm	n/a
VRM 1 Metering	RTD Input 1 Scaled Value	GG	11662	Float	4	R	Deg F	n/a
VRM 1 Metering	RTD Input 2 Scaled Value	GG	11664	Float	4	R	Deg F	n/a
VRM 1 Metering	RTD Input 3 Scaled Value	GG	11666	Float	4	R	Deg F	n/a
VRM 1 Metering	RTD Input 4 Scaled Value	GG	11668	Float	4	R	Deg F	n/a
VRM 1 Metering	RTD Input 5 Scaled Value	GG	11670	Float	4	R	Deg F	n/a
VRM 1 Metering	RTD Input 6 Scaled Value	GG	11672	Float	4	R	Deg F	n/a
VRM 1 Metering	RTD Input 7 Scaled Value	GG	11674	Float	4	R	Deg F	n/a
VRM 1 Metering	RTD Input 8 Scaled Value	GG	11676	Float	4	R	Deg F	n/a
Baseload Level	Active Setpoint	GG	11678	Float	4	R W	Percent	0 - 100
Island Baseload Level	Active Setpoint	GG	11680	Float	4	R W	Percent	0 - 100
Kvar Setpoint	Active Setpoint	GG	11682	Float	4	R W	Percent	0 - 100
PF Setpoint	Active Setpoint	GG	11684	Float	4	R W	Percent	0 - 100
J1939 Params	Isuzu Urea Level Tank 1	GG	11686	Uint32	4	R	Percent	<u>Data Range</u> 0 to 102% <u>Raw ECU Parameter Data</u> 0.4 %/bit gain, 0% offset
J1939 Params	Isuzu Inducement Level	GG	11688	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0- Normal Operation 1- Warning 2- Early Inducement 3- (Not Defined) 4- Final Inducement
J1939 Params	Isuzu Refill DEF Lamp	GG	11690	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0- Lamp Off 1- Lamp On
J1939 Params	Isuzu Exhaust System Lamp	GG	11692	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0- Lamp Off 1- Lamp On
J1939 Params	Isuzu No Power Lamp	GG	11694	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0- Lamp Off 1- Lamp On
J1939 Params	Isuzu Escape Mode Lamp	GG	11696	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0- Lamp Off 1- Lamp On
J1939 Params	Isuzu Amber Lamp Status	GG	11698	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0- Lamp Off 1- Lamp On 2- Slow Flash 3- Fast Flash
J1939 Params	Isuzu Green Lamp Status	GG	11700	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0- Lamp Off 1- Lamp On
J1939 Params	Isuzu DPF Mode	GG	11702	Uint32	4	R	n/a	<u>Data Range</u> 0 to 999 <u>Raw ECU Parameter Data</u> No gain or Offset
J1939 Params	Battery Charger 1 Voltage	GG	11704	Uint32	4	R	Volts	<u>Data Range:</u> 0 to 3212.75 V <u>Raw ECU Parameter Data</u> 0.05 V/bit Gain, 0.00 Offset
J1939 Params	Battery Charger 1 Current	GG	11706	Uint32	4	R	Amps	<u>Data Range:</u> -1600.0 to + 1612.75 A <u>Raw ECU Parameter Data</u> 0.05 V/bit Gain, 1600.00 Offset
J1939 Params	Battery Charger 1 State	GG	11708	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0- Idle (Output Off) 1- Charging (Boost) 2- Charging (Float) 3- 12 Reserved 14- Charger Failure 15- No Status Available
J1939 Params	Battery Charger 1 AC Power Line State	GG	11710	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0- Fail 1- Ok 2- Internal Error 3- No Status Available
J1939 Params	Battery Charger 1 Voltage	GG	11712	Uint32	4	R	Volts	<u>Data Range</u> 0 to 3212.75 V <u>Raw ECU Parameter Data</u> 0.05 V/bit Gain, 0.00 Offset

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
J1939 Params	Battery Charger 1 Current	GG	11714	Uint32	4	R	Amps	<u>Data Range</u> -1600.0 to +1612.75 A <u>Raw ECU Parameter Data</u> 0.05 V/bit Gain, 1600.00 Offset
J1939 Params	Battery Charger 1 State	GG	11716	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0- Idle (Output Off) 1- Charging (Boost) 2- Charging (Float) 3- 12 Reserved 14- Charger Failure 15- No Status Available
J1939 Params	Battery Charger 1 AC Power Line State	GG	11718	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0- Fail 1- Ok 2- Internal Error 3- No Status Available
J1939 Params	Battery 1 Temperature	GG	11720	Uint32	4	R	Degrees C	<u>Data Range</u> -40 to 210 degC <u>Raw ECU Parameter Data</u> 1.0 degC/bit Gain, 40.0 Offset
J1939 Params	Battery 2 Temperature	GG	11722	Uint32	4	R	Degrees C	<u>Data Range:</u> -40 to 210 degC <u>Raw ECU Parameter Data</u> 1.0 degC/bit Gain, 40.0 Offset
J1939 Params	Reserved		11724-35					
J1939 Params	Crank Case Pressure	GG	11736	Uint32	4	R	kpa	<u>Data Range</u> -250 to +251.99 kPa <u>Raw ECU Parameter Data</u> 0.0078125 kPa/bit gain, -250 kPa offset
J1939 Params	Fuel Filter Differential Pressure	GG	11738	Uint32	4	R	kpa	<u>Data Range</u> 0 to 125 kPa <u>Raw ECU Parameter Data</u> 0.5 kPa/bit gain, 0 offset
J1939 Params	Oil Filter Differential Pressure	GG	11740	Uint32	4	R	kpa	<u>Data Range</u> -250 to +251.99 kPa <u>Raw ECU Parameter Data</u> 0.0078125 kPa/bit gain, -250 kPa offset
J1939 Params	Engine Hours from Engine Hours Revolutions PGN	GG	11742	Uint32	4	R	Hours	<u>Data Range</u> 0 to 210,554,060.75 hr <u>Raw ECU Parameter Data</u> 0.05 hr/bit Gain, 0.0 Offset
J1939 Params	Engine Hours from ECU History PGN	GG	11744	Uint32	4	R	Hours	<u>Data Range</u> 0 to 210,554,060.75 hr <u>Raw ECU Parameter Data</u> 0.05 hr/bit Gain, 0.0 Offset
J1939 Params	Daimler Torque Limit Lamp	GG	11746	Uint32	4	R	n/a	<u>Raw ECU Parameter Data</u> 0- Off 1- On 2- Slow Blinking (1Hz) 3- Fast Blinking (2Hz)
Independent Meter 1	Battery Charger 1 State	GG	11748	Float	4	R	n/a	0- Idle (Output Off) 1- Charging (Boost) 2- Charging (Float) 3- 12 Reserved 14- Charger Failure
Independent Meter 1	Battery Charger 1 AC State	GG	11750	Float	4	R	n/a	0- Fail 1- Ok 2- Internal Error
Independent Meter 1	Battery Charger 2 State	GG	11752	Float	4	R	n/a	0- Idle (Output Off) 1- Charging (Boost) 2- Charging (Float) 3- 12 Reserved 14- Charger Failure
Independent Meter 1	Battery Charger 2 AC State	GG	11754	Float	4	R	n/a	0- Fail 1- Ok 2- Internal Error
Independent Meter 1	Battery Charger 1 Voltage	GG	11756	Float	4	R	Volt	0 - 3212.75
Independent Meter 1	Battery Charger 1 Current	GG	11758	Float	4	R	Amp	-1600 - 1612.75
Independent Meter 1	Battery Charger 1 Temperature	GG	11760	Float	4	R	Degrees C	-40 - 210
Independent Meter 1	Battery Charger 2 Voltage	GG	11762	Float	4	R	Volt	0 - 3212.75
Independent Meter 1	Battery Charger 2 Current	GG	11764	Float	4	R	Amp	-1600 - 1612.75
Independent Meter 1	Battery Charger 2 Temperature	GG	11766	Float	4	R	Degrees C	-40 - 210
Independent Meter 1	Oil Pressure Sender Ohms	GG	11768	Float	4	R	Ohm	0 - 10000
Independent Meter 1	Coolant Temperature Sender Ohms	GG	11770	Float	4	R	Ohm	0 - 10000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Independent Meter 1	Fuel Level Sender Ohms	GG	11772	Float	4	R	Ohm	0 - 10000

Protection Settings Register Table

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
27P-1	Mode	SG0 1P	20000	UInt32	4	R W	n/a	Disabled=0 Enabled=1
27P-1	Source	SG0 1P	20002	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-1	Pickup	SG0 1P	20004	Float	4	R W	Volt	0 or 1 - 1000
27P-1	Time Delay	SG0 1P	20006	Float	4	R W	Millisecond	0 - 600000
27P-1	Alarm Configuration	SG0 1P	20008	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-1	Low-Line Scale	SG0 1P	20010	Float	4	R W	n/a	0.001 - 3
27P-1	Frequency Inhibit	SG0 1P	20012	Float	4	R W	Hertz	0 or 20 - 90
27P-1	Mode	SG0 3P	20014	UInt32	4	R W	n/a	Disabled=0 Enabled=1
27P-1	Source	SG0 3P	20016	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-1	Pickup	SG0 3P	20018	Float	4	R W	Volt	0 or 1 - 1000
27P-1	Time Delay	SG0 3P	20020	Float	4	R W	Millisecond	0 - 600000
27P-1	Alarm Configuration	SG0 3P	20022	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-1	Low-Line Scale	SG0 3P	20024	Float	4	R W	n/a	0.001 - 3
27P-1	Frequency Inhibit	SG0 3P	20026	Float	4	R W	Hertz	0 or 20 - 90
27P-1	Mode	SG1 1P	20028	UInt32	4	R W	n/a	Disabled=0 Enabled=1
27P-1	Source	SG1 1P	20030	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-1	Pickup	SG1 1P	20032	Float	4	R W	Volt	0 or 1 - 1000
27P-1	Time Delay	SG1 1P	20034	Float	4	R W	Millisecond	0 - 600000
27P-1	Alarm Configuration	SG1 1P	20036	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-1	Low-Line Scale	SG1 1P	20038	Float	4	R W	n/a	0.001 - 3
27P-1	Frequency Inhibit	SG1 1P	20040	Float	4	R W	Hertz	0 or 20 - 90
27P-1	Mode	SG1 3P	20042	UInt32	4	R W	n/a	Disabled=0 Enabled=1
27P-1	Source	SG1 3P	20044	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-1	Pickup	SG1 3P	20046	Float	4	R W	Volt	0 or 1 - 1000
27P-1	Time Delay	SG1 3P	20048	Float	4	R W	Millisecond	0 - 600000
27P-1	Alarm Configuration	SG1 3P	20050	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-1	Low-Line Scale	SG1 3P	20052	Float	4	R W	n/a	0.001 - 3
27P-1	Frequency Inhibit	SG1 3P	20054	Float	4	R W	Hertz	0 or 20 - 90
27P-1	Mode	SG2 1P	20056	UInt32	4	R W	n/a	Disabled=0 Enabled=1
27P-1	Source	SG2 1P	20058	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-1	Pickup	SG2 1P	20060	Float	4	R W	Volt	0 or 1 - 1000
27P-1	Time Delay	SG2 1P	20062	Float	4	R W	Millisecond	0 - 600000
27P-1	Alarm Configuration	SG2 1P	20064	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-1	Low-Line Scale	SG2 1P	20066	Float	4	R W	n/a	0.001 - 3
27P-1	Frequency Inhibit	SG2 1P	20068	Float	4	R W	Hertz	0 or 20 - 90

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
27P-1	Mode	SG2 3P	20070	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-1	Source	SG2 3P	20072	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-1	Pickup	SG2 3P	20074	Float	4	R W	Volt	0 or 1 - 1000
27P-1	Time Delay	SG2 3P	20076	Float	4	R W	Millisecond	0 - 600000
27P-1	Alarm Configuration	SG2 3P	20078	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-1	Low-Line Scale	SG2 3P	20080	Float	4	R W	n/a	0.001 - 3
27P-1	Frequency Inhibit	SG2 3P	20082	Float	4	R W	Hertz	0 or 20 - 90
27P-1	Mode	SG3 1P	20084	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-1	Source	SG3 1P	20086	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-1	Pickup	SG3 1P	20088	Float	4	R W	Volt	0 or 1 - 1000
27P-1	Time Delay	SG3 1P	20090	Float	4	R W	Millisecond	0 - 600000
27P-1	Alarm Configuration	SG3 1P	20092	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-1	Low-Line Scale	SG3 1P	20094	Float	4	R W	n/a	0.001 - 3
27P-1	Frequency Inhibit	SG3 1P	20096	Float	4	R W	Hertz	0 or 20 - 90
27P-1	Mode	SG3 3P	20098	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-1	Source	SG3 3P	20100	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-1	Pickup	SG3 3P	20102	Float	4	R W	Volt	0 or 1 - 1000
27P-1	Time Delay	SG3 3P	20104	Float	4	R W	Millisecond	0 - 600000
27P-1	Alarm Configuration	SG3 3P	20106	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-1	Low-Line Scale	SG3 3P	20108	Float	4	R W	n/a	0.001 - 3
27P-1	Frequency Inhibit	SG3 3P	20110	Float	4	R W	Hertz	0 or 20 - 90
27P-2	Mode	SG0 1P	20112	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-2	Source	SG0 1P	20114	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-2	Pickup	SG0 1P	20116	Float	4	R W	Volt	0 or 1 - 1000
27P-2	Time Delay	SG0 1P	20118	Float	4	R W	Millisecond	0 - 600000
27P-2	Alarm Configuration	SG0 1P	20120	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-2	Low-Line Scale	SG0 1P	20122	Float	4	R W	n/a	0.001 - 3
27P-2	Frequency Inhibit	SG0 1P	20124	Float	4	R W	Hertz	0 or 20 - 90
27P-2	Mode	SG0 3P	20126	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-2	Source	SG0 3P	20128	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-2	Pickup	SG0 3P	20130	Float	4	R W	Volt	0 or 1 - 1000
27P-2	Time Delay	SG0 3P	20132	Float	4	R W	Millisecond	0 - 600000
27P-2	Alarm Configuration	SG0 3P	20134	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-2	Low-Line Scale	SG0 3P	20136	Float	4	R W	n/a	0.001 - 3
27P-2	Frequency Inhibit	SG0 3P	20138	Float	4	R W	Hertz	0 or 20 - 90
27P-2	Mode	SG1 1P	20140	Uint32	4	R W	n/a	Disabled=0 Enabled=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
27P-2	Source	SG1 1P	20142	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-2	Pickup	SG1 1P	20144	Float	4	R W	Volt	0 or 1 - 1000
27P-2	Time Delay	SG1 1P	20146	Float	4	R W	Millisecond	0 - 600000
27P-2	Alarm Configuration	SG1 1P	20148	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-2	Low-Line Scale	SG1 1P	20150	Float	4	R W	n/a	0.001 - 3
27P-2	Frequency Inhibit	SG1 1P	20152	Float	4	R W	Hertz	0 or 20 - 90
27P-2	Mode	SG1 3P	20154	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-2	Source	SG1 3P	20156	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-2	Pickup	SG1 3P	20158	Float	4	R W	Volt	0 or 1 - 1000
27P-2	Time Delay	SG1 3P	20160	Float	4	R W	Millisecond	0 - 600000
27P-2	Alarm Configuration	SG1 3P	20162	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-2	Low-Line Scale	SG1 3P	20164	Float	4	R W	n/a	0.001 - 3
27P-2	Frequency Inhibit	SG1 3P	20166	Float	4	R W	Hertz	0 or 20 - 90
27P-2	Mode	SG2 1P	20168	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-2	Source	SG2 1P	20170	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-2	Pickup	SG2 1P	20172	Float	4	R W	Volt	0 or 1 - 1000
27P-2	Time Delay	SG2 1P	20174	Float	4	R W	Millisecond	0 - 600000
27P-2	Alarm Configuration	SG2 1P	20176	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-2	Low-Line Scale	SG2 1P	20178	Float	4	R W	n/a	0.001 - 3
27P-2	Frequency Inhibit	SG2 1P	20180	Float	4	R W	Hertz	0 or 20 - 90
27P-2	Mode	SG2 3P	20182	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-2	Source	SG2 3P	20184	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-2	Pickup	SG2 3P	20186	Float	4	R W	Volt	0 or 1 - 1000
27P-2	Time Delay	SG2 3P	20188	Float	4	R W	Millisecond	0 - 600000
27P-2	Alarm Configuration	SG2 3P	20190	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-2	Low-Line Scale	SG2 3P	20192	Float	4	R W	n/a	0.001 - 3
27P-2	Frequency Inhibit	SG2 3P	20194	Float	4	R W	Hertz	0 or 20 - 90
27P-2	Mode	SG3 1P	20196	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-2	Source	SG3 1P	20198	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-2	Pickup	SG3 1P	20200	Float	4	R W	Volt	0 or 1 - 1000
27P-2	Time Delay	SG3 1P	20202	Float	4	R W	Millisecond	0 - 600000
27P-2	Alarm Configuration	SG3 1P	20204	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-2	Low-Line Scale	SG3 1P	20206	Float	4	R W	n/a	0.001 - 3
27P-2	Frequency Inhibit	SG3 1P	20208	Float	4	R W	Hertz	0 or 20 - 90
27P-2	Mode	SG3 3P	20210	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-2	Source	SG3 3P	20212	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-2	Pickup	SG3 3P	20214	Float	4	R W	Volt	0 or 1 - 1000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
27P-2	Time Delay	SG3 3P	20216	Float	4	R W	Millisecond	0 - 600000
27P-2	Alarm Configuration	SG3 3P	20218	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-2	Low-Line Scale	SG3 3P	20220	Float	4	R W	n/a	0.001 - 3
27P-2	Frequency Inhibit	SG3 3P	20222	Float	4	R W	Hertz	0 or 20 - 90
27P-3	Mode	SG0 1P	20224	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-3	Source	SG0 1P	20226	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-3	Pickup	SG0 1P	20228	Float	4	R W	Volt	0 or 1 - 1000
27P-3	Time Delay	SG0 1P	20230	Float	4	R W	Millisecond	0 - 600000
27P-3	Alarm Configuration	SG0 1P	20232	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-3	Low-Line Scale	SG0 1P	20234	Float	4	R W	n/a	0.001 - 3
27P-3	Frequency Inhibit	SG0 1P	20236	Float	4	R W	Hertz	0 or 20 - 90
27P-3	Mode	SG0 3P	20238	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-3	Source	SG0 3P	20240	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-3	Pickup	SG0 3P	20242	Float	4	R W	Volt	0 or 1 - 1000
27P-3	Time Delay	SG0 3P	20244	Float	4	R W	Millisecond	0 - 600000
27P-3	Alarm Configuration	SG0 3P	20246	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-3	Low-Line Scale	SG0 3P	20248	Float	4	R W	n/a	0.001 - 3
27P-3	Frequency Inhibit	SG0 3P	20250	Float	4	R W	Hertz	0 or 20 - 90
27P-3	Mode	SG1 1P	20252	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-3	Source	SG1 1P	20254	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-3	Pickup	SG1 1P	20256	Float	4	R W	Volt	0 or 1 - 1000
27P-3	Time Delay	SG1 1P	20258	Float	4	R W	Millisecond	0 - 600000
27P-3	Alarm Configuration	SG1 1P	20260	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-3	Low-Line Scale	SG1 1P	20262	Float	4	R W	n/a	0.001 - 3
27P-3	Frequency Inhibit	SG1 1P	20264	Float	4	R W	Hertz	0 or 20 - 90
27P-3	Mode	SG1 3P	20266	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-3	Source	SG1 3P	20268	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-3	Pickup	SG1 3P	20270	Float	4	R W	Volt	0 or 1 - 1000
27P-3	Time Delay	SG1 3P	20272	Float	4	R W	Millisecond	0 - 600000
27P-3	Alarm Configuration	SG1 3P	20274	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-3	Low-Line Scale	SG1 3P	20276	Float	4	R W	n/a	0.001 - 3
27P-3	Frequency Inhibit	SG1 3P	20278	Float	4	R W	Hertz	0 or 20 - 90
27P-3	Mode	SG2 1P	20280	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-3	Source	SG2 1P	20282	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-3	Pickup	SG2 1P	20284	Float	4	R W	Volt	0 or 1 - 1000
27P-3	Time Delay	SG2 1P	20286	Float	4	R W	Millisecond	0 - 600000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
27P-3	Alarm Configuration	SG2 1P	20288	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-3	Low-Line Scale	SG2 1P	20290	Float	4	R W	n/a	0.001 - 3
27P-3	Frequency Inhibit	SG2 1P	20292	Float	4	R W	Hertz	0 or 20 - 90
27P-3	Mode	SG2 3P	20294	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-3	Source	SG2 3P	20296	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-3	Pickup	SG2 3P	20298	Float	4	R W	Volt	0 or 1 - 1000
27P-3	Time Delay	SG2 3P	20300	Float	4	R W	Millisecond	0 - 600000
27P-3	Alarm Configuration	SG2 3P	20302	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-3	Low-Line Scale	SG2 3P	20304	Float	4	R W	n/a	0.001 - 3
27P-3	Frequency Inhibit	SG2 3P	20306	Float	4	R W	Hertz	0 or 20 - 90
27P-3	Mode	SG3 1P	20308	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-3	Source	SG3 1P	20310	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-3	Pickup	SG3 1P	20312	Float	4	R W	Volt	0 or 1 - 1000
27P-3	Time Delay	SG3 1P	20314	Float	4	R W	Millisecond	0 - 600000
27P-3	Alarm Configuration	SG3 1P	20316	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-3	Low-Line Scale	SG3 1P	20318	Float	4	R W	n/a	0.001 - 3
27P-3	Frequency Inhibit	SG3 1P	20320	Float	4	R W	Hertz	0 or 20 - 90
27P-3	Mode	SG3 3P	20322	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-3	Source	SG3 3P	20324	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-3	Pickup	SG3 3P	20326	Float	4	R W	Volt	0 or 1 - 1000
27P-3	Time Delay	SG3 3P	20328	Float	4	R W	Millisecond	0 - 600000
27P-3	Alarm Configuration	SG3 3P	20330	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-3	Low-Line Scale	SG3 3P	20332	Float	4	R W	n/a	0.001 - 3
27P-3	Frequency Inhibit	SG3 3P	20334	Float	4	R W	Hertz	0 or 20 - 90
27P-4	Mode	SG0 1P	20336	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-4	Source	SG0 1P	20338	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-4	Pickup	SG0 1P	20340	Float	4	R W	Volt	0 or 1 - 1000
27P-4	Time Delay	SG0 1P	20342	Float	4	R W	Millisecond	0 - 600000
27P-4	Alarm Configuration	SG0 1P	20344	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-4	Low-Line Scale	SG0 1P	20346	Float	4	R W	n/a	0.001 - 3
27P-4	Frequency Inhibit	SG0 1P	20348	Float	4	R W	Hertz	0 or 20 - 90
27P-4	Mode	SG0 3P	20350	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-4	Source	SG0 3P	20352	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-4	Pickup	SG0 3P	20354	Float	4	R W	Volt	0 or 1 - 1000
27P-4	Time Delay	SG0 3P	20356	Float	4	R W	Millisecond	0 - 600000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
27P-4	Alarm Configuration	SG0 3P	20358	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-4	Low-Line Scale	SG0 3P	20360	Float	4	R W	n/a	0.001 - 3
27P-4	Frequency Inhibit	SG0 3P	20362	Float	4	R W	Hertz	0 or 20 - 90
27P-4	Mode	SG1 1P	20364	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-4	Source	SG1 1P	20366	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-4	Pickup	SG1 1P	20368	Float	4	R W	Volt	0 or 1 - 1000
27P-4	Time Delay	SG1 1P	20370	Float	4	R W	Millisecond	0 - 600000
27P-4	Alarm Configuration	SG1 1P	20372	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-4	Low-Line Scale	SG1 1P	20374	Float	4	R W	n/a	0.001 - 3
27P-4	Frequency Inhibit	SG1 1P	20376	Float	4	R W	Hertz	0 or 20 - 90
27P-4	Mode	SG1 3P	20378	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-4	Source	SG1 3P	20380	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-4	Pickup	SG1 3P	20382	Float	4	R W	Volt	0 or 1 - 1000
27P-4	Time Delay	SG1 3P	20384	Float	4	R W	Millisecond	0 - 600000
27P-4	Alarm Configuration	SG1 3P	20386	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-4	Low-Line Scale	SG1 3P	20388	Float	4	R W	n/a	0.001 - 3
27P-4	Frequency Inhibit	SG1 3P	20390	Float	4	R W	Hertz	0 or 20 - 90
27P-4	Mode	SG2 1P	20392	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-4	Source	SG2 1P	20394	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-4	Pickup	SG2 1P	20396	Float	4	R W	Volt	0 or 1 - 1000
27P-4	Time Delay	SG2 1P	20398	Float	4	R W	Millisecond	0 - 600000
27P-4	Alarm Configuration	SG2 1P	20400	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-4	Low-Line Scale	SG2 1P	20402	Float	4	R W	n/a	0.001 - 3
27P-4	Frequency Inhibit	SG2 1P	20404	Float	4	R W	Hertz	0 or 20 - 90
27P-4	Mode	SG2 3P	20406	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-4	Source	SG2 3P	20408	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-4	Pickup	SG2 3P	20410	Float	4	R W	Volt	0 or 1 - 1000
27P-4	Time Delay	SG2 3P	20412	Float	4	R W	Millisecond	0 - 600000
27P-4	Alarm Configuration	SG2 3P	20414	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-4	Low-Line Scale	SG2 3P	20416	Float	4	R W	n/a	0.001 - 3
27P-4	Frequency Inhibit	SG2 3P	20418	Float	4	R W	Hertz	0 or 20 - 90
27P-4	Mode	SG3 1P	20420	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-4	Source	SG3 1P	20422	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-4	Pickup	SG3 1P	20424	Float	4	R W	Volt	0 or 1 - 1000
27P-4	Time Delay	SG3 1P	20426	Float	4	R W	Millisecond	0 - 600000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
27P-4	Alarm Configuration	SG3 1P	20428	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-4	Low-Line Scale	SG3 1P	20430	Float	4	R W	n/a	0.001 - 3
27P-4	Frequency Inhibit	SG3 1P	20432	Float	4	R W	Hertz	0 or 20 - 90
27P-4	Mode	SG3 3P	20434	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-4	Source	SG3 3P	20436	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-4	Pickup	SG3 3P	20438	Float	4	R W	Volt	0 or 1 - 1000
27P-4	Time Delay	SG3 3P	20440	Float	4	R W	Millisecond	0 - 600000
27P-4	Alarm Configuration	SG3 3P	20442	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-4	Low-Line Scale	SG3 3P	20444	Float	4	R W	n/a	0.001 - 3
27P-4	Frequency Inhibit	SG3 3P	20446	Float	4	R W	Hertz	0 or 20 - 90
27P-5	Mode	SG0 1P	20448	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-5	Source	SG0 1P	20450	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-5	Pickup	SG0 1P	20452	Float	4	R W	Volt	0 or 1 - 1000
27P-5	Time Delay	SG0 1P	20454	Float	4	R W	Millisecond	0 - 600000
27P-5	Alarm Configuration	SG0 1P	20456	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-5	Low-Line Scale	SG0 1P	20458	Float	4	R W	n/a	0.001 - 3
27P-5	Frequency Inhibit	SG0 1P	20460	Float	4	R W	Hertz	0 or 20 - 90
27P-5	Mode	SG0 3P	20462	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-5	Source	SG0 3P	20464	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-5	Pickup	SG0 3P	20466	Float	4	R W	Volt	0 or 1 - 1000
27P-5	Time Delay	SG0 3P	20468	Float	4	R W	Millisecond	0 - 600000
27P-5	Alarm Configuration	SG0 3P	20470	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-5	Low-Line Scale	SG0 3P	20472	Float	4	R W	n/a	0.001 - 3
27P-5	Frequency Inhibit	SG0 3P	20474	Float	4	R W	Hertz	0 or 20 - 90
27P-5	Mode	SG1 1P	20476	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-5	Source	SG1 1P	20478	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-5	Pickup	SG1 1P	20480	Float	4	R W	Volt	0 or 1 - 1000
27P-5	Time Delay	SG1 1P	20482	Float	4	R W	Millisecond	0 - 600000
27P-5	Alarm Configuration	SG1 1P	20484	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-5	Low-Line Scale	SG1 1P	20486	Float	4	R W	n/a	0.001 - 3
27P-5	Frequency Inhibit	SG1 1P	20488	Float	4	R W	Hertz	0 or 20 - 90
27P-5	Mode	SG1 3P	20490	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-5	Source	SG1 3P	20492	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-5	Pickup	SG1 3P	20494	Float	4	R W	Volt	0 or 1 - 1000
27P-5	Time Delay	SG1 3P	20496	Float	4	R W	Millisecond	0 - 600000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
27P-5	Alarm Configuration	SG1 3P	20498	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-5	Low-Line Scale	SG1 3P	20500	Float	4	R W	n/a	0.001 - 3
27P-5	Frequency Inhibit	SG1 3P	20502	Float	4	R W	Hertz	0 or 20 - 90
27P-5	Mode	SG2 1P	20504	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-5	Source	SG2 1P	20506	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-5	Pickup	SG2 1P	20508	Float	4	R W	Volt	0 or 1 - 1000
27P-5	Time Delay	SG2 1P	20510	Float	4	R W	Millisecond	0 - 600000
27P-5	Alarm Configuration	SG2 1P	20512	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-5	Low-Line Scale	SG2 1P	20514	Float	4	R W	n/a	0.001 - 3
27P-5	Frequency Inhibit	SG2 1P	20516	Float	4	R W	Hertz	0 or 20 - 90
27P-5	Mode	SG2 3P	20518	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-5	Source	SG2 3P	20520	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-5	Pickup	SG2 3P	20522	Float	4	R W	Volt	0 or 1 - 1000
27P-5	Time Delay	SG2 3P	20524	Float	4	R W	Millisecond	0 - 600000
27P-5	Alarm Configuration	SG2 3P	20526	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-5	Low-Line Scale	SG2 3P	20528	Float	4	R W	n/a	0.001 - 3
27P-5	Frequency Inhibit	SG2 3P	20530	Float	4	R W	Hertz	0 or 20 - 90
27P-5	Mode	SG3 1P	20532	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-5	Source	SG3 1P	20534	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-5	Pickup	SG3 1P	20536	Float	4	R W	Volt	0 or 1 - 1000
27P-5	Time Delay	SG3 1P	20538	Float	4	R W	Millisecond	0 - 600000
27P-5	Alarm Configuration	SG3 1P	20540	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-5	Low-Line Scale	SG3 1P	20542	Float	4	R W	n/a	0.001 - 3
27P-5	Frequency Inhibit	SG3 1P	20544	Float	4	R W	Hertz	0 or 20 - 90
27P-5	Mode	SG3 3P	20546	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-5	Source	SG3 3P	20548	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-5	Pickup	SG3 3P	20550	Float	4	R W	Volt	0 or 1 - 1000
27P-5	Time Delay	SG3 3P	20552	Float	4	R W	Millisecond	0 - 600000
27P-5	Alarm Configuration	SG3 3P	20554	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-5	Low-Line Scale	SG3 3P	20556	Float	4	R W	n/a	0.001 - 3
27P-5	Frequency Inhibit	SG3 3P	20558	Float	4	R W	Hertz	0 or 20 - 90
27P-6	Mode	SG0 1P	20560	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-6	Source	SG0 1P	20562	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-6	Pickup	SG0 1P	20564	Float	4	R W	Volt	0 or 1 - 1000
27P-6	Time Delay	SG0 1P	20566	Float	4	R W	Millisecond	0 - 600000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
27P-6	Alarm Configuration	SG0 1P	20568	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-6	Low-Line Scale	SG0 1P	20570	Float	4	R W	n/a	0.001 - 3
27P-6	Frequency Inhibit	SG0 1P	20572	Float	4	R W	Hertz	0 or 20 - 90
27P-6	Mode	SG0 3P	20574	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-6	Source	SG0 3P	20576	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-6	Pickup	SG0 3P	20578	Float	4	R W	Volt	0 or 1 - 1000
27P-6	Time Delay	SG0 3P	20580	Float	4	R W	Millisecond	0 - 600000
27P-6	Alarm Configuration	SG0 3P	20582	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-6	Low-Line Scale	SG0 3P	20584	Float	4	R W	n/a	0.001 - 3
27P-6	Frequency Inhibit	SG0 3P	20586	Float	4	R W	Hertz	0 or 20 - 90
27P-6	Mode	SG1 1P	20588	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-6	Source	SG1 1P	20590	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-6	Pickup	SG1 1P	20592	Float	4	R W	Volt	0 or 1 - 1000
27P-6	Time Delay	SG1 1P	20594	Float	4	R W	Millisecond	0 - 600000
27P-6	Alarm Configuration	SG1 1P	20596	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-6	Low-Line Scale	SG1 1P	20598	Float	4	R W	n/a	0.001 - 3
27P-6	Frequency Inhibit	SG1 1P	20600	Float	4	R W	Hertz	0 or 20 - 90
27P-6	Mode	SG1 3P	20602	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-6	Source	SG1 3P	20604	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-6	Pickup	SG1 3P	20606	Float	4	R W	Volt	0 or 1 - 1000
27P-6	Time Delay	SG1 3P	20608	Float	4	R W	Millisecond	0 - 600000
27P-6	Alarm Configuration	SG1 3P	20610	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-6	Low-Line Scale	SG1 3P	20612	Float	4	R W	n/a	0.001 - 3
27P-6	Frequency Inhibit	SG1 3P	20614	Float	4	R W	Hertz	0 or 20 - 90
27P-6	Mode	SG2 1P	20616	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-6	Source	SG2 1P	20618	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-6	Pickup	SG2 1P	20620	Float	4	R W	Volt	0 or 1 - 1000
27P-6	Time Delay	SG2 1P	20622	Float	4	R W	Millisecond	0 - 600000
27P-6	Alarm Configuration	SG2 1P	20624	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-6	Low-Line Scale	SG2 1P	20626	Float	4	R W	n/a	0.001 - 3
27P-6	Frequency Inhibit	SG2 1P	20628	Float	4	R W	Hertz	0 or 20 - 90
27P-6	Mode	SG2 3P	20630	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-6	Source	SG2 3P	20632	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-6	Pickup	SG2 3P	20634	Float	4	R W	Volt	0 or 1 - 1000
27P-6	Time Delay	SG2 3P	20636	Float	4	R W	Millisecond	0 - 600000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
27P-6	Alarm Configuration	SG2 3P	20638	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-6	Low-Line Scale	SG2 3P	20640	Float	4	R W	n/a	0.001 - 3
27P-6	Frequency Inhibit	SG2 3P	20642	Float	4	R W	Hertz	0 or 20 - 90
27P-6	Mode	SG3 1P	20644	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-6	Source	SG3 1P	20646	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-6	Pickup	SG3 1P	20648	Float	4	R W	Volt	0 or 1 - 1000
27P-6	Time Delay	SG3 1P	20650	Float	4	R W	Millisecond	0 - 600000
27P-6	Alarm Configuration	SG3 1P	20652	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-6	Low-Line Scale	SG3 1P	20654	Float	4	R W	n/a	0.001 - 3
27P-6	Frequency Inhibit	SG3 1P	20656	Float	4	R W	Hertz	0 or 20 - 90
27P-6	Mode	SG3 3P	20658	Uint32	4	R W	n/a	Disabled=0 Enabled=1
27P-6	Source	SG3 3P	20660	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
27P-6	Pickup	SG3 3P	20662	Float	4	R W	Volt	0 or 1 - 1000
27P-6	Time Delay	SG3 3P	20664	Float	4	R W	Millisecond	0 - 600000
27P-6	Alarm Configuration	SG3 3P	20666	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
27P-6	Low-Line Scale	SG3 3P	20668	Float	4	R W	n/a	0.001 - 3
27P-6	Frequency Inhibit	SG3 3P	20670	Float	4	R W	Hertz	0 or 20 - 90
59P-1	Mode	SG0 1P	20672	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-1	Source	SG0 1P	20674	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-1	Pickup	SG0 1P	20676	Float	4	R W	Volt	0 or 1 - 1000
59P-1	Time Delay	SG0 1P	20678	Float	4	R W	Millisecond	0 - 600000
59P-1	Alarm Configuration	SG0 1P	20680	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-1	Low-Line Scale	SG0 1P	20682	Float	4	R W	n/a	0.001 - 3
59P-1	Mode	SG0 3P	20684	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-1	Source	SG0 3P	20686	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-1	Pickup	SG0 3P	20688	Float	4	R W	Volt	0 or 1 - 1000
59P-1	Time Delay	SG0 3P	20690	Float	4	R W	Millisecond	0 - 600000
59P-1	Alarm Configuration	SG0 3P	20692	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-1	Low-Line Scale	SG0 3P	20694	Float	4	R W	n/a	0.001 - 3
59P-1	Mode	SG1 1P	20696	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-1	Source	SG1 1P	20698	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-1	Pickup	SG1 1P	20700	Float	4	R W	Volt	0 or 1 - 1000
59P-1	Time Delay	SG1 1P	20702	Float	4	R W	Millisecond	0 - 600000
59P-1	Alarm Configuration	SG1 1P	20704	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
59P-1	Low-Line Scale	SG1 1P	20706	Float	4	R W	n/a	0.001 - 3
59P-1	Mode	SG1 3P	20708	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-1	Source	SG1 3P	20710	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-1	Pickup	SG1 3P	20712	Float	4	R W	Volt	0 or 1 - 1000
59P-1	Time Delay	SG1 3P	20714	Float	4	R W	Millisecond	0 - 600000
59P-1	Alarm Configuration	SG1 3P	20716	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-1	Low-Line Scale	SG1 3P	20718	Float	4	R W	n/a	0.001 - 3
59P-1	Mode	SG2 1P	20720	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-1	Source	SG2 1P	20722	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-1	Pickup	SG2 1P	20724	Float	4	R W	Volt	0 or 1 - 1000
59P-1	Time Delay	SG2 1P	20726	Float	4	R W	Millisecond	0 - 600000
59P-1	Alarm Configuration	SG2 1P	20728	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-1	Low-Line Scale	SG2 1P	20730	Float	4	R W	n/a	0.001 - 3
59P-1	Mode	SG2 3P	20732	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-1	Source	SG2 3P	20734	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-1	Pickup	SG2 3P	20736	Float	4	R W	Volt	0 or 1 - 1000
59P-1	Time Delay	SG2 3P	20738	Float	4	R W	Millisecond	0 - 600000
59P-1	Alarm Configuration	SG2 3P	20740	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-1	Low-Line Scale	SG2 3P	20742	Float	4	R W	n/a	0.001 - 3
59P-1	Mode	SG3 1P	20744	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-1	Source	SG3 1P	20746	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-1	Pickup	SG3 1P	20748	Float	4	R W	Volt	0 or 1 - 1000
59P-1	Time Delay	SG3 1P	20750	Float	4	R W	Millisecond	0 - 600000
59P-1	Alarm Configuration	SG3 1P	20752	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-1	Low-Line Scale	SG3 1P	20754	Float	4	R W	n/a	0.001 - 3
59P-1	Mode	SG3 3P	20756	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-1	Source	SG3 3P	20758	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-1	Pickup	SG3 3P	20760	Float	4	R W	Volt	0 or 1 - 1000
59P-1	Time Delay	SG3 3P	20762	Float	4	R W	Millisecond	0 - 600000
59P-1	Alarm Configuration	SG3 3P	20764	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-1	Low-Line Scale	SG3 3P	20766	Float	4	R W	n/a	0.001 - 3
59P-2	Mode	SG0 1P	20768	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-2	Source	SG0 1P	20770	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-2	Pickup	SG0 1P	20772	Float	4	R W	Volt	0 or 1 - 1000
59P-2	Time Delay	SG0 1P	20774	Float	4	R W	Millisecond	0 - 600000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
59P-2	Alarm Configuration	SG0 1P	20776	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-2	Low-Line Scale	SG0 1P	20778	Float	4	R W	n/a	0.001 - 3
59P-2	Mode	SG0 3P	20780	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-2	Source	SG0 3P	20782	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-2	Pickup	SG0 3P	20784	Float	4	R W	Volt	0 or 1 - 1000
59P-2	Time Delay	SG0 3P	20786	Float	4	R W	Millisecond	0 - 600000
59P-2	Alarm Configuration	SG0 3P	20788	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-2	Low-Line Scale	SG0 3P	20790	Float	4	R W	n/a	0.001 - 3
59P-2	Mode	SG1 1P	20792	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-2	Source	SG1 1P	20794	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-2	Pickup	SG1 1P	20796	Float	4	R W	Volt	0 or 1 - 1000
59P-2	Time Delay	SG1 1P	20798	Float	4	R W	Millisecond	0 - 600000
59P-2	Alarm Configuration	SG1 1P	20800	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-2	Low-Line Scale	SG1 1P	20802	Float	4	R W	n/a	0.001 - 3
59P-2	Mode	SG1 3P	20804	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-2	Source	SG1 3P	20806	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-2	Pickup	SG1 3P	20808	Float	4	R W	Volt	0 or 1 - 1000
59P-2	Time Delay	SG1 3P	20810	Float	4	R W	Millisecond	0 - 600000
59P-2	Alarm Configuration	SG1 3P	20812	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-2	Low-Line Scale	SG1 3P	20814	Float	4	R W	n/a	0.001 - 3
59P-2	Mode	SG2 1P	20816	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-2	Source	SG2 1P	20818	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-2	Pickup	SG2 1P	20820	Float	4	R W	Volt	0 or 1 - 1000
59P-2	Time Delay	SG2 1P	20822	Float	4	R W	Millisecond	0 - 600000
59P-2	Alarm Configuration	SG2 1P	20824	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-2	Low-Line Scale	SG2 1P	20826	Float	4	R W	n/a	0.001 - 3
59P-2	Mode	SG2 3P	20828	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-2	Source	SG2 3P	20830	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-2	Pickup	SG2 3P	20832	Float	4	R W	Volt	0 or 1 - 1000
59P-2	Time Delay	SG2 3P	20834	Float	4	R W	Millisecond	0 - 600000
59P-2	Alarm Configuration	SG2 3P	20836	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-2	Low-Line Scale	SG2 3P	20838	Float	4	R W	n/a	0.001 - 3
59P-2	Mode	SG3 1P	20840	Uint32	4	R W	n/a	Disabled=0 Enabled=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
59P-2	Source	SG3 1P	20842	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-2	Pickup	SG3 1P	20844	Float	4	R W	Volt	0 or 1 - 1000
59P-2	Time Delay	SG3 1P	20846	Float	4	R W	Millisecond	0 - 600000
59P-2	Alarm Configuration	SG3 1P	20848	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-2	Low-Line Scale	SG3 1P	20850	Float	4	R W	n/a	0.001 - 3
59P-2	Mode	SG3 3P	20852	UInt32	4	R W	n/a	Disabled=0 Enabled=1
59P-2	Source	SG3 3P	20854	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-2	Pickup	SG3 3P	20856	Float	4	R W	Volt	0 or 1 - 1000
59P-2	Time Delay	SG3 3P	20858	Float	4	R W	Millisecond	0 - 600000
59P-2	Alarm Configuration	SG3 3P	20860	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-2	Low-Line Scale	SG3 3P	20862	Float	4	R W	n/a	0.001 - 3
59P-3	Mode	SG0 1P	20864	UInt32	4	R W	n/a	Disabled=0 Enabled=1
59P-3	Source	SG0 1P	20866	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-3	Pickup	SG0 1P	20868	Float	4	R W	Volt	0 or 1 - 1000
59P-3	Time Delay	SG0 1P	20870	Float	4	R W	Millisecond	0 - 600000
59P-3	Alarm Configuration	SG0 1P	20872	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-3	Low-Line Scale	SG0 1P	20874	Float	4	R W	n/a	0.001 - 3
59P-3	Mode	SG0 3P	20876	UInt32	4	R W	n/a	Disabled=0 Enabled=1
59P-3	Source	SG0 3P	20878	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-3	Pickup	SG0 3P	20880	Float	4	R W	Volt	0 or 1 - 1000
59P-3	Time Delay	SG0 3P	20882	Float	4	R W	Millisecond	0 - 600000
59P-3	Alarm Configuration	SG0 3P	20884	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-3	Low-Line Scale	SG0 3P	20886	Float	4	R W	n/a	0.001 - 3
59P-3	Mode	SG1 1P	20888	UInt32	4	R W	n/a	Disabled=0 Enabled=1
59P-3	Source	SG1 1P	20890	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-3	Pickup	SG1 1P	20892	Float	4	R W	Volt	0 or 1 - 1000
59P-3	Time Delay	SG1 1P	20894	Float	4	R W	Millisecond	0 - 600000
59P-3	Alarm Configuration	SG1 1P	20896	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-3	Low-Line Scale	SG1 1P	20898	Float	4	R W	n/a	0.001 - 3
59P-3	Mode	SG1 3P	20900	UInt32	4	R W	n/a	Disabled=0 Enabled=1
59P-3	Source	SG1 3P	20902	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-3	Pickup	SG1 3P	20904	Float	4	R W	Volt	0 or 1 - 1000
59P-3	Time Delay	SG1 3P	20906	Float	4	R W	Millisecond	0 - 600000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
59P-3	Alarm Configuration	SG1 3P	20908	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-3	Low-Line Scale	SG1 3P	20910	Float	4	R W	n/a	0.001 - 3
59P-3	Mode	SG2 1P	20912	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-3	Source	SG2 1P	20914	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-3	Pickup	SG2 1P	20916	Float	4	R W	Volt	0 or 1 - 1000
59P-3	Time Delay	SG2 1P	20918	Float	4	R W	Millisecond	0 - 600000
59P-3	Alarm Configuration	SG2 1P	20920	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-3	Low-Line Scale	SG2 1P	20922	Float	4	R W	n/a	0.001 - 3
59P-3	Mode	SG2 3P	20924	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-3	Source	SG2 3P	20926	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-3	Pickup	SG2 3P	20928	Float	4	R W	Volt	0 or 1 - 1000
59P-3	Time Delay	SG2 3P	20930	Float	4	R W	Millisecond	0 - 600000
59P-3	Alarm Configuration	SG2 3P	20932	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-3	Low-Line Scale	SG2 3P	20934	Float	4	R W	n/a	0.001 - 3
59P-3	Mode	SG3 1P	20936	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-3	Source	SG3 1P	20938	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-3	Pickup	SG3 1P	20940	Float	4	R W	Volt	0 or 1 - 1000
59P-3	Time Delay	SG3 1P	20942	Float	4	R W	Millisecond	0 - 600000
59P-3	Alarm Configuration	SG3 1P	20944	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-3	Low-Line Scale	SG3 1P	20946	Float	4	R W	n/a	0.001 - 3
59P-3	Mode	SG3 3P	20948	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-3	Source	SG3 3P	20950	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-3	Pickup	SG3 3P	20952	Float	4	R W	Volt	0 or 1 - 1000
59P-3	Time Delay	SG3 3P	20954	Float	4	R W	Millisecond	0 - 600000
59P-3	Alarm Configuration	SG3 3P	20956	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-3	Low-Line Scale	SG3 3P	20958	Float	4	R W	n/a	0.001 - 3
59P-4	Mode	SG0 1P	20960	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-4	Source	SG0 1P	20962	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-4	Pickup	SG0 1P	20964	Float	4	R W	Volt	0 or 1 - 1000
59P-4	Time Delay	SG0 1P	20966	Float	4	R W	Millisecond	0 - 600000
59P-4	Alarm Configuration	SG0 1P	20968	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-4	Low-Line Scale	SG0 1P	20970	Float	4	R W	n/a	0.001 - 3
59P-4	Mode	SG0 3P	20972	Uint32	4	R W	n/a	Disabled=0 Enabled=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
59P-4	Source	SG0 3P	20974	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-4	Pickup	SG0 3P	20976	Float	4	R W	Volt	0 or 1 - 1000
59P-4	Time Delay	SG0 3P	20978	Float	4	R W	Millisecond	0 - 600000
59P-4	Alarm Configuration	SG0 3P	20980	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-4	Low-Line Scale	SG0 3P	20982	Float	4	R W	n/a	0.001 - 3
59P-4	Mode	SG1 1P	20984	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-4	Source	SG1 1P	20986	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-4	Pickup	SG1 1P	20988	Float	4	R W	Volt	0 or 1 - 1000
59P-4	Time Delay	SG1 1P	20990	Float	4	R W	Millisecond	0 - 600000
59P-4	Alarm Configuration	SG1 1P	20992	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-4	Low-Line Scale	SG1 1P	20994	Float	4	R W	n/a	0.001 - 3
59P-4	Mode	SG1 3P	20996	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-4	Source	SG1 3P	20998	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-4	Pickup	SG1 3P	21000	Float	4	R W	Volt	0 or 1 - 1000
59P-4	Time Delay	SG1 3P	21002	Float	4	R W	Millisecond	0 - 600000
59P-4	Alarm Configuration	SG1 3P	21004	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-4	Low-Line Scale	SG1 3P	21006	Float	4	R W	n/a	0.001 - 3
59P-4	Mode	SG2 1P	21008	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-4	Source	SG2 1P	21010	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-4	Pickup	SG2 1P	21012	Float	4	R W	Volt	0 or 1 - 1000
59P-4	Time Delay	SG2 1P	21014	Float	4	R W	Millisecond	0 - 600000
59P-4	Alarm Configuration	SG2 1P	21016	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-4	Low-Line Scale	SG2 1P	21018	Float	4	R W	n/a	0.001 - 3
59P-4	Mode	SG2 3P	21020	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-4	Source	SG2 3P	21022	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-4	Pickup	SG2 3P	21024	Float	4	R W	Volt	0 or 1 - 1000
59P-4	Time Delay	SG2 3P	21026	Float	4	R W	Millisecond	0 - 600000
59P-4	Alarm Configuration	SG2 3P	21028	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-4	Low-Line Scale	SG2 3P	21030	Float	4	R W	n/a	0.001 - 3
59P-4	Mode	SG3 1P	21032	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-4	Source	SG3 1P	21034	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-4	Pickup	SG3 1P	21036	Float	4	R W	Volt	0 or 1 - 1000
59P-4	Time Delay	SG3 1P	21038	Float	4	R W	Millisecond	0 - 600000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
59P-4	Alarm Configuration	SG3 1P	21040	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-4	Low-Line Scale	SG3 1P	21042	Float	4	R W	n/a	0.001 - 3
59P-4	Mode	SG3 3P	21044	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-4	Source	SG3 3P	21046	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-4	Pickup	SG3 3P	21048	Float	4	R W	Volt	0 or 1 - 1000
59P-4	Time Delay	SG3 3P	21050	Float	4	R W	Millisecond	0 - 600000
59P-4	Alarm Configuration	SG3 3P	21052	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-4	Low-Line Scale	SG3 3P	21054	Float	4	R W	n/a	0.001 - 3
59P-5	Mode	SG0 1P	21056	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-5	Source	SG0 1P	21058	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-5	Pickup	SG0 1P	21060	Float	4	R W	Volt	0 or 1 - 1000
59P-5	Time Delay	SG0 1P	21062	Float	4	R W	Millisecond	0 - 600000
59P-5	Alarm Configuration	SG0 1P	21064	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-5	Low-Line Scale	SG0 1P	21066	Float	4	R W	n/a	0.001 - 3
59P-5	Mode	SG0 3P	21068	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-5	Source	SG0 3P	21070	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-5	Pickup	SG0 3P	21072	Float	4	R W	Volt	0 or 1 - 1000
59P-5	Time Delay	SG0 3P	21074	Float	4	R W	Millisecond	0 - 600000
59P-5	Alarm Configuration	SG0 3P	21076	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-5	Low-Line Scale	SG0 3P	21078	Float	4	R W	n/a	0.001 - 3
59P-5	Mode	SG1 1P	21080	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-5	Source	SG1 1P	21082	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-5	Pickup	SG1 1P	21084	Float	4	R W	Volt	0 or 1 - 1000
59P-5	Time Delay	SG1 1P	21086	Float	4	R W	Millisecond	0 - 600000
59P-5	Alarm Configuration	SG1 1P	21088	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-5	Low-Line Scale	SG1 1P	21090	Float	4	R W	n/a	0.001 - 3
59P-5	Mode	SG1 3P	21092	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-5	Source	SG1 3P	21094	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-5	Pickup	SG1 3P	21096	Float	4	R W	Volt	0 or 1 - 1000
59P-5	Time Delay	SG1 3P	21098	Float	4	R W	Millisecond	0 - 600000
59P-5	Alarm Configuration	SG1 3P	21100	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-5	Low-Line Scale	SG1 3P	21102	Float	4	R W	n/a	0.001 - 3
59P-5	Mode	SG2 1P	21104	Uint32	4	R W	n/a	Disabled=0 Enabled=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
59P-5	Source	SG2 1P	21106	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-5	Pickup	SG2 1P	21108	Float	4	R W	Volt	0 or 1 - 1000
59P-5	Time Delay	SG2 1P	21110	Float	4	R W	Millisecond	0 - 600000
59P-5	Alarm Configuration	SG2 1P	21112	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-5	Low-Line Scale	SG2 1P	21114	Float	4	R W	n/a	0.001 - 3
59P-5	Mode	SG2 3P	21116	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-5	Source	SG2 3P	21118	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-5	Pickup	SG2 3P	21120	Float	4	R W	Volt	0 or 1 - 1000
59P-5	Time Delay	SG2 3P	21122	Float	4	R W	Millisecond	0 - 600000
59P-5	Alarm Configuration	SG2 3P	21124	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-5	Low-Line Scale	SG2 3P	21126	Float	4	R W	n/a	0.001 - 3
59P-5	Mode	SG3 1P	21128	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-5	Source	SG3 1P	21130	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-5	Pickup	SG3 1P	21132	Float	4	R W	Volt	0 or 1 - 1000
59P-5	Time Delay	SG3 1P	21134	Float	4	R W	Millisecond	0 - 600000
59P-5	Alarm Configuration	SG3 1P	21136	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-5	Low-Line Scale	SG3 1P	21138	Float	4	R W	n/a	0.001 - 3
59P-5	Mode	SG3 3P	21140	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-5	Source	SG3 3P	21142	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-5	Pickup	SG3 3P	21144	Float	4	R W	Volt	0 or 1 - 1000
59P-5	Time Delay	SG3 3P	21146	Float	4	R W	Millisecond	0 - 600000
59P-5	Alarm Configuration	SG3 3P	21148	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-5	Low-Line Scale	SG3 3P	21150	Float	4	R W	n/a	0.001 - 3
59P-6	Mode	SG0 1P	21152	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-6	Source	SG0 1P	21154	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-6	Pickup	SG0 1P	21156	Float	4	R W	Volt	0 or 1 - 1000
59P-6	Time Delay	SG0 1P	21158	Float	4	R W	Millisecond	0 - 600000
59P-6	Alarm Configuration	SG0 1P	21160	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-6	Low-Line Scale	SG0 1P	21162	Float	4	R W	n/a	0.001 - 3
59P-6	Mode	SG0 3P	21164	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-6	Source	SG0 3P	21166	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-6	Pickup	SG0 3P	21168	Float	4	R W	Volt	0 or 1 - 1000
59P-6	Time Delay	SG0 3P	21170	Float	4	R W	Millisecond	0 - 600000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
59P-6	Alarm Configuration	SG0 3P	21172	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-6	Low-Line Scale	SG0 3P	21174	Float	4	R W	n/a	0.001 - 3
59P-6	Mode	SG1 1P	21176	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-6	Source	SG1 1P	21178	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-6	Pickup	SG1 1P	21180	Float	4	R W	Volt	0 or 1 - 1000
59P-6	Time Delay	SG1 1P	21182	Float	4	R W	Millisecond	0 - 600000
59P-6	Alarm Configuration	SG1 1P	21184	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-6	Low-Line Scale	SG1 1P	21186	Float	4	R W	n/a	0.001 - 3
59P-6	Mode	SG1 3P	21188	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-6	Source	SG1 3P	21190	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-6	Pickup	SG1 3P	21192	Float	4	R W	Volt	0 or 1 - 1000
59P-6	Time Delay	SG1 3P	21194	Float	4	R W	Millisecond	0 - 600000
59P-6	Alarm Configuration	SG1 3P	21196	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-6	Low-Line Scale	SG1 3P	21198	Float	4	R W	n/a	0.001 - 3
59P-6	Mode	SG2 1P	21200	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-6	Source	SG2 1P	21202	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-6	Pickup	SG2 1P	21204	Float	4	R W	Volt	0 or 1 - 1000
59P-6	Time Delay	SG2 1P	21206	Float	4	R W	Millisecond	0 - 600000
59P-6	Alarm Configuration	SG2 1P	21208	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-6	Low-Line Scale	SG2 1P	21210	Float	4	R W	n/a	0.001 - 3
59P-6	Mode	SG2 3P	21212	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-6	Source	SG2 3P	21214	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-6	Pickup	SG2 3P	21216	Float	4	R W	Volt	0 or 1 - 1000
59P-6	Time Delay	SG2 3P	21218	Float	4	R W	Millisecond	0 - 600000
59P-6	Alarm Configuration	SG2 3P	21220	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-6	Low-Line Scale	SG2 3P	21222	Float	4	R W	n/a	0.001 - 3
59P-6	Mode	SG3 1P	21224	Uint32	4	R W	n/a	Disabled=0 Enabled=1
59P-6	Source	SG3 1P	21226	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-6	Pickup	SG3 1P	21228	Float	4	R W	Volt	0 or 1 - 1000
59P-6	Time Delay	SG3 1P	21230	Float	4	R W	Millisecond	0 - 600000
59P-6	Alarm Configuration	SG3 1P	21232	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-6	Low-Line Scale	SG3 1P	21234	Float	4	R W	n/a	0.001 - 3
59P-6	Mode	SG3 3P	21236	Uint32	4	R W	n/a	Disabled=0 Enabled=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
59P-6	Source	SG3 3P	21238	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
59P-6	Pickup	SG3 3P	21240	Float	4	R W	Volt	0 or 1 - 1000
59P-6	Time Delay	SG3 3P	21242	Float	4	R W	Millisecond	0 - 600000
59P-6	Alarm Configuration	SG3 3P	21244	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
59P-6	Low-Line Scale	SG3 3P	21246	Float	4	R W	n/a	0.001 - 3
47-1	Mode	SG0	21248	UInt32	4	R W	n/a	Disabled=0 V2=3
47-1	Source	SG0	21250	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-1	Pickup	SG0	21252	Float	4	R W	Volt	1 - 150
47-1	Time Delay	SG0	21254	Float	4	R W	Millisecond	0 - 600000
47-1	Alarm Configuration	SG0	21256	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-1	Low-Line Scale	SG0	21258	Float	4	R W	n/a	0.001 - 3
47-1	Mode	SG1	21260	UInt32	4	R W	n/a	Disabled=0 V2=3
47-1	Source	SG1	21262	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-1	Pickup	SG1	21264	Float	4	R W	Volt	1 - 150
47-1	Time Delay	SG1	21266	Float	4	R W	Millisecond	0 - 600000
47-1	Alarm Configuration	SG1	21268	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-1	Low-Line Scale	SG1	21270	Float	4	R W	n/a	0.001 - 3
47-1	Mode	SG2	21272	UInt32	4	R W	n/a	Disabled=0 V2=3
47-1	Source	SG2	21274	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-1	Pickup	SG2	21276	Float	4	R W	Volt	1 - 150
47-1	Time Delay	SG2	21278	Float	4	R W	Millisecond	0 - 600000
47-1	Alarm Configuration	SG2	21280	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-1	Low-Line Scale	SG2	21282	Float	4	R W	n/a	0.001 - 3
47-1	Mode	SG3	21284	UInt32	4	R W	n/a	Disabled=0 V2=3
47-1	Source	SG3	21286	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-1	Pickup	SG3	21288	Float	4	R W	Volt	1 - 150
47-1	Time Delay	SG3	21290	Float	4	R W	Millisecond	0 - 600000
47-1	Alarm Configuration	SG3	21292	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-1	Low-Line Scale	SG3	21294	Float	4	R W	n/a	0.001 - 3
47-2	Mode	SG0	21296	UInt32	4	R W	n/a	Disabled=0 V2=3
47-2	Source	SG0	21298	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-2	Pickup	SG0	21300	Float	4	R W	Volt	1 - 150
47-2	Time Delay	SG0	21302	Float	4	R W	Millisecond	0 - 600000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
47-2	Alarm Configuration	SG0	21304	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-2	Low-Line Scale	SG0	21306	Float	4	R W	n/a	0.001 - 3
47-2	Mode	SG1	21308	Uint32	4	R W	n/a	Disabled=0 V2=3
47-2	Source	SG1	21310	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-2	Pickup	SG1	21312	Float	4	R W	Volt	1 - 150
47-2	Time Delay	SG1	21314	Float	4	R W	Millisecond	0 - 600000
47-2	Alarm Configuration	SG1	21316	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-2	Low-Line Scale	SG1	21318	Float	4	R W	n/a	0.001 - 3
47-2	Mode	SG2	21320	Uint32	4	R W	n/a	Disabled=0 V2=3
47-2	Source	SG2	21322	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-2	Pickup	SG2	21324	Float	4	R W	Volt	1 - 150
47-2	Time Delay	SG2	21326	Float	4	R W	Millisecond	0 - 600000
47-2	Alarm Configuration	SG2	21328	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-2	Low-Line Scale	SG2	21330	Float	4	R W	n/a	0.001 - 3
47-2	Mode	SG3	21332	Uint32	4	R W	n/a	Disabled=0 V2=3
47-2	Source	SG3	21334	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-2	Pickup	SG3	21336	Float	4	R W	Volt	1 - 150
47-2	Time Delay	SG3	21338	Float	4	R W	Millisecond	0 - 600000
47-2	Alarm Configuration	SG3	21340	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-2	Low-Line Scale	SG3	21342	Float	4	R W	n/a	0.001 - 3
47-3	Mode	SG0	21344	Uint32	4	R W	n/a	Disabled=0 V2=3
47-3	Source	SG0	21346	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-3	Pickup	SG0	21348	Float	4	R W	Volt	1 - 150
47-3	Time Delay	SG0	21350	Float	4	R W	Millisecond	0 - 600000
47-3	Alarm Configuration	SG0	21352	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-3	Low-Line Scale	SG0	21354	Float	4	R W	n/a	0.001 - 3
47-3	Mode	SG1	21356	Uint32	4	R W	n/a	Disabled=0 V2=3
47-3	Source	SG1	21358	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-3	Pickup	SG1	21360	Float	4	R W	Volt	1 - 150
47-3	Time Delay	SG1	21362	Float	4	R W	Millisecond	0 - 600000
47-3	Alarm Configuration	SG1	21364	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-3	Low-Line Scale	SG1	21366	Float	4	R W	n/a	0.001 - 3
47-3	Mode	SG2	21368	Uint32	4	R W	n/a	Disabled=0 V2=3

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
47-3	Source	SG2	21370	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-3	Pickup	SG2	21372	Float	4	R W	Volt	1 - 150
47-3	Time Delay	SG2	21374	Float	4	R W	Millisecond	0 - 600000
47-3	Alarm Configuration	SG2	21376	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-3	Low-Line Scale	SG2	21378	Float	4	R W	n/a	0.001 - 3
47-3	Mode	SG3	21380	Uint32	4	R W	n/a	Disabled=0 V2=3
47-3	Source	SG3	21382	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-3	Pickup	SG3	21384	Float	4	R W	Volt	1 - 150
47-3	Time Delay	SG3	21386	Float	4	R W	Millisecond	0 - 600000
47-3	Alarm Configuration	SG3	21388	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-3	Low-Line Scale	SG3	21390	Float	4	R W	n/a	0.001 - 3
47-4	Mode	SG0	21392	Uint32	4	R W	n/a	Disabled=0 V2=3
47-4	Source	SG0	21394	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-4	Pickup	SG0	21396	Float	4	R W	Volt	1 - 150
47-4	Time Delay	SG0	21398	Float	4	R W	Millisecond	0 - 600000
47-4	Alarm Configuration	SG0	21400	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-4	Low-Line Scale	SG0	21402	Float	4	R W	n/a	0.001 - 3
47-4	Mode	SG1	21404	Uint32	4	R W	n/a	Disabled=0 V2=3
47-4	Source	SG1	21406	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-4	Pickup	SG1	21408	Float	4	R W	Volt	1 - 150
47-4	Time Delay	SG1	21410	Float	4	R W	Millisecond	0 - 600000
47-4	Alarm Configuration	SG1	21412	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-4	Low-Line Scale	SG1	21414	Float	4	R W	n/a	0.001 - 3
47-4	Mode	SG2	21416	Uint32	4	R W	n/a	Disabled=0 V2=3
47-4	Source	SG2	21418	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-4	Pickup	SG2	21420	Float	4	R W	Volt	1 - 150
47-4	Time Delay	SG2	21422	Float	4	R W	Millisecond	0 - 600000
47-4	Alarm Configuration	SG2	21424	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-4	Low-Line Scale	SG2	21426	Float	4	R W	n/a	0.001 - 3
47-4	Mode	SG3	21428	Uint32	4	R W	n/a	Disabled=0 V2=3
47-4	Source	SG3	21430	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-4	Pickup	SG3	21432	Float	4	R W	Volt	1 - 150
47-4	Time Delay	SG3	21434	Float	4	R W	Millisecond	0 - 600000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
47-4	Alarm Configuration	SG3	21436	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-4	Low-Line Scale	SG3	21438	Float	4	R W	n/a	0.001 - 3
47-5	Mode	SG0	21440	Uint32	4	R W	n/a	Disabled=0 V2=3
47-5	Source	SG0	21442	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-5	Pickup	SG0	21444	Float	4	R W	Volt	1 - 150
47-5	Time Delay	SG0	21446	Float	4	R W	Millisecond	0 - 600000
47-5	Alarm Configuration	SG0	21448	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-5	Low-Line Scale	SG0	21450	Float	4	R W	n/a	0.001 - 3
47-5	Mode	SG1	21452	Uint32	4	R W	n/a	Disabled=0 V2=3
47-5	Source	SG1	21454	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-5	Pickup	SG1	21456	Float	4	R W	Volt	1 - 150
47-5	Time Delay	SG1	21458	Float	4	R W	Millisecond	0 - 600000
47-5	Alarm Configuration	SG1	21460	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-5	Low-Line Scale	SG1	21462	Float	4	R W	n/a	0.001 - 3
47-5	Mode	SG2	21464	Uint32	4	R W	n/a	Disabled=0 V2=3
47-5	Source	SG2	21466	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-5	Pickup	SG2	21468	Float	4	R W	Volt	1 - 150
47-5	Time Delay	SG2	21470	Float	4	R W	Millisecond	0 - 600000
47-5	Alarm Configuration	SG2	21472	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-5	Low-Line Scale	SG2	21474	Float	4	R W	n/a	0.001 - 3
47-5	Mode	SG3	21476	Uint32	4	R W	n/a	Disabled=0 V2=3
47-5	Source	SG3	21478	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-5	Pickup	SG3	21480	Float	4	R W	Volt	1 - 150
47-5	Time Delay	SG3	21482	Float	4	R W	Millisecond	0 - 600000
47-5	Alarm Configuration	SG3	21484	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-5	Low-Line Scale	SG3	21486	Float	4	R W	n/a	0.001 - 3
47-6	Mode	SG0	21488	Uint32	4	R W	n/a	Disabled=0 V2=3
47-6	Source	SG0	21490	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-6	Pickup	SG0	21492	Float	4	R W	Volt	1 - 150
47-6	Time Delay	SG0	21494	Float	4	R W	Millisecond	0 - 600000
47-6	Alarm Configuration	SG0	21496	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-6	Low-Line Scale	SG0	21498	Float	4	R W	n/a	0.001 - 3
47-6	Mode	SG1	21500	Uint32	4	R W	n/a	Disabled=0 V2=3

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
47-6	Source	SG1	21502	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-6	Pickup	SG1	21504	Float	4	R W	Volt	1 - 150
47-6	Time Delay	SG1	21506	Float	4	R W	Millisecond	0 - 600000
47-6	Alarm Configuration	SG1	21508	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-6	Low-Line Scale	SG1	21510	Float	4	R W	n/a	0.001 - 3
47-6	Mode	SG2	21512	Uint32	4	R W	n/a	Disabled=0 V2=3
47-6	Source	SG2	21514	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-6	Pickup	SG2	21516	Float	4	R W	Volt	1 - 150
47-6	Time Delay	SG2	21518	Float	4	R W	Millisecond	0 - 600000
47-6	Alarm Configuration	SG2	21520	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-6	Low-Line Scale	SG2	21522	Float	4	R W	n/a	0.001 - 3
47-6	Mode	SG3	21524	Uint32	4	R W	n/a	Disabled=0 V2=3
47-6	Source	SG3	21526	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
47-6	Pickup	SG3	21528	Float	4	R W	Volt	1 - 150
47-6	Time Delay	SG3	21530	Float	4	R W	Millisecond	0 - 600000
47-6	Alarm Configuration	SG3	21532	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
47-6	Low-Line Scale	SG3	21534	Float	4	R W	n/a	0.001 - 3
81-1	Mode	SG0	21536	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-1	Source	SG0	21538	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-1	Pickup	SG0	21540	Float	4	R W	Hertz	37.5 - 66
81-1	User Dropout Level	SG0	21542	Float	4	R W	Hertz	0.1 - 40
81-1	Time Delay	SG0	21544	Float	4	R W	Millisecond	0 - 600000
81-1	Voltage Inhibit	SG0	21546	Float	4	R W	Percent	1 - 100
81-1	Alarm Configuration	SG0	21548	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-1	Mode	SG1	21550	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-1	Source	SG1	21552	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-1	Pickup	SG1	21554	Float	4	R W	Hertz	37.5 - 66
81-1	User Dropout Level	SG1	21556	Float	4	R W	Hertz	0.1 - 40
81-1	Time Delay	SG1	21558	Float	4	R W	Millisecond	0 - 600000
81-1	Voltage Inhibit	SG1	21560	Float	4	R W	Percent	1 - 100
81-1	Alarm Configuration	SG1	21562	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-1	Mode	SG2	21564	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-1	Source	SG2	21566	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-1	Pickup	SG2	21568	Float	4	R W	Hertz	37.5 - 66

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
81-1	User Dropout Level	SG2	21570	Float	4	R W	Hertz	0.1 - 40
81-1	Time Delay	SG2	21572	Float	4	R W	Millisecond	0 - 600000
81-1	Voltage Inhibit	SG2	21574	Float	4	R W	Percent	1 - 100
81-1	Alarm Configuration	SG2	21576	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-1	Mode	SG3	21578	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-1	Source	SG3	21580	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-1	Pickup	SG3	21582	Float	4	R W	Hertz	37.5 - 66
81-1	User Dropout Level	SG3	21584	Float	4	R W	Hertz	0.1 - 40
81-1	Time Delay	SG3	21586	Float	4	R W	Millisecond	0 - 600000
81-1	Voltage Inhibit	SG3	21588	Float	4	R W	Percent	1 - 100
81-1	Alarm Configuration	SG3	21590	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-2	Mode	SG0	21592	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-2	Source	SG0	21594	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-2	Pickup	SG0	21596	Float	4	R W	Hertz	37.5 - 66
81-2	User Dropout Level	SG0	21598	Float	4	R W	Hertz	0.1 - 40
81-2	Time Delay	SG0	21600	Float	4	R W	Millisecond	0 - 600000
81-2	Voltage Inhibit	SG0	21602	Float	4	R W	Percent	1 - 100
81-2	Alarm Configuration	SG0	21604	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-2	Mode	SG1	21606	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-2	Source	SG1	21608	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-2	Pickup	SG1	21610	Float	4	R W	Hertz	37.5 - 66
81-2	User Dropout Level	SG1	21612	Float	4	R W	Hertz	0.1 - 40
81-2	Time Delay	SG1	21614	Float	4	R W	Millisecond	0 - 600000
81-2	Voltage Inhibit	SG1	21616	Float	4	R W	Percent	1 - 100
81-2	Alarm Configuration	SG1	21618	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-2	Mode	SG2	21620	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-2	Source	SG2	21622	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-2	Pickup	SG2	21624	Float	4	R W	Hertz	37.5 - 66
81-2	User Dropout Level	SG2	21626	Float	4	R W	Hertz	0.1 - 40
81-2	Time Delay	SG2	21628	Float	4	R W	Millisecond	0 - 600000
81-2	Voltage Inhibit	SG2	21630	Float	4	R W	Percent	1 - 100
81-2	Alarm Config	SG2	21632	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-2	Mode	SG3	21634	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-2	Source	SG3	21636	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
81-2	Pickup	SG3	21638	Float	4	R W	Hertz	37.5 - 66
81-2	User Dropout Level	SG3	21640	Float	4	R W	Hertz	0.1 - 40
81-2	Time Delay	SG3	21642	Float	4	R W	Millisecond	0 - 600000
81-2	Voltage Inhibit	SG3	21644	Float	4	R W	Percent	1 - 100
81-2	Alarm Configuration	SG3	21646	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-3	Mode	SG0	21648	UInt32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-3	Source	SG0	21650	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-3	Pickup	SG0	21652	Float	4	R W	Hertz	37.5 - 66
81-3	User Dropout Level	SG0	21654	Float	4	R W	Hertz	0.1 - 40
81-3	Time Delay	SG0	21656	Float	4	R W	Millisecond	0 - 600000
81-3	Voltage Inhibit	SG0	21658	Float	4	R W	Percent	1 - 100
81-3	Alarm Configuration	SG0	21660	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-3	Mode	SG1	21662	UInt32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-3	Source	SG1	21664	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-3	Pickup	SG1	21666	Float	4	R W	Hertz	37.5 - 66
81-3	User Dropout Level	SG1	21668	Float	4	R W	Hertz	0.1 - 40
81-3	Time Delay	SG1	21670	Float	4	R W	Millisecond	0 - 600000
81-3	Voltage Inhibit	SG1	21672	Float	4	R W	Percent	1 - 100
81-3	Alarm Configuration	SG1	21674	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-3	Mode	SG2	21676	UInt32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-3	Source	SG2	21678	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-3	Pickup	SG2	21680	Float	4	R W	Hertz	37.5 - 66
81-3	User Dropout Level	SG2	21682	Float	4	R W	Hertz	0.1 - 40
81-3	Time Delay	SG2	21684	Float	4	R W	Millisecond	0 - 600000
81-3	Voltage Inhibit	SG2	21686	Float	4	R W	Percent	1 - 100
81-3	Alarm Configuration	SG2	21688	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-3	Mode	SG3	21690	UInt32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-3	Source	SG3	21692	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-3	Pickup	SG3	21694	Float	4	R W	Hertz	37.5 - 66
81-3	User Dropout Level	SG3	21696	Float	4	R W	Hertz	0.1 - 40
81-3	Time Delay	SG3	21698	Float	4	R W	Millisecond	0 - 600000
81-3	Voltage Inhibit	SG3	21700	Float	4	R W	Percent	1 - 100
81-3	Alarm Config	SG3	21702	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-4	Mode	SG0	21704	UInt32	4	R W	n/a	Disabled=0 Over=1 Under=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
81-4	Source	SG0	21706	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-4	Pickup	SG0	21708	Float	4	R W	Hertz	37.5 - 66
81-4	User Dropout Level	SG0	21710	Float	4	R W	Hertz	0.1 - 40
81-4	Time Delay	SG0	21712	Float	4	R W	Millisecond	0 - 600000
81-4	Voltage Inhibit	SG0	21714	Float	4	R W	Percent	1 - 100
81-4	Alarm Configuration	SG0	21716	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-4	Mode	SG1	21718	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-4	Source	SG1	21720	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-4	Pickup	SG1	21722	Float	4	R W	Hertz	37.5 - 66
81-4	User Dropout Level	SG1	21724	Float	4	R W	Hertz	0.1 - 40
81-4	Time Delay	SG1	21726	Float	4	R W	Millisecond	0 - 600000
81-4	Voltage Inhibit	SG1	21728	Float	4	R W	Percent	1 - 100
81-4	Alarm Configuration	SG1	21730	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-4	Mode	SG2	21732	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-4	Source	SG2	21734	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-4	Pickup	SG2	21736	Float	4	R W	Hertz	37.5 - 66
81-4	User Dropout Level	SG2	21738	Float	4	R W	Hertz	0.1 - 40
81-4	Time Delay	SG2	21740	Float	4	R W	Millisecond	0 - 600000
81-4	Voltage Inhibit	SG2	21742	Float	4	R W	Percent	1 - 100
81-4	Alarm Configuration	SG2	21744	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-4	Mode	SG3	21746	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-4	Source	SG3	21748	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-4	Pickup	SG3	21750	Float	4	R W	Hertz	37.5 - 66
81-4	User Dropout Level	SG3	21752	Float	4	R W	Hertz	0.1 - 40
81-4	Time Delay	SG3	21754	Float	4	R W	Millisecond	0 - 600000
81-4	Voltage Inhibit	SG3	21756	Float	4	R W	Percent	1 - 100
81-4	Alarm Config	SG3	21758	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-5	Mode	SG0	21760	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-5	Source	SG0	21762	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-5	Pickup	SG0	21764	Float	4	R W	Hertz	37.5 - 66
81-5	User Dropout Level	SG0	21766	Float	4	R W	Hertz	0.1 - 40
81-5	Time Delay	SG0	21768	Float	4	R W	Millisecond	0 - 600000
81-5	Voltage Inhibit	SG0	21770	Float	4	R W	Percent	1 - 100
81-5	Alarm Configuration	SG0	21772	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
81-5	Mode	SG1	21774	UInt32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-5	Source	SG1	21776	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-5	Pickup	SG1	21778	Float	4	R W	Hertz	37.5 - 66
81-5	User Dropout Level	SG1	21780	Float	4	R W	Hertz	0.1 - 40
81-5	Time Delay	SG1	21782	Float	4	R W	Millisecond	0 - 600000
81-5	Voltage Inhibit	SG1	21784	Float	4	R W	Percent	1 - 100
81-5	Alarm Configuration	SG1	21786	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-5	Mode	SG2	21788	UInt32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-5	Source	SG2	21790	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-5	Pickup	SG2	21792	Float	4	R W	Hertz	37.5 - 66
81-5	User Dropout Level	SG2	21794	Float	4	R W	Hertz	0.1 - 40
81-5	Time Delay	SG2	21796	Float	4	R W	Millisecond	0 - 600000
81-5	Voltage Inhibit	SG2	21798	Float	4	R W	Percent	1 - 100
81-5	Alarm Configuration	SG2	21800	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-5	Mode	SG3	21802	UInt32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-5	Source	SG3	21804	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-5	Pickup	SG3	21806	Float	4	R W	Hertz	37.5 - 66
81-5	User Dropout Level	SG3	21808	Float	4	R W	Hertz	0.1 - 40
81-5	Time Delay	SG3	21810	Float	4	R W	Millisecond	0 - 600000
81-5	Voltage Inhibit	SG3	21812	Float	4	R W	Percent	1 - 100
81-5	Alarm Configuration	SG3	21814	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-6	Mode	SG0	21816	UInt32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-6	Source	SG0	21818	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-6	Pickup	SG0	21820	Float	4	R W	Hertz	37.5 - 66
81-6	User Dropout Level	SG0	21822	Float	4	R W	Hertz	0.1 - 40
81-6	Time Delay	SG0	21824	Float	4	R W	Millisecond	0 - 600000
81-6	Voltage Inhibit	SG0	21826	Float	4	R W	Percent	1 - 100
81-6	Alarm Configuration	SG0	21828	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-6	Mode	SG1	21830	UInt32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-6	Source	SG1	21832	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-6	Pickup	SG1	21834	Float	4	R W	Hertz	37.5 - 66
81-6	User Dropout Level	SG1	21836	Float	4	R W	Hertz	0.1 - 40
81-6	Time Delay	SG1	21838	Float	4	R W	Millisecond	0 - 600000
81-6	Voltage Inhibit	SG1	21840	Float	4	R W	Percent	1 - 100

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
81-6	Alarm Configuration	SG1	21842	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-6	Mode	SG2	21844	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-6	Source	SG2	21846	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-6	Pickup	SG2	21848	Float	4	R W	Hertz	37.5 - 66
81-6	User Dropout Level	SG2	21850	Float	4	R W	Hertz	0.1 - 40
81-6	Time Delay	SG2	21852	Float	4	R W	Millisecond	0 - 600000
81-6	Voltage Inhibit	SG2	21854	Float	4	R W	Percent	1 - 100
81-6	Alarm Configuration	SG2	21856	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-6	Mode	SG3	21858	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-6	Source	SG3	21860	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-6	Pickup	SG3	21862	Float	4	R W	Hertz	37.5 - 66
81-6	User Dropout Level	SG3	21864	Float	4	R W	Hertz	0.1 - 40
81-6	Time Delay	SG3	21866	Float	4	R W	Millisecond	0 - 600000
81-6	Voltage Inhibit	SG3	21868	Float	4	R W	Percent	1 - 100
81-6	Alarm Configuration	SG3	21870	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-7	Mode	SG0	21872	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-7	Source	SG0	21874	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-7	Pickup	SG0	21876	Float	4	R W	Hertz	37.5 - 66
81-7	User Dropout Level	SG0	21878	Float	4	R W	Hertz	0.1 - 40
81-7	Time Delay	SG0	21880	Float	4	R W	Millisecond	0 - 600000
81-7	Voltage Inhibit	SG0	21882	Float	4	R W	Percent	1 - 100
81-7	Alarm Configuration	SG0	21884	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-7	Mode	SG1	21886	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-7	Source	SG1	21888	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-7	Pickup	SG1	21890	Float	4	R W	Hertz	37.5 - 66
81-7	User Dropout Level	SG1	21892	Float	4	R W	Hertz	0.1 - 40
81-7	Time Delay	SG1	21894	Float	4	R W	Millisecond	0 - 600000
81-7	Voltage Inhibit	SG1	21896	Float	4	R W	Percent	1 - 100
81-7	Alarm Configuration	SG1	21898	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-7	Mode	SG2	21900	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-7	Source	SG2	21902	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-7	Pickup	SG2	21904	Float	4	R W	Hertz	37.5 - 66
81-7	User Dropout Level	SG2	21906	Float	4	R W	Hertz	0.1 - 40
81-7	Time Delay	SG2	21908	Float	4	R W	Millisecond	0 - 600000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
81-7	Voltage Inhibit	SG2	21910	Float	4	R W	Percent	1 - 100
81-7	Alarm Configuration	SG2	21912	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-7	Mode	SG3	21914	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-7	Source	SG3	21916	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-7	Pickup	SG3	21918	Float	4	R W	Hertz	37.5 - 66
81-7	User Dropout Level	SG3	21920	Float	4	R W	Hertz	0.1 - 40
81-7	Time Delay	SG3	21922	Float	4	R W	Millisecond	0 - 600000
81-7	Voltage Inhibit	SG3	21924	Float	4	R W	Percent	1 - 100
81-7	Alarm Configuration	SG3	21926	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-8	Mode	SG0	21928	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-8	Source	SG0	21930	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-8	Pickup	SG0	21932	Float	4	R W	Hertz	37.5 - 66
81-8	User Dropout Level	SG0	21934	Float	4	R W	Hertz	0.1 - 40
81-8	Time Delay	SG0	21936	Float	4	R W	Millisecond	0 - 600000
81-8	Voltage Inhibit	SG0	21938	Float	4	R W	Percent	1 - 100
81-8	Alarm Configuration	SG0	21940	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-8	Mode	SG1	21942	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-8	Source	SG1	21944	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-8	Pickup	SG1	21946	Float	4	R W	Hertz	37.5 - 66
81-8	User Dropout Level	SG1	21948	Float	4	R W	Hertz	0.1 - 40
81-8	Time Delay	SG1	21950	Float	4	R W	Millisecond	0 - 600000
81-8	Voltage Inhibit	SG1	21952	Float	4	R W	Percent	1 - 100
81-8	Alarm Configuration	SG1	21954	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-8	Mode	SG2	21956	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-8	Source	SG2	21958	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
81-8	Pickup	SG2	21960	Float	4	R W	Hertz	37.5 - 66
81-8	User Dropout Level	SG2	21962	Float	4	R W	Hertz	0.1 - 40
81-8	Time Delay	SG2	21964	Float	4	R W	Millisecond	0 - 600000
81-8	Voltage Inhibit	SG2	21966	Float	4	R W	Percent	1 - 100
81-8	Alarm Configuration	SG2	21968	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
81-8	Mode	SG3	21970	Uint32	4	R W	n/a	Disabled=0 Over=1 Under=2
81-8	Source	SG3	21972	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
81-8	Pickup	SG3	21974	Float	4	R W	Hertz	37.5 - 66
81-8	User Dropout Level	SG3	21976	Float	4	R W	Hertz	0.1 - 40
81-8	Time Delay	SG3	21978	Float	4	R W	Millisecond	0 - 600000
81-8	Voltage Inhibit	SG3	21980	Float	4	R W	Percent	1 - 100
81-8	Alarm Configuration	SG3	21982	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
40Q-1	Mode	SG0 1P	21984	Uint32	4	R W	n/a	Disabled=0 Enabled=1
40Q-1	Pickup	SG0 1P	21986	Float	4	R W	Percent	-150 - 0
40Q-1	Time Delay	SG0 1P	21988	Float	4	R W	Millisecond	0 - 600000
40Q-1	Source	SG0 1P	21990	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
40Q-1	Alarm Configuration	SG0 1P	21992	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
40Q-1	Low-Line Scale	SG0 1P	21994	Float	4	R W	n/a	0.001 - 3
40Q-1	Mode	SG0 3P	21996	Uint32	4	R W	n/a	Disabled=0 Enabled=1
40Q-1	Pickup	SG0 3P	21998	Float	4	R W	Percent	-150 - 0
40Q-1	Time Delay	SG0 3P	22000	Float	4	R W	Millisecond	0 - 600000
40Q-1	Source	SG0 3P	22002	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
40Q-1	Alarm Configuration	SG0 3P	22004	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
40Q-1	Low-Line Scale	SG0 3P	22006	Float	4	R W	n/a	0.001 - 3
40Q-1	Mode	SG1 1P	22008	Uint32	4	R W	n/a	Disabled=0 Enabled=1
40Q-1	Pickup	SG1 1P	22010	Float	4	R W	Percent	-150 - 0
40Q-1	Time Delay	SG1 1P	22012	Float	4	R W	Millisecond	0 - 600000
40Q-1	Source	SG1 1P	22014	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
40Q-1	Alarm Configuration	SG1 1P	22016	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
40Q-1	Low-Line Scale	SG1 1P	22018	Float	4	R W	n/a	0.001 - 3
40Q-1	Mode	SG1 3P	22020	Uint32	4	R W	n/a	Disabled=0 Enabled=1
40Q-1	Pickup	SG1 3P	22022	Float	4	R W	Percent	-150 - 0
40Q-1	Time Delay	SG1 3P	22024	Float	4	R W	Millisecond	0 - 600000
40Q-1	Source	SG1 3P	22026	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
40Q-1	Alarm Configuration	SG1 3P	22028	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
40Q-1	Low-Line Scale	SG1 3P	22030	Float	4	R W	n/a	0.001 - 3
40Q-1	Mode	SG2 1P	22032	Uint32	4	R W	n/a	Disabled=0 Enabled=1
40Q-1	Pickup	SG2 1P	22034	Float	4	R W	Percent	-150 - 0
40Q-1	Time Delay	SG2 1P	22036	Float	4	R W	Millisecond	0 - 600000
40Q-1	Source	SG2 1P	22038	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
40Q-1	Alarm Configuration	SG2 1P	22040	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
40Q-1	Low-Line Scale	SG2 1P	22042	Float	4	R W	n/a	0.001 - 3
40Q-1	Mode	SG2 3P	22044	UInt32	4	R W	n/a	Disabled=0 Enabled=1
40Q-1	Pickup	SG2 3P	22046	Float	4	R W	Percent	-150 - 0
40Q-1	Time Delay	SG2 3P	22048	Float	4	R W	Millisecond	0 - 600000
40Q-1	Source	SG2 3P	22050	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
40Q-1	Alarm Configuration	SG2 3P	22052	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
40Q-1	Low-Line Scale	SG2 3P	22054	Float	4	R W	n/a	0.001 - 3
40Q-1	Mode	SG3 1P	22056	UInt32	4	R W	n/a	Disabled=0 Enabled=1
40Q-1	Pickup	SG3 1P	22058	Float	4	R W	Percent	-150 - 0
40Q-1	Time Delay	SG3 1P	22060	Float	4	R W	Millisecond	0 - 600000
40Q-1	Source	SG3 1P	22062	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
40Q-1	Alarm Config	SG3 1P	22064	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
40Q-1	Low-Line Scale	SG3 1P	22066	Float	4	R W	n/a	0.001 - 3
40Q-1	Mode	SG3 3P	22068	UInt32	4	R W	n/a	Disabled=0 Enabled=1
40Q-1	Pickup	SG3 3P	22070	Float	4	R W	Percent	-150 - 0
40Q-1	Time Delay	SG3 3P	22072	Float	4	R W	Millisecond	0 - 600000
40Q-1	Source	SG3 3P	22074	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
40Q-1	Alarm Configuration	SG3 3P	22076	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
40Q-1	Low-Line Scale	SG3 3P	22078	Float	4	R W	n/a	0.001 - 3
40Q-2	Mode	SG0 1P	22080	UInt32	4	R W	n/a	Disabled=0 Enabled=1
40Q-2	Pickup	SG0 1P	22082	Float	4	R W	Percent	-150 - 0
40Q-2	Time Delay	SG0 1P	22084	Float	4	R W	Millisecond	0 - 600000
40Q-2	Source	SG0 1P	22086	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
40Q-2	Alarm Configuration	SG0 1P	22088	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
40Q-2	Low-Line Scale	SG0 1P	22090	Float	4	R W	n/a	0.001 - 3
40Q-2	Mode	SG0 3P	22092	UInt32	4	R W	n/a	Disabled=0 Enabled=1
40Q-2	Pickup	SG0 3P	22094	Float	4	R W	Percent	-150 - 0
40Q-2	Time Delay	SG0 3P	22096	Float	4	R W	Millisecond	0 - 600000
40Q-2	Source	SG0 3P	22098	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
40Q-2	Alarm Configuration	SG0 3P	22100	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
40Q-2	Low-Line Scale	SG0 3P	22102	Float	4	R W	n/a	0.001 - 3
40Q-2	Mode	SG1 1P	22104	UInt32	4	R W	n/a	Disabled=0 Enabled=1
40Q-2	Pickup	SG1 1P	22106	Float	4	R W	Percent	-150 - 0
40Q-2	Time Delay	SG1 1P	22108	Float	4	R W	Millisecond	0 - 600000
40Q-2	Source	SG1 1P	22110	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
40Q-2	Alarm Config	SG1 1P	22112	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
40Q-2	Low-Line Scale	SG1 1P	22114	Float	4	R W	n/a	0.001 - 3
40Q-2	Mode	SG1 3P	22116	Uint32	4	R W	n/a	Disabled=0 Enabled=1
40Q-2	Pickup	SG1 3P	22118	Float	4	R W	Percent	-150 - 0
40Q-2	Time Delay	SG1 3P	22120	Float	4	R W	Millisecond	0 - 600000
40Q-2	Source	SG1 3P	22122	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
40Q-2	Alarm Configuration	SG1 3P	22124	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
40Q-2	Low-Line Scale	SG1 3P	22126	Float	4	R W	n/a	0.001 - 3
40Q-2	Mode	SG2 1P	22128	Uint32	4	R W	n/a	Disabled=0 Enabled=1
40Q-2	Pickup	SG2 1P	22130	Float	4	R W	Percent	-150 - 0
40Q-2	Time Delay	SG2 1P	22132	Float	4	R W	Millisecond	0 - 600000
40Q-2	Source	SG2 1P	22134	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
40Q-2	Alarm Configuration	SG2 1P	22136	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
40Q-2	Low-Line Scale	SG2 1P	22138	Float	4	R W	n/a	0.001 - 3
40Q-2	Mode	SG2 3P	22140	Uint32	4	R W	n/a	Disabled=0 Enabled=1
40Q-2	Pickup	SG2 3P	22142	Float	4	R W	Percent	-150 - 0
40Q-2	Time Delay	SG2 3P	22144	Float	4	R W	Millisecond	0 - 600000
40Q-2	Source	SG2 3P	22146	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
40Q-2	Alarm Configuration	SG2 3P	22148	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
40Q-2	Low-Line Scale	SG2 3P	22150	Float	4	R W	n/a	0.001 - 3
40Q-2	Mode	SG3 1P	22152	Uint32	4	R W	n/a	Disabled=0 Enabled=1
40Q-2	Pickup	SG3 1P	22154	Float	4	R W	Percent	-150 - 0
40Q-2	Time Delay	SG3 1P	22156	Float	4	R W	Millisecond	0 - 600000
40Q-2	Source	SG3 1P	22158	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
40Q-2	Alarm Configuration	SG3 1P	22160	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
40Q-2	Low-Line Scale	SG3 1P	22162	Float	4	R W	n/a	0.001 - 3
40Q-2	Mode	SG3 3P	22164	Uint32	4	R W	n/a	Disabled=0 Enabled=1
40Q-2	Pickup	SG3 3P	22166	Float	4	R W	Percent	-150 - 0
40Q-2	Time Delay	SG3 3P	22168	Float	4	R W	Millisecond	0 - 600000
40Q-2	Source	SG3 3P	22170	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
40Q-2	Alarm Configuration	SG3 3P	22172	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
40Q-2	Low-Line Scale	SG3 3P	22174	Float	4	R W	n/a	0.001 - 3
32-1	Mode	SG0 1P	22176	Uint32	4	R W	n/a	Disabled=0 Enabled=4

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
32-1	Source	SG0 1P	22178	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-1	Pickup	SG0 1P	22180	Float	4	R W	Percent	1 - 200
32-1	Time Delay	SG0 1P	22182	Float	4	R W	Millisecond	0 - 600000
32-1	Over Under	SG0 1P	22184	UInt32	4	R W	n/a	Over=0 Under=1
32-1	Direction	SG0 1P	22186	UInt32	4	R W	n/a	Forward=0 Reverse=1
32-1	Alarm Configuration	SG0 1P	22188	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-1	Low-Line Scale	SG0 1P	22190	Float	4	R W	n/a	0.001 - 3
32-1	Mode	SG0 3P	22192	UInt32	4	R W	n/a	Disabled=0 Enabled=4
32-1	Source	SG0 3P	22194	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-1	Pickup	SG0 3P	22196	Float	4	R W	Percent	1 - 200
32-1	Time Delay	SG0 3P	22198	Float	4	R W	Millisecond	0 - 600000
32-1	Over Under	SG0 3P	22200	UInt32	4	R W	n/a	Over=0 Under=1
32-1	Direction	SG0 3P	22202	UInt32	4	R W	n/a	Forward=0 Reverse=1
32-1	Alarm Configuration	SG0 3P	22204	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-1	Low-Line Scale	SG0 3P	22206	Float	4	R W	n/a	0.001 - 3
32-1	Mode	SG1 1P	22208	UInt32	4	R W	n/a	Disabled=0 Enabled=4
32-1	Source	SG1 1P	22210	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-1	Pickup	SG1 1P	22212	Float	4	R W	Percent	1 - 200
32-1	Time Delay	SG1 1P	22214	Float	4	R W	Millisecond	0 - 600000
32-1	Over Under	SG1 1P	22216	UInt32	4	R W	n/a	Over=0 Under=1
32-1	Direction	SG1 1P	22218	UInt32	4	R W	n/a	Forward=0 Reverse=1
32-1	Alarm Configuration	SG1 1P	22220	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-1	Low-Line Scale	SG1 1P	22222	Float	4	R W	n/a	0.001 - 3
32-1	Mode	SG1 3P	22224	UInt32	4	R W	n/a	Disabled=0 Enabled=4
32-1	Source	SG1 3P	22226	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-1	Pickup	SG1 3P	22228	Float	4	R W	Percent	1 - 200
32-1	Time Delay	SG1 3P	22230	Float	4	R W	Millisecond	0 - 600000
32-1	Over Under	SG1 3P	22232	UInt32	4	R W	n/a	Over=0 Under=1
32-1	Direction	SG1 3P	22234	UInt32	4	R W	n/a	Forward=0 Reverse=1
32-1	Alarm Configuration	SG1 3P	22236	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-1	Low-Line Scale	SG1 3P	22238	Float	4	R W	n/a	0.001 - 3
32-1	Mode	SG2 1P	22240	UInt32	4	R W	n/a	Disabled=0 Enabled=4
32-1	Source	SG2 1P	22242	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-1	Pickup	SG2 1P	22244	Float	4	R W	Percent	1 - 200
32-1	Time Delay	SG2 1P	22246	Float	4	R W	Millisecond	0 - 600000
32-1	Over Under	SG2 1P	22248	UInt32	4	R W	n/a	Over=0 Under=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
32-1	Direction	SG2 1P	22250	UInt32	4	R W	n/a	Forward=0 Reverse=1
32-1	Alarm Configuration	SG2 1P	22252	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-1	Low-Line Scale	SG2 1P	22254	Float	4	R W	n/a	0.001 - 3
32-1	Mode	SG2 3P	22256	UInt32	4	R W	n/a	Disabled=0 Enabled=4
32-1	Source	SG2 3P	22258	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-1	Pickup	SG2 3P	22260	Float	4	R W	Percent	1 - 200
32-1	Time Delay	SG2 3P	22262	Float	4	R W	Millisecond	0 - 600000
32-1	Over Under	SG2 3P	22264	UInt32	4	R W	n/a	Over=0 Under=1
32-1	Direction	SG2 3P	22266	UInt32	4	R W	n/a	Forward=0 Reverse=1
32-1	Alarm Configuration	SG2 3P	22268	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-1	Low-Line Scale	SG2 3P	22270	Float	4	R W	n/a	0.001 - 3
32-1	Mode	SG3 1P	22272	UInt32	4	R W	n/a	Disabled=0 Enabled=4
32-1	Source	SG3 1P	22274	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-1	Pickup	SG3 1P	22276	Float	4	R W	Percent	1 - 200
32-1	Time Delay	SG3 1P	22278	Float	4	R W	Millisecond	0 - 600000
32-1	Over Under	SG3 1P	22280	UInt32	4	R W	n/a	Over=0 Under=1
32-1	Direction	SG3 1P	22282	UInt32	4	R W	n/a	Forward=0 Reverse=1
32-1	Alarm Configuration	SG3 1P	22284	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-1	Low-Line Scale	SG3 1P	22286	Float	4	R W	n/a	0.001 - 3
32-1	Mode	SG3 3P	22288	UInt32	4	R W	n/a	Disabled=0 Enabled=4
32-1	Source	SG3 3P	22290	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-1	Pickup	SG3 3P	22292	Float	4	R W	Percent	1 - 200
32-1	Time Delay	SG3 3P	22294	Float	4	R W	Millisecond	0 - 600000
32-1	Over Under	SG3 3P	22296	UInt32	4	R W	n/a	Over=0 Under=1
32-1	Direction	SG3 3P	22298	UInt32	4	R W	n/a	Forward=0 Reverse=1
32-1	Alarm Configuration	SG3 3P	22300	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-1	Low-Line Scale	SG3 3P	22302	Float	4	R W	n/a	0.001 - 3
32-2	Mode	SG0 1P	22304	UInt32	4	R W	n/a	Disabled=0 Enabled=4
32-2	Source	SG0 1P	22306	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-2	Pickup	SG0 1P	22308	Float	4	R W	Percent	1 - 200
32-2	Time Delay	SG0 1P	22310	Float	4	R W	Millisecond	0 - 600000
32-2	Over Under	SG0 1P	22312	UInt32	4	R W	n/a	Over=0 Under=1
32-2	Direction	SG0 1P	22314	UInt32	4	R W	n/a	Forward=0 Reverse=1
32-2	Alarm Configuration	SG0 1P	22316	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
32-2	Low-Line Scale	SG0 1P	22318	Float	4	R W	n/a	0.001 - 3
32-2	Mode	SG0 3P	22320	UInt32	4	R W	n/a	Disabled=0 Enabled=4
32-2	Source	SG0 3P	22322	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-2	Pickup	SG0 3P	22324	Float	4	R W	Percent	1 - 200
32-2	Time Delay	SG0 3P	22326	Float	4	R W	Millisecond	0 - 600000
32-2	Over Under	SG0 3P	22328	UInt32	4	R W	n/a	Over=0 Under=1
32-2	Direction	SG0 3P	22330	UInt32	4	R W	n/a	Forward=0 Reverse=1
32-2	Alarm Configuration	SG0 3P	22332	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-2	Low-Line Scale	SG0 3P	22334	Float	4	R W	n/a	0.001 - 3
32-2	Mode	SG1 1P	22336	UInt32	4	R W	n/a	Disabled=0 Enabled=4
32-2	Source	SG1 1P	22338	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-2	Pickup	SG1 1P	22340	Float	4	R W	Percent	1 - 200
32-2	Time Delay	SG1 1P	22342	Float	4	R W	Millisecond	0 - 600000
32-2	Over Under	SG1 1P	22344	UInt32	4	R W	n/a	Over=0 Under=1
32-2	Direction	SG1 1P	22346	UInt32	4	R W	n/a	Forward=0 Reverse=1
32-2	Alarm Configuration	SG1 1P	22348	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-2	Low-Line Scale	SG1 1P	22350	Float	4	R W	n/a	0.001 - 3
32-2	Mode	SG1 3P	22352	UInt32	4	R W	n/a	Disabled=0 Enabled=4
32-2	Source	SG1 3P	22354	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-2	Pickup	SG1 3P	22356	Float	4	R W	Percent	1 - 200
32-2	Time Delay	SG1 3P	22358	Float	4	R W	Millisecond	0 - 600000
32-2	Over Under	SG1 3P	22360	UInt32	4	R W	n/a	Over=0 Under=1
32-2	Direction	SG1 3P	22362	UInt32	4	R W	n/a	Forward=0 Reverse=1
32-2	Alarm Configuration	SG1 3P	22364	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-2	Low-Line Scale	SG1 3P	22366	Float	4	R W	n/a	0.001 - 3
32-2	Mode	SG2 1P	22368	UInt32	4	R W	n/a	Disabled=0 Enabled=4
32-2	Source	SG2 1P	22370	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-2	Pickup	SG2 1P	22372	Float	4	R W	Percent	1 - 200
32-2	Time Delay	SG2 1P	22374	Float	4	R W	Millisecond	0 - 600000
32-2	Over Under	SG2 1P	22376	UInt32	4	R W	n/a	Over=0 Under=1
32-2	Direction	SG2 1P	22378	UInt32	4	R W	n/a	Forward=0 Reverse=1
32-2	Alarm Configuration	SG2 1P	22380	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-2	Low-Line Scale	SG2 1P	22382	Float	4	R W	n/a	0.001 - 3
32-2	Mode	SG2 3P	22384	UInt32	4	R W	n/a	Disabled=0 Enabled=4
32-2	Source	SG2 3P	22386	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-2	Pickup	SG2 3P	22388	Float	4	R W	Percent	1 - 200

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
32-2	Time Delay	SG2 3P	22390	Float	4	R W	Millisecond	0 - 600000
32-2	Over Under	SG2 3P	22392	UInt32	4	R W	n/a	Over=0 Under=1
32-2	Direction	SG2 3P	22394	UInt32	4	R W	n/a	Forward=0 Reverse=1
32-2	Alarm Configuration	SG2 3P	22396	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-2	Low-Line Scale	SG2 3P	22398	Float	4	R W	n/a	0.001 - 3
32-2	Mode	SG3 1P	22400	UInt32	4	R W	n/a	Disabled=0 Enabled=4
32-2	Source	SG3 1P	22402	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-2	Pickup	SG3 1P	22404	Float	4	R W	Percent	1 - 200
32-2	Time Delay	SG3 1P	22406	Float	4	R W	Millisecond	0 - 600000
32-2	Over Under	SG3 1P	22408	UInt32	4	R W	n/a	Over=0 Under=1
32-2	Direction	SG3 1P	22410	UInt32	4	R W	n/a	Forward=0 Reverse=1
32-2	Alarm Configuration	SG3 1P	22412	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-2	Low-Line Scale	SG3 1P	22414	Float	4	R W	n/a	0.001 - 3
32-2	Mode	SG3 3P	22416	UInt32	4	R W	n/a	Disabled=0 Enabled=4
32-2	Source	SG3 3P	22418	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-2	Pickup	SG3 3P	22420	Float	4	R W	Percent	1 - 200
32-2	Time Delay	SG3 3P	22422	Float	4	R W	Millisecond	0 - 600000
32-2	Over Under	SG3 3P	22424	UInt32	4	R W	n/a	Over=0 Under=1
32-2	Direction	SG3 3P	22426	UInt32	4	R W	n/a	Forward=0 Reverse=1
32-2	Alarm Configuration	SG3 3P	22428	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-2	Low-Line Scale	SG3 3P	22430	Float	4	R W	n/a	0.001 - 3
32-3	Mode	SG0 1P	22432	UInt32	4	R W	n/a	Disabled=0 Enabled=4
32-3	Source	SG0 1P	22434	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-3	Pickup	SG0 1P	22436	Float	4	R W	Percent	1 - 200
32-3	Time Delay	SG0 1P	22438	Float	4	R W	Millisecond	0 - 600000
32-3	Over Under	SG0 1P	22440	UInt32	4	R W	n/a	Over=0 Under=1
32-3	Direction	SG0 1P	22442	UInt32	4	R W	n/a	Forward=0 Reverse=1
32-3	Alarm Configuration	SG0 1P	22444	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-3	Low-Line Scale	SG0 1P	22446	Float	4	R W	n/a	0.001 - 3
32-3	Mode	SG0 3P	22448	UInt32	4	R W	n/a	Disabled=0 Enabled=4
32-3	Source	SG0 3P	22450	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-3	Pickup	SG0 3P	22452	Float	4	R W	Percent	1 - 200
32-3	Time Delay	SG0 3P	22454	Float	4	R W	Millisecond	0 - 600000
32-3	Over Under	SG0 3P	22456	UInt32	4	R W	n/a	Over=0 Under=1
32-3	Direction	SG0 3P	22458	UInt32	4	R W	n/a	Forward=0 Reverse=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
32-3	Alarm Configuration	SG0 3P	22460	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-3	Low-Line Scale	SG0 3P	22462	Float	4	R W	n/a	0.001 - 3
32-3	Mode	SG1 1P	22464	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-3	Source	SG1 1P	22466	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-3	Pickup	SG1 1P	22468	Float	4	R W	Percent	1 - 200
32-3	Time Delay	SG1 1P	22470	Float	4	R W	Millisecond	0 - 600000
32-3	Over Under	SG1 1P	22472	Uint32	4	R W	n/a	Over=0 Under=1
32-3	Direction	SG1 1P	22474	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-3	Alarm Configuration	SG1 1P	22476	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-3	Low-Line Scale	SG1 1P	22478	Float	4	R W	n/a	0.001 - 3
32-3	Mode	SG1 3P	22480	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-3	Source	SG1 3P	22482	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-3	Pickup	SG1 3P	22484	Float	4	R W	Percent	1 - 200
32-3	Time Delay	SG1 3P	22486	Float	4	R W	Millisecond	0 - 600000
32-3	Over Under	SG1 3P	22488	Uint32	4	R W	n/a	Over=0 Under=1
32-3	Direction	SG1 3P	22490	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-3	Alarm Configuration	SG1 3P	22492	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-3	Low-Line Scale	SG1 3P	22494	Float	4	R W	n/a	0.001 - 3
32-3	Mode	SG2 1P	22496	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-3	Source	SG2 1P	22498	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-3	Pickup	SG2 1P	22500	Float	4	R W	Percent	1 - 200
32-3	Time Delay	SG2 1P	22502	Float	4	R W	Millisecond	0 - 600000
32-3	Over Under	SG2 1P	22504	Uint32	4	R W	n/a	Over=0 Under=1
32-3	Direction	SG2 1P	22506	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-3	Alarm Configuration	SG2 1P	22508	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-3	Low-Line Scale	SG2 1P	22510	Float	4	R W	n/a	0.001 - 3
32-3	Mode	SG2 3P	22512	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-3	Source	SG2 3P	22514	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-3	Pickup	SG2 3P	22516	Float	4	R W	Percent	1 - 200
32-3	Time Delay	SG2 3P	22518	Float	4	R W	Millisecond	0 - 600000
32-3	Over Under	SG2 3P	22520	Uint32	4	R W	n/a	Over=0 Under=1
32-3	Direction	SG2 3P	22522	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-3	Alarm Configuration	SG2 3P	22524	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-3	Low-Line Scale	SG2 3P	22526	Float	4	R W	n/a	0.001 - 3

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
32-3	Mode	SG3 1P	22528	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-3	Source	SG3 1P	22530	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-3	Pickup	SG3 1P	22532	Float	4	R W	Percent	1 - 200
32-3	Time Delay	SG3 1P	22534	Float	4	R W	Millisecond	0 - 600000
32-3	Over Under	SG3 1P	22536	Uint32	4	R W	n/a	Over=0 Under=1
32-3	Direction	SG3 1P	22538	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-3	Alarm Configuration	SG3 1P	22540	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-3	Low-Line Scale	SG3 1P	22542	Float	4	R W	n/a	0.001 - 3
32-3	Mode	SG3 3P	22544	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-3	Source	SG3 3P	22546	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-3	Pickup	SG3 3P	22548	Float	4	R W	Percent	1 - 200
32-3	Time Delay	SG3 3P	22550	Float	4	R W	Millisecond	0 - 600000
32-3	Over Under	SG3 3P	22552	Uint32	4	R W	n/a	Over=0 Under=1
32-3	Direction	SG3 3P	22554	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-3	Alarm Configuration	SG3 3P	22556	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-3	Low-Line Scale	SG3 3P	22558	Float	4	R W	n/a	0.001 - 3
32-4	Mode	SG0 1P	22560	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-4	Source	SG0 1P	22562	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-4	Pickup	SG0 1P	22564	Float	4	R W	Percent	1 - 200
32-4	Time Delay	SG0 1P	22566	Float	4	R W	Millisecond	0 - 600000
32-4	Over Under	SG0 1P	22568	Uint32	4	R W	n/a	Over=0 Under=1
32-4	Direction	SG0 1P	22570	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-4	Alarm Configuration	SG0 1P	22572	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-4	Low-Line Scale	SG0 1P	22574	Float	4	R W	n/a	0.001 - 3
32-4	Mode	SG0 3P	22576	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-4	Source	SG0 3P	22578	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-4	Pickup	SG0 3P	22580	Float	4	R W	Percent	1 - 200
32-4	Time Delay	SG0 3P	22582	Float	4	R W	Millisecond	0 - 600000
32-4	Over Under	SG0 3P	22584	Uint32	4	R W	n/a	Over=0 Under=1
32-4	Direction	SG0 3P	22586	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-4	Alarm Configuration	SG0 3P	22588	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-4	Low-Line Scale	SG0 3P	22590	Float	4	R W	n/a	0.001 - 3
32-4	Mode	SG1 1P	22592	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-4	Source	SG1 1P	22594	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-4	Pickup	SG1 1P	22596	Float	4	R W	Percent	1 - 200
32-4	Time Delay	SG1 1P	22598	Float	4	R W	Millisecond	0 - 600000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
32-4	Over Under	SG1 1P	22600	Uint32	4	R W	n/a	Over=0 Under=1
32-4	Direction	SG1 1P	22602	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-4	Alarm Configuration	SG1 1P	22604	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-4	Low-Line Scale	SG1 1P	22606	Float	4	R W	n/a	0.001 - 3
32-4	Mode	SG1 3P	22608	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-4	Source	SG1 3P	22610	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-4	Pickup	SG1 3P	22612	Float	4	R W	Percent	1 - 200
32-4	Time Delay	SG1 3P	22614	Float	4	R W	Millisecond	0 - 600000
32-4	Over Under	SG1 3P	22616	Uint32	4	R W	n/a	Over=0 Under=1
32-4	Direction	SG1 3P	22618	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-4	Alarm Configuration	SG1 3P	22620	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-4	Low-Line Scale	SG1 3P	22622	Float	4	R W	n/a	0.001 - 3
32-4	Mode	SG2 1P	22624	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-4	Source	SG2 1P	22626	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-4	Pickup	SG2 1P	22628	Float	4	R W	Percent	1 - 200
32-4	Time Delay	SG2 1P	22630	Float	4	R W	Millisecond	0 - 600000
32-4	Over Under	SG2 1P	22632	Uint32	4	R W	n/a	Over=0 Under=1
32-4	Direction	SG2 1P	22634	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-4	Alarm Configuration	SG2 1P	22636	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-4	Low-Line Scale	SG2 1P	22638	Float	4	R W	n/a	0.001 - 3
32-4	Mode	SG2 3P	22640	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-4	Source	SG2 3P	22642	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-4	Pickup	SG2 3P	22644	Float	4	R W	Percent	1 - 200
32-4	Time Delay	SG2 3P	22646	Float	4	R W	Millisecond	0 - 600000
32-4	Over Under	SG2 3P	22648	Uint32	4	R W	n/a	Over=0 Under=1
32-4	Direction	SG2 3P	22650	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-4	Alarm Configuration	SG2 3P	22652	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-4	Low-Line Scale	SG2 3P	22654	Float	4	R W	n/a	0.001 - 3
32-4	Mode	SG3 1P	22656	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-4	Source	SG3 1P	22658	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-4	Pickup	SG3 1P	22660	Float	4	R W	Percent	1 - 200
32-4	Time Delay	SG3 1P	22662	Float	4	R W	Millisecond	0 - 600000
32-4	Over Under	SG3 1P	22664	Uint32	4	R W	n/a	Over=0 Under=1
32-4	Direction	SG3 1P	22666	Uint32	4	R W	n/a	Forward=0 Reverse=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
32-4	Alarm Configuration	SG3 1P	22668	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-4	Low-Line Scale	SG3 1P	22670	Float	4	R W	n/a	0.001 - 3
32-4	Mode	SG3 3P	22672	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-4	Source	SG3 3P	22674	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-4	Pickup	SG3 3P	22676	Float	4	R W	Percent	1 - 200
32-4	Time Delay	SG3 3P	22678	Float	4	R W	Millisecond	0 - 600000
32-4	Over Under	SG3 3P	22680	Uint32	4	R W	n/a	Over=0 Under=1
32-4	Direction	SG3 3P	22682	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-4	Alarm Configuration	SG3 3P	22684	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-4	Low-Line Scale	SG3 3P	22686	Float	4	R W	n/a	0.001 - 3
32-5	Mode	SG0 1P	22688	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-5	Source	SG0 1P	22690	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-5	Pickup	SG0 1P	22692	Float	4	R W	Percent	1 - 200
32-5	Time Delay	SG0 1P	22694	Float	4	R W	Millisecond	0 - 600000
32-5	Over Under	SG0 1P	22696	Uint32	4	R W	n/a	Over=0 Under=1
32-5	Direction	SG0 1P	22698	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-5	Alarm Configuration	SG0 1P	22700	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-5	Low-Line Scale	SG0 1P	22702	Float	4	R W	n/a	0.001 - 3
32-5	Mode	SG0 3P	22704	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-5	Source	SG0 3P	22706	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-5	Pickup	SG0 3P	22708	Float	4	R W	Percent	1 - 200
32-5	Time Delay	SG0 3P	22710	Float	4	R W	Millisecond	0 - 600000
32-5	Over Under	SG0 3P	22712	Uint32	4	R W	n/a	Over=0 Under=1
32-5	Direction	SG0 3P	22714	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-5	Alarm Configuration	SG0 3P	22716	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-5	Low-Line Scale	SG0 3P	22718	Float	4	R W	n/a	0.001 - 3
32-5	Mode	SG1 1P	22720	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-5	Source	SG1 1P	22722	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-5	Pickup	SG1 1P	22724	Float	4	R W	Percent	1 - 200
32-5	Time Delay	SG1 1P	22726	Float	4	R W	Millisecond	0 - 600000
32-5	Over Under	SG1 1P	22728	Uint32	4	R W	n/a	Over=0 Under=1
32-5	Direction	SG1 1P	22730	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-5	Alarm Configuration	SG1 1P	22732	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-5	Low-Line Scale	SG1 1P	22734	Float	4	R W	n/a	0.001 - 3

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
32-5	Mode	SG1 3P	22736	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-5	Source	SG1 3P	22738	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-5	Pickup	SG1 3P	22740	Float	4	R W	Percent	1 - 200
32-5	Time Delay	SG1 3P	22742	Float	4	R W	Millisecond	0 - 600000
32-5	Over Under	SG1 3P	22744	Uint32	4	R W	n/a	Over=0 Under=1
32-5	Direction	SG1 3P	22746	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-5	Alarm Configuration	SG1 3P	22748	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-5	Low-Line Scale	SG1 3P	22750	Float	4	R W	n/a	0.001 - 3
32-5	Mode	SG2 1P	22752	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-5	Source	SG2 1P	22754	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-5	Pickup	SG2 1P	22756	Float	4	R W	Percent	1 - 200
32-5	Time Delay	SG2 1P	22758	Float	4	R W	Millisecond	0 - 600000
32-5	Over Under	SG2 1P	22760	Uint32	4	R W	n/a	Over=0 Under=1
32-5	Direction	SG2 1P	22762	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-5	Alarm Configuration	SG2 1P	22764	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-5	Low-Line Scale	SG2 1P	22766	Float	4	R W	n/a	0.001 - 3
32-5	Mode	SG2 3P	22768	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-5	Source	SG2 3P	22770	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-5	Pickup	SG2 3P	22772	Float	4	R W	Percent	1 - 200
32-5	Time Delay	SG2 3P	22774	Float	4	R W	Millisecond	0 - 600000
32-5	Over Under	SG2 3P	22776	Uint32	4	R W	n/a	Over=0 Under=1
32-5	Direction	SG2 3P	22778	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-5	Alarm Configuration	SG2 3P	22780	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-5	Low-Line Scale	SG2 3P	22782	Float	4	R W	n/a	0.001 - 3
32-5	Mode	SG3 1P	22784	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-5	Source	SG3 1P	22786	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-5	Pickup	SG3 1P	22788	Float	4	R W	Percent	1 - 200
32-5	Time Delay	SG3 1P	22790	Float	4	R W	Millisecond	0 - 600000
32-5	Over Under	SG3 1P	22792	Uint32	4	R W	n/a	Over=0 Under=1
32-5	Direction	SG3 1P	22794	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-5	Alarm Configuration	SG3 1P	22796	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-5	Low-Line Scale	SG3 1P	22798	Float	4	R W	n/a	0.001 - 3
32-5	Mode	SG3 3P	22800	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-5	Source	SG3 3P	22802	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-5	Pickup	SG3 3P	22804	Float	4	R W	Percent	1 - 200
32-5	Time Delay	SG3 3P	22806	Float	4	R W	Millisecond	0 - 600000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
32-5	Over Under	SG3 3P	22808	Uint32	4	R W	n/a	Over=0 Under=1
32-5	Direction	SG3 3P	22810	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-5	Alarm Configuration	SG3 3P	22812	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-5	Low-Line Scale	SG3 3P	22814	Float	4	R W	n/a	0.001 - 3
32-6	Mode	SG0 1P	22816	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-6	Source	SG0 1P	22818	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-6	Pickup	SG0 1P	22820	Float	4	R W	Percent	1 - 200
32-6	Time Delay	SG0 1P	22822	Float	4	R W	Millisecond	0 - 600000
32-6	Over Under	SG0 1P	22824	Uint32	4	R W	n/a	Over=0 Under=1
32-6	Direction	SG0 1P	22826	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-6	Alarm Configuration	SG0 1P	22828	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-6	Low-Line Scale	SG0 1P	22830	Float	4	R W	n/a	0.001 - 3
32-6	Mode	SG0 3P	22832	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-6	Source	SG0 3P	22834	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-6	Pickup	SG0 3P	22836	Float	4	R W	Percent	1 - 200
32-6	Time Delay	SG0 3P	22838	Float	4	R W	Millisecond	0 - 600000
32-6	Over Under	SG0 3P	22840	Uint32	4	R W	n/a	Over=0 Under=1
32-6	Direction	SG0 3P	22842	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-6	Alarm Configuration	SG0 3P	22844	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-6	Low-Line Scale	SG0 3P	22846	Float	4	R W	n/a	0.001 - 3
32-6	Mode	SG1 1P	22848	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-6	Source	SG1 1P	22850	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-6	Pickup	SG1 1P	22852	Float	4	R W	Percent	1 - 200
32-6	Time Delay	SG1 1P	22854	Float	4	R W	Millisecond	0 - 600000
32-6	Over Under	SG1 1P	22856	Uint32	4	R W	n/a	Over=0 Under=1
32-6	Direction	SG1 1P	22858	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-6	Alarm Configuration	SG1 1P	22860	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-6	Low-Line Scale	SG1 1P	22862	Float	4	R W	n/a	0.001 - 3
32-6	Mode	SG1 3P	22864	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-6	Source	SG1 3P	22866	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-6	Pickup	SG1 3P	22868	Float	4	R W	Percent	1 - 200
32-6	Time Delay	SG1 3P	22870	Float	4	R W	Millisecond	0 - 600000
32-6	Over Under	SG1 3P	22872	Uint32	4	R W	n/a	Over=0 Under=1
32-6	Direction	SG1 3P	22874	Uint32	4	R W	n/a	Forward=0 Reverse=1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
32-6	Alarm Configuration	SG1 3P	22876	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-6	Low-Line Scale	SG1 3P	22878	Float	4	R W	n/a	0.001 - 3
32-6	Mode	SG2 1P	22880	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-6	Source	SG2 1P	22882	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-6	Pickup	SG2 1P	22884	Float	4	R W	Percent	1 - 200
32-6	Time Delay	SG2 1P	22886	Float	4	R W	Millisecond	0 - 600000
32-6	Over Under	SG2 1P	22888	Uint32	4	R W	n/a	Over=0 Under=1
32-6	Direction	SG2 1P	22890	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-6	Alarm Configuration	SG2 1P	22892	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-6	Low-Line Scale	SG2 1P	22894	Float	4	R W	n/a	0.001 - 3
32-6	Mode	SG2 3P	22896	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-6	Source	SG2 3P	22898	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-6	Pickup	SG2 3P	22900	Float	4	R W	Percent	1 - 200
32-6	Time Delay	SG2 3P	22902	Float	4	R W	Millisecond	0 - 600000
32-6	Over Under	SG2 3P	22904	Uint32	4	R W	n/a	Over=0 Under=1
32-6	Direction	SG2 3P	22906	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-6	Alarm Configuration	SG2 3P	22908	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-6	Low-Line Scale	SG2 3P	22910	Float	4	R W	n/a	0.001 - 3
32-6	Mode	SG3 1P	22912	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-6	Source	SG3 1P	22914	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-6	Pickup	SG3 1P	22916	Float	4	R W	Percent	1 - 200
32-6	Time Delay	SG3 1P	22918	Float	4	R W	Millisecond	0 - 600000
32-6	Over Under	SG3 1P	22920	Uint32	4	R W	n/a	Over=0 Under=1
32-6	Direction	SG3 1P	22922	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-6	Alarm Configuration	SG3 1P	22924	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-6	Low-Line Scale	SG3 1P	22926	Float	4	R W	n/a	0.001 - 3
32-6	Mode	SG3 3P	22928	Uint32	4	R W	n/a	Disabled=0 Enabled=4
32-6	Source	SG3 3P	22930	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
32-6	Pickup	SG3 3P	22932	Float	4	R W	Percent	1 - 200
32-6	Time Delay	SG3 3P	22934	Float	4	R W	Millisecond	0 - 600000
32-6	Over Under	SG3 3P	22936	Uint32	4	R W	n/a	Over=0 Under=1
32-6	Direction	SG3 3P	22938	Uint32	4	R W	n/a	Forward=0 Reverse=1
32-6	Alarm Configuration	SG3 3P	22940	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
32-6	Low-Line Scale	SG3 3P	22942	Float	4	R W	n/a	0.001 - 3

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-1	Mode	SG0 1P	22944	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-1	Source	SG0 1P	22946	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-1	Pickup	SG0 1P	22948	Float	4	R W	Amp	0.9 - 7.75
51-1	Curve Index	SG0 1P	22950	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-1	Direction	SG0 1P	22952	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-1	Use Instantaneous Reset	SG0 1P	22954	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-1	Constant TD	SG0 1P	22956	Float	4	R W	n/a	0 - 9.9
51-1	Constant A	SG0 1P	22958	Float	4	R W	n/a	0 - 600
51-1	Constant B	SG0 1P	22960	Float	4	R W	n/a	0 - 25
51-1	Constant C	SG0 1P	22962	Float	4	R W	n/a	0 - 1
51-1	Constant N	SG0 1P	22964	Float	4	R W	n/a	0.5 - 2.5
51-1	Constant R	SG0 1P	22966	Float	4	R W	n/a	0 - 30
51-1	Voltage Restraint Setpoint	SG0 1P	22968	Float	4	R W	Volt	30 - 250
51-1	Voltage Restraint Mode	SG0 1P	22970	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-1	Alarm Configuration	SG0 1P	22972	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-1	Low-Line Scale	SG0 1P	22974	Float	4	R W	n/a	0.001 - 3
51-1	Voltage Restraint Source	SG0 1P	22976	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-1	Constant Q	SG0 1P	22978	Float	4	R W	n/a	0.1 - 10
51-1	Mode	SG0 3P	22980	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-1	Source	SG0 3P	22982	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-1	Pickup	SG0 3P	22984	Float	4	R W	Amp	0.9 - 7.75

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-1	Curve Index	SG0 3P	22986	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-1	Direction	SG0 3P	22988	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-1	Use Instantaneous Reset	SG0 3P	22990	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-1	Constant TD	SG0 3P	22992	Float	4	R W	n/a	0 - 9.9
51-1	Constant A	SG0 3P	22994	Float	4	R W	n/a	0 - 600
51-1	Constant B	SG0 3P	22996	Float	4	R W	n/a	0 - 25
51-1	Constant C	SG0 3P	22998	Float	4	R W	n/a	0 - 1
51-1	Constant N	SG0 3P	23000	Float	4	R W	n/a	0.5 - 2.5
51-1	Constant R	SG0 3P	23002	Float	4	R W	n/a	0 - 30
51-1	Voltage Restraint Setpoint	SG0 3P	23004	Float	4	R W	Volt	30 - 250
51-1	Voltage Restraint Mode	SG0 3P	23006	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-1	Alarm Configuration	SG0 3P	23008	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-1	Low-Line Scale	SG0 3P	23010	Float	4	R W	n/a	0.001 - 3
51-1	Voltage Restraint Source	SG0 3P	23012	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-1	Constant Q	SG0 3P	23014	Float	4	R W	n/a	0.1 - 10
51-1	Mode	SG1 1P	23016	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-1	Source	SG1 1P	23018	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-1	Pickup	SG1 1P	23020	Float	4	R W	Amp	0.9 - 7.75
51-1	Curve Index	SG1 1P	23022	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-1	Direction	SG1 1P	23024	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-1	Use Instantaneous Reset	SG1 1P	23026	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-1	Constant TD	SG1 1P	23028	Float	4	R W	n/a	0 - 9.9
51-1	Constant A	SG1 1P	23030	Float	4	R W	n/a	0 - 600
51-1	Constant B	SG1 1P	23032	Float	4	R W	n/a	0 - 25
51-1	Constant C	SG1 1P	23034	Float	4	R W	n/a	0 - 1
51-1	Constant N	SG1 1P	23036	Float	4	R W	n/a	0.5 - 2.5
51-1	Constant R	SG1 1P	23038	Float	4	R W	n/a	0 - 30
51-1	Voltage Restraint Setpoint	SG1 1P	23040	Float	4	R W	Volt	30 - 250
51-1	Voltage Restraint Mode	SG1 1P	23042	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-1	Alarm Configuration	SG1 1P	23044	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-1	Low-Line Scale	SG1 1P	23046	Float	4	R W	n/a	0.001 - 3
51-1	Voltage Restraint Source	SG1 1P	23048	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-1	Constant Q	SG1 1P	23050	Float	4	R W	n/a	0.1 - 10
51-1	Mode	SG1 3P	23052	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 I _{max} =4 3I0=5 I2=6 IG=7 I1=8
51-1	Source	SG1 3P	23054	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-1	Pickup	SG1 3P	23056	Float	4	R W	Amp	0.9 - 7.75
51-1	Curve Index	SG1 3P	23058	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-1	Direction	SG1 3P	23060	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-1	Use Instantaneous Reset	SG1 3P	23062	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-1	Constant TD	SG1 3P	23064	Float	4	R W	n/a	0 - 9.9
51-1	Constant A	SG1 3P	23066	Float	4	R W	n/a	0 - 600
51-1	Constant B	SG1 3P	23068	Float	4	R W	n/a	0 - 25
51-1	Constant C	SG1 3P	23070	Float	4	R W	n/a	0 - 1
51-1	Constant N	SG1 3P	23072	Float	4	R W	n/a	0.5 - 2.5
51-1	Constant R	SG1 3P	23074	Float	4	R W	n/a	0 - 30
51-1	Voltage Restraint Setpoint	SG1 3P	23076	Float	4	R W	Volt	30 - 250
51-1	Voltage Restraint Mode	SG1 3P	23078	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-1	Alarm Configuration	SG1 3P	23080	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-1	Low-Line Scale	SG1 3P	23082	Float	4	R W	n/a	0.001 - 3
51-1	Voltage Restraint Source	SG1 3P	23084	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-1	Constant Q	SG1 3P	23086	Float	4	R W	n/a	0.1 - 10
51-1	Mode	SG2 1P	23088	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-1	Source	SG2 1P	23090	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-1	Pickup	SG2 1P	23092	Float	4	R W	Amp	0.9 - 7.75
51-1	Curve Index	SG2 1P	23094	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-1	Direction	SG2 1P	23096	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-1	Use Instantaneous Reset	SG2 1P	23098	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-1	Constant TD	SG2 1P	23100	Float	4	R W	n/a	0 - 9.9
51-1	Constant A	SG2 1P	23102	Float	4	R W	n/a	0 - 600
51-1	Constant B	SG2 1P	23104	Float	4	R W	n/a	0 - 25
51-1	Constant C	SG2 1P	23106	Float	4	R W	n/a	0 - 1
51-1	Constant N	SG2 1P	23108	Float	4	R W	n/a	0.5 - 2.5
51-1	Constant R	SG2 1P	23110	Float	4	R W	n/a	0 - 30
51-1	Voltage Restraint Setpoint	SG2 1P	23112	Float	4	R W	Volt	30 - 250
51-1	Voltage Restraint Mode	SG2 1P	23114	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-1	Alarm Configuration	SG2 1P	23116	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-1	Low-Line Scale	SG2 1P	23118	Float	4	R W	n/a	0.001 - 3
51-1	Voltage Restraint Source	SG2 1P	23120	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-1	Constant Q	SG2 1P	23122	Float	4	R W	n/a	0.1 - 10
51-1	Mode	SG2 3P	23124	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-1	Source	SG2 3P	23126	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-1	Pickup	SG2 3P	23128	Float	4	R W	Amp	0.9 - 7.75

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-1	Curve Index	SG2 3P	23130	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-1	Direction	SG2 3P	23132	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-1	Use Instantaneous Reset	SG2 3P	23134	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-1	Constant TD	SG2 3P	23136	Float	4	R W	n/a	0 - 9.9
51-1	Constant A	SG2 3P	23138	Float	4	R W	n/a	0 - 600
51-1	Constant B	SG2 3P	23140	Float	4	R W	n/a	0 - 25
51-1	Constant C	SG2 3P	23142	Float	4	R W	n/a	0 - 1
51-1	Constant N	SG2 3P	23144	Float	4	R W	n/a	0.5 - 2.5
51-1	Constant R	SG2 3P	23146	Float	4	R W	n/a	0 - 30
51-1	Voltage Restraint Setpoint	SG2 3P	23148	Float	4	R W	Volt	30 - 250
51-1	Voltage Restraint Mode	SG2 3P	23150	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-1	Alarm Configuration	SG2 3P	23152	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-1	Low-Line Scale	SG2 3P	23154	Float	4	R W	n/a	0.001 - 3
51-1	Voltage Restraint Source	SG2 3P	23156	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-1	Constant Q	SG2 3P	23158	Float	4	R W	n/a	0.1 - 10
51-1	Mode	SG3 1P	23160	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-1	Source	SG3 1P	23162	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-1	Pickup	SG3 1P	23164	Float	4	R W	Amp	0.9 - 7.75
51-1	Curve Index	SG3 1P	23166	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-1	Direction	SG3 1P	23168	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-1	Use Instantaneous Reset	SG3 1P	23170	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-1	Constant TD	SG3 1P	23172	Float	4	R W	n/a	0 - 9.9
51-1	Constant A	SG3 1P	23174	Float	4	R W	n/a	0 - 600
51-1	Constant B	SG3 1P	23176	Float	4	R W	n/a	0 - 25
51-1	Constant C	SG3 1P	23178	Float	4	R W	n/a	0 - 1
51-1	Constant N	SG3 1P	23180	Float	4	R W	n/a	0.5 - 2.5
51-1	Constant R	SG3 1P	23182	Float	4	R W	n/a	0 - 30
51-1	Voltage Restraint Setpoint	SG3 1P	23184	Float	4	R W	Volt	30 - 250
51-1	Voltage Restraint Mode	SG3 1P	23186	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-1	Alarm Configuration	SG3 1P	23188	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-1	Low-Line Scale	SG3 1P	23190	Float	4	R W	n/a	0.001 - 3
51-1	Voltage Restraint Source	SG3 1P	23192	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-1	Constant Q	SG3 1P	23194	Float	4	R W	n/a	0.1 - 10
51-1	Mode	SG3 3P	23196	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 I _{max} =4 3I0=5 I2=6 IG=7 I1=8
51-1	Source	SG3 3P	23198	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-1	Pickup	SG3 3P	23200	Float	4	R W	Amp	0.9 - 7.75
51-1	Curve Index	SG3 3P	23202	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-1	Direction	SG3 3P	23204	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-1	Use Instantaneous Reset	SG3 3P	23206	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-1	Constant TD	SG3 3P	23208	Float	4	R W	n/a	0 - 9.9
51-1	Constant A	SG3 3P	23210	Float	4	R W	n/a	0 - 600
51-1	Constant B	SG3 3P	23212	Float	4	R W	n/a	0 - 25
51-1	Constant C	SG3 3P	23214	Float	4	R W	n/a	0 - 1
51-1	Constant N	SG3 3P	23216	Float	4	R W	n/a	0.5 - 2.5
51-1	Constant R	SG3 3P	23218	Float	4	R W	n/a	0 - 30
51-1	Voltage Restraint Setpoint	SG3 3P	23220	Float	4	R W	Volt	30 - 250
51-1	Voltage Restraint Mode	SG3 3P	23222	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-1	Alarm Configuration	SG3 3P	23224	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-1	Low-Line Scale	SG3 3P	23226	Float	4	R W	n/a	0.001 - 3
51-1	Voltage Restraint Source	SG3 3P	23228	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-1	Constant Q	SG3 3P	23230	Float	4	R W	n/a	0.1 - 10
51-2	Mode	SG0 1P	23232	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-2	Source	SG0 1P	23234	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-2	Pickup	SG0 1P	23236	Float	4	R W	Amp	0.9 - 7.75
51-2	Curve Index	SG0 1P	23238	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-2	Direction	SG0 1P	23240	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-2	Use Instantaneous Reset	SG0 1P	23242	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-2	Constant TD	SG0 1P	23244	Float	4	R W	n/a	0 - 9.9
51-2	Constant A	SG0 1P	23246	Float	4	R W	n/a	0 - 600
51-2	Constant B	SG0 1P	23248	Float	4	R W	n/a	0 - 25
51-2	Constant C	SG0 1P	23250	Float	4	R W	n/a	0 - 1
51-2	Constant N	SG0 1P	23252	Float	4	R W	n/a	0.5 - 2.5
51-2	Constant R	SG0 1P	23254	Float	4	R W	n/a	0 - 30
51-2	Voltage Restraint Setpoint	SG0 1P	23256	Float	4	R W	Volt	30 - 250
51-2	Voltage Restraint Mode	SG0 1P	23258	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-2	Alarm Configuration	SG0 1P	23260	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-2	Low-Line Scale	SG0 1P	23262	Float	4	R W	n/a	0.001 - 3
51-2	Voltage Restraint Source	SG0 1P	23264	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-2	Constant Q	SG0 1P	23266	Float	4	R W	n/a	0.1 - 10
51-2	Mode	SG0 3P	23268	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-2	Source	SG0 3P	23270	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-2	Pickup	SG0 3P	23272	Float	4	R W	Amp	0.9 - 7.75

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-2	Curve Index	SG0 3P	23274	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-2	Direction	SG0 3P	23276	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-2	Use Instantaneous Reset	SG0 3P	23278	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-2	Constant TD	SG0 3P	23280	Float	4	R W	n/a	0 - 9.9
51-2	Constant A	SG0 3P	23282	Float	4	R W	n/a	0 - 600
51-2	Constant B	SG0 3P	23284	Float	4	R W	n/a	0 - 25
51-2	Constant C	SG0 3P	23286	Float	4	R W	n/a	0 - 1
51-2	Constant N	SG0 3P	23288	Float	4	R W	n/a	0.5 - 2.5
51-2	Constant R	SG0 3P	23290	Float	4	R W	n/a	0 - 30
51-2	Voltage Restraint Setpoint	SG0 3P	23292	Float	4	R W	Volt	30 - 250
51-2	Voltage Restraint Mode	SG0 3P	23294	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-2	Alarm Configuration	SG0 3P	23296	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-2	Low-Line Scale	SG0 3P	23298	Float	4	R W	n/a	0.001 - 3
51-2	Voltage Restraint Source	SG0 3P	23300	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-2	Constant Q	SG0 3P	23302	Float	4	R W	n/a	0.1 - 10
51-2	Mode	SG1 1P	23304	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-2	Source	SG1 1P	23306	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-2	Pickup	SG1 1P	23308	Float	4	R W	Amp	0.9 - 7.75
51-2	Curve Index	SG1 1P	23310	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-2	Direction	SG1 1P	23312	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-2	Use Instantaneous Reset	SG1 1P	23314	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-2	Constant TD	SG1 1P	23316	Float	4	R W	n/a	0 - 9.9
51-2	Constant A	SG1 1P	23318	Float	4	R W	n/a	0 - 600
51-2	Constant B	SG1 1P	23320	Float	4	R W	n/a	0 - 25
51-2	Constant C	SG1 1P	23322	Float	4	R W	n/a	0 - 1
51-2	Constant N	SG1 1P	23324	Float	4	R W	n/a	0.5 - 2.5
51-2	Constant R	SG1 1P	23326	Float	4	R W	n/a	0 - 30
51-2	Voltage Restraint Setpoint	SG1 1P	23328	Float	4	R W	Volt	30 - 250
51-2	Voltage Restraint Mode	SG1 1P	23330	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-2	Alarm Configuration	SG1 1P	23332	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-2	Low-Line Scale	SG1 1P	23334	Float	4	R W	n/a	0.001 - 3
51-2	Voltage Restraint Source	SG1 1P	23336	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-2	Constant Q	SG1 1P	23338	Float	4	R W	n/a	0.1 - 10
51-2	Mode	SG1 3P	23340	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 I _{max} =4 3I0=5 I2=6 IG=7 I1=8
51-2	Source	SG1 3P	23342	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-2	Pickup	SG1 3P	23344	Float	4	R W	Amp	0.9 - 7.75
51-2	Curve Index	SG1 3P	23346	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-2	Direction	SG1 3P	23348	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-2	Use Instantaneous Reset	SG1 3P	23350	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-2	Constant TD	SG1 3P	23352	Float	4	R W	n/a	0 - 9.9
51-2	Constant A	SG1 3P	23354	Float	4	R W	n/a	0 - 600
51-2	Constant B	SG1 3P	23356	Float	4	R W	n/a	0 - 25
51-2	Constant C	SG1 3P	23358	Float	4	R W	n/a	0 - 1
51-2	Constant N	SG1 3P	23360	Float	4	R W	n/a	0.5 - 2.5
51-2	Constant R	SG1 3P	23362	Float	4	R W	n/a	0 - 30
51-2	Voltage Restraint Setpoint	SG1 3P	23364	Float	4	R W	Volt	30 - 250
51-2	Voltage Restraint Mode	SG1 3P	23366	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-2	Alarm Configuration	SG1 3P	23368	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-2	Low-Line Scale	SG1 3P	23370	Float	4	R W	n/a	0.001 - 3
51-2	Voltage Restraint Source	SG1 3P	23372	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-2	Constant Q	SG1 3P	23374	Float	4	R W	n/a	0.1 - 10
51-2	Mode	SG2 1P	23376	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-2	Source	SG2 1P	23378	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-2	Pickup	SG2 1P	23380	Float	4	R W	Amp	0.9 - 7.75
51-2	Curve Index	SG2 1P	23382	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-2	Direction	SG2 1P	23384	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-2	Use Instantaneous Reset	SG2 1P	23386	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-2	Constant TD	SG2 1P	23388	Float	4	R W	n/a	0 - 9.9
51-2	Constant A	SG2 1P	23390	Float	4	R W	n/a	0 - 600
51-2	Constant B	SG2 1P	23392	Float	4	R W	n/a	0 - 25
51-2	Constant C	SG2 1P	23394	Float	4	R W	n/a	0 - 1
51-2	Constant N	SG2 1P	23396	Float	4	R W	n/a	0.5 - 2.5
51-2	Constant R	SG2 1P	23398	Float	4	R W	n/a	0 - 30
51-2	Voltage Restraint Setpoint	SG2 1P	23400	Float	4	R W	Volt	30 - 250
51-2	Voltage Restraint Mode	SG2 1P	23402	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-2	Alarm Configuration	SG2 1P	23404	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-2	Low-Line Scale	SG2 1P	23406	Float	4	R W	n/a	0.001 - 3
51-2	Voltage Restraint Source	SG2 1P	23408	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-2	Constant Q	SG2 1P	23410	Float	4	R W	n/a	0.1 - 10
51-2	Mode	SG2 3P	23412	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-2	Source	SG2 3P	23414	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-2	Pickup	SG2 3P	23416	Float	4	R W	Amp	0.9 - 7.75

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-2	Curve Index	SG2 3P	23418	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-2	Direction	SG2 3P	23420	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-2	Use Instantaneous Reset	SG2 3P	23422	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-2	Constant TD	SG2 3P	23424	Float	4	R W	n/a	0 - 9.9
51-2	Constant A	SG2 3P	23426	Float	4	R W	n/a	0 - 600
51-2	Constant B	SG2 3P	23428	Float	4	R W	n/a	0 - 25
51-2	Constant C	SG2 3P	23430	Float	4	R W	n/a	0 - 1
51-2	Constant N	SG2 3P	23432	Float	4	R W	n/a	0.5 - 2.5
51-2	Constant R	SG2 3P	23434	Float	4	R W	n/a	0 - 30
51-2	Voltage Restraint Setpoint	SG2 3P	23436	Float	4	R W	Volt	30 - 250
51-2	Voltage Restraint Mode	SG2 3P	23438	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-2	Alarm Configuration	SG2 3P	23440	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-2	Low-Line Scale	SG2 3P	23442	Float	4	R W	n/a	0.001 - 3
51-2	Voltage Restraint Source	SG2 3P	23444	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-2	Constant Q	SG2 3P	23446	Float	4	R W	n/a	0.1 - 10
51-2	Mode	SG3 1P	23448	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-2	Source	SG3 1P	23450	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-2	Pickup	SG3 1P	23452	Float	4	R W	Amp	0.9 - 7.75
51-2	Curve Index	SG3 1P	23454	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-2	Direction	SG3 1P	23456	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-2	Use Instantaneous Reset	SG3 1P	23458	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
51-2	Constant TD	SG3 1P	23460	Float	4	R W	n/a	0 - 9.9
51-2	Constant A	SG3 1P	23462	Float	4	R W	n/a	0 - 600
51-2	Constant B	SG3 1P	23464	Float	4	R W	n/a	0 - 25
51-2	Constant C	SG3 1P	23466	Float	4	R W	n/a	0 - 1
51-2	Constant N	SG3 1P	23468	Float	4	R W	n/a	0.5 - 2.5
51-2	Constant R	SG3 1P	23470	Float	4	R W	n/a	0 - 30
51-2	Voltage Restraint Setpoint	SG3 1P	23472	Float	4	R W	Volt	30 - 250
51-2	Voltage Restraint Mode	SG3 1P	23474	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-2	Alarm Configuration	SG3 1P	23476	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-2	Low-Line Scale	SG3 1P	23478	Float	4	R W	n/a	0.001 - 3
51-2	Voltage Restraint Source	SG3 1P	23480	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-2	Constant Q	SG3 1P	23482	Float	4	R W	n/a	0.1 - 10
51-2	Mode	SG3 3P	23484	UInt32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 I _{max} =4 3I0=5 I2=6 IG=7 I1=8
51-2	Source	SG3 3P	23486	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-2	Pickup	SG3 3P	23488	Float	4	R W	Amp	0.9 - 7.75
51-2	Curve Index	SG3 3P	23490	UInt32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-2	Direction	SG3 3P	23492	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-2	Use Instantaneous Reset	SG3 3P	23494	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
51-2	Constant TD	SG3 3P	23496	Float	4	R W	n/a	0 - 9.9
51-2	Constant A	SG3 3P	23498	Float	4	R W	n/a	0 - 600
51-2	Constant B	SG3 3P	23500	Float	4	R W	n/a	0 - 25
51-2	Constant C	SG3 3P	23502	Float	4	R W	n/a	0 - 1
51-2	Constant N	SG3 3P	23504	Float	4	R W	n/a	0.5 - 2.5
51-2	Constant R	SG3 3P	23506	Float	4	R W	n/a	0 - 30
51-2	Voltage Restraint Setpoint	SG3 3P	23508	Float	4	R W	Volt	30 - 250
51-2	Voltage Restraint Mode	SG3 3P	23510	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-2	Alarm Configuration	SG3 3P	23512	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-2	Low-Line Scale	SG3 3P	23514	Float	4	R W	n/a	0.001 - 3
51-2	Voltage Restraint Source	SG3 3P	23516	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-2	Constant Q	SG3 3P	23518	Float	4	R W	n/a	0.1 - 10
51-3	Mode	SG0 1P	23520	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-3	Source	SG0 1P	23522	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-3	Pickup	SG0 1P	23524	Float	4	R W	Amp	0.9 - 7.75
51-3	Curve Index	SG0 1P	23526	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-3	Direction	SG0 1P	23528	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-3	Use Instantaneous Reset	SG0 1P	23530	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-3	Constant TD	SG0 1P	23532	Float	4	R W	n/a	0 - 9.9
51-3	Constant A	SG0 1P	23534	Float	4	R W	n/a	0 - 600
51-3	Constant B	SG0 1P	23536	Float	4	R W	n/a	0 - 25
51-3	Constant C	SG0 1P	23538	Float	4	R W	n/a	0 - 1
51-3	Constant N	SG0 1P	23540	Float	4	R W	n/a	0.5 - 2.5
51-3	Constant R	SG0 1P	23542	Float	4	R W	n/a	0 - 30
51-3	Voltage Restraint Setpoint	SG0 1P	23544	Float	4	R W	Volt	30 - 250
51-3	Voltage Restraint Mode	SG0 1P	23546	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-3	Alarm Configuration	SG0 1P	23548	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-3	Low-Line Scale	SG0 1P	23550	Float	4	R W	n/a	0.001 - 3
51-3	Voltage Restraint Source	SG0 1P	23552	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-3	Constant Q	SG0 1P	23554	Float	4	R W	n/a	0.1 - 10
51-3	Mode	SG0 3P	23556	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-3	Source	SG0 3P	23558	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-3	Pickup	SG0 3P	23560	Float	4	R W	Amp	0.9 - 7.75

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-3	Curve Index	SG0 3P	23562	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-3	Direction	SG0 3P	23564	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-3	Use Instantaneous Reset	SG0 3P	23566	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-3	Constant TD	SG0 3P	23568	Float	4	R W	n/a	0 - 9.9
51-3	Constant A	SG0 3P	23570	Float	4	R W	n/a	0 - 600
51-3	Constant B	SG0 3P	23572	Float	4	R W	n/a	0 - 25
51-3	Constant C	SG0 3P	23574	Float	4	R W	n/a	0 - 1
51-3	Constant N	SG0 3P	23576	Float	4	R W	n/a	0.5 - 2.5
51-3	Constant R	SG0 3P	23578	Float	4	R W	n/a	0 - 30
51-3	Voltage Restraint Setpoint	SG0 3P	23580	Float	4	R W	Volt	30 - 250
51-3	Voltage Restraint Mode	SG0 3P	23582	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-3	Alarm Configuration	SG0 3P	23584	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-3	Low-Line Scale	SG0 3P	23586	Float	4	R W	n/a	0.001 - 3
51-3	Voltage Restraint Source	SG0 3P	23588	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-3	Constant Q	SG0 3P	23590	Float	4	R W	n/a	0.1 - 10
51-3	Mode	SG1 1P	23592	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-3	Source	SG1 1P	23594	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-3	Pickup	SG1 1P	23596	Float	4	R W	Amp	0.9 - 7.75
51-3	Curve Index	SG1 1P	23598	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-3	Direction	SG1 1P	23600	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-3	Use Instantaneous Reset	SG1 1P	23602	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-3	Constant TD	SG1 1P	23604	Float	4	R W	n/a	0 - 9.9
51-3	Constant A	SG1 1P	23606	Float	4	R W	n/a	0 - 600
51-3	Constant B	SG1 1P	23608	Float	4	R W	n/a	0 - 25
51-3	Constant C	SG1 1P	23610	Float	4	R W	n/a	0 - 1
51-3	Constant N	SG1 1P	23612	Float	4	R W	n/a	0.5 - 2.5
51-3	Constant R	SG1 1P	23614	Float	4	R W	n/a	0 - 30
51-3	Voltage Restraint Setpoint	SG1 1P	23616	Float	4	R W	Volt	30 - 250
51-3	Voltage Restraint Mode	SG1 1P	23618	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-3	Alarm Configuration	SG1 1P	23620	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-3	Low-Line Scale	SG1 1P	23622	Float	4	R W	n/a	0.001 - 3
51-3	Voltage Restraint Source	SG1 1P	23624	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-3	Constant Q	SG1 1P	23626	Float	4	R W	n/a	0.1 - 10
51-3	Mode	SG1 3P	23628	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 I _{max} =4 3I0=5 I2=6 IG=7 I1=8
51-3	Source	SG1 3P	23630	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-3	Pickup	SG1 3P	23632	Float	4	R W	Amp	0.9 - 7.75
51-3	Curve Index	SG1 3P	23634	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-3	Direction	SG1 3P	23636	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-3	Use Instantaneous Reset	SG1 3P	23638	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-3	Constant TD	SG1 3P	23640	Float	4	R W	n/a	0 - 9.9
51-3	Constant A	SG1 3P	23642	Float	4	R W	n/a	0 - 600
51-3	Constant B	SG1 3P	23644	Float	4	R W	n/a	0 - 25
51-3	Constant C	SG1 3P	23646	Float	4	R W	n/a	0 - 1
51-3	Constant N	SG1 3P	23648	Float	4	R W	n/a	0.5 - 2.5
51-3	Constant R	SG1 3P	23650	Float	4	R W	n/a	0 - 30
51-3	Voltage Restraint Setpoint	SG1 3P	23652	Float	4	R W	Volt	30 - 250
51-3	Voltage Restraint Mode	SG1 3P	23654	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-3	Alarm Configuration	SG1 3P	23656	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-3	Low-Line Scale	SG1 3P	23658	Float	4	R W	n/a	0.001 - 3
51-3	Voltage Restraint Source	SG1 3P	23660	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-3	Constant Q	SG1 3P	23662	Float	4	R W	n/a	0.1 - 10
51-3	Mode	SG2 1P	23664	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 I _{max} =4 3I0=5 I2=6 IG=7 I1=8
51-3	Source	SG2 1P	23666	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-3	Pickup	SG2 1P	23668	Float	4	R W	Amp	0.9 - 7.75
51-3	Curve Index	SG2 1P	23670	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-3	Direction	SG2 1P	23672	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-3	Use Instantaneous Reset	SG2 1P	23674	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-3	Constant TD	SG2 1P	23676	Float	4	R W	n/a	0 - 9.9
51-3	Constant A	SG2 1P	23678	Float	4	R W	n/a	0 - 600
51-3	Constant B	SG2 1P	23680	Float	4	R W	n/a	0 - 25
51-3	Constant C	SG2 1P	23682	Float	4	R W	n/a	0 - 1
51-3	Constant N	SG2 1P	23684	Float	4	R W	n/a	0.5 - 2.5
51-3	Constant R	SG2 1P	23686	Float	4	R W	n/a	0 - 30
51-3	Voltage Restraint Setpoint	SG2 1P	23688	Float	4	R W	Volt	30 - 250
51-3	Voltage Restraint Mode	SG2 1P	23690	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-3	Alarm Configuration	SG2 1P	23692	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-3	Low-Line Scale	SG2 1P	23694	Float	4	R W	n/a	0.001 - 3
51-3	Voltage Restraint Source	SG2 1P	23696	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-3	Constant Q	SG2 1P	23698	Float	4	R W	n/a	0.1 - 10
51-3	Mode	SG2 3P	23700	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 I _{max} =4 3I0=5 I2=6 IG=7 I1=8
51-3	Source	SG2 3P	23702	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-3	Pickup	SG2 3P	23704	Float	4	R W	Amp	0.9 - 7.75

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-3	Curve Index	SG2 3P	23706	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-3	Direction	SG2 3P	23708	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-3	Use Instantaneous Reset	SG2 3P	23710	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-3	Constant TD	SG2 3P	23712	Float	4	R W	n/a	0 - 9.9
51-3	Constant A	SG2 3P	23714	Float	4	R W	n/a	0 - 600
51-3	Constant B	SG2 3P	23716	Float	4	R W	n/a	0 - 25
51-3	Constant C	SG2 3P	23718	Float	4	R W	n/a	0 - 1
51-3	Constant N	SG2 3P	23720	Float	4	R W	n/a	0.5 - 2.5
51-3	Constant R	SG2 3P	23722	Float	4	R W	n/a	0 - 30
51-3	Voltage Restraint Setpoint	SG2 3P	23724	Float	4	R W	Volt	30 - 250
51-3	Voltage Restraint Mode	SG2 3P	23726	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-3	Alarm Configuration	SG2 3P	23728	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-3	Low-Line Scale	SG2 3P	23730	Float	4	R W	n/a	0.001 - 3
51-3	Voltage Restraint Source	SG2 3P	23732	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-3	Constant Q	SG2 3P	23734	Float	4	R W	n/a	0.1 - 10
51-3	Mode	SG3 1P	23736	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-3	Source	SG3 1P	23738	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-3	Pickup	SG3 1P	23740	Float	4	R W	Amp	0.9 - 7.75
51-3	Curve Index	SG3 1P	23742	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-3	Direction	SG3 1P	23744	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-3	Use Instantaneous Reset	SG3 1P	23746	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
51-3	Constant TD	SG3 1P	23748	Float	4	R W	n/a	0 - 9.9
51-3	Constant A	SG3 1P	23750	Float	4	R W	n/a	0 - 600
51-3	Constant B	SG3 1P	23752	Float	4	R W	n/a	0 - 25
51-3	Constant C	SG3 1P	23754	Float	4	R W	n/a	0 - 1
51-3	Constant N	SG3 1P	23756	Float	4	R W	n/a	0.5 - 2.5
51-3	Constant R	SG3 1P	23758	Float	4	R W	n/a	0 - 30
51-3	Voltage Restraint Setpoint	SG3 1P	23760	Float	4	R W	Volt	30 - 250
51-3	Voltage Restraint Mode	SG3 1P	23762	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-3	Alarm Configuration	SG3 1P	23764	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-3	Low-Line Scale	SG3 1P	23766	Float	4	R W	n/a	0.001 - 3
51-3	Voltage Restraint Source	SG3 1P	23768	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-3	Constant Q	SG3 1P	23770	Float	4	R W	n/a	0.1 - 10
51-3	Mode	SG3 3P	23772	UInt32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 I _{max} =4 3I0=5 I2=6 IG=7 I1=8
51-3	Source	SG3 3P	23774	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-3	Pickup	SG3 3P	23776	Float	4	R W	Amp	0.9 - 7.75
51-3	Curve Index	SG3 3P	23778	UInt32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-3	Direction	SG3 3P	23780	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-3	Use Instantaneous Reset	SG3 3P	23782	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
51-3	Constant TD	SG3 3P	23784	Float	4	R W	n/a	0 - 9.9
51-3	Constant A	SG3 3P	23786	Float	4	R W	n/a	0 - 600
51-3	Constant B	SG3 3P	23788	Float	4	R W	n/a	0 - 25
51-3	Constant C	SG3 3P	23790	Float	4	R W	n/a	0 - 1
51-3	Constant N	SG3 3P	23792	Float	4	R W	n/a	0.5 - 2.5
51-3	Constant R	SG3 3P	23794	Float	4	R W	n/a	0 - 30
51-3	Voltage Restraint Setpoint	SG3 3P	23796	Float	4	R W	Volt	30 - 250
51-3	Voltage Restraint Mode	SG3 3P	23798	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-3	Alarm Configuration	SG3 3P	23800	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-3	Low-Line Scale	SG3 3P	23802	Float	4	R W	n/a	0.001 - 3
51-3	Voltage Restraint Source	SG3 3P	23804	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-3	Constant Q	SG3 3P	23806	Float	4	R W	n/a	0.1 - 10
51-4	Mode	SG0 1P	23808	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-4	Source	SG0 1P	23810	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-4	Pickup	SG0 1P	23812	Float	4	R W	Amp	0.9 - 7.75
51-4	Curve Index	SG0 1P	23814	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-4	Direction	SG0 1P	23816	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-4	Use Instantaneous Reset	SG0 1P	23818	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-4	Constant TD	SG0 1P	23820	Float	4	R W	n/a	0 - 9.9
51-4	Constant A	SG0 1P	23822	Float	4	R W	n/a	0 - 600
51-4	Constant B	SG0 1P	23824	Float	4	R W	n/a	0 - 25
51-4	Constant C	SG0 1P	23826	Float	4	R W	n/a	0 - 1
51-4	Constant N	SG0 1P	23828	Float	4	R W	n/a	0.5 - 2.5
51-4	Constant R	SG0 1P	23830	Float	4	R W	n/a	0 - 30
51-4	Voltage Restraint Setpoint	SG0 1P	23832	Float	4	R W	Volt	30 - 250
51-4	Voltage Restraint Mode	SG0 1P	23834	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-4	Alarm Configuration	SG0 1P	23836	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-4	Low-Line Scale	SG0 1P	23838	Float	4	R W	n/a	0.001 - 3
51-4	Voltage Restraint Source	SG0 1P	23840	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-4	Constant Q	SG0 1P	23842	Float	4	R W	n/a	0.1 - 10
51-4	Mode	SG0 3P	23844	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-4	Source	SG0 3P	23846	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-4	Pickup	SG0 3P	23848	Float	4	R W	Amp	0.9 - 7.75

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-4	Curve Index	SG0 3P	23850	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-4	Direction	SG0 3P	23852	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-4	Use Instantaneous Reset	SG0 3P	23854	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-4	Constant TD	SG0 3P	23856	Float	4	R W	n/a	0 - 9.9
51-4	Constant A	SG0 3P	23858	Float	4	R W	n/a	0 - 600
51-4	Constant B	SG0 3P	23860	Float	4	R W	n/a	0 - 25
51-4	Constant C	SG0 3P	23862	Float	4	R W	n/a	0 - 1
51-4	Constant N	SG0 3P	23864	Float	4	R W	n/a	0.5 - 2.5
51-4	Constant R	SG0 3P	23866	Float	4	R W	n/a	0 - 30
51-4	Voltage Restraint Setpoint	SG0 3P	23868	Float	4	R W	Volt	30 - 250
51-4	Voltage Restraint Mode	SG0 3P	23870	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-4	Alarm Configuration	SG0 3P	23872	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-4	Low-Line Scale	SG0 3P	23874	Float	4	R W	n/a	0.001 - 3
51-4	Voltage Restraint Source	SG0 3P	23876	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-4	Constant Q	SG0 3P	23878	Float	4	R W	n/a	0.1 - 10
51-4	Mode	SG1 1P	23880	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-4	Source	SG1 1P	23882	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-4	Pickup	SG1 1P	23884	Float	4	R W	Amp	0.9 - 7.75
51-4	Curve Index	SG1 1P	23886	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-4	Direction	SG1 1P	23888	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-4	Use Instantaneous Reset	SG1 1P	23890	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-4	Constant TD	SG1 1P	23892	Float	4	R W	n/a	0 - 9.9
51-4	Constant A	SG1 1P	23894	Float	4	R W	n/a	0 - 600
51-4	Constant B	SG1 1P	23896	Float	4	R W	n/a	0 - 25
51-4	Constant C	SG1 1P	23898	Float	4	R W	n/a	0 - 1
51-4	Constant N	SG1 1P	23900	Float	4	R W	n/a	0.5 - 2.5
51-4	Constant R	SG1 1P	23902	Float	4	R W	n/a	0 - 30
51-4	Voltage Restraint Setpoint	SG1 1P	23904	Float	4	R W	Volt	30 - 250
51-4	Voltage Restraint Mode	SG1 1P	23906	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-4	Alarm Configuration	SG1 1P	23908	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-4	Low-Line Scale	SG1 1P	23910	Float	4	R W	n/a	0.001 - 3
51-4	Voltage Restraint Source	SG1 1P	23912	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-4	Constant Q	SG1 1P	23914	Float	4	R W	n/a	0.1 - 10
51-4	Mode	SG1 3P	23916	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 I _{max} =4 3I0=5 I2=6 IG=7 I1=8
51-4	Source	SG1 3P	23918	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-4	Pickup	SG1 3P	23920	Float	4	R W	Amp	0.9 - 7.75
51-4	Curve Index	SG1 3P	23922	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-4	Direction	SG1 3P	23924	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-4	Use Instantaneous Reset	SG1 3P	23926	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-4	Constant TD	SG1 3P	23928	Float	4	R W	n/a	0 - 9.9
51-4	Constant A	SG1 3P	23930	Float	4	R W	n/a	0 - 600
51-4	Constant B	SG1 3P	23932	Float	4	R W	n/a	0 - 25
51-4	Constant C	SG1 3P	23934	Float	4	R W	n/a	0 - 1
51-4	Constant N	SG1 3P	23936	Float	4	R W	n/a	0.5 - 2.5
51-4	Constant R	SG1 3P	23938	Float	4	R W	n/a	0 - 30
51-4	Voltage Restraint Setpoint	SG1 3P	23940	Float	4	R W	Volt	30 - 250
51-4	Voltage Restraint Mode	SG1 3P	23942	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-4	Alarm Configuration	SG1 3P	23944	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-4	Low-Line Scale	SG1 3P	23946	Float	4	R W	n/a	0.001 - 3
51-4	Voltage Restraint Source	SG1 3P	23948	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-4	Constant Q	SG1 3P	23950	Float	4	R W	n/a	0.1 - 10
51-4	Mode	SG2 1P	23952	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-4	Source	SG2 1P	23954	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-4	Pickup	SG2 1P	23956	Float	4	R W	Amp	0.9 - 7.75
51-4	Curve Index	SG2 1P	23958	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-4	Direction	SG2 1P	23960	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-4	Use Instantaneous Reset	SG2 1P	23962	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-4	Constant TD	SG2 1P	23964	Float	4	R W	n/a	0 - 9.9
51-4	Constant A	SG2 1P	23966	Float	4	R W	n/a	0 - 600
51-4	Constant B	SG2 1P	23968	Float	4	R W	n/a	0 - 25
51-4	Constant C	SG2 1P	23970	Float	4	R W	n/a	0 - 1
51-4	Constant N	SG2 1P	23972	Float	4	R W	n/a	0.5 - 2.5
51-4	Constant R	SG2 1P	23974	Float	4	R W	n/a	0 - 30
51-4	Voltage Restraint Setpoint	SG2 1P	23976	Float	4	R W	Volt	30 - 250
51-4	Voltage Restraint Mode	SG2 1P	23978	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-4	Alarm Configuration	SG2 1P	23980	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-4	Low-Line Scale	SG2 1P	23982	Float	4	R W	n/a	0.001 - 3
51-4	Voltage Restraint Source	SG2 1P	23984	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-4	Constant Q	SG2 1P	23986	Float	4	R W	n/a	0.1 - 10
51-4	Mode	SG2 3P	23988	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-4	Source	SG2 3P	23990	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-4	Pickup	SG2 3P	23992	Float	4	R W	Amp	0.9 - 7.75

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-4	Curve Index	SG2 3P	23994	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-4	Direction	SG2 3P	23996	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-4	Use Instantaneous Reset	SG2 3P	23998	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-4	Constant TD	SG2 3P	24000	Float	4	R W	n/a	0 - 9.9
51-4	Constant A	SG2 3P	24002	Float	4	R W	n/a	0 - 600
51-4	Constant B	SG2 3P	24004	Float	4	R W	n/a	0 - 25
51-4	Constant C	SG2 3P	24006	Float	4	R W	n/a	0 - 1
51-4	Constant N	SG2 3P	24008	Float	4	R W	n/a	0.5 - 2.5
51-4	Constant R	SG2 3P	24010	Float	4	R W	n/a	0 - 30
51-4	Voltage Restraint Setpoint	SG2 3P	24012	Float	4	R W	Volt	30 - 250
51-4	Voltage Restraint Mode	SG2 3P	24014	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-4	Alarm Configuration	SG2 3P	24016	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-4	Low-Line Scale	SG2 3P	24018	Float	4	R W	n/a	0.001 - 3
51-4	Voltage Restraint Source	SG2 3P	24020	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-4	Constant Q	SG2 3P	24022	Float	4	R W	n/a	0.1 - 10
51-4	Mode	SG3 1P	24024	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-4	Source	SG3 1P	24026	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-4	Pickup	SG3 1P	24028	Float	4	R W	Amp	0.9 - 7.75
51-4	Curve Index	SG3 1P	24030	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-4	Direction	SG3 1P	24032	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-4	Use Instantaneous Reset	SG3 1P	24034	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-4	Constant TD	SG3 1P	24036	Float	4	R W	n/a	0 - 9.9
51-4	Constant A	SG3 1P	24038	Float	4	R W	n/a	0 - 600
51-4	Constant B	SG3 1P	24040	Float	4	R W	n/a	0 - 25
51-4	Constant C	SG3 1P	24042	Float	4	R W	n/a	0 - 1
51-4	Constant N	SG3 1P	24044	Float	4	R W	n/a	0.5 - 2.5
51-4	Constant R	SG3 1P	24046	Float	4	R W	n/a	0 - 30
51-4	Voltage Restraint Setpoint	SG3 1P	24048	Float	4	R W	Volt	30 - 250
51-4	Voltage Restraint Mode	SG3 1P	24050	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-4	Alarm Configuration	SG3 1P	24052	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-4	Low-Line Scale	SG3 1P	24054	Float	4	R W	n/a	0.001 - 3
51-4	Voltage Restraint Source	SG3 1P	24056	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-4	Constant Q	SG3 1P	24058	Float	4	R W	n/a	0.1 - 10
51-4	Mode	SG3 3P	24060	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 I _{max} =4 3I0=5 I2=6 IG=7 I1=8
51-4	Source	SG3 3P	24062	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-4	Pickup	SG3 3P	24064	Float	4	R W	Amp	0.9 - 7.75
51-4	Curve Index	SG3 3P	24066	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-4	Direction	SG3 3P	24068	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-4	Use Instantaneous Reset	SG3 3P	24070	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-4	Constant TD	SG3 3P	24072	Float	4	R W	n/a	0 - 9.9
51-4	Constant A	SG3 3P	24074	Float	4	R W	n/a	0 - 600
51-4	Constant B	SG3 3P	24076	Float	4	R W	n/a	0 - 25
51-4	Constant C	SG3 3P	24078	Float	4	R W	n/a	0 - 1
51-4	Constant N	SG3 3P	24080	Float	4	R W	n/a	0.5 - 2.5
51-4	Constant R	SG3 3P	24082	Float	4	R W	n/a	0 - 30
51-4	Voltage Restraint Setpoint	SG3 3P	24084	Float	4	R W	Volt	30 - 250
51-4	Voltage Restraint Mode	SG3 3P	24086	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-4	Alarm Configuration	SG3 3P	24088	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-4	Low-Line Scale	SG3 3P	24090	Float	4	R W	n/a	0.001 - 3
51-4	Voltage Restraint Source	SG3 3P	24092	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-4	Constant Q	SG3 3P	24094	Float	4	R W	n/a	0.1 - 10
51-5	Mode	SG0 1P	24096	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-5	Source	SG0 1P	24098	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-5	Pickup	SG0 1P	24100	Float	4	R W	Amp	0.9 - 7.75
51-5	Curve Index	SG0 1P	24102	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-5	Direction	SG0 1P	24104	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-5	Use Instantaneous Reset	SG0 1P	24106	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-5	Constant TD	SG0 1P	24108	Float	4	R W	n/a	0 - 9.9
51-5	Constant A	SG0 1P	24110	Float	4	R W	n/a	0 - 600
51-5	Constant B	SG0 1P	24112	Float	4	R W	n/a	0 - 25
51-5	Constant C	SG0 1P	24114	Float	4	R W	n/a	0 - 1
51-5	Constant N	SG0 1P	24116	Float	4	R W	n/a	0.5 - 2.5
51-5	Constant R	SG0 1P	24118	Float	4	R W	n/a	0 - 30
51-5	Voltage Restraint Setpoint	SG0 1P	24120	Float	4	R W	Volt	30 - 250
51-5	Voltage Restraint Mode	SG0 1P	24122	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-5	Alarm Configuration	SG0 1P	24124	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-5	Low-Line Scale	SG0 1P	24126	Float	4	R W	n/a	0.001 - 3
51-5	Voltage Restraint Source	SG0 1P	24128	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-5	Constant Q	SG0 1P	24130	Float	4	R W	n/a	0.1 - 10
51-5	Mode	SG0 3P	24132	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-5	Source	SG0 3P	24134	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-5	Pickup	SG0 3P	24136	Float	4	R W	Amp	0.9 - 7.75

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-5	Curve Index	SG0 3P	24138	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-5	Direction	SG0 3P	24140	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-5	Use Instantaneous Reset	SG0 3P	24142	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-5	Constant TD	SG0 3P	24144	Float	4	R W	n/a	0 - 9.9
51-5	Constant A	SG0 3P	24146	Float	4	R W	n/a	0 - 600
51-5	Constant B	SG0 3P	24148	Float	4	R W	n/a	0 - 25
51-5	Constant C	SG0 3P	24150	Float	4	R W	n/a	0 - 1
51-5	Constant N	SG0 3P	24152	Float	4	R W	n/a	0.5 - 2.5
51-5	Constant R	SG0 3P	24154	Float	4	R W	n/a	0 - 30
51-5	Voltage Restraint Setpoint	SG0 3P	24156	Float	4	R W	Volt	30 - 250
51-5	Voltage Restraint Mode	SG0 3P	24158	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-5	Alarm Configuration	SG0 3P	24160	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-5	Low-Line Scale	SG0 3P	24162	Float	4	R W	n/a	0.001 - 3
51-5	Voltage Restraint Source	SG0 3P	24164	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-5	Constant Q	SG0 3P	24166	Float	4	R W	n/a	0.1 - 10
51-5	Mode	SG1 1P	24168	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 I _{max} =4 3I0=5 I2=6 IG=7 I1=8
51-5	Source	SG1 1P	24170	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-5	Pickup	SG1 1P	24172	Float	4	R W	Amp	0.9 - 7.75
51-5	Curve Index	SG1 1P	24174	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-5	Direction	SG1 1P	24176	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-5	Use Instantaneous Reset	SG1 1P	24178	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-5	Constant TD	SG1 1P	24180	Float	4	R W	n/a	0 - 9.9
51-5	Constant A	SG1 1P	24182	Float	4	R W	n/a	0 - 600
51-5	Constant B	SG1 1P	24184	Float	4	R W	n/a	0 - 25
51-5	Constant C	SG1 1P	24186	Float	4	R W	n/a	0 - 1
51-5	Constant N	SG1 1P	24188	Float	4	R W	n/a	0.5 - 2.5
51-5	Constant R	SG1 1P	24190	Float	4	R W	n/a	0 - 30
51-5	Voltage Restraint Setpoint	SG1 1P	24192	Float	4	R W	Volt	30 - 250
51-5	Voltage Restraint Mode	SG1 1P	24194	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-5	Alarm Configuration	SG1 1P	24196	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-5	Low-Line Scale	SG1 1P	24198	Float	4	R W	n/a	0.001 - 3
51-5	Voltage Restraint Source	SG1 1P	24200	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-5	Constant Q	SG1 1P	24202	Float	4	R W	n/a	0.1 - 10
51-5	Mode	SG1 3P	24204	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 I _{max} =4 3I0=5 I2=6 IG=7 I1=8
51-5	Source	SG1 3P	24206	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-5	Pickup	SG1 3P	24208	Float	4	R W	Amp	0.9 - 7.75
51-5	Curve Index	SG1 3P	24210	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-5	Direction	SG1 3P	24212	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-5	Use Instantaneous Reset	SG1 3P	24214	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-5	Constant TD	SG1 3P	24216	Float	4	R W	n/a	0 - 9.9
51-5	Constant A	SG1 3P	24218	Float	4	R W	n/a	0 - 600
51-5	Constant B	SG1 3P	24220	Float	4	R W	n/a	0 - 25
51-5	Constant C	SG1 3P	24222	Float	4	R W	n/a	0 - 1
51-5	Constant N	SG1 3P	24224	Float	4	R W	n/a	0.5 - 2.5
51-5	Constant R	SG1 3P	24226	Float	4	R W	n/a	0 - 30
51-5	Voltage Restraint Setpoint	SG1 3P	24228	Float	4	R W	Volt	30 - 250
51-5	Voltage Restraint Mode	SG1 3P	24230	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-5	Alarm Configuration	SG1 3P	24232	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-5	Low-Line Scale	SG1 3P	24234	Float	4	R W	n/a	0.001 - 3
51-5	Voltage Restraint Source	SG1 3P	24236	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-5	Constant Q	SG1 3P	24238	Float	4	R W	n/a	0.1 - 10
51-5	Mode	SG2 1P	24240	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-5	Source	SG2 1P	24242	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-5	Pickup	SG2 1P	24244	Float	4	R W	Amp	0.9 - 7.75
51-5	Curve Index	SG2 1P	24246	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-5	Direction	SG2 1P	24248	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-5	Use Instantaneous Reset	SG2 1P	24250	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-5	Constant TD	SG2 1P	24252	Float	4	R W	n/a	0 - 9.9
51-5	Constant A	SG2 1P	24254	Float	4	R W	n/a	0 - 600
51-5	Constant B	SG2 1P	24256	Float	4	R W	n/a	0 - 25
51-5	Constant C	SG2 1P	24258	Float	4	R W	n/a	0 - 1
51-5	Constant N	SG2 1P	24260	Float	4	R W	n/a	0.5 - 2.5
51-5	Constant R	SG2 1P	24262	Float	4	R W	n/a	0 - 30
51-5	Voltage Restraint Setpoint	SG2 1P	24264	Float	4	R W	Volt	30 - 250
51-5	Voltage Restraint Mode	SG2 1P	24266	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-5	Alarm Configuration	SG2 1P	24268	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-5	Low-Line Scale	SG2 1P	24270	Float	4	R W	n/a	0.001 - 3
51-5	Voltage Restraint Source	SG2 1P	24272	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-5	Constant Q	SG2 1P	24274	Float	4	R W	n/a	0.1 - 10
51-5	Mode	SG2 3P	24276	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-5	Source	SG2 3P	24278	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-5	Pickup	SG2 3P	24280	Float	4	R W	Amp	0.9 - 7.75

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-5	Curve Index	SG2 3P	24282	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-5	Direction	SG2 3P	24284	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-5	Use Instantaneous Reset	SG2 3P	24286	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-5	Constant TD	SG2 3P	24288	Float	4	R W	n/a	0 - 9.9
51-5	Constant A	SG2 3P	24290	Float	4	R W	n/a	0 - 600
51-5	Constant B	SG2 3P	24292	Float	4	R W	n/a	0 - 25
51-5	Constant C	SG2 3P	24294	Float	4	R W	n/a	0 - 1
51-5	Constant N	SG2 3P	24296	Float	4	R W	n/a	0.5 - 2.5
51-5	Constant R	SG2 3P	24298	Float	4	R W	n/a	0 - 30
51-5	Voltage Restraint Setpoint	SG2 3P	24300	Float	4	R W	Volt	30 - 250
51-5	Voltage Restraint Mode	SG2 3P	24302	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-5	Alarm Configuration	SG2 3P	24304	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-5	Low-Line Scale	SG2 3P	24306	Float	4	R W	n/a	0.001 - 3
51-5	Voltage Restraint Source	SG2 3P	24308	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-5	Constant Q	SG2 3P	24310	Float	4	R W	n/a	0.1 - 10
51-5	Mode	SG3 1P	24312	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-5	Source	SG3 1P	24314	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-5	Pickup	SG3 1P	24316	Float	4	R W	Amp	0.9 - 7.75
51-5	Curve Index	SG3 1P	24318	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-5	Direction	SG3 1P	24320	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-5	Use Instantaneous Reset	SG3 1P	24322	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
51-5	Constant TD	SG3 1P	24324	Float	4	R W	n/a	0 - 9.9
51-5	Constant A	SG3 1P	24326	Float	4	R W	n/a	0 - 600
51-5	Constant B	SG3 1P	24328	Float	4	R W	n/a	0 - 25
51-5	Constant C	SG3 1P	24330	Float	4	R W	n/a	0 - 1
51-5	Constant N	SG3 1P	24332	Float	4	R W	n/a	0.5 - 2.5
51-5	Constant R	SG3 1P	24334	Float	4	R W	n/a	0 - 30
51-5	Voltage Restraint Setpoint	SG3 1P	24336	Float	4	R W	Volt	30 - 250
51-5	Voltage Restraint Mode	SG3 1P	24338	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-5	Alarm Configuration	SG3 1P	24340	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-5	Low-Line Scale	SG3 1P	24342	Float	4	R W	n/a	0.001 - 3
51-5	Voltage Restraint Source	SG3 1P	24344	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-5	Constant Q	SG3 1P	24346	Float	4	R W	n/a	0.1 - 10
51-5	Mode	SG3 3P	24348	UInt32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 I _{max} =4 3I0=5 I2=6 IG=7 I1=8
51-5	Source	SG3 3P	24350	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-5	Pickup	SG3 3P	24352	Float	4	R W	Amp	0.9 - 7.75
51-5	Curve Index	SG3 3P	24354	UInt32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-5	Direction	SG3 3P	24356	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-5	Use Instantaneous Reset	SG3 3P	24358	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
51-5	Constant TD	SG3 3P	24360	Float	4	R W	n/a	0 - 9.9
51-5	Constant A	SG3 3P	24362	Float	4	R W	n/a	0 - 600
51-5	Constant B	SG3 3P	24364	Float	4	R W	n/a	0 - 25
51-5	Constant C	SG3 3P	24366	Float	4	R W	n/a	0 - 1
51-5	Constant N	SG3 3P	24368	Float	4	R W	n/a	0.5 - 2.5
51-5	Constant R	SG3 3P	24370	Float	4	R W	n/a	0 - 30
51-5	Voltage Restraint Setpoint	SG3 3P	24372	Float	4	R W	Volt	30 - 250
51-5	Voltage Restraint Mode	SG3 3P	24374	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-5	Alarm Configuration	SG3 3P	24376	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-5	Low-Line Scale	SG3 3P	24378	Float	4	R W	n/a	0.001 - 3
51-5	Voltage Restraint Source	SG3 3P	24380	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-5	Constant Q	SG3 3P	24382	Float	4	R W	n/a	0.1 - 10
51-6	Mode	SG0 1P	24384	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-6	Source	SG0 1P	24386	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-6	Pickup	SG0 1P	24388	Float	4	R W	Amp	0.9 - 7.75
51-6	Curve Index	SG0 1P	24390	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-6	Direction	SG0 1P	24392	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-6	Use Instantaneous Reset	SG0 1P	24394	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-6	Constant TD	SG0 1P	24396	Float	4	R W	n/a	0 - 9.9
51-6	Constant A	SG0 1P	24398	Float	4	R W	n/a	0 - 600
51-6	Constant B	SG0 1P	24400	Float	4	R W	n/a	0 - 25
51-6	Constant C	SG0 1P	24402	Float	4	R W	n/a	0 - 1
51-6	Constant N	SG0 1P	24404	Float	4	R W	n/a	0.5 - 2.5
51-6	Constant R	SG0 1P	24406	Float	4	R W	n/a	0 - 30
51-6	Voltage Restraint Setpoint	SG0 1P	24408	Float	4	R W	Volt	30 - 250
51-6	Voltage Restraint Mode	SG0 1P	24410	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-6	Alarm Configuration	SG0 1P	24412	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-6	Low-Line Scale	SG0 1P	24414	Float	4	R W	n/a	0.001 - 3
51-6	Voltage Restraint Source	SG0 1P	24416	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-6	Constant Q	SG0 1P	24418	Float	4	R W	n/a	0.1 - 10
51-6	Mode	SG0 3P	24420	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-6	Source	SG0 3P	24422	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-6	Pickup	SG0 3P	24424	Float	4	R W	Amp	0.9 - 7.75

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-6	Curve Index	SG0 3P	24426	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-6	Direction	SG0 3P	24428	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-6	Use Instantaneous Reset	SG0 3P	24430	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-6	Constant TD	SG0 3P	24432	Float	4	R W	n/a	0 - 9.9
51-6	Constant A	SG0 3P	24434	Float	4	R W	n/a	0 - 600
51-6	Constant B	SG0 3P	24436	Float	4	R W	n/a	0 - 25
51-6	Constant C	SG0 3P	24438	Float	4	R W	n/a	0 - 1
51-6	Constant N	SG0 3P	24440	Float	4	R W	n/a	0.5 - 2.5
51-6	Constant R	SG0 3P	24442	Float	4	R W	n/a	0 - 30
51-6	Voltage Restraint Setpoint	SG0 3P	24444	Float	4	R W	Volt	30 - 250
51-6	Voltage Restraint Mode	SG0 3P	24446	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-6	Alarm Configuration	SG0 3P	24448	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-6	Low-Line Scale	SG0 3P	24450	Float	4	R W	n/a	0.001 - 3
51-6	Voltage Restraint Source	SG0 3P	24452	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-6	Constant Q	SG0 3P	24454	Float	4	R W	n/a	0.1 - 10
51-6	Mode	SG1 1P	24456	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-6	Source	SG1 1P	24458	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-6	Pickup	SG1 1P	24460	Float	4	R W	Amp	0.9 - 7.75
51-6	Curve Index	SG1 1P	24462	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-6	Direction	SG1 1P	24464	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-6	Use Instantaneous Reset	SG1 1P	24466	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-6	Constant TD	SG1 1P	24468	Float	4	R W	n/a	0 - 9.9
51-6	Constant A	SG1 1P	24470	Float	4	R W	n/a	0 - 600
51-6	Constant B	SG1 1P	24472	Float	4	R W	n/a	0 - 25
51-6	Constant C	SG1 1P	24474	Float	4	R W	n/a	0 - 1
51-6	Constant N	SG1 1P	24476	Float	4	R W	n/a	0.5 - 2.5
51-6	Constant R	SG1 1P	24478	Float	4	R W	n/a	0 - 30
51-6	Voltage Restraint Setpoint	SG1 1P	24480	Float	4	R W	Volt	30 - 250
51-6	Voltage Restraint Mode	SG1 1P	24482	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-6	Alarm Configuration	SG1 1P	24484	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-6	Low-Line Scale	SG1 1P	24486	Float	4	R W	n/a	0.001 - 3
51-6	Voltage Restraint Source	SG1 1P	24488	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-6	Constant Q	SG1 1P	24490	Float	4	R W	n/a	0.1 - 10
51-6	Mode	SG1 3P	24492	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 I _{max} =4 3I0=5 I2=6 IG=7 I1=8
51-6	Source	SG1 3P	24494	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-6	Pickup	SG1 3P	24496	Float	4	R W	Amp	0.9 - 7.75
51-6	Curve Index	SG1 3P	24498	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-6	Direction	SG1 3P	24500	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-6	Use Instantaneous Reset	SG1 3P	24502	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-6	Constant TD	SG1 3P	24504	Float	4	R W	n/a	0 - 9.9
51-6	Constant A	SG1 3P	24506	Float	4	R W	n/a	0 - 600
51-6	Constant B	SG1 3P	24508	Float	4	R W	n/a	0 - 25
51-6	Constant C	SG1 3P	24510	Float	4	R W	n/a	0 - 1
51-6	Constant N	SG1 3P	24512	Float	4	R W	n/a	0.5 - 2.5
51-6	Constant R	SG1 3P	24514	Float	4	R W	n/a	0 - 30
51-6	Voltage Restraint Setpoint	SG1 3P	24516	Float	4	R W	Volt	30 - 250
51-6	Voltage Restraint Mode	SG1 3P	24518	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-6	Alarm Configuration	SG1 3P	24520	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-6	Low-Line Scale	SG1 3P	24522	Float	4	R W	n/a	0.001 - 3
51-6	Voltage Restraint Source	SG1 3P	24524	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-6	Constant Q	SG1 3P	24526	Float	4	R W	n/a	0.1 - 10
51-6	Mode	SG2 1P	24528	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-6	Source	SG2 1P	24530	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-6	Pickup	SG2 1P	24532	Float	4	R W	Amp	0.9 - 7.75
51-6	Curve Index	SG2 1P	24534	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-6	Direction	SG2 1P	24536	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-6	Use Instantaneous Reset	SG2 1P	24538	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-6	Constant TD	SG2 1P	24540	Float	4	R W	n/a	0 - 9.9
51-6	Constant A	SG2 1P	24542	Float	4	R W	n/a	0 - 600
51-6	Constant B	SG2 1P	24544	Float	4	R W	n/a	0 - 25
51-6	Constant C	SG2 1P	24546	Float	4	R W	n/a	0 - 1
51-6	Constant N	SG2 1P	24548	Float	4	R W	n/a	0.5 - 2.5
51-6	Constant R	SG2 1P	24550	Float	4	R W	n/a	0 - 30
51-6	Voltage Restraint Setpoint	SG2 1P	24552	Float	4	R W	Volt	30 - 250
51-6	Voltage Restraint Mode	SG2 1P	24554	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-6	Alarm Configuration	SG2 1P	24556	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-6	Low-Line Scale	SG2 1P	24558	Float	4	R W	n/a	0.001 - 3
51-6	Voltage Restraint Source	SG2 1P	24560	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-6	Constant Q	SG2 1P	24562	Float	4	R W	n/a	0.1 - 10
51-6	Mode	SG2 3P	24564	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-6	Source	SG2 3P	24566	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-6	Pickup	SG2 3P	24568	Float	4	R W	Amp	0.9 - 7.75

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-6	Curve Index	SG2 3P	24570	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-6	Direction	SG2 3P	24572	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-6	Use Instantaneous Reset	SG2 3P	24574	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-6	Constant TD	SG2 3P	24576	Float	4	R W	n/a	0 - 9.9
51-6	Constant A	SG2 3P	24578	Float	4	R W	n/a	0 - 600
51-6	Constant B	SG2 3P	24580	Float	4	R W	n/a	0 - 25
51-6	Constant C	SG2 3P	24582	Float	4	R W	n/a	0 - 1
51-6	Constant N	SG2 3P	24584	Float	4	R W	n/a	0.5 - 2.5
51-6	Constant R	SG2 3P	24586	Float	4	R W	n/a	0 - 30
51-6	Voltage Restraint Setpoint	SG2 3P	24588	Float	4	R W	Volt	30 - 250
51-6	Voltage Restraint Mode	SG2 3P	24590	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-6	Alarm Configuration	SG2 3P	24592	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-6	Low-Line Scale	SG2 3P	24594	Float	4	R W	n/a	0.001 - 3
51-6	Voltage Restraint Source	SG2 3P	24596	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-6	Constant Q	SG2 3P	24598	Float	4	R W	n/a	0.1 - 10
51-6	Mode	SG3 1P	24600	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 Imax=4 3I0=5 I2=6 IG=7 I1=8
51-6	Source	SG3 1P	24602	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-6	Pickup	SG3 1P	24604	Float	4	R W	Amp	0.9 - 7.75
51-6	Curve Index	SG3 1P	24606	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-6	Direction	SG3 1P	24608	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-6	Use Instantaneous Reset	SG3 1P	24610	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-6	Constant TD	SG3 1P	24612	Float	4	R W	n/a	0 - 9.9
51-6	Constant A	SG3 1P	24614	Float	4	R W	n/a	0 - 600
51-6	Constant B	SG3 1P	24616	Float	4	R W	n/a	0 - 25
51-6	Constant C	SG3 1P	24618	Float	4	R W	n/a	0 - 1
51-6	Constant N	SG3 1P	24620	Float	4	R W	n/a	0.5 - 2.5
51-6	Constant R	SG3 1P	24622	Float	4	R W	n/a	0 - 30
51-6	Voltage Restraint Setpoint	SG3 1P	24624	Float	4	R W	Volt	30 - 250
51-6	Voltage Restraint Mode	SG3 1P	24626	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-6	Alarm Configuration	SG3 1P	24628	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-6	Low-Line Scale	SG3 1P	24630	Float	4	R W	n/a	0.001 - 3
51-6	Voltage Restraint Source	SG3 1P	24632	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-6	Constant Q	SG3 1P	24634	Float	4	R W	n/a	0.1 - 10
51-6	Mode	SG3 3P	24636	Uint32	4	R W	n/a	Disabled=0 IA=1 IB=2 IC=3 I _{max} =4 3I0=5 I2=6 IG=7 I1=8
51-6	Source	SG3 3P	24638	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
51-6	Pickup	SG3 3P	24640	Float	4	R W	Amp	0.9 - 7.75
51-6	Curve Index	SG3 3P	24642	Uint32	4	R W	n/a	S1=0 S2=1 L1=2 L2=3 D=4 M=5 I1=6 I2=7 V1=8 V2=9 E1=10 E2=11 A=12 B=13 C=14 G=15 F=16 46=17 P=18
51-6	Direction	SG3 3P	24644	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
51-6	Use Instantaneous Reset	SG3 3P	24646	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
51-6	Constant TD	SG3 3P	24648	Float	4	R W	n/a	0 - 9.9
51-6	Constant A	SG3 3P	24650	Float	4	R W	n/a	0 - 600
51-6	Constant B	SG3 3P	24652	Float	4	R W	n/a	0 - 25
51-6	Constant C	SG3 3P	24654	Float	4	R W	n/a	0 - 1
51-6	Constant N	SG3 3P	24656	Float	4	R W	n/a	0.5 - 2.5
51-6	Constant R	SG3 3P	24658	Float	4	R W	n/a	0 - 30
51-6	Voltage Restraint Setpoint	SG3 3P	24660	Float	4	R W	Volt	30 - 250
51-6	Voltage Restraint Mode	SG3 3P	24662	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
51-6	Alarm Configuration	SG3 3P	24664	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
51-6	Low-Line Scale	SG3 3P	24666	Float	4	R W	n/a	0.001 - 3
51-6	Voltage Restraint Source	SG3 3P	24668	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
51-6	Constant Q	SG3 3P	24670	Float	4	R W	n/a	0.1 - 10
78-1	Mode	SG0	24672	UInt32	4	R W	n/a	Disabled=0 Enabled=1
78-1	Source	SG0	24674	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
78-1	Pickup	SG0	24676	Float	4	R W	Degree	2 - 90
78-1	Alarm Configuration	SG0	24678	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
78-1	Mode	SG1	24680	UInt32	4	R W	n/a	Disabled=0 Enabled=1
78-1	Source	SG1	24682	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
78-1	Pickup	SG1	24684	Float	4	R W	Degree	2 - 90
78-1	Alarm Configuration	SG1	24686	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
78-1	Mode	SG2	24688	UInt32	4	R W	n/a	Disabled=0 Enabled=1
78-1	Source	SG2	24690	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
78-1	Pickup	SG2	24692	Float	4	R W	Degree	2 - 90
78-1	Alarm Configuration	SG2	24694	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
78-1	Mode	SG3	24696	UInt32	4	R W	n/a	Disabled=0 Enabled=1
78-1	Source	SG3	24698	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
78-1	Pickup	SG3	24700	Float	4	R W	Degree	2 - 90
78-1	Alarm Configuration	SG3	24702	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
78-2	Mode	SG0	24704	UInt32	4	R W	n/a	Disabled=0 Enabled=1
78-2	Source	SG0	24706	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
78-2	Pickup	SG0	24708	Float	4	R W	Degree	2 - 90
78-2	Alarm Configuration	SG0	24710	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
78-2	Mode	SG1	24712	UInt32	4	R W	n/a	Disabled=0 Enabled=1
78-2	Source	SG1	24714	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
78-2	Pickup	SG1	24716	Float	4	R W	Degree	2 - 90
78-2	Alarm Configuration	SG1	24718	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
78-2	Mode	SG2	24720	UInt32	4	R W	n/a	Disabled=0 Enabled=1
78-2	Source	SG2	24722	UInt32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
78-2	Pickup	SG2	24724	Float	4	R W	Degree	2 - 90

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
78-2	Alarm Configuration	SG2	24726	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
78-2	Mode	SG3	24728	Uint32	4	R W	n/a	Disabled=0 Enabled=1
78-2	Source	SG3	24730	Uint32	4	R W	n/a	Gen=0 Bus 1=1 Bus 2=2
78-2	Pickup	SG3	24732	Float	4	R W	Degree	2 - 90
78-2	Alarm Configuration	SG3	24734	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Battery Voltage Protection	Weak Battery Mode	GG	24736	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Battery Voltage Protection	Undervoltage Mode	GG	24738	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Battery Voltage Protection	Overvoltage Mode	GG	24740	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Battery Voltage Protection	Weak Battery Threshold	GG	24742	Float	4	R W	Volt	4 - 28
Battery Voltage Protection	Undervoltage Threshold	GG	24744	Float	4	R W	Volt	0 or 6 - 28
Battery Voltage Protection	Overvoltage Threshold	GG	24746	Float	4	R W	Volt	0 or 12 - 32
Battery Voltage Protection	Weak Battery Time Delay	GG	24748	Float	4	R W	Millisecond	0 - 10000
Battery Voltage Protection	Under Voltage Time Delay	GG	24750	Float	4	R W	Millisecond	0 - 60000
Oil Pressure Protection	Alarm Mode	GG	24752	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Oil Pressure Protection	Pre-Alarm Mode	GG	24754	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Oil Pressure Protection	Alarm Threshold	GG	24756	Float	4	R W	PSI	2.9 - 150
Oil Pressure Protection	Pre-Alarm Threshold	GG	24758	Float	4	R W	PSI	2.9 - 150
Oil Pressure Protection	Arming Delay	GG	24760	Float	4	R W	Millisecond	5000 - 60000
Coolant Temperature Protection	High Coolant Temp Alarm Mode	GG	24762	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Coolant Temperature Protection	High Coolant Temp Pre-Alarm Mode	GG	24764	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Coolant Temperature Protection	Low Coolant Temp Pre-Alarm Mode	GG	24766	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Coolant Temperature Protection	High Coolant Temp Alarm Threshold	GG	24768	Float	4	R W	Deg F	100 - 280
Coolant Temperature Protection	High Coolant TempPre-Alarm Threshold	GG	24770	Float	4	R W	Deg F	100 - 280
Coolant Temperature Protection	Low Coolant Temp Pre-Alarm Threshold	GG	24772	Float	4	R W	Deg F	0 - 151
Coolant Temperature Protection	High Coolant Temp Arming Delay	GG	24774	Float	4	R W	Millisecond	0 - 150000
Fuel Level Protection	Low Fuel Alarm Mode	GG	24776	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Fuel Level Protection	LowFuelPreAlarmMode	GG	24778	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Fuel Level Protection	High Fuel Pre-Alarm Mode	GG	24780	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Fuel Level Protection	Low Fuel Alarm Threshold	GG	24782	Float	4	R W	Percent	0 - 100
Fuel Level Protection	Low Fuel Pre-Alarm Threshold	GG	24784	Float	4	R W	Percent	10 - 100
Fuel Level Protection	High Fuel Pre-Alarm Threshold	GG	24786	Float	4	R W	Percent	0 - 150
Fuel Level Protection	Low Fuel Alarm Activation Delay	GG	24788	Float	4	R W	Millisecond	0 - 30000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Fuel Level Protection	High Fuel Pre-Alarm Activation Delay	GG	24790	Float	4	R W	Millisecond	0 - 30000
Overspeed Protection	Overspeed Mode	GG	24792	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Overspeed Protection	Overspeed Threshold	GG	24794	Float	4	R W	Percent	105 - 140
Overspeed Protection	Overspeed Activation Delay	GG	24796	Float	4	R W	Millisecond	0 - 500
Coolant Level Protection	Low Coolant Level Alarm Mode	GG	24798	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Coolant Level Protection	Low Coolant Level Pre-Alarm Mode	GG	24800	Uint32	4	R W	n/a	Disabled=0 Enabled=1
Coolant Level Protection	Low Coolant Level Alarm Threshold	GG	24802	Float	4	R W	Percent	1 - 99
Coolant Level Protection	Low Coolant Level Pre-Alarm Threshold	GG	24804	Float	4	R W	Percent	1 - 99
Config Protection 1	Parameter Selection	GG	24806	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Config Protection 1	Hysteresis	GG	24808	Float	4	R W	Percent	0 - 100
Config Protection 1	Arming Delay	GG	24810	Float	4	R W	Second	0 - 300
Config Protection 1	Threshold 1 Type	GG	24812	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 1	Threshold 1 Pickup	GG	24814	Float	4	R W	n/a	-999999 - 999999
Config Protection 1	Threshold 1 Activation Delay	GG	24816	Float	4	R W	Second	0 - 300
Config Protection 1	Threshold 1 Alarm Configuration	GG	24818	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 1	Threshold 2 Type	GG	24820	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 1	Threshold 2 Pickup	GG	24822	Float	4	R W	n/a	-999999 - 999999
Config Protection 1	Threshold 2 Activation Delay	GG	24824	Float	4	R W	Second	0 - 300
Config Protection 1	Threshold 2 Alarm Configuration	GG	24826	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 1	Threshold 3 Type	GG	24828	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 1	Threshold 3 Pickup	GG	24830	Float	4	R W	n/a	-999999 - 999999
Config Protection 1	Threshold 3 Activation Delay	GG	24832	Float	4	R W	Second	0 - 300
Config Protection 1	Threshold 3 Alarm Configuration	GG	24834	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 1	Threshold 4 Type	GG	24836	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 1	Threshold 4 Pickup	GG	24838	Float	4	R W	n/a	-999999 - 999999
Config Protection 1	Threshold 4 Activation Delay	GG	24840	Float	4	R W	Second	0 - 300
Config Protection 1	Threshold 4 Alarm Configuration	GG	24842	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 1	Low-Line Scale Current	GG	24844	Float	4	R W	n/a	0.001 - 3
Config Protection 1	Low-Line Scale Voltage	GG	24846	Float	4	R W	n/a	0.001 - 3
Config Protection 1	Label	GG	24848	String	16	R W	n/a	0 - 16

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Config Protection 2	Parameter Selection	GG	24856	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Config Protection 2	Hysteresis	GG	24858	Float	4	R W	Percent	0 - 100
Config Protection 2	Arming Delay	GG	24860	Float	4	R W	Second	0 - 300
Config Protection 2	Threshold 1 Type	GG	24862	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 2	Threshold 1 Pickup	GG	24864	Float	4	R W	n/a	-999999 - 999999
Config Protection 2	Threshold 1 Activation Delay	GG	24866	Float	4	R W	Second	0 - 300
Config Protection 2	Threshold 1 Alarm Configuration	GG	24868	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 2	Threshold 2 Type	GG	24870	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 2	Threshold 2 Pickup	GG	24872	Float	4	R W	n/a	-999999 - 999999
Config Protection 2	Threshold 2 Activation Delay	GG	24874	Float	4	R W	Second	0 - 300
Config Protection 2	Threshold 2 Alarm Configuration	GG	24876	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 2	Threshold 3 Type	GG	24878	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 2	Threshold 3 Pickup	GG	24880	Float	4	R W	n/a	-999999 - 999999
Config Protection 2	Threshold 3 Activation Delay	GG	24882	Float	4	R W	Second	0 - 300
Config Protection 2	Threshold 3 Alarm Configuration	GG	24884	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 2	Threshold 4 Type	GG	24886	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 2	Threshold 4 Pickup	GG	24888	Float	4	R W	n/a	-999999 - 999999
Config Protection 2	Threshold 4 Activation Delay	GG	24890	Float	4	R W	Second	0 - 300
Config Protection 2	Threshold 4 Alarm Configuration	GG	24892	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 2	Low-Line Scale Current	GG	24894	Float	4	R W	n/a	0.001 - 3
Config Protection 2	Low-Line Scale Voltage	GG	24896	Float	4	R W	n/a	0.001 - 3
Config Protection 2	Label	GG	24898	String	16	R W	n/a	0 - 16
Config Protection 3	ParamSelection	GG	24906	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Config Protection 3	Hysteresis	GG	24908	Float	4	R W	Percent	0 - 100
Config Protection 3	Arming Delay	GG	24910	Float	4	R W	Second	0 - 300
Config Protection 3	Threshold 1 Type	GG	24912	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 3	Threshold 1 Pickup	GG	24914	Float	4	R W	n/a	-999999 - 999999
Config Protection 3	Threshold 1 Activation Delay	GG	24916	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Config Protection 3	Threshold 1 Alarm Configuration	GG	24918	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 3	Threshold 2 Type	GG	24920	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 3	Threshold 2 Pickup	GG	24922	Float	4	R W	n/a	-999999 - 999999
Config Protection 3	Threshold 2 Activation Delay	GG	24924	Float	4	R W	Second	0 - 300
Config Protection 3	Threshold 2 Alarm Configuration	GG	24926	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 3	Threshold 3 Type	GG	24928	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 3	Threshold 3 Pickup	GG	24930	Float	4	R W	n/a	-999999 - 999999
Config Protection 3	Threshold 3 Activation Delay	GG	24932	Float	4	R W	Second	0 - 300
Config Protection 3	Threshold 3 Alarm Configuration	GG	24934	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 3	Threshold 4 Type	GG	24936	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 3	Threshold 4 Pickup	GG	24938	Float	4	R W	n/a	-999999 - 999999
Config Protection 3	Threshold 4 Activation Delay	GG	24940	Float	4	R W	Second	0 - 300
Config Protection 3	Threshold 4 Alarm Configuration	GG	24942	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 3	Low-Line Scale Current	GG	24944	Float	4	R W	n/a	0.001 - 3
Config Protection 3	Low-Line Scale Voltage	GG	24946	Float	4	R W	n/a	0.001 - 3
Config Protection 3	Label	GG	24948	String	16	R W	n/a	0 - 16
Config Protection 4	Parameter Selection	GG	24956	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Config Protection 4	Hysteresis	GG	24958	Float	4	R W	Percent	0 - 100
Config Protection 4	Arming Delay	GG	24960	Float	4	R W	Second	0 - 300
Config Protection 4	Threshold 1 Type	GG	24962	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 4	Threshold 1 Pickup	GG	24964	Float	4	R W	n/a	-999999 - 999999
Config Protection 4	Threshold 1 Activation Delay	GG	24966	Float	4	R W	Second	0 - 300
Config Protection 4	Threshold 1 Alarm Configuration	GG	24968	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 4	Threshold 2 Type	GG	24970	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 4	Threshold 2 Pickup	GG	24972	Float	4	R W	n/a	-999999 - 999999
Config Protection 4	Threshold 2 Activation Delay	GG	24974	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Config Protection 4	Threshold 2 Alarm Configuration	GG	24976	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 4	Threshold 3 Type	GG	24978	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 4	Threshold 3 Pickup	GG	24980	Float	4	R W	n/a	-999999 - 999999
Config Protection 4	Threshold 3 Activation Delay	GG	24982	Float	4	R W	Second	0 - 300
Config Protection 4	Threshold 3 Alarm Configuration	GG	24984	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 4	Threshold 4 Type	GG	24986	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 4	Threshold 4 Pickup	GG	24988	Float	4	R W	n/a	-999999 - 999999
Config Protection 4	Threshold 4 Activation Delay	GG	24990	Float	4	R W	Second	0 - 300
Config Protection 4	Threshold 4 Alarm Configuration	GG	24992	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 4	Low-Line Scale Current	GG	24994	Float	4	R W	n/a	0.001 - 3
Config Protection 4	Low-Line Scale Voltage	GG	24996	Float	4	R W	n/a	0.001 - 3
Config Protection 4	Label	GG	24998	String	16	R W	n/a	0 - 16
Config Protection 5	Parameter Selection	GG	25006	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Config Protection 5	Hysteresis	GG	25008	Float	4	R W	Percent	0 - 100
Config Protection 5	Arming Delay	GG	25010	Float	4	R W	Second	0 - 300
Config Protection 5	Threshold 1 Type	GG	25012	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 5	Threshold 1 Pickup	GG	25014	Float	4	R W	n/a	-999999 - 999999
Config Protection 5	Threshold 1 Activation Delay	GG	25016	Float	4	R W	Second	0 - 300
Config Protection 5	Threshold 1 Alarm Configuration	GG	25018	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 5	Threshold 2 Type	GG	25020	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 5	Threshold 2 Pickup	GG	25022	Float	4	R W	n/a	-999999 - 999999
Config Protection 5	Threshold 2 Activation Delay	GG	25024	Float	4	R W	Second	0 - 300
Config Protection 5	Threshold 2 Alarm Configuration	GG	25026	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 5	Threshold 3 Type	GG	25028	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 5	Threshold 3 Pickup	GG	25030	Float	4	R W	n/a	-999999 - 999999
Config Protection 5	Threshold 3 Activation Delay	GG	25032	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Config Protection 5	Threshold 3 Alarm Configuration	GG	25034	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 5	Threshold 4 Type	GG	25036	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 5	Threshold 4 Pickup	GG	25038	Float	4	R W	n/a	-999999 - 999999
Config Protection 5	Threshold 4 Activation Delay	GG	25040	Float	4	R W	Second	0 - 300
Config Protection 5	Threshold 4 Alarm Configuration	GG	25042	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 5	Low-Line Scale Current	GG	25044	Float	4	R W	n/a	0.001 - 3
Config Protection 5	Low-Line Scale Voltage	GG	25046	Float	4	R W	n/a	0.001 - 3
Config Protection 5	Label	GG	25048	String	16	R W	n/a	0 - 16
Config Protection 6	Parameter Selection	GG	25056	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Config Protection 6	Hysteresis	GG	25058	Float	4	R W	Percent	0 - 100
Config Protection 6	Arming Delay	GG	25060	Float	4	R W	Second	0 - 300
Config Protection 6	Threshold 1 Type	GG	25062	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 6	Threshold 1 Pickup	GG	25064	Float	4	R W	n/a	-999999 - 999999
Config Protection 6	Threshold 1 Activation Delay	GG	25066	Float	4	R W	Second	0 - 300
Config Protection 6	Threshold 1 Alarm Configuration	GG	25068	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 6	Threshold 2 Type	GG	25070	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 6	Threshold 2 Pickup	GG	25072	Float	4	R W	n/a	-999999 - 999999
Config Protection 6	Threshold 2 Activation Delay	GG	25074	Float	4	R W	Second	0 - 300
Config Protection 6	Threshold 2 Alarm Configuration	GG	25076	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 6	Threshold 3 Type	GG	25078	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 6	Threshold 3 Pickup	GG	25080	Float	4	R W	n/a	-999999 - 999999
Config Protection 6	Threshold 3 Activation Delay	GG	25082	Float	4	R W	Second	0 - 300
Config Protection 6	Threshold 3 Alarm Configuration	GG	25084	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 6	Threshold 4 Type	GG	25086	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 6	Threshold 4 Pickup	GG	25088	Float	4	R W	n/a	-999999 - 999999
Config Protection 6	Threshold 4 Activation Delay	GG	25090	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Config Protection 6	Threshold 4 Alarm Configuration	GG	25092	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 6	Low-Line Scale Current	GG	25094	Float	4	R W	n/a	0.001 - 3
Config Protection 6	Low-Line Scale Voltage	GG	25096	Float	4	R W	n/a	0.001 - 3
Config Protection 6	Label	GG	25098	String	16	R W	n/a	0 - 16
Config Protection 7	Parameter Selection	GG	25106	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Config Protection 7	Hysteresis	GG	25108	Float	4	R W	Percent	0 - 100
Config Protection 7	Arming Delay	GG	25110	Float	4	R W	Second	0 - 300
Config Protection 7	Threshold 1 Type	GG	25112	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 7	Threshold 1 Pickup	GG	25114	Float	4	R W	n/a	-999999 - 999999
Config Protection 7	Threshold 1 Activation Delay	GG	25116	Float	4	R W	Second	0 - 300
Config Protection 7	Threshold 1 Alarm Configuration	GG	25118	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 7	Threshold 2 Type	GG	25120	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 7	Threshold 2 Pickup	GG	25122	Float	4	R W	n/a	-999999 - 999999
Config Protection 7	Threshold 2 Activation Delay	GG	25124	Float	4	R W	Second	0 - 300
Config Protection 7	Threshold 2 Alarm Configuration	GG	25126	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 7	Threshold 3 Type	GG	25128	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 7	Threshold 3 Pickup	GG	25130	Float	4	R W	n/a	-999999 - 999999
Config Protection 7	Threshold 3 Activation Delay	GG	25132	Float	4	R W	Second	0 - 300
Config Protection 7	Threshold 3 Alarm Configuration	GG	25134	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 7	Threshold 4 Type	GG	25136	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 7	Threshold 4 Pickup	GG	25138	Float	4	R W	n/a	-999999 - 999999
Config Protection 7	Threshold 4 Activation Delay	GG	25140	Float	4	R W	Second	0 - 300
Config Protection 7	Threshold 4 Alarm Configuration	GG	25142	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 7	Low-Line Scale Current	GG	25144	Float	4	R W	n/a	0.001 - 3
Config Protection 7	Low-Line Scale Voltage	GG	25146	Float	4	R W	n/a	0.001 - 3
Config Protection 7	Label	GG	25148	String	16	R W	n/a	0 - 16
Config Protection 8	Parameter Selection	GG	25156	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Config Protection 8	Hysteresis	GG	25158	Float	4	R W	Percent	0 - 100

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Config Protection 8	Arming Delay	GG	25160	Float	4	R W	Second	0 - 300
Config Protection 8	Threshold 1 Type	GG	25162	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 8	Threshold 1 Pickup	GG	25164	Float	4	R W	n/a	-999999 - 999999
Config Protection 8	Threshold 1 Activation Delay	GG	25166	Float	4	R W	Second	0 - 300
Config Protection 8	Threshold 1 Alarm Configuration	GG	25168	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 8	Threshold 2 Type	GG	25170	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 8	Threshold 2 Pickup	GG	25172	Float	4	R W	n/a	-999999 - 999999
Config Protection 8	Threshold 2 Activation Delay	GG	25174	Float	4	R W	Second	0 - 300
Config Protection 8	Threshold 2 Alarm Configuration	GG	25176	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 8	Threshold 3 Type	GG	25178	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 8	Threshold 3 Pickup	GG	25180	Float	4	R W	n/a	-999999 - 999999
Config Protection 8	Threshold 3 Activation Delay	GG	25182	Float	4	R W	Second	0 - 300
Config Protection 8	Threshold 3 Alarm Configuration	GG	25184	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 8	Threshold 4 Type	GG	25186	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Config Protection 8	Threshold 4 Pickup	GG	25188	Float	4	R W	n/a	-999999 - 999999
Config Protection 8	Threshold 4 Activation Delay	GG	25190	Float	4	R W	Second	0 - 300
Config Protection 8	Threshold 4 Alarm Configuration	GG	25192	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unload Cooldown=5
Config Protection 8	Low-Line Scale Current	GG	25194	Float	4	R W	n/a	0.001 - 3
Config Protection 8	Low-Line Scale Voltage	GG	25196	Float	4	R W	n/a	0.001 - 3
Config Protection 8	Label	GG	25198	String	16	R W	n/a	0 - 16
27P-1	Hysteresis	SG0 1P	25206	Float	4	R W	Volt	1 - 60
27P-1	Hysteresis	SG0 3P	25208	Float	4	R W	Volt	1 - 60
27P-1	Hysteresis	SG1 1P	25210	Float	4	R W	Volt	1 - 60
27P-1	Hysteresis	SG1 3P	25212	Float	4	R W	Volt	1 - 60
27P-1	Hysteresis	SG2 1P	25214	Float	4	R W	Volt	1 - 60
27P-1	Hysteresis	SG2 3P	25216	Float	4	R W	Volt	1 - 60
27P-1	Hysteresis	SG3 1P	25218	Float	4	R W	Volt	1 - 60
27P-1	Hysteresis	SG3 3P	25220	Float	4	R W	Volt	1 - 60
27P-2	Hysteresis	SG0 1P	25222	Float	4	R W	Volt	1 - 60
27P-2	Hysteresis	SG0 3P	25224	Float	4	R W	Volt	1 - 60
27P-2	Hysteresis	SG1 1P	25226	Float	4	R W	Volt	1 - 60
27P-2	Hysteresis	SG1 3P	25228	Float	4	R W	Volt	1 - 60
27P-2	Hysteresis	SG2 1P	25230	Float	4	R W	Volt	1 - 60
27P-2	Hysteresis	SG2 3P	25232	Float	4	R W	Volt	1 - 60
27P-2	Hysteresis	SG3 1P	25234	Float	4	R W	Volt	1 - 60
27P-2	Hysteresis	SG3 3P	25236	Float	4	R W	Volt	1 - 60
27P-3	Hysteresis	SG0 1P	25238	Float	4	R W	Volt	1 - 60
27P-3	Hysteresis	SG0 3P	25240	Float	4	R W	Volt	1 - 60
27P-3	Hysteresis	SG1 1P	25242	Float	4	R W	Volt	1 - 60

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
27P-3	Hysteresis	SG1 3P	25244	Float	4	R W	Volt	1 - 60
27P-3	Hysteresis	SG2 1P	25246	Float	4	R W	Volt	1 - 60
27P-3	Hysteresis	SG2 3P	25248	Float	4	R W	Volt	1 - 60
27P-3	Hysteresis	SG3 1P	25250	Float	4	R W	Volt	1 - 60
27P-3	Hysteresis	SG3 3P	25252	Float	4	R W	Volt	1 - 60
27P-4	Hysteresis	SG0 1P	25254	Float	4	R W	Volt	1 - 60
27P-4	Hysteresis	SG0 3P	25256	Float	4	R W	Volt	1 - 60
27P-4	Hysteresis	SG1 1P	25258	Float	4	R W	Volt	1 - 60
27P-4	Hysteresis	SG1 3P	25260	Float	4	R W	Volt	1 - 60
27P-4	Hysteresis	SG2 1P	25262	Float	4	R W	Volt	1 - 60
27P-4	Hysteresis	SG2 3P	25264	Float	4	R W	Volt	1 - 60
27P-4	Hysteresis	SG3 1P	25266	Float	4	R W	Volt	1 - 60
27P-4	Hysteresis	SG3 3P	25268	Float	4	R W	Volt	1 - 60
27P-5	Hysteresis	SG0 1P	25270	Float	4	R W	Volt	1 - 60
27P-5	Hysteresis	SG0 3P	25272	Float	4	R W	Volt	1 - 60
27P-5	Hysteresis	SG1 1P	25274	Float	4	R W	Volt	1 - 60
27P-5	Hysteresis	SG1 3P	25276	Float	4	R W	Volt	1 - 60
27P-5	Hysteresis	SG2 1P	25278	Float	4	R W	Volt	1 - 60
27P-5	Hysteresis	SG2 3P	25280	Float	4	R W	Volt	1 - 60
27P-5	Hysteresis	SG3 1P	25282	Float	4	R W	Volt	1 - 60
27P-5	Hysteresis	SG3 3P	25284	Float	4	R W	Volt	1 - 60
27P-6	Hysteresis	SG0 1P	25286	Float	4	R W	Volt	1 - 60
27P-6	Hysteresis	SG0 3P	25288	Float	4	R W	Volt	1 - 60
27P-6	Hysteresis	SG1 1P	25290	Float	4	R W	Volt	1 - 60
27P-6	Hysteresis	SG1 3P	25292	Float	4	R W	Volt	1 - 60
27P-6	Hysteresis	SG2 1P	25294	Float	4	R W	Volt	1 - 60
27P-6	Hysteresis	SG2 3P	25296	Float	4	R W	Volt	1 - 60
27P-6	Hysteresis	SG3 1P	25298	Float	4	R W	Volt	1 - 60
27P-6	Hysteresis	SG3 3P	25300	Float	4	R W	Volt	1 - 60
59P-1	Hysteresis	SG0 1P	25302	Float	4	R W	Volt	1 - 60
59P-1	Hysteresis	SG0 3P	25304	Float	4	R W	Volt	1 - 60
59P-1	Hysteresis	SG1 1P	25306	Float	4	R W	Volt	1 - 60
59P-1	Hysteresis	SG1 3P	25308	Float	4	R W	Volt	1 - 60
59P-1	Hysteresis	SG2 1P	25310	Float	4	R W	Volt	1 - 60
59P-1	Hysteresis	SG2 3P	25312	Float	4	R W	Volt	1 - 60
59P-1	Hysteresis	SG3 1P	25314	Float	4	R W	Volt	1 - 60
59P-1	Hysteresis	SG3 3P	25316	Float	4	R W	Volt	1 - 60
59P-2	Hysteresis	SG0 1P	25318	Float	4	R W	Volt	1 - 60
59P-2	Hysteresis	SG0 3P	25320	Float	4	R W	Volt	1 - 60
59P-2	Hysteresis	SG1 1P	25322	Float	4	R W	Volt	1 - 60
59P-2	Hysteresis	SG1 3P	25324	Float	4	R W	Volt	1 - 60
59P-2	Hysteresis	SG2 1P	25326	Float	4	R W	Volt	1 - 60
59P-2	Hysteresis	SG2 3P	25328	Float	4	R W	Volt	1 - 60
59P-2	Hysteresis	SG3 1P	25330	Float	4	R W	Volt	1 - 60
59P-2	Hysteresis	SG3 3P	25332	Float	4	R W	Volt	1 - 60
59P-3	Hysteresis	SG0 1P	25334	Float	4	R W	Volt	1 - 60
59P-3	Hysteresis	SG0 3P	25336	Float	4	R W	Volt	1 - 60
59P-3	Hysteresis	SG1 1P	25338	Float	4	R W	Volt	1 - 60
59P-3	Hysteresis	SG1 3P	25340	Float	4	R W	Volt	1 - 60
59P-3	Hysteresis	SG2 1P	25342	Float	4	R W	Volt	1 - 60
59P-3	Hysteresis	SG2 3P	25344	Float	4	R W	Volt	1 - 60
59P-3	Hysteresis	SG3 1P	25346	Float	4	R W	Volt	1 - 60
59P-3	Hysteresis	SG3 3P	25348	Float	4	R W	Volt	1 - 60
59P-4	Hysteresis	SG0 1P	25350	Float	4	R W	Volt	1 - 60
59P-4	Hysteresis	SG0 3P	25352	Float	4	R W	Volt	1 - 60
59P-4	Hysteresis	SG1 1P	25354	Float	4	R W	Volt	1 - 60
59P-4	Hysteresis	SG1 3P	25356	Float	4	R W	Volt	1 - 60
59P-4	Hysteresis	SG2 1P	25358	Float	4	R W	Volt	1 - 60
59P-4	Hysteresis	SG2 3P	25360	Float	4	R W	Volt	1 - 60
59P-4	Hysteresis	SG3 1P	25362	Float	4	R W	Volt	1 - 60
59P-4	Hysteresis	SG3 3P	25364	Float	4	R W	Volt	1 - 60
59P-5	Hysteresis	SG0 1P	25366	Float	4	R W	Volt	1 - 60
59P-5	Hysteresis	SG0 3P	25368	Float	4	R W	Volt	1 - 60
59P-5	Hysteresis	SG1 1P	25370	Float	4	R W	Volt	1 - 60
59P-5	Hysteresis	SG1 3P	25372	Float	4	R W	Volt	1 - 60
59P-5	Hysteresis	SG2 1P	25374	Float	4	R W	Volt	1 - 60
59P-5	Hysteresis	SG2 3P	25376	Float	4	R W	Volt	1 - 60
59P-5	Hysteresis	SG3 1P	25378	Float	4	R W	Volt	1 - 60
59P-5	Hysteresis	SG3 3P	25380	Float	4	R W	Volt	1 - 60
59P-6	Hysteresis	SG0 1P	25382	Float	4	R W	Volt	1 - 60
59P-6	Hysteresis	SG0 3P	25384	Float	4	R W	Volt	1 - 60
59P-6	Hysteresis	SG1 1P	25386	Float	4	R W	Volt	1 - 60
59P-6	Hysteresis	SG1 3P	25388	Float	4	R W	Volt	1 - 60
59P-6	Hysteresis	SG2 1P	25390	Float	4	R W	Volt	1 - 60
59P-6	Hysteresis	SG2 3P	25392	Float	4	R W	Volt	1 - 60
59P-6	Hysteresis	SG3 1P	25394	Float	4	R W	Volt	1 - 60

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
59P-6	Hysteresis	SG3 3P	25396	Float	4	R W	Volt	1 - 60
47-1	Hysteresis	SG0	25398	Float	4	R W	Volt	1 - 5
47-1	Hysteresis	SG1	25400	Float	4	R W	Volt	1 - 5
47-1	Hysteresis	SG2	25402	Float	4	R W	Volt	1 - 5
47-1	Hysteresis	SG3	25404	Float	4	R W	Volt	1 - 5
47-2	Hysteresis	SG0	25406	Float	4	R W	Volt	1 - 5
47-2	Hysteresis	SG1	25408	Float	4	R W	Volt	1 - 5
47-2	Hysteresis	SG2	25410	Float	4	R W	Volt	1 - 5
47-2	Hysteresis	SG3	25412	Float	4	R W	Volt	1 - 5
47-3	Hysteresis	SG0	25414	Float	4	R W	Volt	1 - 5
47-3	Hysteresis	SG1	25416	Float	4	R W	Volt	1 - 5
47-3	Hysteresis	SG2	25418	Float	4	R W	Volt	1 - 5
47-3	Hysteresis	SG3	25420	Float	4	R W	Volt	1 - 5
47-4	Hysteresis	SG0	25422	Float	4	R W	Volt	1 - 5
47-4	Hysteresis	SG1	25424	Float	4	R W	Volt	1 - 5
47-4	Hysteresis	SG2	25426	Float	4	R W	Volt	1 - 5
47-4	Hysteresis	SG3	25428	Float	4	R W	Volt	1 - 5
47-5	Hysteresis	SG0	25430	Float	4	R W	Volt	1 - 5
47-5	Hysteresis	SG1	25432	Float	4	R W	Volt	1 - 5
47-5	Hysteresis	SG2	25434	Float	4	R W	Volt	1 - 5
47-5	Hysteresis	SG3	25436	Float	4	R W	Volt	1 - 5
47-6	Hysteresis	SG0	25438	Float	4	R W	Volt	1 - 5
47-6	Hysteresis	SG1	25440	Float	4	R W	Volt	1 - 5
47-6	Hysteresis	SG2	25442	Float	4	R W	Volt	1 - 5
47-6	Hysteresis	SG3	25444	Float	4	R W	Volt	1 - 5
40Q-1	Hysteresis	SG0 1P	25446	Float	4	R W	Percent	1 - 10
40Q-1	Hysteresis	SG0 3P	25448	Float	4	R W	Percent	1 - 10
40Q-1	Hysteresis	SG1 1P	25450	Float	4	R W	Percent	1 - 10
40Q-1	Hysteresis	SG1 3P	25452	Float	4	R W	Percent	1 - 10
40Q-1	Hysteresis	SG2 1P	25454	Float	4	R W	Percent	1 - 10
40Q-1	Hysteresis	SG2 3P	25456	Float	4	R W	Percent	1 - 10
40Q-1	Hysteresis	SG3 1P	25458	Float	4	R W	Percent	1 - 10
40Q-1	Hysteresis	SG3 3P	25460	Float	4	R W	Percent	1 - 10
40Q-2	Hysteresis	SG0 1P	25462	Float	4	R W	Percent	1 - 10
40Q-2	Hysteresis	SG0 3P	25464	Float	4	R W	Percent	1 - 10
40Q-2	Hysteresis	SG1 1P	25466	Float	4	R W	Percent	1 - 10
40Q-2	Hysteresis	SG1 3P	25468	Float	4	R W	Percent	1 - 10
40Q-2	Hysteresis	SG2 1P	25470	Float	4	R W	Percent	1 - 10
40Q-2	Hysteresis	SG2 3P	25472	Float	4	R W	Percent	1 - 10
40Q-2	Hysteresis	SG3 1P	25474	Float	4	R W	Percent	1 - 10
40Q-2	Hysteresis	SG3 3P	25476	Float	4	R W	Percent	1 - 10
32-1	Hysteresis	SG0 1P	25478	Float	4	R W	Percent	1 - 10
32-1	Hysteresis	SG0 3P	25480	Float	4	R W	Percent	1 - 10
32-1	Hysteresis	SG1 1P	25482	Float	4	R W	Percent	1 - 10
32-1	Hysteresis	SG1 3P	25484	Float	4	R W	Percent	1 - 10
32-1	Hysteresis	SG2 1P	25486	Float	4	R W	Percent	1 - 10
32-1	Hysteresis	SG2 3P	25488	Float	4	R W	Percent	1 - 10
32-1	Hysteresis	SG3 1P	25490	Float	4	R W	Percent	1 - 10
32-1	Hysteresis	SG3 3P	25492	Float	4	R W	Percent	1 - 10
32-2	Hysteresis	SG0 1P	25494	Float	4	R W	Percent	1 - 10
32-2	Hysteresis	SG0 3P	25496	Float	4	R W	Percent	1 - 10
32-2	Hysteresis	SG1 1P	25498	Float	4	R W	Percent	1 - 10
32-2	Hysteresis	SG1 3P	25500	Float	4	R W	Percent	1 - 10
32-2	Hysteresis	SG2 1P	25502	Float	4	R W	Percent	1 - 10
32-2	Hysteresis	SG2 3P	25504	Float	4	R W	Percent	1 - 10
32-2	Hysteresis	SG3 1P	25506	Float	4	R W	Percent	1 - 10
32-2	Hysteresis	SG3 3P	25508	Float	4	R W	Percent	1 - 10
32-3	Hysteresis	SG0 1P	25510	Float	4	R W	Percent	1 - 10
32-3	Hysteresis	SG0 3P	25512	Float	4	R W	Percent	1 - 10
32-3	Hysteresis	SG1 1P	25514	Float	4	R W	Percent	1 - 10
32-3	Hysteresis	SG1 3P	25516	Float	4	R W	Percent	1 - 10
32-3	Hysteresis	SG2 1P	25518	Float	4	R W	Percent	1 - 10
32-3	Hysteresis	SG2 3P	25520	Float	4	R W	Percent	1 - 10
32-3	Hysteresis	SG3 1P	25522	Float	4	R W	Percent	1 - 10
32-3	Hysteresis	SG3 3P	25524	Float	4	R W	Percent	1 - 10
32-4	Hysteresis	SG0 1P	25526	Float	4	R W	Percent	1 - 10
32-4	Hysteresis	SG0 3P	25528	Float	4	R W	Percent	1 - 10
32-4	Hysteresis	SG1 1P	25530	Float	4	R W	Percent	1 - 10
32-4	Hysteresis	SG1 3P	25532	Float	4	R W	Percent	1 - 10
32-4	Hysteresis	SG2 1P	25534	Float	4	R W	Percent	1 - 10
32-4	Hysteresis	SG2 3P	25536	Float	4	R W	Percent	1 - 10
32-4	Hysteresis	SG3 1P	25538	Float	4	R W	Percent	1 - 10
32-4	Hysteresis	SG3 3P	25540	Float	4	R W	Percent	1 - 10
32-5	Hysteresis	SG0 1P	25542	Float	4	R W	Percent	1 - 10
32-5	Hysteresis	SG0 3P	25544	Float	4	R W	Percent	1 - 10
32-5	Hysteresis	SG1 1P	25546	Float	4	R W	Percent	1 - 10

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
32-5	Hysteresis	SG1 3P	25548	Float	4	R W	Percent	1 - 10
32-5	Hysteresis	SG2 1P	25550	Float	4	R W	Percent	1 - 10
32-5	Hysteresis	SG2 3P	25552	Float	4	R W	Percent	1 - 10
32-5	Hysteresis	SG3 1P	25554	Float	4	R W	Percent	1 - 10
32-5	Hysteresis	SG3 3P	25556	Float	4	R W	Percent	1 - 10
32-6	Hysteresis	SG0 1P	25558	Float	4	R W	Percent	1 - 10
32-6	Hysteresis	SG0 3P	25560	Float	4	R W	Percent	1 - 10
32-6	Hysteresis	SG1 1P	25562	Float	4	R W	Percent	1 - 10
32-6	Hysteresis	SG1 3P	25564	Float	4	R W	Percent	1 - 10
32-6	Hysteresis	SG2 1P	25566	Float	4	R W	Percent	1 - 10
32-6	Hysteresis	SG2 3P	25568	Float	4	R W	Percent	1 - 10
32-6	Hysteresis	SG3 1P	25570	Float	4	R W	Percent	1 - 10
32-6	Hysteresis	SG3 3P	25572	Float	4	R W	Percent	1 - 10
System Configuration	Soft Alarm Shutdown BP	GG	25574	UInt32	4	R	n/a	0 - 4294967295
81-1	ROC Enable Setting	SG0	25576	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-1	ROC Enable Setting	SG1	25578	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-1	ROC Enable Setting	SG2	25580	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-1	ROC Enable Setting	SG3	25582	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-2	ROC Enable Setting	SG0	25584	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-2	ROC Enable Setting	SG1	25586	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-2	ROC Enable Setting	SG2	25588	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-2	ROC Enable Setting	SG3	25590	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-3	ROC Enable Setting	SG0	25592	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-3	ROC Enable Setting	SG1	25594	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-3	ROC Enable Setting	SG2	25596	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-3	ROC Enable Setting	SG3	25598	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-4	ROC Enable Setting	SG0	25600	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-4	ROC Enable Setting	SG1	25602	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-4	ROC Enable Setting	SG2	25604	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-4	ROC Enable Setting	SG3	25606	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-5	ROC Enable Setting	SG0	25608	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-5	ROC Enable Setting	SG1	25610	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-5	ROC Enable Setting	SG2	25612	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-5	ROC Enable Setting	SG3	25614	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-6	ROC Enable Setting	SG0	25616	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-6	ROC Enable Setting	SG1	25618	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-6	ROC Enable Setting	SG2	25620	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-6	ROC Enable Setting	SG3	25622	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-7	ROC Enable Setting	SG0	25624	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-7	ROC Enable Setting	SG1	25626	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-7	ROC Enable Setting	SG2	25628	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-7	ROC Enable Setting	SG3	25630	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-8	ROC Enable Setting	SG0	25632	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-8	ROC Enable Setting	SG1	25634	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-8	ROC Enable Setting	SG2	25636	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
81-8	ROC Enable Setting	SG3	25638	UInt32	4	R W	n/a	Mains Parallel=0 Always=1
87N	Mode	SG0 1P	25640	UInt32	4	R W	n/a	Disabled=0 Enabled=1
87N	Source	SG0 1P	25642	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
87N	Iop Min	SG0 1P	25644	Float	4	R W	Amp	0 or 0.1 - 5
87N	Time Delay	SG0 1P	25646	Float	4	R W	Millisecond	0 - 60000
87N	Overcorrection Coefficient	SG0 1P	25648	Float	4	R W	n/a	1 - 1.3
87N	CT Flip	SG0 1P	25650	UInt32	4	R W		No=0 Yes=1
87N	Transient Delay Time	SG0 1P	25652	Float	4	R W	Millisecond	0 - 10000
87N	Alarm Config	SG0 1P	25654	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
87N	LowLineScale	SG0 1P	25656	Float	4	R W	n/a	0.001 - 3
87N	Mode	SG0 3P	25658	UInt32	4	R W	n/a	Disabled=0 Enabled=1
87N	Source	SG0 3P	25660	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
87N	Iop Min	SG0 3P	25662	Float	4	R W	Amp	0 or 0.1 - 5
87N	Time Delay	SG0 3P	25664	Float	4	R W	Millisecond	0 - 60000
87N	Overcorrection Coefficient	SG0 3P	25666	Float	4	R W	n/a	1 - 1.3
87N	CT Flip	SG0 3P	25668	UInt32	4	R W	n/a	No=0 Yes=1
87N	Transient Delay Time	SG0 3P	25670	Float	4	R W	Millisecond	0 - 10000
87N	Alarm Config	SG0 3P	25672	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
87N	LowLineScale	SG0 3P	25674	Float	4	R W	n/a	0.001 - 3
87N	Mode	SG1 1P	25676	UInt32	4	R W	n/a	Disabled=0 Enabled=1
87N	Source	SG1 1P	25678	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
87N	Iop Min	SG1 1P	25680	Float	4	R W	Amp	0 or 0.1 - 5
87N	Time Delay	SG1 1P	25682	Float	4	R W	Millisecond	0 - 60000
87N	Overcorrection Coefficient	SG1 1P	25684	Float	4	R W	n/a	1 - 1.3
87N	CT Flip	SG1 1P	25686	UInt32	4	R W	n/a	No=0 Yes=1
87N	Transient Delay Time	SG1 1P	25688	Float	4	R W	Millisecond	0 - 10000
87N	Alarm Config	SG1 1P	25690	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
87N	LowLineScale	SG1 1P	25692	Float	4	R W	n/a	0.001 - 3
87N	Mode	SG1 3P	25694	UInt32	4	R W	n/a	Disabled=0 Enabled=1
87N	Source	SG1 3P	25696	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
87N	Iop Min	SG1 3P	25698	Float	4	R W	Amp	0 or 0.1 - 5
87N	Time Delay	SG1 3P	25700	Float	4	R W	Millisecond	0 - 60000
87N	Overcorrection Coefficient	SG1 3P	25702	Float	4	R W	n/a	1 - 1.3
87N	CT Flip	SG1 3P	25704	UInt32	4	R W	n/a	No=0 Yes=1
87N	Transient Delay Time	SG1 3P	25706	Float	4	R W	Millisecond	0 - 10000
87N	Alarm Config	SG1 3P	25708	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
87N	LowLineScale	SG1 3P	25710	Float	4	R W	n/a	0.001 - 3
87N	Mode	SG2 1P	25712	UInt32	4	R W	n/a	Disabled=0 Enabled=1
87N	Source	SG2 1P	25714	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
87N	Iop Min	SG2 1P	25716	Float	4	R W	Amp	0 or 0.1 - 5
87N	Time Delay	SG2 1P	25718	Float	4	R W	Millisecond	0 - 60000
87N	Overcorrection Coefficient	SG2 1P	25720	Float	4	R W	n/a	1 - 1.3
87N	CT Flip	SG2 1P	25722	UInt32	4	R W	n/a	No=0 Yes=1
87N	Transient Delay Time	SG2 1P	25724	Float	4	R W	Millisecond	0 - 10000
87N	Alarm Config	SG2 1P	25726	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
87N	LowLineScale	SG2 1P	25728	Float	4	R W	n/a	0.001 - 3
87N	Mode	SG2 3P	25730	UInt32	4	R W	n/a	Disabled=0 Enabled=1
87N	Source	SG2 3P	25732	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
87N	Iop Min	SG2 3P	25734	Float	4	R W	Amp	0 or 0.1 - 5
87N	Time Delay	SG2 3P	25736	Float	4	R W	Millisecond	0 - 60000
87N	Overcorrection Coefficient	SG2 3P	25738	Float	4	R W	n/a	1 - 1.3
87N	CT Flip	SG2 3P	25740	UInt32	4	R W	n/a	No=0 Yes=1
87N	Transient Delay Time	SG2 3P	25742	Float	4	R W	Millisecond	0 - 10000
87N	Alarm Config	SG2 3P	25744	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
87N	LowLineScale	SG2 3P	25746	Float	4	R W	n/a	0.001 - 3
87N	Mode	SG3 1P	25748	UInt32	4	R W	n/a	Disabled=0 Enabled=1
87N	Source	SG3 1P	25750	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
87N	Iop Min	SG3 1P	25752	Float	4	R W	Amp	0 or 0.1 - 5
87N	Time Delay	SG3 1P	25754	Float	4	R W	Millisecond	0 - 60000
87N	Overcorrection Coefficient	SG3 1P	25756	Float	4	R W	n/a	1 - 1.3
87N	CT Flip	SG3 1P	25758	UInt32	4	R W	n/a	No=0 Yes=1
87N	Transient Delay Time	SG3 1P	25760	Float	4	R W	Millisecond	0 - 10000
87N	Alarm Config	SG3 1P	25762	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
87N	LowLineScale	SG3 1P	25764	Float	4	R W	n/a	0.001 - 3
87N	Mode	SG3 3P	25766	UInt32	4	R W	n/a	Disabled=0 Enabled=1
87N	Source	SG3 3P	25768	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
87N	Iop Min	SG3 3P	25770	Float	4	R W	Amp	0 or 0.1 - 5
87N	Time Delay	SG3 3P	25772	Float	4	R W	Millisecond	0 - 60000
87N	Overcorrection Coefficient	SG3 3P	25774	Float	4	R W	n/a	1 - 1.3
87N	CT Flip	SG3 3P	25776	UInt32	4	R W	n/a	No=0 Yes=1
87N	Transient Delay Time	SG3 3P	25778	Float	4	R W	Millisecond	0 - 10000

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
87N	Alarm Config	SG3 3P	25780	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
87N	LowLineScale	SG3 3P	25782	Float	4	R W	n/a	0.001 - 3
87G	Mode	SG0	25784	Uint32	4	R W	n/a	Disabled=0 Percent Differential=1
87G	Time Delay	SG0	25786	Float	4	R W	Millisecond	0 - 60000
87G	Min Restrained Pickup Value	SG0	25788	Float	4	R W	n/a	0 or 0.1 - 1
87G	Second Restrained Pickup Value	SG0	25790	Float	4	R W	n/a	0 or 0.1 - 20
87G	Restraint Slope Mode	SG0	25792	Uint32	4	R W	n/a	Maximum=0 Average=1
87G	Restraint Slope Percent1	SG0	25794	Float	4	R W	Percent	15 - 60
87G	Restraint Slope Percent2	SG0	25796	Float	4	R W	Percent	15 - 60
87G	Alarm Slope Percent1	SG0	25798	Float	4	R W	Percent	0 or 50 - 100
87G	Alarm Slope Percent2	SG0	25800	Float	4	R	Percent	0 or 50 - 100
87G	Second Harmonic Restraint	SG0	25802	Float	4	R W	Percent	0 or 5 - 75
87G	Fifth Harmonic Restraint	SG0	25804	Float	4	R W	Percent	0 or 5 - 75
87G	Shared Harmonic Restraint	SG0	25806	Uint32	4	R W	n/a	Independent=0 Shared=1
87G	Unrestrained Pickup Mode	SG0	25808	Uint32	4	R W	n/a	Disabled=0 Enabled=1
87G	Unrestrained Pickup Value	SG0	25810	Float	4	R W	n/a	0 or 0 - 21
87G	Flux Balance Pickup	SG0	25812	Float	4	R W	Amp	0 or 0.1 - 5
87G	Flux Balance Alarm	SG0	25814	Float	4	R W	Amp	0 or 0.1 - 5
87G	Transient Operate Time	SG0	25816	Float	4	R W	Millisecond	400 - 10000
87G	Transient Delay Time	SG0	25818	Float	4	R W	Millisecond	0 - 10000
87G	Alarm Config	SG0	25820	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
87G	Low Line Scale	SG0	25822	Float	4	R W	n/a	0.001 - 3
87G	Transient Monitor Test Mode	SG0	25824	Uint32	4	R	n/a	Disabled=0 Output High=1 Output Low=2
87G	Mode	SG1	25826	Uint32	4	R W	n/a	Disabled=0 Percent Differential=1
87G	Time Delay	SG1	25828	Float	4	R W	Millisecond	0 - 60000
87G	Min Restrained Pickup Value	SG1	25830	Float	4	R W	n/a	0 or 0.1 - 1
87G	Second Restrained Pickup Value	SG1	25832	Float	4	R W	n/a	0 or 0.1 - 20
87G	Restraint Slope Mode	SG1	25834	Uint32	4	R W	n/a	Maximum=0 Average=1
87G	Restraint Slope Percent1	SG1	25836	Float	4	R W	Percent	15 - 60
87G	Restraint Slope Percent2	SG1	25838	Float	4	R W	Percent	15 - 60
87G	Alarm Slope Percent1	SG1	25840	Float	4	R W	Percent	0 or 50 - 100
87G	Alarm Slope Percent2	SG1	25842	Float	4	R	Percent	0 or 50 - 100
87G	Second Harmonic Restraint	SG1	25844	Float	4	R W	Percent	0 or 5 - 75
87G	Fifth Harmonic Restraint	SG1	25846	Float	4	R W	Percent	0 or 5 - 75
87G	Shared Harmonic Restraint	SG1	25848	Uint32	4	R W	n/a	Independent=0 Shared=1
87G	Unrestrained Pickup Mode	SG1	25850	Uint32	4	R W	n/a	Disabled=0 Enabled=1
87G	Unrestrained Pickup Value	SG1	25852	Float	4	R W	n/a	0 or 0 - 21
87G	Flux Balance Pickup	SG1	25854	Float	4	R W	Amp	0 or 0.1 - 5
87G	Flux Balance Alarm	SG1	25856	Float	4	R W	Amp	0 or 0.1 - 5
87G	Transient Operate Time	SG1	25858	Float	4	R W	Millisecond	400 - 10000
87G	Transient Delay Time	SG1	25860	Float	4	R W	Millisecond	0 - 10000
87G	Alarm Config	SG1	25862	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
87G	Low Line Scale	SG1	25864	Float	4	R W	n/a	0.001 - 3
87G	Transient Monitor Test Mode	SG1	25866	Uint32	4	R	n/a	Disabled=0 Output High=1 Output Low=2
87G	Mode	SG2	25868	Uint32	4	R W	n/a	Disabled=0 Percent Differential=1
87G	Time Delay	SG2	25870	Float	4	R W	Millisecond	0 - 60000
87G	Min Restrained Pickup Value	SG2	25872	Float	4	R W	n/a	0 or 0.1 - 1
87G	Second Restrained Pickup Value	SG2	25874	Float	4	R W	n/a	0 or 0.1 - 20
87G	Restraint Slope Mode	SG2	25876	Uint32	4	R W	n/a	Maximum=0 Average=1
87G	Restraint Slope Percent1	SG2	25878	Float	4	R W	Percent	15 - 60
87G	Restraint Slope Percent2	SG2	25880	Float	4	R W	Percent	15 - 60
87G	Alarm Slope Percent1	SG2	25882	Float	4	R W	Percent	0 or 50 - 100
87G	Alarm Slope Percent2	SG2	25884	Float	4	R	Percent	0 or 50 - 100

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
87G	Second Harmonic Restraint	SG2	25886	Float	4	R W	Percent	0 or 5 - 75
87G	Fifth Harmonic Restraint	SG2	25888	Float	4	R W	Percent	0 or 5 - 75
87G	Shared Harmonic Restraint	SG2	25890	UInt32	4	R W	n/a	Independent=0 Shared=1
87G	Unrestrained Pickup Mode	SG2	25892	UInt32	4	R W	n/a	Disabled=0 Enabled=1
87G	Unrestrained Pickup Value	SG2	25894	Float	4	R W	n/a	0 or 0 - 21
87G	Flux Balance Pickup	SG2	25896	Float	4	R W	Amp	0 or 0.1 - 5
87G	Flux Balance Alarm	SG2	25898	Float	4	R W	Amp	0 or 0.1 - 5
87G	Transient Operate Time	SG2	25900	Float	4	R W	Millisecond	400 - 10000
87G	Transient Delay Time	SG2	25902	Float	4	R W	Millisecond	0 - 10000
87G	Alarm Config	SG2	25904	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
87G	Low Line Scale	SG2	25906	Float	4	R W	n/a	0.001 - 3
87G	Transient Monitor Test Mode	SG2	25908	UInt32	4	R	n/a	Disabled=0 Output High=1 Output Low=2
87G	Mode	SG3	25910	UInt32	4	R W	n/a	Disabled=0 Percent Differential=1
87G	Time Delay	SG3	25912	Float	4	R W	Millisecond	0 - 60000
87G	Min Restrained Pickup Value	SG3	25914	Float	4	R W	n/a	0 or 0.1 - 1
87G	Second Restrained Pickup Value	SG3	25916	Float	4	R W	n/a	0 or 0.1 - 20
87G	Restraint Slope Mode	SG3	25918	UInt32	4	R W	n/a	Maximum=0 Average=1
87G	Restraint Slope Percent1	SG3	25920	Float	4	R W	Percent	15 - 60
87G	Restraint Slope Percent2	SG3	25922	Float	4	R W	Percent	15 - 60
87G	Alarm Slope Percent1	SG3	25924	Float	4	R W	Percent	0 or 50 - 100
87G	Alarm Slope Percent2	SG3	25926	Float	4	R	Percent	0 or 50 - 100
87G	Second Harmonic Restraint	SG3	25928	Float	4	R W	Percent	0 or 5 - 75
87G	Fifth Harmonic Restraint	SG3	25930	Float	4	R W	Percent	0 or 5 - 75
87G	Shared Harmonic Restraint	SG3	25932	UInt32	4	R W	n/a	Independent=0 Shared=1
87G	Unrestrained Pickup Mode	SG3	25934	UInt32	4	R W	n/a	Disabled=0 Enabled=1
87G	Unrestrained Pickup Value	SG3	25936	Float	4	R W	n/a	0 or 0 - 21
87G	Flux Balance Pickup	SG3	25938	Float	4	R W	Amp	0 or 0.1 - 5
87G	Flux Balance Alarm	SG3	25940	Float	4	R W	Amp	0 or 0.1 - 5
87G	Transient Operate Time	SG3	25942	Float	4	R W	Millisecond	400 - 10000
87G	Transient Delay Time	SG3	25944	Float	4	R W	Millisecond	0 - 10000
87G	Alarm Config	SG3	25946	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
87G	Low Line Scale	SG3	25948	Float	4	R W	n/a	0.001 - 3
87G	Transient Monitor Test Mode	SG3	25950	UInt32	4	R	n/a	Disabled=0 Output High=1 Output Low=2
46-1	Mode	SG0 1P	25952	UInt32	4	R W	n/a	Disabled=0 I0=5
46-1	Source	SG0 1P	25954	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-1	Pickup	SG0 1P	25956	Float	4	R W	Amp	0 or 0.9 - 20
46-1	Curve Index	SG0 1P	25958	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-1	Direction	SG0 1P	25960	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-1	Use Instantaneous Reset	SG0 1P	25962	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-1	Const TD	SG0 1P	25964	Float	4	R W	n/a	0 - 9.9
46-1	Const A	SG0 1P	25966	Float	4	R W	n/a	0 - 600
46-1	Const B	SG0 1P	25968	Float	4	R W	n/a	0 - 25
46-1	Const C	SG0 1P	25970	Float	4	R W	n/a	0 - 1
46-1	Const N	SG0 1P	25972	Float	4	R W	n/a	0.5 - 2.5
46-1	Const R	SG0 1P	25974	Float	4	R W	n/a	0 - 30
46-1	Voltage Restraint Setpoint	SG0 1P	25976	Float	4	R W	Volt	0 or 30 - 250
46-1	Voltage Restraint Mode	SG0 1P	25978	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-1	Alarm Config	SG0 1P	25980	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-1	LowLineScale	SG0 1P	25982	Float	4	R W	n/a	0.001 - 3
46-1	Voltage Restraint Source	SG0 1P	25984	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-1	Const Q	SG0 1P	25986	Float	4	R W	n/a	0.1 - 10
46-1	Mode	SG1 1P	25988	UInt32	4	R W	n/a	Disabled=0 I0=5
46-1	Source	SG1 1P	25990	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
46-1	Pickup	SG1 1P	25992	Float	4	R W	Amp	0 or 0.9 - 20
46-1	Curve Index	SG1 1P	25994	Uint32	4	R W	n/a	Fixed Time=16 46=17
46-1	Direction	SG1 1P	25996	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-1	Use Instantaneous Reset	SG1 1P	25998	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
46-1	Const TD	SG1 1P	26000	Float	4	R W	n/a	0 - 9.9
46-1	Const A	SG1 1P	26002	Float	4	R W	n/a	0 - 600
46-1	Const B	SG1 1P	26004	Float	4	R W	n/a	0 - 25
46-1	Const C	SG1 1P	26006	Float	4	R W	n/a	0 - 1
46-1	Const N	SG1 1P	26008	Float	4	R W	n/a	0.5 - 2.5
46-1	Const R	SG1 1P	26010	Float	4	R W	n/a	0 - 30
46-1	Voltage Restraint Setpoint	SG1 1P	26012	Float	4	R W	Volt	0 or 30 - 250
46-1	Voltage Restraint Mode	SG1 1P	26014	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-1	Alarm Config	SG1 1P	26016	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
46-1	LowLineScale	SG1 1P	26018	Float	4	R W	n/a	0.001 - 3
46-1	Voltage Restraint Source	SG1 1P	26020	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-1	Const Q	SG1 1P	26022	Float	4	R W	n/a	0.1 - 10
46-1	Mode	SG2 1P	26024	Uint32	4	R W	n/a	Disabled=0 I0=5
46-1	Source	SG2 1P	26026	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-1	Pickup	SG2 1P	26028	Float	4	R W	Amp	0 or 0.9 - 20
46-1	Curve Index	SG2 1P	26030	Uint32	4	R W	n/a	Fixed Time=16 46=17
46-1	Direction	SG2 1P	26032	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-1	Use Instantaneous Reset	SG2 1P	26034	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
46-1	Const TD	SG2 1P	26036	Float	4	R W	n/a	0 - 9.9
46-1	Const A	SG2 1P	26038	Float	4	R W	n/a	0 - 600
46-1	Const B	SG2 1P	26040	Float	4	R W	n/a	0 - 25
46-1	Const C	SG2 1P	26042	Float	4	R W	n/a	0 - 1
46-1	Const N	SG2 1P	26044	Float	4	R W	n/a	0.5 - 2.5
46-1	Const R	SG2 1P	26046	Float	4	R W	n/a	0 - 30
46-1	Voltage Restraint Setpoint	SG2 1P	26048	Float	4	R W	Volt	0 or 30 - 250
46-1	Voltage Restraint Mode	SG2 1P	26050	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-1	Alarm Config	SG2 1P	26052	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
46-1	LowLineScale	SG2 1P	26054	Float	4	R W	n/a	0.001 - 3
46-1	Voltage Restraint Source	SG2 1P	26056	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-1	Const Q	SG2 1P	26058	Float	4	R W	n/a	0.1 - 10
46-1	Mode	SG3 1P	26060	Uint32	4	R W	n/a	Disabled=0 I0=5
46-1	Source	SG3 1P	26062	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-1	Pickup	SG3 1P	26064	Float	4	R W	Amp	0 or 0.9 - 20
46-1	Curve Index	SG3 1P	26066	Uint32	4	R W	n/a	Fixed Time=16 46=17
46-1	Direction	SG3 1P	26068	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-1	Use Instantaneous Reset	SG3 1P	26070	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
46-1	Const TD	SG3 1P	26072	Float	4	R W	n/a	0 - 9.9
46-1	Const A	SG3 1P	26074	Float	4	R W	n/a	0 - 600
46-1	Const B	SG3 1P	26076	Float	4	R W	n/a	0 - 25
46-1	Const C	SG3 1P	26078	Float	4	R W	n/a	0 - 1
46-1	Const N	SG3 1P	26080	Float	4	R W	n/a	0.5 - 2.5
46-1	Const R	SG3 1P	26082	Float	4	R W	n/a	0 - 30
46-1	Voltage Restraint Setpoint	SG3 1P	26084	Float	4	R W	Volt	0 or 30 - 250
46-1	Voltage Restraint Mode	SG3 1P	26086	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-1	Alarm Config	SG3 1P	26088	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
46-1	LowLineScale	SG3 1P	26090	Float	4	R W	n/a	0.001 - 3
46-1	Voltage Restraint Source	SG3 1P	26092	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
46-1	Const Q	SG3 1P	26094	Float	4	R W	n/a	0.1 - 10
46-2	Mode	SG0 1P	26096	UInt32	4	R W	n/a	Disabled=0 I0=5
46-2	Source	SG0 1P	26098	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-2	Pickup	SG0 1P	26100	Float	4	R W	Amp	0 or 0.9 - 20
46-2	Curve Index	SG0 1P	26102	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-2	Direction	SG0 1P	26104	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-2	Use Instantaneous Reset	SG0 1P	26106	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-2	Const TD	SG0 1P	26108	Float	4	R W	n/a	0 - 9.9
46-2	Const A	SG0 1P	26110	Float	4	R W	n/a	0 - 600
46-2	Const B	SG0 1P	26112	Float	4	R W	n/a	0 - 25
46-2	Const C	SG0 1P	26114	Float	4	R W	n/a	0 - 1
46-2	Const N	SG0 1P	26116	Float	4	R W	n/a	0.5 - 2.5
46-2	Const R	SG0 1P	26118	Float	4	R W	n/a	0 - 30
46-2	Voltage Restraint Setpoint	SG0 1P	26120	Float	4	R W	Volt	0 or 30 - 250
46-2	Voltage Restraint Mode	SG0 1P	26122	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-2	Alarm Config	SG0 1P	26124	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-2	LowLineScale	SG0 1P	26126	Float	4	R W	n/a	0.001 - 3
46-2	Voltage Restraint Source	SG0 1P	26128	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-2	Const Q	SG0 1P	26130	Float	4	R W	n/a	0.1 - 10
46-2	Mode	SG1 1P	26132	UInt32	4	R W	n/a	Disabled=0 I0=5
46-2	Source	SG1 1P	26134	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-2	Pickup	SG1 1P	26136	Float	4	R W	Amp	0 or 0.9 - 20
46-2	Curve Index	SG1 1P	26138	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-2	Direction	SG1 1P	26140	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-2	Use Instantaneous Reset	SG1 1P	26142	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-2	Const TD	SG1 1P	26144	Float	4	R W	n/a	0 - 9.9
46-2	Const A	SG1 1P	26146	Float	4	R W	n/a	0 - 600
46-2	Const B	SG1 1P	26148	Float	4	R W	n/a	0 - 25
46-2	Const C	SG1 1P	26150	Float	4	R W	n/a	0 - 1
46-2	Const N	SG1 1P	26152	Float	4	R W	n/a	0.5 - 2.5
46-2	Const R	SG1 1P	26154	Float	4	R W	n/a	0 - 30
46-2	Voltage Restraint Setpoint	SG1 1P	26156	Float	4	R W	Volt	0 or 30 - 250
46-2	Voltage Restraint Mode	SG1 1P	26158	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-2	Alarm Config	SG1 1P	26160	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-2	LowLineScale	SG1 1P	26162	Float	4	R W	n/a	0.001 - 3
46-2	Voltage Restraint Source	SG1 1P	26164	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-2	Const Q	SG1 1P	26166	Float	4	R W	n/a	0.1 - 10
46-2	Mode	SG2 1P	26168	UInt32	4	R W	n/a	Disabled=0 I0=5
46-2	Source	SG2 1P	26170	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-2	Pickup	SG2 1P	26172	Float	4	R W	Amp	0 or 0.9 - 20
46-2	Curve Index	SG2 1P	26174	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-2	Direction	SG2 1P	26176	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-2	Use Instantaneous Reset	SG2 1P	26178	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-2	Const TD	SG2 1P	26180	Float	4	R W	n/a	0 - 9.9
46-2	Const A	SG2 1P	26182	Float	4	R W	n/a	0 - 600
46-2	Const B	SG2 1P	26184	Float	4	R W	n/a	0 - 25
46-2	Const C	SG2 1P	26186	Float	4	R W	n/a	0 - 1
46-2	Const N	SG2 1P	26188	Float	4	R W	n/a	0.5 - 2.5
46-2	Const R	SG2 1P	26190	Float	4	R W	n/a	0 - 30
46-2	Voltage Restraint Setpoint	SG2 1P	26192	Float	4	R W	Volt	0 or 30 - 250
46-2	Voltage Restraint Mode	SG2 1P	26194	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
46-2	Alarm Config	SG2 1P	26196	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-2	LowLineScale	SG2 1P	26198	Float	4	R W	n/a	0.001 - 3
46-2	Voltage Restraint Source	SG2 1P	26200	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-2	Const Q	SG2 1P	26202	Float	4	R W	n/a	0.1 - 10
46-2	Mode	SG3 1P	26204	UInt32	4	R W	n/a	Disabled=0 I0=5
46-2	Source	SG3 1P	26206	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-2	Pickup	SG3 1P	26208	Float	4	R W	Amp	0 or 0.9 - 20
46-2	Curve Index	SG3 1P	26210	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-2	Direction	SG3 1P	26212	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-2	Use Instantaneous Reset	SG3 1P	26214	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-2	Const TD	SG3 1P	26216	Float	4	R W	n/a	0 - 9.9
46-2	Const A	SG3 1P	26218	Float	4	R W	n/a	0 - 600
46-2	Const B	SG3 1P	26220	Float	4	R W	n/a	0 - 25
46-2	Const C	SG3 1P	26222	Float	4	R W	n/a	0 - 1
46-2	Const N	SG3 1P	26224	Float	4	R W	n/a	0.5 - 2.5
46-2	Const R	SG3 1P	26226	Float	4	R W	n/a	0 - 30
46-2	Voltage Restraint Setpoint	SG3 1P	26228	Float	4	R W	Volt	0 or 30 - 250
46-2	Voltage Restraint Mode	SG3 1P	26230	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-2	Alarm Config	SG3 1P	26232	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-2	LowLineScale	SG3 1P	26234	Float	4	R W	n/a	0.001 - 3
46-2	Voltage Restraint Source	SG3 1P	26236	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-2	Const Q	SG3 1P	26238	Float	4	R W	n/a	0.1 - 10
46-3	Mode	SG0 1P	26240	UInt32	4	R W	n/a	Disabled=0 I0=5
46-3	Source	SG0 1P	26242	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-3	Pickup	SG0 1P	26244	Float	4	R W	Amp	0 or 0.9 - 20
46-3	Curve Index	SG0 1P	26246	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-3	Direction	SG0 1P	26248	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-3	Use Instantaneous Reset	SG0 1P	26250	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-3	Const TD	SG0 1P	26252	Float	4	R W	n/a	0 - 9.9
46-3	Const A	SG0 1P	26254	Float	4	R W	n/a	0 - 600
46-3	Const B	SG0 1P	26256	Float	4	R W	n/a	0 - 25
46-3	Const C	SG0 1P	26258	Float	4	R W	n/a	0 - 1
46-3	Const N	SG0 1P	26260	Float	4	R W	n/a	0.5 - 2.5
46-3	Const R	SG0 1P	26262	Float	4	R W	n/a	0 - 30
46-3	Voltage Restraint Setpoint	SG0 1P	26264	Float	4	R W	Volt	0 or 30 - 250
46-3	Voltage Restraint Mode	SG0 1P	26266	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-3	Alarm Config	SG0 1P	26268	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-3	LowLineScale	SG0 1P	26270	Float	4	R W	n/a	0.001 - 3
46-3	Voltage Restraint Source	SG0 1P	26272	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-3	Const Q	SG0 1P	26274	Float	4	R W	n/a	0.1 - 10
46-3	Mode	SG1 1P	26276	UInt32	4	R W	n/a	Disabled=0 I0=5
46-3	Source	SG1 1P	26278	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-3	Pickup	SG1 1P	26280	Float	4	R W	Amp	0 or 0.9 - 20
46-3	Curve Index	SG1 1P	26282	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-3	Direction	SG1 1P	26284	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-3	Use Instantaneous Reset	SG1 1P	26286	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-3	Const TD	SG1 1P	26288	Float	4	R W	n/a	0 - 9.9
46-3	Const A	SG1 1P	26290	Float	4	R W	n/a	0 - 600
46-3	Const B	SG1 1P	26292	Float	4	R W	n/a	0 - 25
46-3	Const C	SG1 1P	26294	Float	4	R W	n/a	0 - 1
46-3	Const N	SG1 1P	26296	Float	4	R W	n/a	0.5 - 2.5
46-3	Const R	SG1 1P	26298	Float	4	R W	n/a	0 - 30
46-3	Voltage Restraint Setpoint	SG1 1P	26300	Float	4	R W	Volt	0 or 30 - 250

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
46-3	Voltage Restraint Mode	SG1 1P	26302	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-3	Alarm Config	SG1 1P	26304	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
46-3	LowLineScale	SG1 1P	26306	Float	4	R W	n/a	0.001 - 3
46-3	Voltage Restraint Source	SG1 1P	26308	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-3	Const Q	SG1 1P	26310	Float	4	R W	n/a	0.1 - 10
46-3	Mode	SG2 1P	26312	UInt32	4	R W	n/a	Disabled=0 I0=5
46-3	Source	SG2 1P	26314	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-3	Pickup	SG2 1P	26316	Float	4	R W	Amp	0 or 0.9 - 20
46-3	Curve Index	SG2 1P	26318	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-3	Direction	SG2 1P	26320	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-3	Use Instantaneous Reset	SG2 1P	26322	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-3	Const TD	SG2 1P	26324	Float	4	R W	n/a	0 - 9.9
46-3	Const A	SG2 1P	26326	Float	4	R W	n/a	0 - 600
46-3	Const B	SG2 1P	26328	Float	4	R W	n/a	0 - 25
46-3	Const C	SG2 1P	26330	Float	4	R W	n/a	0 - 1
46-3	Const N	SG2 1P	26332	Float	4	R W	n/a	0.5 - 2.5
46-3	Const R	SG2 1P	26334	Float	4	R W	n/a	0 - 30
46-3	Voltage Restraint Setpoint	SG2 1P	26336	Float	4	R W	Volt	0 or 30 - 250
46-3	Voltage Restraint Mode	SG2 1P	26338	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-3	Alarm Config	SG2 1P	26340	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
46-3	LowLineScale	SG2 1P	26342	Float	4	R W	n/a	0.001 - 3
46-3	Voltage Restraint Source	SG2 1P	26344	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-3	Const Q	SG2 1P	26346	Float	4	R W	n/a	0.1 - 10
46-3	Mode	SG3 1P	26348	UInt32	4	R W	n/a	Disabled=0 I0=5
46-3	Source	SG3 1P	26350	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-3	Pickup	SG3 1P	26352	Float	4	R W	Amp	0 or 0.9 - 20
46-3	Curve Index	SG3 1P	26354	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-3	Direction	SG3 1P	26356	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-3	Use Instantaneous Reset	SG3 1P	26358	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-3	Const TD	SG3 1P	26360	Float	4	R W	n/a	0 - 9.9
46-3	Const A	SG3 1P	26362	Float	4	R W	n/a	0 - 600
46-3	Const B	SG3 1P	26364	Float	4	R W	n/a	0 - 25
46-3	Const C	SG3 1P	26366	Float	4	R W	n/a	0 - 1
46-3	Const N	SG3 1P	26368	Float	4	R W	n/a	0.5 - 2.5
46-3	Const R	SG3 1P	26370	Float	4	R W	n/a	0 - 30
46-3	Voltage Restraint Setpoint	SG3 1P	26372	Float	4	R W	Volt	0 or 30 - 250
46-3	Voltage Restraint Mode	SG3 1P	26374	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-3	Alarm Config	SG3 1P	26376	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
46-3	LowLineScale	SG3 1P	26378	Float	4	R W	n/a	0.001 - 3
46-3	Voltage Restraint Source	SG3 1P	26380	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-3	Const Q	SG3 1P	26382	Float	4	R W	n/a	0.1 - 10
46-4	Mode	SG0 1P	26384	UInt32	4	R W	n/a	Disabled=0 I0=5
46-4	Source	SG0 1P	26386	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-4	Pickup	SG0 1P	26388	Float	4	R W	Amp	0 or 0.9 - 20
46-4	Curve Index	SG0 1P	26390	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-4	Direction	SG0 1P	26392	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-4	Use Instantaneous Reset	SG0 1P	26394	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-4	Const TD	SG0 1P	26396	Float	4	R W	n/a	0 - 9.9
46-4	Const A	SG0 1P	26398	Float	4	R W	n/a	0 - 600
46-4	Const B	SG0 1P	26400	Float	4	R W	n/a	0 - 25
46-4	Const C	SG0 1P	26402	Float	4	R W	n/a	0 - 1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
46-4	Const N	SG0 1P	26404	Float	4	R W	n/a	0.5 - 2.5
46-4	Const R	SG0 1P	26406	Float	4	R W	n/a	0 - 30
46-4	Voltage Restraint Setpoint	SG0 1P	26408	Float	4	R W	Volt	0 or 30 - 250
46-4	Voltage Restraint Mode	SG0 1P	26410	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-4	Alarm Config	SG0 1P	26412	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-4	LowLineScale	SG0 1P	26414	Float	4	R W	n/a	0.001 - 3
46-4	Voltage Restraint Source	SG0 1P	26416	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-4	Const Q	SG0 1P	26418	Float	4	R W	n/a	0.1 - 10
46-4	Mode	SG1 1P	26420	Uint32	4	R W	n/a	Disabled=0 I0=5
46-4	Source	SG1 1P	26422	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-4	Pickup	SG1 1P	26424	Float	4	R W	Amp	0 or 0.9 - 20
46-4	Curve Index	SG1 1P	26426	Uint32	4	R W	n/a	Fixed Time=16 46=17
46-4	Direction	SG1 1P	26428	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-4	Use Instantaneous Reset	SG1 1P	26430	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
46-4	Const TD	SG1 1P	26432	Float	4	R W	n/a	0 - 9.9
46-4	Const A	SG1 1P	26434	Float	4	R W	n/a	0 - 600
46-4	Const B	SG1 1P	26436	Float	4	R W	n/a	0 - 25
46-4	Const C	SG1 1P	26438	Float	4	R W	n/a	0 - 1
46-4	Const N	SG1 1P	26440	Float	4	R W	n/a	0.5 - 2.5
46-4	Const R	SG1 1P	26442	Float	4	R W	n/a	0 - 30
46-4	Voltage Restraint Setpoint	SG1 1P	26444	Float	4	R W	Volt	0 or 30 - 250
46-4	Voltage Restraint Mode	SG1 1P	26446	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-4	Alarm Config	SG1 1P	26448	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-4	LowLineScale	SG1 1P	26450	Float	4	R W	n/a	0.001 - 3
46-4	Voltage Restraint Source	SG1 1P	26452	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-4	Const Q	SG1 1P	26454	Float	4	R W	n/a	0.1 - 10
46-4	Mode	SG2 1P	26456	Uint32	4	R W	n/a	Disabled=0 I0=5
46-4	Source	SG2 1P	26458	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-4	Pickup	SG2 1P	26460	Float	4	R W	Amp	0 or 0.9 - 20
46-4	Curve Index	SG2 1P	26462	Uint32	4	R W	n/a	Fixed Time=16 46=17
46-4	Direction	SG2 1P	26464	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-4	Use Instantaneous Reset	SG2 1P	26466	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
46-4	Const TD	SG2 1P	26468	Float	4	R W	n/a	0 - 9.9
46-4	Const A	SG2 1P	26470	Float	4	R W	n/a	0 - 600
46-4	Const B	SG2 1P	26472	Float	4	R W	n/a	0 - 25
46-4	Const C	SG2 1P	26474	Float	4	R W	n/a	0 - 1
46-4	Const N	SG2 1P	26476	Float	4	R W	n/a	0.5 - 2.5
46-4	Const R	SG2 1P	26478	Float	4	R W	n/a	0 - 30
46-4	Voltage Restraint Setpoint	SG2 1P	26480	Float	4	R W	Volt	0 or 30 - 250
46-4	Voltage Restraint Mode	SG2 1P	26482	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-4	Alarm Config	SG2 1P	26484	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-4	LowLineScale	SG2 1P	26486	Float	4	R W	n/a	0.001 - 3
46-4	Voltage Restraint Source	SG2 1P	26488	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-4	Const Q	SG2 1P	26490	Float	4	R W	n/a	0.1 - 10
46-4	Mode	SG3 1P	26492	Uint32	4	R W	n/a	Disabled=0 I0=5
46-4	Source	SG3 1P	26494	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-4	Pickup	SG3 1P	26496	Float	4	R W	Amp	0 or 0.9 - 20
46-4	Curve Index	SG3 1P	26498	Uint32	4	R W	n/a	Fixed Time=16 46=17
46-4	Direction	SG3 1P	26500	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-4	Use Instantaneous Reset	SG3 1P	26502	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
46-4	Const TD	SG3 1P	26504	Float	4	R W	n/a	0 - 9.9

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
46-4	Const A	SG3 1P	26506	Float	4	R W	n/a	0 - 600
46-4	Const B	SG3 1P	26508	Float	4	R W	n/a	0 - 25
46-4	Const C	SG3 1P	26510	Float	4	R W	n/a	0 - 1
46-4	Const N	SG3 1P	26512	Float	4	R W	n/a	0.5 - 2.5
46-4	Const R	SG3 1P	26514	Float	4	R W	n/a	0 - 30
46-4	Voltage Restraint Setpoint	SG3 1P	26516	Float	4	R W	Volt	0 or 30 - 250
46-4	Voltage Restraint Mode	SG3 1P	26518	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-4	Alarm Config	SG3 1P	26520	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
46-4	LowLineScale	SG3 1P	26522	Float	4	R W	n/a	0.001 - 3
46-4	Voltage Restraint Source	SG3 1P	26524	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-4	Const Q	SG3 1P	26526	Float	4	R W	n/a	0.1 - 10
46-5	Mode	SG0 1P	26528	UInt32	4	R W	n/a	Disabled=0 I0=5
46-5	Source	SG0 1P	26530	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-5	Pickup	SG0 1P	26532	Float	4	R W	Amp	0 or 0.9 - 20
46-5	Curve Index	SG0 1P	26534	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-5	Direction	SG0 1P	26536	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-5	Use Instantaneous Reset	SG0 1P	26538	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-5	Const TD	SG0 1P	26540	Float	4	R W	n/a	0 - 9.9
46-5	Const A	SG0 1P	26542	Float	4	R W	n/a	0 - 600
46-5	Const B	SG0 1P	26544	Float	4	R W	n/a	0 - 25
46-5	Const C	SG0 1P	26546	Float	4	R W	n/a	0 - 1
46-5	Const N	SG0 1P	26548	Float	4	R W	n/a	0.5 - 2.5
46-5	Const R	SG0 1P	26550	Float	4	R W	n/a	0 - 30
46-5	Voltage Restraint Setpoint	SG0 1P	26552	Float	4	R W	Volt	0 or 30 - 250
46-5	Voltage Restraint Mode	SG0 1P	26554	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-5	Alarm Config	SG0 1P	26556	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
46-5	LowLineScale	SG0 1P	26558	Float	4	R W	n/a	0.001 - 3
46-5	Voltage Restraint Source	SG0 1P	26560	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-5	Const Q	SG0 1P	26562	Float	4	R W	n/a	0.1 - 10
46-5	Mode	SG1 1P	26564	UInt32	4	R W	n/a	Disabled=0 I0=5
46-5	Source	SG1 1P	26566	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-5	Pickup	SG1 1P	26568	Float	4	R W	Amp	0 or 0.9 - 20
46-5	Curve Index	SG1 1P	26570	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-5	Direction	SG1 1P	26572	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-5	Use Instantaneous Reset	SG1 1P	26574	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-5	Const TD	SG1 1P	26576	Float	4	R W	n/a	0 - 9.9
46-5	Const A	SG1 1P	26578	Float	4	R W	n/a	0 - 600
46-5	Const B	SG1 1P	26580	Float	4	R W	n/a	0 - 25
46-5	Const C	SG1 1P	26582	Float	4	R W	n/a	0 - 1
46-5	Const N	SG1 1P	26584	Float	4	R W	n/a	0.5 - 2.5
46-5	Const R	SG1 1P	26586	Float	4	R W	n/a	0 - 30
46-5	Voltage Restraint Setpoint	SG1 1P	26588	Float	4	R W	Volt	0 or 30 - 250
46-5	Voltage Restraint Mode	SG1 1P	26590	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-5	Alarm Config	SG1 1P	26592	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
46-5	LowLineScale	SG1 1P	26594	Float	4	R W	n/a	0.001 - 3
46-5	Voltage Restraint Source	SG1 1P	26596	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-5	Const Q	SG1 1P	26598	Float	4	R W	n/a	0.1 - 10
46-5	Mode	SG2 1P	26600	UInt32	4	R W	n/a	Disabled=0 I0=5
46-5	Source	SG2 1P	26602	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-5	Pickup	SG2 1P	26604	Float	4	R W	Amp	0 or 0.9 - 20
46-5	Curve Index	SG2 1P	26606	UInt32	4	R W	n/a	Fixed Time=16 46=17

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
46-5	Direction	SG2 1P	26608	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-5	Use Instantaneous Reset	SG2 1P	26610	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-5	Const TD	SG2 1P	26612	Float	4	R W	n/a	0 - 9.9
46-5	Const A	SG2 1P	26614	Float	4	R W	n/a	0 - 600
46-5	Const B	SG2 1P	26616	Float	4	R W	n/a	0 - 25
46-5	Const C	SG2 1P	26618	Float	4	R W	n/a	0 - 1
46-5	Const N	SG2 1P	26620	Float	4	R W	n/a	0.5 - 2.5
46-5	Const R	SG2 1P	26622	Float	4	R W	n/a	0 - 30
46-5	Voltage Restraint Setpoint	SG2 1P	26624	Float	4	R W	Volt	0 or 30 - 250
46-5	Voltage Restraint Mode	SG2 1P	26626	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-5	Alarm Config	SG2 1P	26628	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
46-5	LowLineScale	SG2 1P	26630	Float	4	R W	n/a	0.001 - 3
46-5	Voltage Restraint Source	SG2 1P	26632	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-5	Const Q	SG2 1P	26634	Float	4	R W	n/a	0.1 - 10
46-5	Mode	SG3 1P	26636	UInt32	4	R W	n/a	Disabled=0 I0=5
46-5	Source	SG3 1P	26638	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-5	Pickup	SG3 1P	26640	Float	4	R W	Amp	0 or 0.9 - 20
46-5	Curve Index	SG3 1P	26642	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-5	Direction	SG3 1P	26644	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-5	Use Instantaneous Reset	SG3 1P	26646	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-5	Const TD	SG3 1P	26648	Float	4	R W	n/a	0 - 9.9
46-5	Const A	SG3 1P	26650	Float	4	R W	n/a	0 - 600
46-5	Const B	SG3 1P	26652	Float	4	R W	n/a	0 - 25
46-5	Const C	SG3 1P	26654	Float	4	R W	n/a	0 - 1
46-5	Const N	SG3 1P	26656	Float	4	R W	n/a	0.5 - 2.5
46-5	Const R	SG3 1P	26658	Float	4	R W	n/a	0 - 30
46-5	Voltage Restraint Setpoint	SG3 1P	26660	Float	4	R W	Volt	0 or 30 - 250
46-5	Voltage Restraint Mode	SG3 1P	26662	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-5	Alarm Config	SG3 1P	26664	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
46-5	LowLineScale	SG3 1P	26666	Float	4	R W	n/a	0.001 - 3
46-5	Voltage Restraint Source	SG3 1P	26668	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-5	Const Q	SG3 1P	26670	Float	4	R W	n/a	0.1 - 10
46-6	Mode	SG0 1P	26672	UInt32	4	R W	n/a	Disabled=0 I0=5
46-6	Source	SG0 1P	26674	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-6	Pickup	SG0 1P	26676	Float	4	R W	Amp	0 or 0.9 - 20
46-6	Curve Index	SG0 1P	26678	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-6	Direction	SG0 1P	26680	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-6	Use Instantaneous Reset	SG0 1P	26682	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-6	Const TD	SG0 1P	26684	Float	4	R W	n/a	0 - 9.9
46-6	Const A	SG0 1P	26686	Float	4	R W	n/a	0 - 600
46-6	Const B	SG0 1P	26688	Float	4	R W	n/a	0 - 25
46-6	Const C	SG0 1P	26690	Float	4	R W	n/a	0 - 1
46-6	Const N	SG0 1P	26692	Float	4	R W	n/a	0.5 - 2.5
46-6	Const R	SG0 1P	26694	Float	4	R W	n/a	0 - 30
46-6	Voltage Restraint Setpoint	SG0 1P	26696	Float	4	R W	Volt	0 or 30 - 250
46-6	Voltage Restraint Mode	SG0 1P	26698	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-6	Alarm Config	SG0 1P	26700	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
46-6	LowLineScale	SG0 1P	26702	Float	4	R W	n/a	0.001 - 3
46-6	Voltage Restraint Source	SG0 1P	26704	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-6	Const Q	SG0 1P	26706	Float	4	R W	n/a	0.1 - 10
46-6	Mode	SG1 1P	26708	UInt32	4	R W	n/a	Disabled=0 I0=5

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
46-6	Source	SG1 1P	26710	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-6	Pickup	SG1 1P	26712	Float	4	R W	Amp	0 or 0.9 - 20
46-6	Curve Index	SG1 1P	26714	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-6	Direction	SG1 1P	26716	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-6	Use Instantaneous Reset	SG1 1P	26718	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-6	Const TD	SG1 1P	26720	Float	4	R W	n/a	0 - 9.9
46-6	Const A	SG1 1P	26722	Float	4	R W	n/a	0 - 600
46-6	Const B	SG1 1P	26724	Float	4	R W	n/a	0 - 25
46-6	Const C	SG1 1P	26726	Float	4	R W	n/a	0 - 1
46-6	Const N	SG1 1P	26728	Float	4	R W	n/a	0.5 - 2.5
46-6	Const R	SG1 1P	26730	Float	4	R W	n/a	0 - 30
46-6	Voltage Restraint Setpoint	SG1 1P	26732	Float	4	R W	Volt	0 or 30 - 250
46-6	Voltage Restraint Mode	SG1 1P	26734	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-6	Alarm Config	SG1 1P	26736	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-6	LowLineScale	SG1 1P	26738	Float	4	R W	n/a	0.001 - 3
46-6	Voltage Restraint Source	SG1 1P	26740	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-6	Const Q	SG1 1P	26742	Float	4	R W	n/a	0.1 - 10
46-6	Mode	SG2 1P	26744	UInt32	4	R W	n/a	Disabled=0 I0=5
46-6	Source	SG2 1P	26746	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-6	Pickup	SG2 1P	26748	Float	4	R W	Amp	0 or 0.9 - 20
46-6	Curve Index	SG2 1P	26750	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-6	Direction	SG2 1P	26752	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-6	Use Instantaneous Reset	SG2 1P	26754	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-6	Const TD	SG2 1P	26756	Float	4	R W	n/a	0 - 9.9
46-6	Const A	SG2 1P	26758	Float	4	R W	n/a	0 - 600
46-6	Const B	SG2 1P	26760	Float	4	R W	n/a	0 - 25
46-6	Const C	SG2 1P	26762	Float	4	R W	n/a	0 - 1
46-6	Const N	SG2 1P	26764	Float	4	R W	n/a	0.5 - 2.5
46-6	Const R	SG2 1P	26766	Float	4	R W	n/a	0 - 30
46-6	Voltage Restraint Setpoint	SG2 1P	26768	Float	4	R W	Volt	0 or 30 - 250
46-6	Voltage Restraint Mode	SG2 1P	26770	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-6	Alarm Config	SG2 1P	26772	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-6	LowLineScale	SG2 1P	26774	Float	4	R W	n/a	0.001 - 3
46-6	Voltage Restraint Source	SG2 1P	26776	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-6	Const Q	SG2 1P	26778	Float	4	R W	n/a	0.1 - 10
46-6	Mode	SG3 1P	26780	UInt32	4	R W	n/a	Disabled=0 I0=5
46-6	Source	SG3 1P	26782	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-6	Pickup	SG3 1P	26784	Float	4	R W	Amp	0 or 0.9 - 20
46-6	Curve Index	SG3 1P	26786	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-6	Direction	SG3 1P	26788	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-6	Use Instantaneous Reset	SG3 1P	26790	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-6	Const TD	SG3 1P	26792	Float	4	R W	n/a	0 - 9.9
46-6	Const A	SG3 1P	26794	Float	4	R W	n/a	0 - 600
46-6	Const B	SG3 1P	26796	Float	4	R W	n/a	0 - 25
46-6	Const C	SG3 1P	26798	Float	4	R W	n/a	0 - 1
46-6	Const N	SG3 1P	26800	Float	4	R W	n/a	0.5 - 2.5
46-6	Const R	SG3 1P	26802	Float	4	R W	n/a	0 - 30
46-6	Voltage Restraint Setpoint	SG3 1P	26804	Float	4	R W	Volt	0 or 30 - 250
46-6	Voltage Restraint Mode	SG3 1P	26806	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-6	Alarm Config	SG3 1P	26808	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-6	LowLineScale	SG3 1P	26810	Float	4	R W	n/a	0.001 - 3

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
46-6	Voltage Restraint Source	SG3 1P	26812	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-6	Const Q	SG3 1P	26814	Float	4	R W	n/a	0.1 - 10
46-1	Mode	SG0 3P	26816	UInt32	4	R W	n/a	Disabled=0 I2=6
46-1	Source	SG0 3P	26818	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-1	Pickup	SG0 3P	26820	Float	4	R W	Amp	0 or 0.9 - 20
46-1	Curve Index	SG0 3P	26822	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-1	Direction	SG0 3P	26824	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-1	Use Instantaneous Reset	SG0 3P	26826	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-1	Const TD	SG0 3P	26828	Float	4	R W	n/a	0 - 9.9
46-1	Const A	SG0 3P	26830	Float	4	R W	n/a	0 - 600
46-1	Const B	SG0 3P	26832	Float	4	R W	n/a	0 - 25
46-1	Const C	SG0 3P	26834	Float	4	R W	n/a	0 - 1
46-1	Const N	SG0 3P	26836	Float	4	R W	n/a	0.5 - 2.5
46-1	Const R	SG0 3P	26838	Float	4	R W	n/a	0 - 30
46-1	Voltage Restraint Setpoint	SG0 3P	26840	Float	4	R W	Volt	0 or 30 - 250
46-1	Voltage Restraint Mode	SG0 3P	26842	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-1	Alarm Config	SG0 3P	26844	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
46-1	LowLineScale	SG0 3P	26846	Float	4	R W	n/a	0.001 - 3
46-1	Voltage Restraint Source	SG0 3P	26848	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-1	Const Q	SG0 3P	26850	Float	4	R W	n/a	0.1 - 10
46-1	Mode	SG1 3P	26852	UInt32	4	R W	n/a	Disabled=0 I2=6
46-1	Source	SG1 3P	26854	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-1	Pickup	SG1 3P	26856	Float	4	R W	Amp	0 or 0.9 - 20
46-1	Curve Index	SG1 3P	26858	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-1	Direction	SG1 3P	26860	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-1	Use Instantaneous Reset	SG1 3P	26862	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-1	Const TD	SG1 3P	26864	Float	4	R W	n/a	0 - 9.9
46-1	Const A	SG1 3P	26866	Float	4	R W	n/a	0 - 600
46-1	Const B	SG1 3P	26868	Float	4	R W	n/a	0 - 25
46-1	Const C	SG1 3P	26870	Float	4	R W	n/a	0 - 1
46-1	Const N	SG1 3P	26872	Float	4	R W	n/a	0.5 - 2.5
46-1	Const R	SG1 3P	26874	Float	4	R W	n/a	0 - 30
46-1	Voltage Restraint Setpoint	SG1 3P	26876	Float	4	R W	Volt	0 or 30 - 250
46-1	Voltage Restraint Mode	SG1 3P	26878	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-1	Alarm Config	SG1 3P	26880	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
46-1	LowLineScale	SG1 3P	26882	Float	4	R W	n/a	0.001 - 3
46-1	Voltage Restraint Source	SG1 3P	26884	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-1	Const Q	SG1 3P	26886	Float	4	R W	n/a	0.1 - 10
46-1	Mode	SG2 3P	26888	UInt32	4	R W	n/a	Disabled=0 I2=6
46-1	Source	SG2 3P	26890	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-1	Pickup	SG2 3P	26892	Float	4	R W	Amp	0 or 0.9 - 20
46-1	Curve Index	SG2 3P	26894	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-1	Direction	SG2 3P	26896	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-1	Use Instantaneous Reset	SG2 3P	26898	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-1	Const TD	SG2 3P	26900	Float	4	R W	n/a	0 - 9.9
46-1	Const A	SG2 3P	26902	Float	4	R W	n/a	0 - 600
46-1	Const B	SG2 3P	26904	Float	4	R W	n/a	0 - 25
46-1	Const C	SG2 3P	26906	Float	4	R W	n/a	0 - 1
46-1	Const N	SG2 3P	26908	Float	4	R W	n/a	0.5 - 2.5
46-1	Const R	SG2 3P	26910	Float	4	R W	n/a	0 - 30
46-1	Voltage Restraint Setpoint	SG2 3P	26912	Float	4	R W	Volt	0 or 30 - 250
46-1	Voltage Restraint Mode	SG2 3P	26914	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
46-1	Alarm Config	SG2 3P	26916	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-1	LowLineScale	SG2 3P	26918	Float	4	R W	n/a	0.001 - 3
46-1	Voltage Restraint Source	SG2 3P	26920	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-1	Const Q	SG2 3P	26922	Float	4	R W	n/a	0.1 - 10
46-1	Mode	SG3 3P	26924	UInt32	4	R W	n/a	Disabled=0 I2=6
46-1	Source	SG3 3P	26926	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-1	Pickup	SG3 3P	26928	Float	4	R W	Amp	0 or 0.9 - 20
46-1	Curve Index	SG3 3P	26930	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-1	Direction	SG3 3P	26932	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-1	Use Instantaneous Reset	SG3 3P	26934	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-1	Const TD	SG3 3P	26936	Float	4	R W	n/a	0 - 9.9
46-1	Const A	SG3 3P	26938	Float	4	R W	n/a	0 - 600
46-1	Const B	SG3 3P	26940	Float	4	R W	n/a	0 - 25
46-1	Const C	SG3 3P	26942	Float	4	R W	n/a	0 - 1
46-1	Const N	SG3 3P	26944	Float	4	R W	n/a	0.5 - 2.5
46-1	Const R	SG3 3P	26946	Float	4	R W	n/a	0 - 30
46-1	Voltage Restraint Setpoint	SG3 3P	26948	Float	4	R W	Volt	0 or 30 - 250
46-1	Voltage Restraint Mode	SG3 3P	26950	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-1	Alarm Config	SG3 3P	26952	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-1	LowLineScale	SG3 3P	26954	Float	4	R W	n/a	0.001 - 3
46-1	Voltage Restraint Source	SG3 3P	26956	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-1	Const Q	SG3 3P	26958	Float	4	R W	n/a	0.1 - 10
46-2	Mode	SG0 3P	26960	UInt32	4	R W	n/a	Disabled=0 I2=6
46-2	Source	SG0 3P	26962	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-2	Pickup	SG0 3P	26964	Float	4	R W	Amp	0 or 0.9 - 20
46-2	Curve Index	SG0 3P	26966	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-2	Direction	SG0 3P	26968	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-2	Use Instantaneous Reset	SG0 3P	26970	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-2	Const TD	SG0 3P	26972	Float	4	R W	n/a	0 - 9.9
46-2	Const A	SG0 3P	26974	Float	4	R W	n/a	0 - 600
46-2	Const B	SG0 3P	26976	Float	4	R W	n/a	0 - 25
46-2	Const C	SG0 3P	26978	Float	4	R W	n/a	0 - 1
46-2	Const N	SG0 3P	26980	Float	4	R W	n/a	0.5 - 2.5
46-2	Const R	SG0 3P	26982	Float	4	R W	n/a	0 - 30
46-2	Voltage Restraint Setpoint	SG0 3P	26984	Float	4	R W	Volt	0 or 30 - 250
46-2	Voltage Restraint Mode	SG0 3P	26986	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-2	Alarm Config	SG0 3P	26988	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-2	LowLineScale	SG0 3P	26990	Float	4	R W	n/a	0.001 - 3
46-2	Voltage Restraint Source	SG0 3P	26992	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-2	Const Q	SG0 3P	26994	Float	4	R W	n/a	0.1 - 10
46-2	Mode	SG1 3P	26996	UInt32	4	R W	n/a	Disabled=0 I2=6
46-2	Source	SG1 3P	26998	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-2	Pickup	SG1 3P	27000	Float	4	R W	Amp	0 or 0.9 - 20
46-2	Curve Index	SG1 3P	27002	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-2	Direction	SG1 3P	27004	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-2	Use Instantaneous Reset	SG1 3P	27006	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-2	Const TD	SG1 3P	27008	Float	4	R W	n/a	0 - 9.9
46-2	Const A	SG1 3P	27010	Float	4	R W	n/a	0 - 600
46-2	Const B	SG1 3P	27012	Float	4	R W	n/a	0 - 25
46-2	Const C	SG1 3P	27014	Float	4	R W	n/a	0 - 1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
46-2	Const N	SG1 3P	27016	Float	4	R W	n/a	0.5 - 2.5
46-2	Const R	SG1 3P	27018	Float	4	R W	n/a	0 - 30
46-2	Voltage Restraint Setpoint	SG1 3P	27020	Float	4	R W	Volt	0 or 30 - 250
46-2	Voltage Restraint Mode	SG1 3P	27022	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-2	Alarm Config	SG1 3P	27024	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-2	LowLineScale	SG1 3P	27026	Float	4	R W	n/a	0.001 - 3
46-2	Voltage Restraint Source	SG1 3P	27028	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-2	Const Q	SG1 3P	27030	Float	4	R W	n/a	0.1 - 10
46-2	Mode	SG2 3P	27032	UInt32	4	R W	n/a	Disabled=0 I2=6
46-2	Source	SG2 3P	27034	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-2	Pickup	SG2 3P	27036	Float	4	R W	Amp	0 or 0.9 - 20
46-2	Curve Index	SG2 3P	27038	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-2	Direction	SG2 3P	27040	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-2	Use Instantaneous Reset	SG2 3P	27042	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-2	Const TD	SG2 3P	27044	Float	4	R W	n/a	0 - 9.9
46-2	Const A	SG2 3P	27046	Float	4	R W	n/a	0 - 600
46-2	Const B	SG2 3P	27048	Float	4	R W	n/a	0 - 25
46-2	Const C	SG2 3P	27050	Float	4	R W	n/a	0 - 1
46-2	Const N	SG2 3P	27052	Float	4	R W	n/a	0.5 - 2.5
46-2	Const R	SG2 3P	27054	Float	4	R W	n/a	0 - 30
46-2	Voltage Restraint Setpoint	SG2 3P	27056	Float	4	R W	Volt	0 or 30 - 250
46-2	Voltage Restraint Mode	SG2 3P	27058	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-2	Alarm Config	SG2 3P	27060	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-2	LowLineScale	SG2 3P	27062	Float	4	R W	n/a	0.001 - 3
46-2	Voltage Restraint Source	SG2 3P	27064	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-2	Const Q	SG2 3P	27066	Float	4	R W	n/a	0.1 - 10
46-2	Mode	SG3 3P	27068	UInt32	4	R W	n/a	Disabled=0 I2=6
46-2	Source	SG3 3P	27070	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-2	Pickup	SG3 3P	27072	Float	4	R W	Amp	0 or 0.9 - 20
46-2	Curve Index	SG3 3P	27074	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-2	Direction	SG3 3P	27076	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-2	Use Instantaneous Reset	SG3 3P	27078	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-2	Const TD	SG3 3P	27080	Float	4	R W	n/a	0 - 9.9
46-2	Const A	SG3 3P	27082	Float	4	R W	n/a	0 - 600
46-2	Const B	SG3 3P	27084	Float	4	R W	n/a	0 - 25
46-2	Const C	SG3 3P	27086	Float	4	R W	n/a	0 - 1
46-2	Const N	SG3 3P	27088	Float	4	R W	n/a	0.5 - 2.5
46-2	Const R	SG3 3P	27090	Float	4	R W	n/a	0 - 30
46-2	Voltage Restraint Setpoint	SG3 3P	27092	Float	4	R W	Volt	0 or 30 - 250
46-2	Voltage Restraint Mode	SG3 3P	27094	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-2	Alarm Config	SG3 3P	27096	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-2	LowLineScale	SG3 3P	27098	Float	4	R W	n/a	0.001 - 3
46-2	Voltage Restraint Source	SG3 3P	27100	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-2	Const Q	SG3 3P	27102	Float	4	R W	n/a	0.1 - 10
46-3	Mode	SG0 3P	27104	UInt32	4	R W	n/a	Disabled=0 I2=6
46-3	Source	SG0 3P	27106	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-3	Pickup	SG0 3P	27108	Float	4	R W	Amp	0 or 0.9 - 20
46-3	Curve Index	SG0 3P	27110	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-3	Direction	SG0 3P	27112	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
46-3	Use Instantaneous Reset	SG0 3P	27114	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
46-3	Const TD	SG0 3P	27116	Float	4	R W	n/a	0 - 9.9
46-3	Const A	SG0 3P	27118	Float	4	R W	n/a	0 - 600
46-3	Const B	SG0 3P	27120	Float	4	R W	n/a	0 - 25
46-3	Const C	SG0 3P	27122	Float	4	R W	n/a	0 - 1
46-3	Const N	SG0 3P	27124	Float	4	R W	n/a	0.5 - 2.5
46-3	Const R	SG0 3P	27126	Float	4	R W	n/a	0 - 30
46-3	Voltage Restraint Setpoint	SG0 3P	27128	Float	4	R W	Volt	0 or 30 - 250
46-3	Voltage Restraint Mode	SG0 3P	27130	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-3	Alarm Config	SG0 3P	27132	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
46-3	LowLineScale	SG0 3P	27134	Float	4	R W	n/a	0.001 - 3
46-3	Voltage Restraint Source	SG0 3P	27136	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-3	Const Q	SG0 3P	27138	Float	4	R W	n/a	0.1 - 10
46-3	Mode	SG1 3P	27140	Uint32	4	R W	n/a	Disabled=0 I2=6
46-3	Source	SG1 3P	27142	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-3	Pickup	SG1 3P	27144	Float	4	R W	Amp	0 or 0.9 - 20
46-3	Curve Index	SG1 3P	27146	Uint32	4	R W	n/a	Fixed Time=16 46=17
46-3	Direction	SG1 3P	27148	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-3	Use Instantaneous Reset	SG1 3P	27150	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
46-3	Const TD	SG1 3P	27152	Float	4	R W	n/a	0 - 9.9
46-3	Const A	SG1 3P	27154	Float	4	R W	n/a	0 - 600
46-3	Const B	SG1 3P	27156	Float	4	R W	n/a	0 - 25
46-3	Const C	SG1 3P	27158	Float	4	R W	n/a	0 - 1
46-3	Const N	SG1 3P	27160	Float	4	R W	n/a	0.5 - 2.5
46-3	Const R	SG1 3P	27162	Float	4	R W	n/a	0 - 30
46-3	Voltage Restraint Setpoint	SG1 3P	27164	Float	4	R W	Volt	0 or 30 - 250
46-3	Voltage Restraint Mode	SG1 3P	27166	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-3	Alarm Config	SG1 3P	27168	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
46-3	LowLineScale	SG1 3P	27170	Float	4	R W	n/a	0.001 - 3
46-3	Voltage Restraint Source	SG1 3P	27172	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-3	Const Q	SG1 3P	27174	Float	4	R W	n/a	0.1 - 10
46-3	Mode	SG2 3P	27176	Uint32	4	R W	n/a	Disabled=0 I2=6
46-3	Source	SG2 3P	27178	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-3	Pickup	SG2 3P	27180	Float	4	R W	Amp	0 or 0.9 - 20
46-3	Curve Index	SG2 3P	27182	Uint32	4	R W	n/a	Fixed Time=16 46=17
46-3	Direction	SG2 3P	27184	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-3	Use Instantaneous Reset	SG2 3P	27186	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
46-3	Const TD	SG2 3P	27188	Float	4	R W	n/a	0 - 9.9
46-3	Const A	SG2 3P	27190	Float	4	R W	n/a	0 - 600
46-3	Const B	SG2 3P	27192	Float	4	R W	n/a	0 - 25
46-3	Const C	SG2 3P	27194	Float	4	R W	n/a	0 - 1
46-3	Const N	SG2 3P	27196	Float	4	R W	n/a	0.5 - 2.5
46-3	Const R	SG2 3P	27198	Float	4	R W	n/a	0 - 30
46-3	Voltage Restraint Setpoint	SG2 3P	27200	Float	4	R W	Volt	0 or 30 - 250
46-3	Voltage Restraint Mode	SG2 3P	27202	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-3	Alarm Config	SG2 3P	27204	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
46-3	LowLineScale	SG2 3P	27206	Float	4	R W	n/a	0.001 - 3
46-3	Voltage Restraint Source	SG2 3P	27208	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-3	Const Q	SG2 3P	27210	Float	4	R W	n/a	0.1 - 10
46-3	Mode	SG3 3P	27212	Uint32	4	R W	n/a	Disabled=0 I2=6

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
46-3	Source	SG3 3P	27214	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-3	Pickup	SG3 3P	27216	Float	4	R W	Amp	0 or 0.9 - 20
46-3	Curve Index	SG3 3P	27218	Uint32	4	R W	n/a	Fixed Time=16 46=17
46-3	Direction	SG3 3P	27220	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-3	Use Instantaneous Reset	SG3 3P	27222	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
46-3	Const TD	SG3 3P	27224	Float	4	R W	n/a	0 - 9.9
46-3	Const A	SG3 3P	27226	Float	4	R W	n/a	0 - 600
46-3	Const B	SG3 3P	27228	Float	4	R W	n/a	0 - 25
46-3	Const C	SG3 3P	27230	Float	4	R W	n/a	0 - 1
46-3	Const N	SG3 3P	27232	Float	4	R W	n/a	0.5 - 2.5
46-3	Const R	SG3 3P	27234	Float	4	R W	n/a	0 - 30
46-3	Voltage Restraint Setpoint	SG3 3P	27236	Float	4	R W	Volt	0 or 30 - 250
46-3	Voltage Restraint Mode	SG3 3P	27238	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-3	Alarm Config	SG3 3P	27240	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-3	LowLineScale	SG3 3P	27242	Float	4	R W	n/a	0.001 - 3
46-3	Voltage Restraint Source	SG3 3P	27244	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-3	Const Q	SG3 3P	27246	Float	4	R W	n/a	0.1 - 10
46-4	Mode	SG0 3P	27248	Uint32	4	R W	n/a	Disabled=0 I2=6
46-4	Source	SG0 3P	27250	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-4	Pickup	SG0 3P	27252	Float	4	R W	Amp	0 or 0.9 - 20
46-4	Curve Index	SG0 3P	27254	Uint32	4	R W	n/a	Fixed Time=16 46=17
46-4	Direction	SG0 3P	27256	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-4	Use Instantaneous Reset	SG0 3P	27258	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
46-4	Const TD	SG0 3P	27260	Float	4	R W	n/a	0 - 9.9
46-4	Const A	SG0 3P	27262	Float	4	R W	n/a	0 - 600
46-4	Const B	SG0 3P	27264	Float	4	R W	n/a	0 - 25
46-4	Const C	SG0 3P	27266	Float	4	R W	n/a	0 - 1
46-4	Const N	SG0 3P	27268	Float	4	R W	n/a	0.5 - 2.5
46-4	Const R	SG0 3P	27270	Float	4	R W	n/a	0 - 30
46-4	Voltage Restraint Setpoint	SG0 3P	27272	Float	4	R W	Volt	0 or 30 - 250
46-4	Voltage Restraint Mode	SG0 3P	27274	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-4	Alarm Config	SG0 3P	27276	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-4	LowLineScale	SG0 3P	27278	Float	4	R W	n/a	0.001 - 3
46-4	Voltage Restraint Source	SG0 3P	27280	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-4	Const Q	SG0 3P	27282	Float	4	R W	n/a	0.1 - 10
46-4	Mode	SG1 3P	27284	Uint32	4	R W	n/a	Disabled=0 I2=6
46-4	Source	SG1 3P	27286	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-4	Pickup	SG1 3P	27288	Float	4	R W	Amp	0 or 0.9 - 20
46-4	Curve Index	SG1 3P	27290	Uint32	4	R W	n/a	Fixed Time=16 46=17
46-4	Direction	SG1 3P	27292	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-4	Use Instantaneous Reset	SG1 3P	27294	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
46-4	Const TD	SG1 3P	27296	Float	4	R W	n/a	0 - 9.9
46-4	Const A	SG1 3P	27298	Float	4	R W	n/a	0 - 600
46-4	Const B	SG1 3P	27300	Float	4	R W	n/a	0 - 25
46-4	Const C	SG1 3P	27302	Float	4	R W	n/a	0 - 1
46-4	Const N	SG1 3P	27304	Float	4	R W	n/a	0.5 - 2.5
46-4	Const R	SG1 3P	27306	Float	4	R W	n/a	0 - 30
46-4	Voltage Restraint Setpoint	SG1 3P	27308	Float	4	R W	Volt	0 or 30 - 250
46-4	Voltage Restraint Mode	SG1 3P	27310	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
46-4	Alarm Config	SG1 3P	27312	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-4	LowLineScale	SG1 3P	27314	Float	4	R W	n/a	0.001 - 3
46-4	Voltage Restraint Source	SG1 3P	27316	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-4	Const Q	SG1 3P	27318	Float	4	R W	n/a	0.1 - 10
46-4	Mode	SG2 3P	27320	Uint32	4	R W	n/a	Disabled=0 I2=6
46-4	Source	SG2 3P	27322	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-4	Pickup	SG2 3P	27324	Float	4	R W	Amp	0 or 0.9 - 20
46-4	Curve Index	SG2 3P	27326	Uint32	4	R W	n/a	Fixed Time=16 46=17
46-4	Direction	SG2 3P	27328	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-4	Use Instantaneous Reset	SG2 3P	27330	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
46-4	Const TD	SG2 3P	27332	Float	4	R W	n/a	0 - 9.9
46-4	Const A	SG2 3P	27334	Float	4	R W	n/a	0 - 600
46-4	Const B	SG2 3P	27336	Float	4	R W	n/a	0 - 25
46-4	Const C	SG2 3P	27338	Float	4	R W	n/a	0 - 1
46-4	Const N	SG2 3P	27340	Float	4	R W	n/a	0.5 - 2.5
46-4	Const R	SG2 3P	27342	Float	4	R W	n/a	0 - 30
46-4	Voltage Restraint Setpoint	SG2 3P	27344	Float	4	R W	Volt	0 or 30 - 250
46-4	Voltage Restraint Mode	SG2 3P	27346	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-4	Alarm Config	SG2 3P	27348	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-4	LowLineScale	SG2 3P	27350	Float	4	R W	n/a	0.001 - 3
46-4	Voltage Restraint Source	SG2 3P	27352	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-4	Const Q	SG2 3P	27354	Float	4	R W	n/a	0.1 - 10
46-4	Mode	SG3 3P	27356	Uint32	4	R W	n/a	Disabled=0 I2=6
46-4	Source	SG3 3P	27358	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-4	Pickup	SG3 3P	27360	Float	4	R W	Amp	0 or 0.9 - 20
46-4	Curve Index	SG3 3P	27362	Uint32	4	R W	n/a	Fixed Time=16 46=17
46-4	Direction	SG3 3P	27364	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-4	Use Instantaneous Reset	SG3 3P	27366	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
46-4	Const TD	SG3 3P	27368	Float	4	R W	n/a	0 - 9.9
46-4	Const A	SG3 3P	27370	Float	4	R W	n/a	0 - 600
46-4	Const B	SG3 3P	27372	Float	4	R W	n/a	0 - 25
46-4	Const C	SG3 3P	27374	Float	4	R W	n/a	0 - 1
46-4	Const N	SG3 3P	27376	Float	4	R W	n/a	0.5 - 2.5
46-4	Const R	SG3 3P	27378	Float	4	R W	n/a	0 - 30
46-4	Voltage Restraint Setpoint	SG3 3P	27380	Float	4	R W	Volt	0 or 30 - 250
46-4	Voltage Restraint Mode	SG3 3P	27382	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-4	Alarm Config	SG3 3P	27384	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-4	LowLineScale	SG3 3P	27386	Float	4	R W	n/a	0.001 - 3
46-4	Voltage Restraint Source	SG3 3P	27388	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-4	Const Q	SG3 3P	27390	Float	4	R W	n/a	0.1 - 10
46-5	Mode	SG0 3P	27392	Uint32	4	R W	n/a	Disabled=0 I2=6
46-5	Source	SG0 3P	27394	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-5	Pickup	SG0 3P	27396	Float	4	R W	Amp	0 or 0.9 - 20
46-5	Curve Index	SG0 3P	27398	Uint32	4	R W	n/a	Fixed Time=16 46=17
46-5	Direction	SG0 3P	27400	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-5	Use Instantaneous Reset	SG0 3P	27402	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
46-5	Const TD	SG0 3P	27404	Float	4	R W	n/a	0 - 9.9
46-5	Const A	SG0 3P	27406	Float	4	R W	n/a	0 - 600
46-5	Const B	SG0 3P	27408	Float	4	R W	n/a	0 - 25
46-5	Const C	SG0 3P	27410	Float	4	R W	n/a	0 - 1

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
46-5	Const N	SG0 3P	27412	Float	4	R W	n/a	0.5 - 2.5
46-5	Const R	SG0 3P	27414	Float	4	R W	n/a	0 - 30
46-5	Voltage Restraint Setpoint	SG0 3P	27416	Float	4	R W	Volt	0 or 30 - 250
46-5	Voltage Restraint Mode	SG0 3P	27418	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-5	Alarm Config	SG0 3P	27420	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-5	LowLineScale	SG0 3P	27422	Float	4	R W	n/a	0.001 - 3
46-5	Voltage Restraint Source	SG0 3P	27424	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-5	Const Q	SG0 3P	27426	Float	4	R W	n/a	0.1 - 10
46-5	Mode	SG1 3P	27428	UInt32	4	R W	n/a	Disabled=0 I2=6
46-5	Source	SG1 3P	27430	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-5	Pickup	SG1 3P	27432	Float	4	R W	Amp	0 or 0.9 - 20
46-5	Curve Index	SG1 3P	27434	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-5	Direction	SG1 3P	27436	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-5	Use Instantaneous Reset	SG1 3P	27438	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-5	Const TD	SG1 3P	27440	Float	4	R W	n/a	0 - 9.9
46-5	Const A	SG1 3P	27442	Float	4	R W	n/a	0 - 600
46-5	Const B	SG1 3P	27444	Float	4	R W	n/a	0 - 25
46-5	Const C	SG1 3P	27446	Float	4	R W	n/a	0 - 1
46-5	Const N	SG1 3P	27448	Float	4	R W	n/a	0.5 - 2.5
46-5	Const R	SG1 3P	27450	Float	4	R W	n/a	0 - 30
46-5	Voltage Restraint Setpoint	SG1 3P	27452	Float	4	R W	Volt	0 or 30 - 250
46-5	Voltage Restraint Mode	SG1 3P	27454	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-5	Alarm Config	SG1 3P	27456	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-5	LowLineScale	SG1 3P	27458	Float	4	R W	n/a	0.001 - 3
46-5	Voltage Restraint Source	SG1 3P	27460	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-5	Const Q	SG1 3P	27462	Float	4	R W	n/a	0.1 - 10
46-5	Mode	SG2 3P	27464	UInt32	4	R W	n/a	Disabled=0 I2=6
46-5	Source	SG2 3P	27466	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-5	Pickup	SG2 3P	27468	Float	4	R W	Amp	0 or 0.9 - 20
46-5	Curve Index	SG2 3P	27470	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-5	Direction	SG2 3P	27472	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-5	Use Instantaneous Reset	SG2 3P	27474	UInt32	4	R W	n/a	Integrating=0 Instantaneous=1
46-5	Const TD	SG2 3P	27476	Float	4	R W	n/a	0 - 9.9
46-5	Const A	SG2 3P	27478	Float	4	R W	n/a	0 - 600
46-5	Const B	SG2 3P	27480	Float	4	R W	n/a	0 - 25
46-5	Const C	SG2 3P	27482	Float	4	R W	n/a	0 - 1
46-5	Const N	SG2 3P	27484	Float	4	R W	n/a	0.5 - 2.5
46-5	Const R	SG2 3P	27486	Float	4	R W	n/a	0 - 30
46-5	Voltage Restraint Setpoint	SG2 3P	27488	Float	4	R W	Volt	0 or 30 - 250
46-5	Voltage Restraint Mode	SG2 3P	27490	UInt32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-5	Alarm Config	SG2 3P	27492	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-5	LowLineScale	SG2 3P	27494	Float	4	R W	n/a	0.001 - 3
46-5	Voltage Restraint Source	SG2 3P	27496	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-5	Const Q	SG2 3P	27498	Float	4	R W	n/a	0.1 - 10
46-5	Mode	SG3 3P	27500	UInt32	4	R W	n/a	Disabled=0 I2=6
46-5	Source	SG3 3P	27502	UInt32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-5	Pickup	SG3 3P	27504	Float	4	R W	Amp	0 or 0.9 - 20
46-5	Curve Index	SG3 3P	27506	UInt32	4	R W	n/a	Fixed Time=16 46=17
46-5	Direction	SG3 3P	27508	UInt32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
46-5	Use Instantaneous Reset	SG3 3P	27510	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
46-5	Const TD	SG3 3P	27512	Float	4	R W	n/a	0 - 9.9
46-5	Const A	SG3 3P	27514	Float	4	R W	n/a	0 - 600
46-5	Const B	SG3 3P	27516	Float	4	R W	n/a	0 - 25
46-5	Const C	SG3 3P	27518	Float	4	R W	n/a	0 - 1
46-5	Const N	SG3 3P	27520	Float	4	R W	n/a	0.5 - 2.5
46-5	Const R	SG3 3P	27522	Float	4	R W	n/a	0 - 30
46-5	Voltage Restraint Setpoint	SG3 3P	27524	Float	4	R W	Volt	0 or 30 - 250
46-5	Voltage Restraint Mode	SG3 3P	27526	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-5	Alarm Config	SG3 3P	27528	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
46-5	LowLineScale	SG3 3P	27530	Float	4	R W	n/a	0.001 - 3
46-5	Voltage Restraint Source	SG3 3P	27532	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-5	Const Q	SG3 3P	27534	Float	4	R W	n/a	0.1 - 10
46-6	Mode	SG0 3P	27536	Uint32	4	R W	n/a	Disabled=0 I2=6
46-6	Source	SG0 3P	27538	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-6	Pickup	SG0 3P	27540	Float	4	R W	Amp	0 or 0.9 - 20
46-6	Curve Index	SG0 3P	27542	Uint32	4	R W	n/a	Fixed Time=16 46=17
46-6	Direction	SG0 3P	27544	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-6	Use Instantaneous Reset	SG0 3P	27546	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
46-6	Const TD	SG0 3P	27548	Float	4	R W	n/a	0 - 9.9
46-6	Const A	SG0 3P	27550	Float	4	R W	n/a	0 - 600
46-6	Const B	SG0 3P	27552	Float	4	R W	n/a	0 - 25
46-6	Const C	SG0 3P	27554	Float	4	R W	n/a	0 - 1
46-6	Const N	SG0 3P	27556	Float	4	R W	n/a	0.5 - 2.5
46-6	Const R	SG0 3P	27558	Float	4	R W	n/a	0 - 30
46-6	Voltage Restraint Setpoint	SG0 3P	27560	Float	4	R W	Volt	0 or 30 - 250
46-6	Voltage Restraint Mode	SG0 3P	27562	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-6	Alarm Config	SG0 3P	27564	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
46-6	LowLineScale	SG0 3P	27566	Float	4	R W	n/a	0.001 - 3
46-6	Voltage Restraint Source	SG0 3P	27568	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-6	Const Q	SG0 3P	27570	Float	4	R W	n/a	0.1 - 10
46-6	Mode	SG1 3P	27572	Uint32	4	R W	n/a	Disabled=0 I2=6
46-6	Source	SG1 3P	27574	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-6	Pickup	SG1 3P	27576	Float	4	R W	Amp	0 or 0.9 - 20
46-6	Curve Index	SG1 3P	27578	Uint32	4	R W	n/a	Fixed Time=16 46=17
46-6	Direction	SG1 3P	27580	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-6	Use Instantaneous Reset	SG1 3P	27582	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
46-6	Const TD	SG1 3P	27584	Float	4	R W	n/a	0 - 9.9
46-6	Const A	SG1 3P	27586	Float	4	R W	n/a	0 - 600
46-6	Const B	SG1 3P	27588	Float	4	R W	n/a	0 - 25
46-6	Const C	SG1 3P	27590	Float	4	R W	n/a	0 - 1
46-6	Const N	SG1 3P	27592	Float	4	R W	n/a	0.5 - 2.5
46-6	Const R	SG1 3P	27594	Float	4	R W	n/a	0 - 30
46-6	Voltage Restraint Setpoint	SG1 3P	27596	Float	4	R W	Volt	0 or 30 - 250
46-6	Voltage Restraint Mode	SG1 3P	27598	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-6	Alarm Config	SG1 3P	27600	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
46-6	LowLineScale	SG1 3P	27602	Float	4	R W	n/a	0.001 - 3
46-6	Voltage Restraint Source	SG1 3P	27604	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-6	Const Q	SG1 3P	27606	Float	4	R W	n/a	0.1 - 10
46-6	Mode	SG2 3P	27608	Uint32	4	R W	n/a	Disabled=0 I2=6

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
46-6	Source	SG2 3P	27610	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-6	Pickup	SG2 3P	27612	Float	4	R W	Amp	0 or 0.9 - 20
46-6	Curve Index	SG2 3P	27614	Uint32	4	R W	n/a	Fixed Time=16 46=17
46-6	Direction	SG2 3P	27616	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-6	Use Instantaneous Reset	SG2 3P	27618	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
46-6	Const TD	SG2 3P	27620	Float	4	R W	n/a	0 - 9.9
46-6	Const A	SG2 3P	27622	Float	4	R W	n/a	0 - 600
46-6	Const B	SG2 3P	27624	Float	4	R W	n/a	0 - 25
46-6	Const C	SG2 3P	27626	Float	4	R W	n/a	0 - 1
46-6	Const N	SG2 3P	27628	Float	4	R W	n/a	0.5 - 2.5
46-6	Const R	SG2 3P	27630	Float	4	R W	n/a	0 - 30
46-6	Voltage Restraint Setpoint	SG2 3P	27632	Float	4	R W	Volt	0 or 30 - 250
46-6	Voltage Restraint Mode	SG2 3P	27634	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-6	Alarm Config	SG2 3P	27636	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-6	LowLineScale	SG2 3P	27638	Float	4	R W	n/a	0.001 - 3
46-6	Voltage Restraint Source	SG2 3P	27640	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-6	Const Q	SG2 3P	27642	Float	4	R W	n/a	0.1 - 10
46-6	Mode	SG3 3P	27644	Uint32	4	R W	n/a	Disabled=0 I2=6
46-6	Source	SG3 3P	27646	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-6	Pickup	SG3 3P	27648	Float	4	R W	Amp	0 or 0.9 - 20
46-6	Curve Index	SG3 3P	27650	Uint32	4	R W	n/a	Fixed Time=16 46=17
46-6	Direction	SG3 3P	27652	Uint32	4	R W	n/a	Forward=0 Reverse=1 Non-Directional=2
46-6	Use Instantaneous Reset	SG3 3P	27654	Uint32	4	R W	n/a	Integrating=0 Instantaneous=1
46-6	Const TD	SG3 3P	27656	Float	4	R W	n/a	0 - 9.9
46-6	Const A	SG3 3P	27658	Float	4	R W	n/a	0 - 600
46-6	Const B	SG3 3P	27660	Float	4	R W	n/a	0 - 25
46-6	Const C	SG3 3P	27662	Float	4	R W	n/a	0 - 1
46-6	Const N	SG3 3P	27664	Float	4	R W	n/a	0.5 - 2.5
46-6	Const R	SG3 3P	27666	Float	4	R W	n/a	0 - 30
46-6	Voltage Restraint Setpoint	SG3 3P	27668	Float	4	R W	Volt	0 or 30 - 250
46-6	Voltage Restraint Mode	SG3 3P	27670	Uint32	4	R W	n/a	Disabled=0 Control=1 Restraint=2
46-6	Alarm Config	SG3 3P	27672	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
46-6	LowLineScale	SG3 3P	27674	Float	4	R W	n/a	0.001 - 3
46-6	Voltage Restraint Source	SG3 3P	27676	Uint32	4	R W	n/a	Gen=0 Bus1=1 Bus2=2
46-6	Const Q	SG3 3P	27678	Float	4	R W	n/a	0.1 - 10
Configurable Protection 9	Parameter Selection	GG	27680	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 9	Hysteresis	GG	27682	Float	4	R W	Percent	0 - 100
Configurable Protection 9	Arming Delay	GG	27684	Float	4	R W	Second	0 - 300
Configurable Protection 9	Threshold 1 Type	GG	27686	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 9	Threshold 1 Pickup	GG	27688	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 9	Threshold 1 Activation Delay	GG	27690	Float	4	R W	Second	0 - 300
Configurable Protection 9	Threshold 1 Alarm Config	GG	27692	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 9	Threshold 2 Type	GG	27694	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 9	Threshold 2 Pickup	GG	27696	Float	4	R W	n/a	-999999 - 999999

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 9	Threshold 2 Activation Delay	GG	27698	Float	4	R W	Second	0 - 300
Configurable Protection 9	Threshold 2 Alarm Config	GG	27700	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 9	Threshold 3 Type	GG	27702	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 9	Threshold 3 Pickup	GG	27704	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 9	Threshold 3 Activation Delay	GG	27706	Float	4	R W	Second	0 - 300
Configurable Protection 9	Threshold 3 Alarm Config	GG	27708	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 9	Threshold 4 Type	GG	27710	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 9	Threshold 4 Pickup	GG	27712	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 9	Threshold 4 Activation Delay	GG	27714	Float	4	R W	Second	0 - 300
Configurable Protection 9	Threshold 4 Alarm Config	GG	27716	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 9	Low Line Scale Current	GG	27718	Float	4	R W	n/a	0.001 - 3
Configurable Protection 9	Low Line Scale Voltage	GG	27720	Float	4	R W	n/a	0.001 - 3
Configurable Protection 9	Label	GG	27722	String	16	R W	n/a	0 - 16
Configurable Protection 10	Parameter Selection	GG	27730	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 10	Hysteresis	GG	27732	Float	4	R W	Percent	0 - 100
Configurable Protection 10	Arming Delay	GG	27734	Float	4	R W	Second	0 - 300
Configurable Protection 10	Threshold 1 Type	GG	27736	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 10	Threshold 1 Pickup	GG	27738	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 10	Threshold 1 Activation Delay	GG	27740	Float	4	R W	Second	0 - 300
Configurable Protection 10	Threshold 1 Alarm Config	GG	27742	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 10	Threshold 2 Type	GG	27744	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 10	Threshold 2 Pickup	GG	27746	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 10	Threshold 2 Activation Delay	GG	27748	Float	4	R W	Second	0 - 300
Configurable Protection 10	Threshold 2 Alarm Config	GG	27750	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 10	Threshold 3 Type	GG	27752	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 10	Threshold 3 Pickup	GG	27754	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 10	Threshold 3 Activation Delay	GG	27756	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 10	Threshold 3 Alarm Config	GG	27758	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 10	Threshold 4 Type	GG	27760	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 10	Threshold 4 Pickup	GG	27762	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 10	Threshold 4 Activation Delay	GG	27764	Float	4	R W	Second	0 - 300
Configurable Protection 10	Threshold 4 Alarm Config	GG	27766	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 10	Low Line Scale Current	GG	27768	Float	4	R W	n/a	0.001 - 3
Configurable Protection 10	Low Line Scale Voltage	GG	27770	Float	4	R W	n/a	0.001 - 3
Configurable Protection 10	Label	GG	27772	String	16	R W	n/a	0 - 16
Configurable Protection 11	Parameter Selection	GG	27780	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 11	Hysteresis	GG	27782	Float	4	R W	Percent	0 - 100
Configurable Protection 11	Arming Delay	GG	27784	Float	4	R W	Second	0 - 300
Configurable Protection 11	Threshold 1 Type	GG	27786	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 11	Threshold 1 Pickup	GG	27788	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 11	Threshold 1 Activation Delay	GG	27790	Float	4	R W	Second	0 - 300
Configurable Protection 11	Threshold 1 Alarm Config	GG	27792	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 11	Threshold 2 Type	GG	27794	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 11	Threshold 2 Pickup	GG	27796	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 11	Threshold 2 Activation Delay	GG	27798	Float	4	R W	Second	0 - 300
Configurable Protection 11	Threshold 2 Alarm Config	GG	27800	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 11	Threshold 3 Type	GG	27802	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 11	Threshold 3 Pickup	GG	27804	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 11	Threshold 3 Activation Delay	GG	27806	Float	4	R W	Second	0 - 300
Configurable Protection 11	Threshold 3 Alarm Config	GG	27808	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 11	Threshold 4 Type	GG	27810	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 11	Threshold 4 Pickup	GG	27812	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 11	Threshold 4 Activation Delay	GG	27814	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 11	Threshold 4 Alarm Config	GG	27816	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 11	Low Line Scale Current	GG	27818	Float	4	R W	n/a	0.001 - 3
Configurable Protection 11	Low Line Scale Voltage	GG	27820	Float	4	R W	n/a	0.001 - 3
Configurable Protection 11	Label	GG	27822	String	16	R W	n/a	0 - 16
Configurable Protection 12	Parameter Selection	GG	27830	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 12	Hysteresis	GG	27832	Float	4	R W	Percent	0 - 100
Configurable Protection 12	Arming Delay	GG	27834	Float	4	R W	Second	0 - 300
Configurable Protection 12	Threshold 1 Type	GG	27836	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 12	Threshold 1 Pickup	GG	27838	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 12	Threshold 1 Activation Delay	GG	27840	Float	4	R W	Second	0 - 300
Configurable Protection 12	Threshold 1 Alarm Config	GG	27842	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 12	Threshold 2 Type	GG	27844	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 12	Threshold 2 Pickup	GG	27846	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 12	Threshold 2 Activation Delay	GG	27848	Float	4	R W	Second	0 - 300
Configurable Protection 12	Threshold 2 Alarm Config	GG	27850	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 12	Threshold 3 Type	GG	27852	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 12	Threshold 3 Pickup	GG	27854	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 12	Threshold 3 Activation Delay	GG	27856	Float	4	R W	Second	0 - 300
Configurable Protection 12	Threshold 3 Alarm Config	GG	27858	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 12	Threshold 4 Type	GG	27860	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 12	Threshold 4 Pickup	GG	27862	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 12	Threshold 4 Activation Delay	GG	27864	Float	4	R W	Second	0 - 300
Configurable Protection 12	Threshold 4 Alarm Config	GG	27866	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 12	Low Line Scale Current	GG	27868	Float	4	R W	n/a	0.001 - 3
Configurable Protection 12	Low Line Scale Voltage	GG	27870	Float	4	R W	n/a	0.001 - 3
Configurable Protection 12	Label	GG	27872	String	16	R W	n/a	0 - 16
Configurable Protection 13	Parameter Selection	GG	27880	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 13	Hysteresis	GG	27882	Float	4	R W	Percent	0 - 100

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 13	Arming Delay	GG	27884	Float	4	R W	Second	0 - 300
Configurable Protection 13	Threshold 1 Type	GG	27886	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 13	Threshold 1 Pickup	GG	27888	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 13	Threshold 1 Activation Delay	GG	27890	Float	4	R W	Second	0 - 300
Configurable Protection 13	Threshold 1 Alarm Config	GG	27892	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 13	Threshold 2 Type	GG	27894	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 13	Threshold 2 Pickup	GG	27896	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 13	Threshold 2 Activation Delay	GG	27898	Float	4	R W	Second	0 - 300
Configurable Protection 13	Threshold 2 Alarm Config	GG	27900	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 13	Threshold 3 Type	GG	27902	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 13	Threshold 3 Pickup	GG	27904	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 13	Threshold 3 Activation Delay	GG	27906	Float	4	R W	Second	0 - 300
Configurable Protection 13	Threshold 3 Alarm Config	GG	27908	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 13	Threshold 4 Type	GG	27910	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 13	Threshold 4 Pickup	GG	27912	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 13	Threshold 4 Activation Delay	GG	27914	Float	4	R W	Second	0 - 300
Configurable Protection 13	Threshold 4 Alarm Config	GG	27916	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 13	Low Line Scale Current	GG	27918	Float	4	R W	n/a	0.001 - 3
Configurable Protection 13	Low Line Scale Voltage	GG	27920	Float	4	R W	n/a	0.001 - 3
Configurable Protection 13	Label	GG	27922	String	16	R W	n/a	0 - 16
Configurable Protection 14	Parameter Selection	GG	27930	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 14	Hysteresis	GG	27932	Float	4	R W	Percent	0 - 100
Configurable Protection 14	Arming Delay	GG	27934	Float	4	R W	Second	0 - 300
Configurable Protection 14	Threshold 1 Type	GG	27936	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 14	Threshold 1 Pickup	GG	27938	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 14	Threshold 1 Activation Delay	GG	27940	Float	4	R W	Second	0 - 300
Configurable Protection 14	Threshold 1 Alarm Config	GG	27942	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 14	Threshold 2 Type	GG	27944	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 14	Threshold 2 Pickup	GG	27946	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 14	Threshold 2 Activation Delay	GG	27948	Float	4	R W	Second	0 - 300
Configurable Protection 14	Threshold 2 Alarm Config	GG	27950	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 14	Threshold 3 Type	GG	27952	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 14	Threshold 3 Pickup	GG	27954	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 14	Threshold 3 Activation Delay	GG	27956	Float	4	R W	Second	0 - 300
Configurable Protection 14	Threshold 3 Alarm Config	GG	27958	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 14	Threshold 4 Type	GG	27960	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 14	Threshold 4 Pickup	GG	27962	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 14	Threshold 4 Activation Delay	GG	27964	Float	4	R W	Second	0 - 300
Configurable Protection 14	Threshold 4 Alarm Config	GG	27966	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 14	Low Line Scale Current	GG	27968	Float	4	R W	n/a	0.001 - 3
Configurable Protection 14	Low Line Scale Voltage	GG	27970	Float	4	R W	n/a	0.001 - 3
Configurable Protection 14	Label	GG	27972	String	16	R W	n/a	0 - 16
Configurable Protection 15	Parameter Selection	GG	27980	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 15	Hysteresis	GG	27982	Float	4	R W	Percent	0 - 100
Configurable Protection 15	Arming Delay	GG	27984	Float	4	R W	Second	0 - 300
Configurable Protection 15	Threshold 1 Type	GG	27986	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 15	Threshold 1 Pickup	GG	27988	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 15	Threshold 1 Activation Delay	GG	27990	Float	4	R W	Second	0 - 300
Configurable Protection 15	Threshold 1 Alarm Config	GG	27992	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 15	Threshold 2 Type	GG	27994	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 15	Threshold 2 Pickup	GG	27996	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 15	Threshold 2 Activation Delay	GG	27998	Float	4	R W	Second	0 - 300
Configurable Protection 15	Threshold 2 Alarm Config	GG	28000	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 15	Threshold 3 Type	GG	28002	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 15	Threshold 3 Pickup	GG	28004	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 15	Threshold 3 Activation Delay	GG	28006	Float	4	R W	Second	0 - 300
Configurable Protection 15	Threshold 3 Alarm Config	GG	28008	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 15	Threshold 4 Type	GG	28010	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 15	Threshold 4 Pickup	GG	28012	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 15	Threshold 4 Activation Delay	GG	28014	Float	4	R W	Second	0 - 300
Configurable Protection 15	Threshold 4 Alarm Config	GG	28016	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 15	Low Line Scale Current	GG	28018	Float	4	R W	n/a	0.001 - 3
Configurable Protection 15	Low Line Scale Voltage	GG	28020	Float	4	R W	n/a	0.001 - 3
Configurable Protection 15	Label	GG	28022	String	16	R W	n/a	0 - 16
Configurable Protection 16	Parameter Selection	GG	28030	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 16	Hysteresis	GG	28032	Float	4	R W	Percent	0 - 100
Configurable Protection 16	Arming Delay	GG	28034	Float	4	R W	Second	0 - 300
Configurable Protection 16	Threshold 1 Type	GG	28036	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 16	Threshold 1 Pickup	GG	28038	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 16	Threshold 1 Activation Delay	GG	28040	Float	4	R W	Second	0 - 300
Configurable Protection 16	Threshold 1 Alarm Config	GG	28042	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 16	Threshold 2 Type	GG	28044	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 16	Threshold 2 Pickup	GG	28046	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 16	Threshold 2 Activation Delay	GG	28048	Float	4	R W	Second	0 - 300
Configurable Protection 16	Threshold 2 Alarm Config	GG	28050	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 16	Threshold 3 Type	GG	28052	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 16	Threshold 3 Pickup	GG	28054	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 16	Threshold 3 Activation Delay	GG	28056	Float	4	R W	Second	0 - 300
Configurable Protection 16	Threshold 3 Alarm Config	GG	28058	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 16	Threshold 4 Type	GG	28060	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 16	Threshold 4 Pickup	GG	28062	Float	4	R W	n/a	-999999 - 999999

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 16	Threshold 4 Activation Delay	GG	28064	Float	4	R W	Second	0 - 300
Configurable Protection 16	Threshold 4 Alarm Config	GG	28066	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 16	Low Line Scale Current	GG	28068	Float	4	R W	n/a	0.001 - 3
Configurable Protection 16	Low Line Scale Voltage	GG	28070	Float	4	R W	n/a	0.001 - 3
Configurable Protection 16	Label	GG	28072	String	16	R W	n/a	0 - 16
Configurable Protection 17	Parameter Selection	GG	28080	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 17	Hysteresis	GG	28082	Float	4	R W	Percent	0 - 100
Configurable Protection 17	Arming Delay	GG	28084	Float	4	R W	Second	0 - 300
Configurable Protection 17	Threshold 1 Type	GG	28086	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 17	Threshold 1 Pickup	GG	28088	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 17	Threshold 1 Activation Delay	GG	28090	Float	4	R W	Second	0 - 300
Configurable Protection 17	Threshold 1 Alarm Config	GG	28092	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 17	Threshold 2 Type	GG	28094	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 17	Threshold 2 Pickup	GG	28096	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 17	Threshold 2 Activation Delay	GG	28098	Float	4	R W	Second	0 - 300
Configurable Protection 17	Threshold 2 Alarm Config	GG	28100	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 17	Threshold 3 Type	GG	28102	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 17	Threshold 3 Pickup	GG	28104	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 17	Threshold 3 Activation Delay	GG	28106	Float	4	R W	Second	0 - 300
Configurable Protection 17	Threshold 3 Alarm Config	GG	28108	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 17	Threshold 4 Type	GG	28110	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 17	Threshold 4 Pickup	GG	28112	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 17	Threshold 4 Activation Delay	GG	28114	Float	4	R W	Second	0 - 300
Configurable Protection 17	Threshold 4 Alarm Config	GG	28116	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 17	Low Line Scale Current	GG	28118	Float	4	R W	n/a	0.001 - 3
Configurable Protection 17	Low Line Scale Voltage	GG	28120	Float	4	R W	n/a	0.001 - 3
Configurable Protection 17	Label	GG	28122	String	16	R W	n/a	0 - 16
Configurable Protection 18	Parameter Selection	GG	28130	Int32	4	R W		See the Selectable Parameters chapter for a complete list.

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 18	Hysteresis	GG	28132	Float	4	R W	Percent	0 - 100
Configurable Protection 18	Arming Delay	GG	28134	Float	4	R W	Second	0 - 300
Configurable Protection 18	Threshold 1 Type	GG	28136	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 18	Threshold 1 Pickup	GG	28138	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 18	Threshold 1 Activation Delay	GG	28140	Float	4	R W	Second	0 - 300
Configurable Protection 18	Threshold 1 Alarm Config	GG	28142	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 18	Threshold 2 Type	GG	28144	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 18	Threshold 2 Pickup	GG	28146	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 18	Threshold 2 Activation Delay	GG	28148	Float	4	R W	Second	0 - 300
Configurable Protection 18	Threshold 2 Alarm Config	GG	28150	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 18	Threshold 3 Type	GG	28152	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 18	Threshold 3 Pickup	GG	28154	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 18	Threshold 3 Activation Delay	GG	28156	Float	4	R W	Second	0 - 300
Configurable Protection 18	Threshold 3 Alarm Config	GG	28158	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 18	Threshold 4 Type	GG	28160	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 18	Threshold 4 Pickup	GG	28162	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 18	Threshold 4 Activation Delay	GG	28164	Float	4	R W	Second	0 - 300
Configurable Protection 18	Threshold 4 Alarm Config	GG	28166	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 18	Low Line Scale Current	GG	28168	Float	4	R W	n/a	0.001 - 3
Configurable Protection 18	Low Line Scale Voltage	GG	28170	Float	4	R W	n/a	0.001 - 3
Configurable Protection 18	Label	GG	28172	String	16	R W	n/a	0 - 16
Configurable Protection 19	Parameter Selection	GG	28180	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 19	Hysteresis	GG	28182	Float	4	R W	Percent	0 - 100
Configurable Protection 19	Arming Delay	GG	28184	Float	4	R W	Second	0 - 300
Configurable Protection 19	Threshold 1 Type	GG	28186	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 19	Threshold 1 Pickup	GG	28188	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 19	Threshold 1 Activation Delay	GG	28190	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 19	Threshold 1 Alarm Config	GG	28192	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 19	Threshold 2 Type	GG	28194	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 19	Threshold 2 Pickup	GG	28196	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 19	Threshold 2 Activation Delay	GG	28198	Float	4	R W	Second	0 - 300
Configurable Protection 19	Threshold 2 Alarm Config	GG	28200	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 19	Threshold 3 Type	GG	28202	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 19	Threshold 3 Pickup	GG	28204	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 19	Threshold 3 Activation Delay	GG	28206	Float	4	R W	Second	0 - 300
Configurable Protection 19	Threshold 3 Alarm Config	GG	28208	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 19	Threshold 4 Type	GG	28210	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 19	Threshold 4 Pickup	GG	28212	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 19	Threshold 4 Activation Delay	GG	28214	Float	4	R W	Second	0 - 300
Configurable Protection 19	Threshold 4 Alarm Config	GG	28216	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 19	Low Line Scale Current	GG	28218	Float	4	R W	n/a	0.001 - 3
Configurable Protection 19	Low Line Scale Voltage	GG	28220	Float	4	R W	n/a	0.001 - 3
Configurable Protection 19	Label	GG	28222	String	16	R W	n/a	0 - 16
Configurable Protection 20	Parameter Selection	GG	28230	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 20	Hysteresis	GG	28232	Float	4	R W	Percent	0 - 100
Configurable Protection 20	Arming Delay	GG	28234	Float	4	R W	Second	0 - 300
Configurable Protection 20	Threshold 1 Type	GG	28236	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 20	Threshold 1 Pickup	GG	28238	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 20	Threshold 1 Activation Delay	GG	28240	Float	4	R W	Second	0 - 300
Configurable Protection 20	Threshold 1 Alarm Config	GG	28242	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 20	Threshold 2 Type	GG	28244	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 20	Threshold 2 Pickup	GG	28246	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 20	Threshold 2 Activation Delay	GG	28248	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 20	Threshold 2 Alarm Config	GG	28250	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 20	Threshold 3 Type	GG	28252	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 20	Threshold 3 Pickup	GG	28254	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 20	Threshold 3 Activation Delay	GG	28256	Float	4	R W	Second	0 - 300
Configurable Protection 20	Threshold 3 Alarm Config	GG	28258	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 20	Threshold 4 Type	GG	28260	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 20	Threshold 4 Pickup	GG	28262	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 20	Threshold 4 Activation Delay	GG	28264	Float	4	R W	Second	0 - 300
Configurable Protection 20	Threshold 4 Alarm Config	GG	28266	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
ConfigProt20	Low Line Scale Current	GG	28268	Float	4	R W	n/a	0.001 - 3
ConfigProt20	Low Line Scale Voltage	GG	28270	Float	4	R W	n/a	0.001 - 3
ConfigProt20	Label	GG	28272	String	16	R W	n/a	0 - 16
Configurable Protection 21	Parameter Selection	GG	28280	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 21	Hysteresis	GG	28282	Float	4	R W	Percent	0 - 100
Configurable Protection 21	Arming Delay	GG	28284	Float	4	R W	Second	0 - 300
Configurable Protection 21	Threshold 1 Type	GG	28286	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 21	Threshold 1 Pickup	GG	28288	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 21	Threshold 1 Activation Delay	GG	28290	Float	4	R W	Second	0 - 300
Configurable Protection 21	Threshold 1 Alarm Config	GG	28292	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 21	Threshold 2 Type	GG	28294	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 21	Threshold 2 Pickup	GG	28296	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 21	Threshold 2 Activation Delay	GG	28298	Float	4	R W	Second	0 - 300
Configurable Protection 21	Threshold 2 Alarm Config	GG	28300	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 21	Threshold 3 Type	GG	28302	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 21	Threshold 3 Pickup	GG	28304	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 21	Threshold 3 Activation Delay	GG	28306	Float	4	R W	Second	0 - 300
Configurable Protection 21	Threshold 3 Alarm Config	GG	28308	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 21	Threshold 4 Type	GG	28310	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 21	Threshold 4 Pickup	GG	28312	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 21	Threshold 4 Activation Delay	GG	28314	Float	4	R W	Second	0 - 300
Configurable Protection 21	Threshold 4 Alarm Config	GG	28316	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 21	Low Line Scale Current	GG	28318	Float	4	R W	n/a	0.001 - 3
Configurable Protection 21	Low Line Scale Voltage	GG	28320	Float	4	R W	n/a	0.001 - 3
Configurable Protection 21	Label	GG	28322	String	16	R W	n/a	0 - 16
Configurable Protection 22	Parameter Selection	GG	28330	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 22	Hysteresis	GG	28332	Float	4	R W	Percent	0 - 100
Configurable Protection 22	Arming Delay	GG	28334	Float	4	R W	Second	0 - 300
Configurable Protection 22	Threshold 1 Type	GG	28336	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 22	Threshold 1 Pickup	GG	28338	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 22	Threshold 1 Activation Delay	GG	28340	Float	4	R W	Second	0 - 300
Configurable Protection 22	Threshold 1 Alarm Config	GG	28342	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 22	Threshold 2 Type	GG	28344	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 22	Threshold 2 Pickup	GG	28346	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 22	Threshold 2 Activation Delay	GG	28348	Float	4	R W	Second	0 - 300
Configurable Protection 22	Threshold 2 Alarm Config	GG	28350	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 22	Threshold 3 Type	GG	28352	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 22	Threshold 3 Pickup	GG	28354	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 22	Threshold 3 Activation Delay	GG	28356	Float	4	R W	Second	0 - 300
Configurable Protection 22	Threshold 3 Alarm Config	GG	28358	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 22	Threshold 4 Type	GG	28360	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 22	Threshold 4 Pickup	GG	28362	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 22	Threshold 4 Activation Delay	GG	28364	Float	4	R W	Second	0 - 300
Configurable Protection 22	Threshold 4 Alarm Config	GG	28366	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 22	Low Line Scale Current	GG	28368	Float	4	R W	n/a	0.001 - 3

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 22	Low Line Scale Voltage	GG	28370	Float	4	R W	n/a	0.001 - 3
Configurable Protection 22	Label	GG	28372	String	16	R W	n/a	0 - 16
Configurable Protection 23	Parameter Selection	GG	28380	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 23	Hysteresis	GG	28382	Float	4	R W	Percent	0 - 100
Configurable Protection 23	Arming Delay	GG	28384	Float	4	R W	Second	0 - 300
Configurable Protection 23	Threshold 1 Type	GG	28386	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 23	Threshold 1 Pickup	GG	28388	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 23	Threshold 1 Activation Delay	GG	28390	Float	4	R W	Second	0 - 300
Configurable Protection 23	Threshold 1 Alarm Config	GG	28392	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 23	Threshold 2 Type	GG	28394	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 23	Threshold 2 Pickup	GG	28396	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 23	Threshold 2 Activation Delay	GG	28398	Float	4	R W	Second	0 - 300
Configurable Protection 23	Threshold 2 Alarm Config	GG	28400	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 23	Threshold 3 Type	GG	28402	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 23	Threshold 3 Pickup	GG	28404	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 23	Threshold 3 Activation Delay	GG	28406	Float	4	R W	Second	0 - 300
Configurable Protection 23	Threshold 3 Alarm Config	GG	28408	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 23	Threshold 4 Type	GG	28410	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 23	Threshold 4 Pickup	GG	28412	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 23	Threshold 4 Activation Delay	GG	28414	Float	4	R W	Second	0 - 300
Configurable Protection 23	Threshold 4 Alarm Config	GG	28416	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 23	Low Line Scale Current	GG	28418	Float	4	R W	n/a	0.001 - 3
Configurable Protection 23	Low Line Scale Voltage	GG	28420	Float	4	R W	n/a	0.001 - 3
Configurable Protection 23	Label	GG	28422	String	16	R W	n/a	0 - 16
Configurable Protection 24	Parameter Selection	GG	28430	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 24	Hysteresis	GG	28432	Float	4	R W	Percent	0 - 100
Configurable Protection 24	Arming Delay	GG	28434	Float	4	R W	Second	0 - 300
Configurable Protection 24	Threshold 1 Type	GG	28436	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 24	Threshold 1 Pickup	GG	28438	Float	4	R W	n/a	-999999 - 999999

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 24	Threshold 1 Activation Delay	GG	28440	Float	4	R W	Second	0 - 300
Configurable Protection 24	Threshold 1 Alarm Config	GG	28442	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 24	Threshold 2 Type	GG	28444	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 24	Threshold 2 Pickup	GG	28446	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 24	Threshold 2 Activation Delay	GG	28448	Float	4	R W	Second	0 - 300
Configurable Protection 24	Threshold 2 Alarm Config	GG	28450	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 24	Threshold 3 Type	GG	28452	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 24	Threshold 3 Pickup	GG	28454	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 24	Threshold 3 Activation Delay	GG	28456	Float	4	R W	Second	0 - 300
Configurable Protection 24	Threshold 3 Alarm Config	GG	28458	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 24	Threshold 4 Type	GG	28460	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 24	Threshold 4 Pickup	GG	28462	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 24	Threshold 4 Activation Delay	GG	28464	Float	4	R W	Second	0 - 300
Configurable Protection 24	Threshold 4 Alarm Config	GG	28466	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 24	Low Line Scale Current	GG	28468	Float	4	R W	n/a	0.001 - 3
Configurable Protection 24	Low Line Scale Voltage	GG	28470	Float	4	R W	n/a	0.001 - 3
Configurable Protection 24	Label	GG	28472	String	16	R W	n/a	0 - 16
Configurable Protection 25	Parameter Selection	GG	28480	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 25	Hysteresis	GG	28482	Float	4	R W	Percent	0 - 100
Configurable Protection 25	Arming Delay	GG	28484	Float	4	R W	Second	0 - 300
Configurable Protection 25	Threshold 1 Type	GG	28486	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 25	Threshold 1 Pickup	GG	28488	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 25	Threshold 1 Activation Delay	GG	28490	Float	4	R W	Second	0 - 300
Configurable Protection 25	Threshold 1 Alarm Config	GG	28492	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 25	Threshold 2 Type	GG	28494	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 25	Threshold 2 Pickup	GG	28496	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 25	Threshold 2 Activation Delay	GG	28498	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 25	Threshold 2 Alarm Config	GG	28500	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 25	Threshold 3 Type	GG	28502	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 25	Threshold 3 Pickup	GG	28504	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 25	Threshold 3 Activation Delay	GG	28506	Float	4	R W	Second	0 - 300
Configurable Protection 25	Threshold 3 Alarm Config	GG	28508	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 25	Threshold 4 Type	GG	28510	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 25	Threshold 4 Pickup	GG	28512	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 25	Threshold 4 Activation Delay	GG	28514	Float	4	R W	Second	0 - 300
Configurable Protection 25	Threshold 4 Alarm Config	GG	28516	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 25	Low Line Scale Current	GG	28518	Float	4	R W	n/a	0.001 - 3
Configurable Protection 25	Low Line Scale Voltage	GG	28520	Float	4	R W	n/a	0.001 - 3
Configurable Protection 25	Label	GG	28522	String	16	R W	n/a	0 - 16
Configurable Protection 26	Parameter Selection	GG	28530	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 26	Hysteresis	GG	28532	Float	4	R W	Percent	0 - 100
Configurable Protection 26	Arming Delay	GG	28534	Float	4	R W	Second	0 - 300
Configurable Protection 26	Threshold 1 Type	GG	28536	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 26	Threshold 1 Pickup	GG	28538	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 26	Threshold 1 Activation Delay	GG	28540	Float	4	R W	Second	0 - 300
Configurable Protection 26	Threshold 1 Alarm Config	GG	28542	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 26	Threshold 2 Type	GG	28544	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 26	Threshold 2 Pickup	GG	28546	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 26	Threshold 2 Activation Delay	GG	28548	Float	4	R W	Second	0 - 300
Configurable Protection 26	Threshold 2 Alarm Config	GG	28550	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 26	Threshold 3 Type	GG	28552	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 26	Threshold 3 Pickup	GG	28554	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 26	Threshold 3 Activation Delay	GG	28556	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 26	Threshold 3 Alarm Config	GG	28558	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 26	Threshold 4 Type	GG	28560	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 26	Threshold 4 Pickup	GG	28562	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 26	Threshold 4 Activation Delay	GG	28564	Float	4	R W	Second	0 - 300
Configurable Protection 26	Threshold 4 Alarm Config	GG	28566	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 26	Low Line Scale Current	GG	28568	Float	4	R W	n/a	0.001 - 3
Configurable Protection 26	Low Line Scale Voltage	GG	28570	Float	4	R W	n/a	0.001 - 3
Configurable Protection 26	Label	GG	28572	String	16	R W	n/a	0 - 16
Configurable Protection 27	Parameter Selection	GG	28580	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 27	Hysteresis	GG	28582	Float	4	R W	Percent	0 - 100
Configurable Protection 27	Arming Delay	GG	28584	Float	4	R W	Second	0 - 300
Configurable Protection 27	Threshold 1 Type	GG	28586	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 27	Threshold 1 Pickup	GG	28588	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 27	Threshold 1 Activation Delay	GG	28590	Float	4	R W	Second	0 - 300
Configurable Protection 27	Threshold 1 Alarm Config	GG	28592	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 27	Threshold 2 Type	GG	28594	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 27	Threshold 2 Pickup	GG	28596	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 27	Threshold 2 Activation Delay	GG	28598	Float	4	R W	Second	0 - 300
Configurable Protection 27	Threshold 2 Alarm Config	GG	28600	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 27	Threshold 3 Type	GG	28602	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 27	Threshold 3 Pickup	GG	28604	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 27	Threshold 3 Activation Delay	GG	28606	Float	4	R W	Second	0 - 300
Configurable Protection 27	Threshold 3 Alarm Config	GG	28608	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 27	Threshold 4 Type	GG	28610	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 27	Threshold 4 Pickup	GG	28612	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 27	Threshold 4 Activation Delay	GG	28614	Float	4	R W	Second	0 - 300

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 27	Threshold 4 Alarm Config	GG	28616	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 27	Low Line Scale Current	GG	28618	Float	4	R W	n/a	0.001 - 3
Configurable Protection 27	Low Line Scale Voltage	GG	28620	Float	4	R W	n/a	0.001 - 3
Configurable Protection 27	Label	GG	28622	String	16	R W	n/a	0 - 16
Configurable Protection 28	Parameter Selection	GG	28630	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 28	Hysteresis	GG	28632	Float	4	R W	Percent	0 - 100
Configurable Protection 28	Arming Delay	GG	28634	Float	4	R W	Second	0 - 300
Configurable Protection 28	Threshold 1 Type	GG	28636	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 28	Threshold 1 Pickup	GG	28638	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 28	Threshold 1 Activation Delay	GG	28640	Float	4	R W	Second	0 - 300
Configurable Protection 28	Threshold 1 Alarm Config	GG	28642	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 28	Threshold 2 Type	GG	28644	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 28	Threshold 2 Pickup	GG	28646	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 28	Threshold 2 Activation Delay	GG	28648	Float	4	R W	Second	0 - 300
Configurable Protection 28	Threshold 2 Alarm Config	GG	28650	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 28	Threshold 3 Type	GG	28652	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 28	Threshold 3 Pickup	GG	28654	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 28	Threshold 3 Activation Delay	GG	28656	Float	4	R W	Second	0 - 300
Configurable Protection 28	Threshold 3 Alarm Config	GG	28658	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 28	Threshold 4 Type	GG	28660	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 28	Threshold 4 Pickup	GG	28662	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 28	Threshold 4 Activation Delay	GG	28664	Float	4	R W	Second	0 - 300
Configurable Protection 28	Threshold 4 Alarm Config	GG	28666	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 28	Low Line Scale Current	GG	28668	Float	4	R W	n/a	0.001 - 3
Configurable Protection 28	Low Line Scale Voltage	GG	28670	Float	4	R W	n/a	0.001 - 3
Configurable Protection 28	Label	GG	28672	String	16	R W	n/a	0 - 16
Configurable Protection 29	Parameter Selection	GG	28680	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 29	Hysteresis	GG	28682	Float	4	R W	Percent	0 - 100

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 29	Arming Delay	GG	28684	Float	4	R W	Second	0 - 300
Configurable Protection 29	Threshold 1 Type	GG	28686	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 29	Threshold 1 Pickup	GG	28688	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 29	Threshold 1 Activation Delay	GG	28690	Float	4	R W	Second	0 - 300
Configurable Protection 29	Threshold 1 Alarm Config	GG	28692	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 29	Threshold 2 Type	GG	28694	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 29	Threshold 2 Pickup	GG	28696	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 29	Threshold 2 Activation Delay	GG	28698	Float	4	R W	Second	0 - 300
Configurable Protection 29	Threshold 2 Alarm Config	GG	28700	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 29	Threshold 3 Type	GG	28702	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 29	Threshold 3 Pickup	GG	28704	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 29	Threshold 3 Activation Delay	GG	28706	Float	4	R W	Second	0 - 300
Configurable Protection 29	Threshold 3 Alarm Config	GG	28708	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 29	Threshold 4 Type	GG	28710	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 29	Threshold 4 Pickup	GG	28712	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 29	Threshold 4 Activation Delay	GG	28714	Float	4	R W	Second	0 - 300
Configurable Protection 29	Threshold 4 Alarm Config	GG	28716	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 29	Low Line Scale Current	GG	28718	Float	4	R W	n/a	0.001 - 3
Configurable Protection 29	Low Line Scale Voltage	GG	28720	Float	4	R W	n/a	0.001 - 3
Configurable Protection 29	Label	GG	28722	String	16	R W	n/a	0 - 16
Configurable Protection 30	Parameter Selection	GG	28730	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 30	Hysteresis	GG	28732	Float	4	R W	Percent	0 - 100
Configurable Protection 30	Arming Delay	GG	28734	Float	4	R W	Second	0 - 300
Configurable Protection 30	Threshold 1 Type	GG	28736	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 30	Threshold 1 Pickup	GG	28738	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 30	Threshold 1 Activation Delay	GG	28740	Float	4	R W	Second	0 - 300
Configurable Protection 30	Threshold 1 Alarm Config	GG	28742	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 30	Threshold 2 Type	GG	28744	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 30	Threshold 2 Pickup	GG	28746	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 30	Threshold 2 Activation Delay	GG	28748	Float	4	R W	Second	0 - 300
Configurable Protection 30	Threshold 2 Alarm Config	GG	28750	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 30	Threshold 3 Type	GG	28752	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 30	Threshold 3 Pickup	GG	28754	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 30	Threshold 3 Activation Delay	GG	28756	Float	4	R W	Second	0 - 300
Configurable Protection 30	Threshold 3 Alarm Config	GG	28758	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 30	Threshold 4 Type	GG	28760	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 30	Threshold 4 Pickup	GG	28762	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 30	Threshold 4 Activation Delay	GG	28764	Float	4	R W	Second	0 - 300
Configurable Protection 30	Threshold 4 Alarm Config	GG	28766	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 30	Low Line Scale Current	GG	28768	Float	4	R W	n/a	0.001 - 3
Configurable Protection 30	Low Line Scale Voltage	GG	28770	Float	4	R W	n/a	0.001 - 3
Configurable Protection 30	Label	GG	28772	String	16	R W	n/a	0 - 16
Configurable Protection 31	Parameter Selection	GG	28780	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 31	Hysteresis	GG	28782	Float	4	R W	Percent	0 - 100
Configurable Protection 31	Arming Delay	GG	28784	Float	4	R W	Second	0 - 300
Configurable Protection 31	Threshold 1 Type	GG	28786	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 31	Threshold 1 Pickup	GG	28788	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 31	Threshold 1 Activation Delay	GG	28790	Float	4	R W	Second	0 - 300
Configurable Protection 31	Threshold 1 Alarm Config	GG	28792	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 31	Threshold 2 Type	GG	28794	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 31	Threshold 2 Pickup	GG	28796	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 31	Threshold 2 Activation Delay	GG	28798	Float	4	R W	Second	0 - 300
Configurable Protection 31	Threshold 2 Alarm Config	GG	28800	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 31	Threshold 3 Type	GG	28802	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 31	Threshold 3 Pickup	GG	28804	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 31	Threshold 3 Activation Delay	GG	28806	Float	4	R W	Second	0 - 300
Configurable Protection 31	Threshold 3 Alarm Config	GG	28808	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
Configurable Protection 31	Threshold 4 Type	GG	28810	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 31	Threshold 4 Pickup	GG	28812	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 31	Threshold 4 Activation Delay	GG	28814	Float	4	R W	Second	0 - 300
Configurable Protection 31	Threshold 4 Alarm Config	GG	28816	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
Configurable Protection 31	Low Line Scale Current	GG	28818	Float	4	R W	n/a	0.001 - 3
Configurable Protection 31	Low Line Scale Voltage	GG	28820	Float	4	R W	n/a	0.001 - 3
Configurable Protection 31	Label	GG	28822	String	16	R W	n/a	0 - 16
Configurable Protection 32	Parameter Selection	GG	28830	Int32	4	R W		See the Selectable Parameters chapter for a complete list.
Configurable Protection 32	Hysteresis	GG	28832	Float	4	R W	Percent	0 - 100
Configurable Protection 32	Arming Delay	GG	28834	Float	4	R W	Second	0 - 300
Configurable Protection 32	Threshold 1 Type	GG	28836	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 32	Threshold 1 Pickup	GG	28838	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 32	Threshold 1 Activation Delay	GG	28840	Float	4	R W	Second	0 - 300
Configurable Protection 32	Threshold 1 Alarm Config	GG	28842	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
Configurable Protection 32	Threshold 2 Type	GG	28844	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 32	Threshold 2 Pickup	GG	28846	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 32	Threshold 2 Activation Delay	GG	28848	Float	4	R W	Second	0 - 300
Configurable Protection 32	Threshold 2 Alarm Config	GG	28850	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
Configurable Protection 32	Threshold 3 Type	GG	28852	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 32	Threshold 3 Pickup	GG	28854	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 32	Threshold 3 Activation Delay	GG	28856	Float	4	R W	Second	0 - 300
Configurable Protection 32	Threshold 3 Alarm Config	GG	28858	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldown=5
Configurable Protection 32	Threshold 4 Type	GG	28860	Int32	4	R W	n/a	Disabled=0 Over=1 Under=2
Configurable Protection 32	Threshold 4 Pickup	GG	28862	Float	4	R W	n/a	-999999 - 999999

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 32	Threshold 4 Activation Delay	GG	28864	Float	4	R W	Second	0 - 300
Configurable Protection 32	Threshold 4 Alarm Config	GG	28866	Uint32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Configurable Protection 32	Low Line Scale Current	GG	28868	Float	4	R W	n/a	0.001 - 3
Configurable Protection 32	Low Line Scale Voltage	GG	28870	Float	4	R W	n/a	0.001 - 3
Configurable Protection 32	Label	GG	28872	String	16	R W	n/a	0 - 16
Fuel Level Protection	Low Fuel Pre-alarm Hysteresis	GG	28880	Float	4	R W	Percent	0 - 20
Fuel Level Protection	Low Fuel Alarm Hysteresis	GG	28882	Float	4	R W	Percent	0 - 20
Fuel Level Protection	High Fuel Pre-alarm Hysteresis	GG	28884	Float	4	R W	Percent	0 - 20
Configurable Protection 1	Parameter 2 Selection	GG	28886	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 1	Math Operator	GG	28888	Int8	1	R W	n/a	None=0 Add=1 Subtract=2 Multiply=3 Divide=4
Configurable Protection 1	Scale Factor 1	GG	28889	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 1	Offset 1	GG	28891	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 1	Scale Factor 2	GG	28893	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 1	Offset 2	GG	28895	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 2	Parameter 2 Selection	GG	28897	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 2	Math Operator	GG	28899	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 2	Scale Factor 1	GG	28900	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 2	Offset 1	GG	28902	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 2	Scale Factor 2	GG	28904	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 2	Offset 2	GG	28906	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 3	Parameter 2 Selection	GG	28908	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 3	Math Operator	GG	28910	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 3	Scale Factor 1	GG	28911	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 3	Offset 1	GG	28913	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 3	Scale Factor 2	GG	28915	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 3	Offset 2	GG	28917	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 4	Parameter 2 Selection	GG	28919	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 4	Math Operator	GG	28921	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 4	Scale Factor 1	GG	28922	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 4	Offset 1	GG	28924	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 4	Scale Factor 2	GG	28926	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 4	Offset 2	GG	28928	Float	4	R W	n/a	-999999 - 999999

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 5	Parameter 2 Selection	GG	28930	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 5	Math Operator	GG	28932	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 5	Scale Factor 1	GG	28933	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 5	Offset 1	GG	28935	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 5	Scale Factor 2	GG	28937	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 5	Offset 2	GG	28939	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 6	Parameter 2 Selection	GG	28941	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 6	Math Operator	GG	28943	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 6	Scale Factor 1	GG	28944	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 6	Offset 1	GG	28946	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 6	Scale Factor 2	GG	28948	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 6	Offset 2	GG	28950	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 7	Parameter 2 Selection	GG	28952	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 7	Math Operator	GG	28954	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 7	Scale Factor 1	GG	28955	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 7	Offset 1	GG	28957	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 7	Scale Factor 2	GG	28959	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 7	Offset 2	GG	28961	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 8	Parameter 2 Selection	GG	28963	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 8	Math Operator	GG	28965	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 8	Scale Factor 1	GG	28966	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 8	Offset 1	GG	28968	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 8	Scale Factor 2	GG	28970	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 8	Offset 2	GG	28972	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 9	Parameter 2 Selection	GG	28974	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 9	Math Operator	GG	28976	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 9	Scale Factor 1	GG	28977	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 9	Offset 1	GG	28979	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 9	Scale Factor 2	GG	28981	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 9	Offset 2	GG	28983	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 10	Parameter 2 Selection	GG	28985	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 10	Math Operator	GG	28987	Int8	1	R W	n/a	None=0 +=1 -=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
								x=3 ÷=4
Configurable Protection 10	Scale Factor 1	GG	28988	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 10	Offset 1	GG	28990	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 10	Scale Factor 2	GG	28992	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 10	Offset 2	GG	28994	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 11	Parameter 2 Selection	GG	28996	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 11	Math Operator	GG	28998	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 11	Scale Factor 1	GG	28999	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 11	Offset 1	GG	29001	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 11	Scale Factor 2	GG	29003	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 11	Offset 2	GG	29005	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 12	Parameter 2 Selection	GG	29007	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 12	Math Operator	GG	29009	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 12	Scale Factor 1	GG	29010	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 12	Offset 1	GG	29012	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 12	Scale Factor 2	GG	29014	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 12	Offset 2	GG	29016	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 13	Parameter 2 Selection	GG	29018	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 13	Math Operator	GG	29020	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 13	Scale Factor 1	GG	29021	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 13	Offset 1	GG	29023	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 13	Scale Factor 2	GG	29025	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 13	Offset 2	GG	29027	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 14	Parameter 2 Selection	GG	29029	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 14	Math Operator	GG	29031	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 14	Scale Factor 1	GG	29032	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 14	Offset 1	GG	29034	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 14	Scale Factor 2	GG	29036	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 14	Offset 2	GG	29038	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 15	Parameter 2 Selection	GG	29040	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 15	Math Operator	GG	29042	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 15	Scale Factor 1	GG	29043	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 15	Offset 1	GG	29045	Float	4	R W	n/a	-999999 - 999999

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Protection 15								
Configurable Protection 15	Scale Factor 2	GG	29047	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 15	Offset 2	GG	29049	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 16	Parameter 2 Selection	GG	29051	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 16	Math Operator	GG	29053	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 +=4
Configurable Protection 16	Scale Factor 1	GG	29054	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 16	Offset 1	GG	29056	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 16	Scale Factor 2	GG	29058	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 16	Offset 2	GG	29060	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 17	Parameter 2 Selection	GG	29062	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 17	Math Operator	GG	29064	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 +=4
Configurable Protection 17	Scale Factor 1	GG	29065	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 17	Offset 1	GG	29067	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 17	Scale Factor 2	GG	29069	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 17	Offset 2	GG	29071	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 18	Parameter 2 Selection	GG	29073	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 18	Math Operator	GG	29075	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 +=4
Configurable Protection 18	Scale Factor 1	GG	29076	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 18	Offset 1	GG	29078	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 18	Scale Factor 2	GG	29080	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 18	Offset 2	GG	29082	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 19	Parameter 2 Selection	GG	29084	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 19	Math Operator	GG	29086	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 +=4
Configurable Protection 19	Scale Factor 1	GG	29087	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 19	Offset 1	GG	29089	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 19	Scale Factor 2	GG	29091	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 19	Offset 2	GG	29093	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 20	Parameter 2 Selection	GG	29095	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 20	Math Operator	GG	29097	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 +=4
Configurable Protection 20	Scale Factor 1	GG	29098	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 20	Offset 1	GG	29100	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 20	Scale Factor 2	GG	29102	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 20	Offset 2	GG	29104	Float	4	R W	n/a	-999999 - 999999

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Configurable Protection 21	Parameter 2 Selection	GG	29106	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 21	Math Operator	GG	29108	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 21	Scale Factor 1	GG	29109	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 21	Offset 1	GG	29111	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 21	Scale Factor 2	GG	29113	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 21	Offset 2	GG	29115	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 22	Parameter 2 Selection	GG	29117	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 22	Math Operator	GG	29119	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 22	Scale Factor 1	GG	29120	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 22	Offset 1	GG	29122	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 22	Scale Factor 2	GG	29124	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 22	Offset 2	GG	29126	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 23	Parameter 2 Selection	GG	29128	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 23	Math Operator	GG	29130	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 23	Scale Factor 1	GG	29131	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 23	Offset 1	GG	29133	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 23	Scale Factor 2	GG	29135	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 23	Offset 2	GG	29137	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 24	Parameter 2 Selection	GG	29139	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 24	Math Operator	GG	29141	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 24	Scale Factor 1	GG	29142	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 24	Offset 1	GG	29144	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 24	Scale Factor 2	GG	29146	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 24	Offset 2	GG	29148	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 25	Parameter 2 Selection	GG	29150	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 25	Math Operator	GG	29152	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 25	Scale Factor 1	GG	29153	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 25	Offset 1	GG	29155	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 25	Scale Factor 2	GG	29157	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 25	Offset 2	GG	29159	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 26	Parameter 2 Selection	GG	29161	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 26	Math Operator	GG	29163	Int8	1	R W	n/a	None=0 +=1 -=2

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
								x=3 ÷=4
Configurable Protection 26	Scale Factor 1	GG	29164	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 26	Offset 1	GG	29166	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 26	Scale Factor 2	GG	29168	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 26	Offset 2	GG	29170	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 27	Parameter 2 Selection	GG	29172	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 27	Math Operator	GG	29174	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 27	Scale Factor 1	GG	29175	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 27	Offset 1	GG	29177	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 27	Scale Factor 2	GG	29179	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 27	Offset 2	GG	29181	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 28	Parameter 2 Selection	GG	29183	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 28	Math Operator	GG	29185	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 28	Scale Factor 1	GG	29186	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 28	Offset 1	GG	29188	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 28	Scale Factor 2	GG	29190	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 28	Offset 2	GG	29192	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 29	Parameter 2 Selection	GG	29194	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 29	Math Operator	GG	29196	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 29	Scale Factor 1	GG	29197	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 29	Offset 1	GG	29199	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 29	Scale Factor 2	GG	29201	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 29	Offset 2	GG	29203	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 30	Parameter 2 Selection	GG	29205	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 30	Math Operator	GG	29207	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 30	Scale Factor 1	GG	29208	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 30	Offset 1	GG	29210	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 30	Scale Factor 2	GG	29212	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 30	Offset 2	GG	29214	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 31	Parameter 2 Selection	GG	29216	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 31	Math Operator	GG	29218	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 31	Scale Factor 1	GG	29219	Float	4	R W	n/a	-999999 - 999999
Configurable	Offset 1	GG	29221	Float	4	R W	n/a	-999999 - 999999

Name	Description	Group	Register	Type	Bytes	R/W	Unit	Range
Protection 31								
Configurable Protection 31	Scale Factor 2	GG	29223	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 31	Offset 2	GG	29225	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 32	Parameter 2 Selection	GG	29227	Int32	4	R W	n/a	See the Selectable Parameters chapter for a complete list.
Configurable Protection 32	Math Operator	GG	29229	Int8	1	R W	n/a	None=0 +=1 -=2 x=3 ÷=4
Configurable Protection 32	Scale Factor 1	GG	29230	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 32	Offset 1	GG	29232	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 32	Scale Factor 2	GG	29234	Float	4	R W	n/a	-999999 - 999999
Configurable Protection 32	Offset 2	GG	29236	Float	4	R W	n/a	-999999 - 999999
Loss Of Sensing	Mode	GG	29238	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Loss Of Sensing	Time Delay	GG	29240	Float	4	R W	Millisecond	0 - 600000
Loss Of Sensing	Voltage Balanced Level	GG	29242	Float	4	R W	Percent	0 - 100
Loss Of Sensing	Voltage Unbalanced Level	GG	29244	Float	4	R W	Percent	0 - 100
Loss Of Sensing	Fault Current	GG	29246	Float	4	R W	Amp	0.9 - 20
Loss Of Sensing	Alarm Config	GG	29248	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Loss Of Sensing	Current Low Line Scale Factor	GG	29250	Float	4	R W	n/a	0.001 - 3
Loss Of Sensing	SP Mode	GG	29252	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Loss Of Sensing	SP Time Delay	GG	29254	Float	4	R W	Millisecond	0 - 600000
Loss Of Sensing	SP Voltage Level	GG	29256	Float	4	R W	Percent	0 - 100
Loss Of Sensing	SP Fault Current	GG	29258	Float	4	R W	Amp	0.9 - 20
Loss Of Sensing	SP Alarm Config	GG	29260	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Loss Of Sensing	SP Current Low Line Scale Factor	GG	29262	Float	4	R W	n/a	0.001 - 3
EDM	Mode	GG	29264	UInt32	4	R W	n/a	Disabled=0 Enabled=1
EDM	Pickup	GG	29266	Float	4	R W	Amp	0.1 - 10
EDM	Time Delay	GG	29268	Float	4	R W	Millisecond	0 - 30000
EDM	Alarm Config	GG	29270	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5
Field Overvoltage	Mode	GG	29272	UInt32	4	R W	n/a	Disabled=0 Enabled=1
Field Overvoltage	Pickup	GG	29274	Float	4	R W	Volt	1 - 120
Field Overvoltage	Time Delay	GG	29276	Float	4	R W	Millisecond	0 - 30000
Field Overvoltage	Alarm Config	GG	29278	UInt32	4	R W	n/a	Status Only=0 Pre-Alarm=1 Alarm=2 Alarm Unload=3 Alarm Cooldown=4 Alarm Unld Cooldwn=5



Selectable Parameters

All selectable parameters available to configurable protection elements and analog outputs are listed below.

No Parameter=0	Bus 2 kW C=66	Sys Group Bus Freq=132
Oil Pressure=1	Bus 2 kW Total=67	Sys Group Vavg=133
Coolant Temp=2	Gen kVA A=68	Sys Group Iavg=134
Battery Volts=3	Gen kVA B=69	Sys Group Bus Total Watt=135
RPM=4	Gen kVA C=70	Sys Group Bus Total Var=136
Fuel Level=5	Gen kVA Total=71	Sys Group Bus Total PF=137
Gen Hz=6	Bus 1 kVA A=72	Sys Load Bus Freq=138
Gen VAB=7	Bus 1 kVA B=73	Sys Load Vavg=139
Gen VBC=8	Bus 1 kVA C=74	Sys Load Iavg=140
Gen VCA=9	Bus 1 kVA Total=75	Sys Load Bus Total Watt=141
Gen Vavg LL=10	Bus 2 kVA A=76	Sys Load Bus Total Var=142
Gen VAN=11	Bus 2 kVA B=77	Sys Load Bus Total PF=143
Gen VBN=12	Bus 2 kVA C=78	Sys Mains Bus Freq=144
Gen VCN=13	Bus 2 kVA Total=79	Sys Mains Vavg=145
Gen Vavg LN=14	Gen kvar A=80	Sys Mains Iavg=146
Bus 1 Hz=15	Gen kvar B=81	Sys Mains Bus Total Watt=147
Bus 1 VAB=16	Gen kvar C=82	Sys Mains Bus Total Var=148
Bus 1 VBC=17	Gen kvar Total=83	Sys Mains Bus Total PF=149
Bus 1 VCA=18	Bus 1 kvar A=84	Voltage Bias=150
Bus 1 Vavg LL=19	Bus 1 kvar B=85	Speed Bias=151
Bus 1 VA=20	Bus 1 kvar C=86	Speed PID=152
Bus 1 VB=21	Bus 1 kvar Total=87	Volt PID=153
Bus 1 VC=22	Bus 2 kvar A=88	KW PID=154
Bus 1 Vavg LN=23	Bus 2 kvar B=89	KVar PID=155
Bus 2 Hz=24	Bus 2 kvar C=90	Ramped Watt Demand PU=156
Bus 2 VAB=25	Bus 2 kvar Total=91	Watt Demand PU=157
Bus 2 VBC=26	Fuel Pressure=92	Ramped Var Demand PU=158
Bus 2 VCA=27	Injector metering rail pressure=93	Var Demand PU=159
Bus 2 Vavg LL=28	Total Fuel Used=94	Speed Error=160
Bus 2 VAN=29	Fuel temperature=95	Volt Error=161
Bus 2 VBN=30	Engine oil temperature=96	KW Error=162
Bus 2 VCN=31	Engine intercooler temperature=97	KVar Error=163
Bus 2 Vavg LN=32	Coolant pressure=98	PF Setpoint=164
Gen PF=33	Fuel Rate=99	Sys Online kvar Cap=165
Bus 1 PF=34	Boost pressure=100	Act Seg Units=166
Bus 2 PF=35	Intake manifold temperature=101	Reserve Available=167
Gen Pos kWh=36	Charge air temperature=102	Adjusted Reserve Available=168
Gen Neg kWh=37	Engine Percent Load=103	Mains Baseload=169
Bus 1 Pos kWh=38	Analog Input 1=104	Total System kW Load=170
Bus 1 Neg kWh=39	Analog Input 2=105	Slip Angle=171
Bus 2 Pos kWh=40	Analog Input 3=106	Slip Freq=172
Bus 2 Neg kWh=41	Analog Input 4=107	Sync Volt Diff=173
Gen IA=42	kW Load Percent=108	Load Share Input=174
Gen IB=43	Number of Units Online=109	LAF Washout=175
Gen IC=44	System kW Capacity=110	LAF LeadLag=176
Gen I Avg=45	System Total Gen kW=111	LAF Output=177
Bus 1 IA=46	System Total Gen kvar=112	AEM 1 Analog Input 1=300
Bus 1 IB=47	Num Units=113	AEM 1 Analog Input 2=301
Bus 1 IC=48	DEF Tank Level 1=114	AEM 1 Analog Input 3=302
Bus 1 Iavg=49	DEF Tank Level 2=115	AEM 1 Analog Input 4=303
Bus 2 IAN=50	Iop A=116	AEM 1 Analog Input 5=304
Bus 2 IBN=51	Ir A=117	AEM 1 Analog Input 6=305
Bus 2 ICN=52	Iop 2nd A=118	AEM 1 Analog Input 7=306
Bus 2 Iavg=53	Iop 5th A=119	AEM 1 Analog Input 8=307
IG=54	Iop B=120	AEM 1 RTD Input 1=308
I Aux=55	Ir B=121	AEM 1 RTD Input 2=309
Gen kW A=56	Iop 2nd B=122	AEM 1 RTD Input 3=310
Gen kW B=57	Iop 5th B=123	AEM 1 RTD Input 4=311
Gen kW C=58	Iop C=124	AEM 1 RTD Input 5=312
Gen kW Total=59	Ir C=125	AEM 1 RTD Input 6=313
Bus 1 kW A=60	Iop 2nd C=126	AEM 1 RTD Input 7=314
Bus 1 kW B=61	Iop 5th C=127	AEM 1 RTD Input 8=315
Bus 1 kW C=62	Iop N=128	AEM 1 TC Input 1=316
Bus 1 kW Total=63	Sys Total kW Cap=129	AEM 1 TC Input 2=317
Bus 2 kW A=64	Sys Generated kW Percent=130	AEM 2 Analog Input 1=318
Bus 2 kW B=65	DPF Outlet Gas Temp=131	AEM 2 Analog Input 2=319

AEM 2 Analog Input 3=320	Brkr Sum 7 kW=393	Crankcase Pressure=471
AEM 2 Analog Input 4=321	Brkr Sum 7 kvar=394	Fuel Filter Diff Press=472
AEM 2 Analog Input 5=322	Brkr Sum 8 kW=395	Oil Filter Diff Press=473
AEM 2 Analog Input 6=323	Brkr Sum 8 kvar=396	
AEM 2 Analog Input 7=324	Conf Prot Out 1=397	
AEM 2 Analog Input 8=325	Conf Prot Out 2=398	
AEM 2 RTD Input 1=326	Conf Prot Out 3=399	
AEM 2 RTD Input 2=327	Conf Prot Out 4=400	
AEM 2 RTD Input 3=328	Conf Prot Out 5=401	
AEM 2 RTD Input 4=329	Conf Prot Out 6=402	
AEM 2 RTD Input 5=330	Conf Prot Out 7=403	
AEM 2 RTD Input 6=331	Conf Prot Out 8=404	
AEM 2 RTD Input 7=332	Conf Prot Out 9=405	
AEM 2 RTD Input 8=333	Conf Prot Out 10=406	
AEM 2 TC Input 1=334	Conf Prot Out 11=407	
AEM 2 TC Input 2=335	Conf Prot Out 12=408	
AEM 3 Analog Input 1=336	Conf Prot Out 13=409	
AEM 3 Analog Input 2=337	Conf Prot Out 14=410	
AEM 3 Analog Input 3=338	Conf Prot Out 15=411	
AEM 3 Analog Input 4=339	Conf Prot Out 16=412	
AEM 3 Analog Input 5=340	Conf Prot Out 17=413	
AEM 3 Analog Input 6=341	Conf Prot Out 18=414	
AEM 3 Analog Input 7=342	Conf Prot Out 19=415	
AEM 3 Analog Input 8=343	Conf Prot Out 20=416	
AEM 3 RTD Input 1=344	Conf Prot Out 21=417	
AEM 3 RTD Input 2=345	Conf Prot Out 22=418	
AEM 3 RTD Input 3=346	Conf Prot Out 23=419	
AEM 3 RTD Input 4=347	Conf Prot Out 24=420	
AEM 3 RTD Input 5=348	Conf Prot Out 25=421	
AEM 3 RTD Input 6=349	Conf Prot Out 26=422	
AEM 3 RTD Input 7=350	Conf Prot Out 27=423	
AEM 3 RTD Input 8=351	Conf Prot Out 28=424	
AEM 3 TC Input 1=352	Conf Prot Out 29=425	
AEM 3 TC Input 2=353	Conf Prot Out 30=426	
AEM 4 Analog Input 1=354	Conf Prot Out 31=427	
AEM 4 Analog Input 2=355	Conf Prot Out 32=428	
AEM 4 Analog Input 3=356	Field Current=429	
AEM 4 Analog Input 4=357	Field Voltage=430	
AEM 4 Analog Input 5=358	VRM Control Output=431	
AEM 4 Analog Input 6=359	VRM Tracking Error=432	
AEM 4 Analog Input 7=360	VRM AVR Setpoint=433	
AEM 4 Analog Input 8=361	VRM AVR Error=434	
AEM 4 RTD Input 1=362	VRM FCR Setpoint=435	
AEM 4 RTD Input 2=363	VRM FCR Error=436	
AEM 4 RTD Input 3=364	VRM OEL Reference=437	
AEM 4 RTD Input 4=365	VRM OEL Takeover Err=438	
AEM 4 RTD Input 5=366	VRM OEL Summing Err=439	
AEM 4 RTD Input 6=367	VRM OEL Summing Bias=440	
AEM 4 RTD Input 7=368	VRM UEL Reference=441	
AEM 4 RTD Input 8=369	VRM UEL Error=442	
AEM 4 TC Input 1=370	VRM UEL Bias=443	
AEM 4 TC Input 2=371	Config Log Param 1=444	
AVR Output=372	Config Log Param 2=445	
GOV Output=373	Config Log Param 3=446	
LS Output=374	Config Log Param 4=447	
Logic Input 1=375	Config Log Param 5=448	
Logic Input 2=376	Config Log Param 6=449	
Logic Input 3=377	VRM RTD Input 1=450	
Logic Input 4=378	VRM RTD Input 2=451	
Logic Input 5=379	VRM RTD Input 3=452	
Logic Input 6=380	VRM RTD Input 4=453	
Brkr Sum 1 kW=381	VRM RTD Input 5=454	
Brkr Sum 1 kvar=382	VRM RTD Input 6=455	
Brkr Sum 2 kW=383	VRM RTD Input 7=456	
Brkr Sum 2 kvar=384	VRM RTD Input 8=457	
Brkr Sum 3 kW=385	Vrm AVR Ref=459	
Brkr Sum 3 kvar=386	Vrm FCR Ref=460	
Brkr Sum 4 kW=387	Batt Chg 1 Volts=465	
Brkr Sum 4 kvar=388	Batt Chg 1 Amps=466	
Brkr Sum 5 kW=389	Batt Chg 2 Volts=467	
Brkr Sum 5 kvar=390	Batt Chg 2 Amps=468	
Brkr Sum 6 kW=391	Battery 1 Temp=469	
Brkr Sum 6 kvar=392	Battery 2 Temp=470	

Legacy Register Table

The DGC-2020HD maps all legacy parameters previously associated with the DGC-2020 into the Holding Register address space (4XXXXX). Query address N will access the Holding Register N+1. The Data Format is Integer type data unless identified otherwise in the Data Format column.

The register table on the following pages contains the following groups:

Breaker Management, Bias Control Settings, Pulse Outputs, Bus Condition Detection, Senders, System Configuration and Status, Control, Communication, Protection, Alarms, and Metering.

Breaker Management

Register	Description	Type	Units	Scaling Factor	R/W	Range
42000	Gen Breaker Configured	Int32	n/a	n/a	RW	0 = Not Configured 1 = Configured
42002	Gen Breaker Open Pulse Time	Int32	Centisecond	Centi	RW	1 - 80
42004	Gen Breaker Close Pulse Time	Int32	Centisecond	Centi	RW	1 - 80
42006	Gen Breaker Contact Type	Int32	n/a	n/a	RW	0 = Pulse 1 = Continuous
42008	Gen Breaker Close Time	Int32	Millisecond	n/a	RW	0 - 800
42010	Reserved					
42012	Mains Breaker Configured	Int32	n/a	n/a	RW	0 = Not Configured 1 = Configured
42014	Mains Breaker Open Pulse Time	Int32	Centisecond	Centi	RW	1 - 80
42016	Mains Breaker Close Pulse Time	Int32	Centisecond	Centi	RW	1 - 80
42018	Mains Breaker Output Continuous	Int32	n/a	n/a	RW	0 = Pulse 1 = Continuous
42020	Mains Breaker Close Time	Int32	Millisecond	n/a	RW	0 - 800
42022	Reserved					
42024	Synchronizer Type	Int32	n/a	n/a	RW	1 = Anticipatory 2 = Phase Lock Loop
42026	Synchronizer Mode	Int32	n/a	n/a	RW	0 = Off Mode 1 = Auto Mode
42028	Slip Frequency	Int32	CentiHertz	Centi	RW	1 - 50
42030	Breaker Closing Angle	Int32	DeciDegree	Deci	RW	30 - 200
42032	Regulation Offset	Int32	DeciPercent	Deci	RW	20 - 150
42034	Vgen > Vbus	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
42036	Fgen > Fbus	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
42038-40	Reserved					
42042	Breaker Close Wait Time	Float	Second	n/a	RW	0.1 - 600
42044	Sync Time Delay	Float	Second	n/a	RW	0.1 - 0.8
42046	Sync Fail Time Delay	Float	Second	n/a	RW	0.1 - 600
42048	Mains Fail Transfer Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
42050	Gen Breaker Status	Int32	n/a	n/a	R	0 = Open 1 = Closed
42052	Mains Breaker Status	Int32	n/a	n/a	R	0 = Open 1 = Closed
42054	Mains Fail Transfer Delay	Int32	Second	n/a	RW	0 - 300
42056	Mains Fail Return Delay	Int32	Second	n/a	RW	0 - 1800
42058	Mains Fail Max Transfer Time	Int32	Second	n/a	RW	1 - 120
42060	Reserved					
42062	Dead Bus Close Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
42064	Sync Speed Gain	Float	n/a	n/a	RW	0.001 - 1000
42066	Sync Voltage Gain	Float	n/a	n/a	RW	0.001 - 1000
42068	Max Parallel Time	Int32	Second	Deci	RW	1 - 100000
42070	Mains Fail Transfer Type	Int32	n/a	n/a	RW	0 = Open 1 = Close
42072	In Phase Monitor Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
42074	Dead Gen Close Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
42076	Reserved					
42078	Min Slip Control Limit	Int32	n/a	Centi	RW	0 - 200
42080	Max Slip Control Limit	Int32	n/a	Centi	RW	0 - 200
42082	Rev. Rotation Mains Fail Inhibit	Int32	n/a	n/a	RW	0 = Disable 1 = Enable

Bias Control Settings

Register	Description	Type	Units	Scaling Factor	R/W	Range
42250	AVR Kp Proportional Gain	Float	n/a	n/a	RW	0 - 1000
42252	AVR Ki Integral Gain	Float	n/a	n/a	RW	0 - 1000
42254	AVR Kd Derivative Gain	Float	n/a	n/a	RW	0 - 1000
42256	AVR Td Filter Constant	Float	n/a	n/a	RW	0 - 1
42258	AVR Kg Loop Gain	Float	n/a	n/a	RW	0 - 1000
42260	AVR Windup Limit	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
42262	AVR Integrator Limit Plus	Float	n/a	n/a	RW	0 - 1000
42264	AVR Integrator Limit Minus	Float	n/a	n/a	RW	(-1000) - 0
42266	AVR Output Upper Limit	Float	n/a	n/a	RW	0 - 1000
42268	AVR Output Lower Limit	Float	n/a	n/a	RW	(-1000) - 0
42270	Reserved					
42272	Governor Kp Proportional Gain	Float	n/a	n/a	RW	0 - 1000
42274	Governor Ki Integral Gain	Float	n/a	n/a	RW	0 - 1000
42276	Governor Kd Derivative Gain	Float	n/a	n/a	RW	0 - 1000
42278	Governor Td Filter Constant	Float	n/a	n/a	RW	0 - 1
42280	Governor Loop Gain	Float	n/a	n/a	RW	0 - 1000
42282	Governor Windup Limit	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
42284	Governor Integrator Limit Plus	Float	n/a	n/a	RW	0 - 1000
42286	Governor Integrator Limit Minus	Float	n/a	n/a	RW	(-1000) - 0
42288	Governor Output Upper Limit	Float	n/a	n/a	RW	0 - 1000
42290	Governor Output Lower Limit	Float	n/a	n/a	RW	(-1000) - 0
42292	Reserved					
42294	kvar Kp	Float	n/a	n/a	RW	0 - 1000
42296	kvar Ki	Float	n/a	n/a	RW	0 - 1000
42298	kvar Kd	Float	n/a	n/a	RW	0 - 1000
42300	kvar Td	Float	n/a	n/a	RW	0 - 1
42302	kvar Loop Gain	Float	n/a	n/a	RW	0 - 1000
42304	kvar Windup Limit	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
42306	kvar Integrator Limit Plus	Float	n/a	n/a	RW	0 - 1000
42308	kvar Integrator Limit Minus	Float	N/A	n/a	RW	(-1000) - 0
42310	kvar Output Upper Limit	Float	n/a	n/a	RW	0 - 1000
42312	kvar Output Lower Limit	Float	n/a	n/a	RW	(-1000) - 0
42314	Reserved					
42316	kW Kp	Float	n/a	n/a	RW	0 - 1000
42318	kW Ki	Float	n/a	n/a	RW	0 - 1000
42320	kW Kd	Float	n/a	n/a	RW	0 - 1000
42322	kW Td	Float	n/a	n/a	RW	0 - 1
42324	kW Loop Gain	Float	n/a	n/a	RW	0 - 1000
42326	kW Windup Limit	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
42328	kW Integrator Limit Plus	Float	n/a	n/a	RW	0 - 1000
42330	kW Integrator Limit Minus	Float	n/a	n/a	RW	(-1000) - 0
42332	kW Output Upper Limit	Float	n/a	n/a	RW	0 - 1000
42334	kW Output Lower Limit	Float	n/a	n/a	RW	(-1000) - 0
42336	Reserved					
42338	Droop Percent	Float	Percent	n/a	RW	0 - 10
42340	Load Control	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
42342	kW Load Rate	Int32	n/a	Deci	RW	0 - 1000
42344	Breaker Open Setpoint	Int32	n/a	Deci	RW	0 - 1000
42346	AVR Bias Control Output Type	Int32	n/a	n/a	RW	0 = Contact 1 = Analog
42348	Governor Bias Control Output Type	Int32	n/a	n/a	RW	0 = Contact 1 = Analog
42350	Speed Droop Gain	Float	n/a	n/a	RW	0 - 1000
42352	Voltage Droop Gain	Float	n/a	n/a	RW	0 - 1000
42354	Speed Trim Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
42356	Voltage Trim Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
42358	Ramped Watt Demand Per Unit	Float	n/a	n/a	R	0 - 100
42360	Watt Demand Per Unit	Float	n/a	n/a	R	0 - 100
42362	Speed PID Output	Float	n/a	n/a	R	0 - 100
42364	kW PID Output	Float	n/a	n/a	R	0 - 100
42366	Volt PID Output	Float	n/a	n/a	R	0 - 100
42368	Speed Trim Setpoint	UInt32	DeciHertz	Centi	RW	4700 - 44000
42370	var Control Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
42372	kvar Load Rate	UInt32	n/a	Deci	RW	1 - 1000

Register	Description	Type	Units	Scaling Factor	R/W	Range
42374	Base Load Level Source	UInt32	n/a	n/a	RW	0 = User Setting 1 = Local Analog Input 1 2 = Local Analog Input 2 3 = Local Analog Input 3 4 = Local Analog Input 4 5 = AEM 1 Analog Input 1 6 = AEM 1 Analog Input 2 7 = AEM 1 Analog Input 3 8 = AEM 1 Analog Input 4 9 = AEM 1 Analog Input 5 10 = AEM 1 Analog Input 6 11 = AEM 1 Analog Input 7 12 = AEM 1 Analog Input 8 13 = AEM 2 Analog Input 1 14 = AEM 2 Analog Input 2 15 = AEM 2 Analog Input 3 16 = AEM 2 Analog Input 4 17 = AEM 2 Analog Input 5 18 = AEM 2 Analog Input 6 19 = AEM 2 Analog Input 7 20 = AEM 2 Analog Input 8 21 = AEM 3 Analog Input 1 22 = AEM 3 Analog Input 2 23 = AEM 3 Analog Input 3 24 = AEM 3 Analog Input 4 25 = AEM 3 Analog Input 5 26 = AEM 3 Analog Input 6 27 = AEM 3 Analog Input 7 28 = AEM 3 Analog Input 8 29 = AEM 4 Analog Input 1 30 = AEM 4 Analog Input 2 31 = AEM 4 Analog Input 3 32 = AEM 4 Analog Input 4 33 = AEM 4 Analog Input 5 34 = AEM 4 Analog Input 6 35 = AEM 4 Analog Input 7 36 = AEM 4 Analog Input 8
42376	kvar Setpoint Source	UInt32	n/a	n/a	RW	0 = User Setting 1 = Local Analog Input 1 2 = Local Analog Input 2 3 = Local Analog Input 3 4 = Local Analog Input 4 5 = AEM 1 Analog Input 1 6 = AEM 1 Analog Input 2 7 = AEM 1 Analog Input 3 8 = AEM 1 Analog Input 4 9 = AEM 1 Analog Input 5 10 = AEM 1 Analog Input 6 11 = AEM 1 Analog Input 7 12 = AEM 1 Analog Input 8 13 = AEM 2 Analog Input 1 14 = AEM 2 Analog Input 2 15 = AEM 2 Analog Input 3 16 = AEM 2 Analog Input 4 17 = AEM 2 Analog Input 5 18 = AEM 2 Analog Input 6 19 = AEM 2 Analog Input 7 20 = AEM 2 Analog Input 8 21 = AEM 3 Analog Input 1 22 = AEM 3 Analog Input 2 23 = AEM 3 Analog Input 3 24 = AEM 3 Analog Input 4 25 = AEM 3 Analog Input 5 26 = AEM 3 Analog Input 6 27 = AEM 3 Analog Input 7 28 = AEM 3 Analog Input 8 29 = AEM 4 Analog Input 1 30 = AEM 4 Analog Input 2 31 = AEM 4 Analog Input 3 32 = AEM 4 Analog Input 4 33 = AEM 4 Analog Input 5 34 = AEM 4 Analog Input 6 35 = AEM 4 Analog Input 7 36 = AEM 4 Analog Input 8

Register	Description	Type	Units	Scaling Factor	R/W	Range
42378	PF Setpoint Source	UInt32	n/a	n/a	RW	0 = User Setting 1 = Local Analog Input 1 2 = Local Analog Input 2 3 = Local Analog Input 3 4 = Local Analog Input 4 5 = AEM 1 Analog Input 1 6 = AEM 1 Analog Input 2 7 = AEM 1 Analog Input 3 8 = AEM 1 Analog Input 4 9 = AEM 1 Analog Input 5 10 = AEM 1 Analog Input 6 11 = AEM 1 Analog Input 7 12 = AEM 1 Analog Input 8 13 = AEM 2 Analog Input 1 14 = AEM 2 Analog Input 2 15 = AEM 2 Analog Input 3 16 = AEM 2 Analog Input 4 17 = AEM 2 Analog Input 5 18 = AEM 2 Analog Input 6 19 = AEM 2 Analog Input 7 20 = AEM 2 Analog Input 8 21 = AEM 3 Analog Input 1 22 = AEM 3 Analog Input 2 23 = AEM 3 Analog Input 3 24 = AEM 3 Analog Input 4 25 = AEM 3 Analog Input 5 26 = AEM 3 Analog Input 6 27 = AEM 3 Analog Input 7 28 = AEM 3 Analog Input 8 29 = AEM 4 Analog Input 1 30 = AEM 4 Analog Input 2 31 = AEM 4 Analog Input 3 32 = AEM 4 Analog Input 4 33 = AEM 4 Analog Input 5 34 = AEM 4 Analog Input 6 35 = AEM 4 Analog Input 7 36 = AEM 4 Analog Input 8
42380-84	Reserved					
42386	Baseload Analog Max	Int32	Percent	Deci	RW	0 - 1000
42388	Baseload Analog Min	Int32	Percent	Deci	RW	0 - 1000
42390	kvar Analog Max	Int32	Percent	Deci	RW	(-1000) - 1000
42392	kvar Analog Min	Int32	Percent	Deci	RW	(-1000) - 1000
42394	PF Analog Max	Int32	n/a	Centi	RW	160 - 240
42396	PF Analog Min	Int32	n/a	Centi	RW	160 - 240
42398	var Droop Percentage	Float	Percent	n/a	RW	0 - 10
42400-06	Reserved					
42408	Base Load Level	Float	Percent	n/a	RW	0 - 100
42410	kvar Setpoint	Float	Percent	n/a	RW	(-100) - 100
42412	PF Setpoint	Int32	n/a	Centi	RW	160 - 240
42414	var Control Mode	Int32	n/a	n/a	RW	0 = var Control 1 = PF Control
42416	Load Share Interface	Int32	n/a	n/a	RW	0 = Analog Load Share Line 1 = Ethernet Comms

Register	Description	Type	Units	Scaling Factor	R/W	Range
42418	Remote Speed Bias Source	Int32	n/a	n/a	RW	0 = None 1 = Local Analog Input 1 2 = Local Analog Input 2 3 = Local Analog Input 3 4 = Local Analog Input 4 5 = AEM 1 Analog Input 1 6 = AEM 1 Analog Input 2 7 = AEM 1 Analog Input 3 8 = AEM 1 Analog Input 4 9 = AEM 1 Analog Input 5 10 = AEM 1 Analog Input 6 11 = AEM 1 Analog Input 7 12 = AEM 1 Analog Input 8 13 = AEM 2 Analog Input 1 14 = AEM 2 Analog Input 2 15 = AEM 2 Analog Input 3 16 = AEM 2 Analog Input 4 17 = AEM 2 Analog Input 5 18 = AEM 2 Analog Input 6 19 = AEM 2 Analog Input 7 20 = AEM 2 Analog Input 8 21 = AEM 3 Analog Input 1 22 = AEM 3 Analog Input 2 23 = AEM 3 Analog Input 3 24 = AEM 3 Analog Input 4 25 = AEM 3 Analog Input 5 26 = AEM 3 Analog Input 6 27 = AEM 3 Analog Input 7 28 = AEM 3 Analog Input 8 29 = AEM 4 Analog Input 1 30 = AEM 4 Analog Input 2 31 = AEM 4 Analog Input 3 32 = AEM 4 Analog Input 4 33 = AEM 4 Analog Input 5 34 = AEM 4 Analog Input 6 35 = AEM 4 Analog Input 7 36 = AEM 4 Analog Input 8
42420-23	Reserved					
42424	Load Sharing Aux Input Source	Int32	n/a	n/a	RW	0 = Local Aux Input 1 = System Manager
42426	kW Ramp Status	Int32	n/a	n/a	R	0 - 2
42428	kvar Ramp Status	Int32	n/a	n/a	R	0 - 2

Pulse Outputs

Register	Description	Type	Units	Scaling Factor	R/W	Range
42500	AVR Correction Pulse Width	Int32	Decisecond	Deci	RW	0 - 999
42502	AVR Correction Pulse Interval	Int32	Decisecond	Deci	RW	0 - 999
42504	AVR Bias Contact Type	Int32	n/a	n/a	RW	0 = Continuous 1 = Proportional
42506	Reserved					
42508	Governor Correction Pulse Width	Int32	Decisecond	Deci	RW	0 - 999
42510	Governor Correction Pulse Interval	Int32	Decisecond	Deci	RW	0 - 999
42512	Governor Bias Contact Type	Int32	Decisecond	Deci	RW	0 = Continuous 1 = Proportional

Bus Condition Detection

Register	Description	Type	Units	Scaling Factor	R/W	Range
42750	Gen Sensing Dead Bus Pickup	Int32	Volt	n/a	RW	0 - 4800
42752	Gen Sensing Dead Bus Time Delay	Int32	Decisecond	Deci	RW	1 - 6000
42754	Reserved					
42756	Gen Sensing Stable Undervoltage Pickup	Int32	Volt	n/a	RW	10 - 99999
42758	Gen Sensing Stable Undervoltage Dropout	Int32	Volt	n/a	RW	10 - 99999
42760	Gen Sensing Stable Overvoltage	Int32	Volt	n/a	RW	10 - 99999
42762	Gen Sensing Stable Overvoltage Dropout	Int32	Volt	n/a	RW	10 - 99999
42764	Gen Sensing Stable Underfrequency Pickup	Int32	CentiHertz	Centi	RW	4600 - 6400
42766	Gen Sensing Stable Underfrequency Dropout	Int32	CentiHertz	Centi	RW	4600 - 6400
42768	Gen Sensing Stable Overfrequency Pickup	Int32	CentiHertz	Centi	RW	4600 - 6400
42770	Gen Sensing Stable Overfrequency Dropout	Int32	CentiHertz	Centi	RW	4600 - 6400
42772	Gen Sensing Fail Time Delay	Int32	Decisecond	Deci	RW	1 - 6000
42774	Gen Sensing Stable Time Delay	Int32	Decisecond	Deci	RW	1 - 6000
42776	Reserved					
42778	Bus Sensing Dead Bus Pickup	Int32	Volt	n/a	RW	0 - 4800
42780	Bus Sensing Dead Bus Time Delay	Int32	Decisecond	Deci	RW	1 - 6000
42782	Reserved					

Register	Description	Type	Units	Scaling Factor	R/W	Range
42784	Bus Sensing Stable Undervoltage Pickup	Int32	Volt	n/a	RW	10 - 9999
42786	Bus Sensing Stable Undervoltage Dropout	Int32	Volt	n/a	RW	10 - 9999
42788	Bus Sensing Stable Overvoltage Pickup	Int32	Volt	n/a	RW	10 - 9999
42790	Bus Sensing Stable Overvoltage Dropout	Int32	Volt	n/a	RW	10 - 9999
42792	Bus Sensing Stable Underfrequency Pickup	Int32	CentiHertz	Centi	RW	4600 - 6400
42794	Bus Sensing Stable Underfrequency Dropout	Int32	CentiHertz	Centi	RW	4600 - 6400
42796	Bus Sensing Stable Overfrequency Pickup	Int32	CentiHertz	Centi	RW	4600 - 6400
42798	Bus Sensing Stable Overfrequency Dropout	Int32	CentiHertz	Centi	RW	4600 - 6400
42800	Bus Sensing Fail Time Delay	Int32	Decisecond	Deci	RW	1 - 6000
42802	Bus Sensing Stable Time Delay	Int32	Decisecond	Deci	RW	1 - 6000
42804	Reserved					
42806	Gen Dead Status	Int32	n/a	n/a	R	0 - 1
42808	Gen Stable Status	Int32	n/a	n/a	R	0 - 1
42810	Gen Fail Status	Int32	n/a	n/a	R	0 - 1
42812	Bus Dead Status	Int32	n/a	n/a	R	0 - 1
42814	Bus Stable Status	Int32	n/a	n/a	R	0 - 1
42816	Bus Fail Status	Int32	n/a	n/a	R	0 - 1
42818	Gen Stable Low Line Scale Factor	Float	n/a	n/a	RW	0.001 - 3
42820	Bus Stable Low Line Scale Factor	Float	n/a	n/a	RW	0.001 - 3
42822	Gen Stable Alternate Frequency Scale Factor	Float	n/a	n/a	RW	0.001 - 100
42824	Bus Stable Alternate Frequency Scale Factor	Float	n/a	n/a	RW	0.001 - 100

Senders

Register	Description	Type	Units	Scaling Factor	R/W	Range
43434	Coolant Temperature Sender Fail Configuration Type	Int32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm
43436	Coolant Temperature Sender Fail Activation Delay	Int32	Minute	n/a	RW	5 - 30
43438	Oil Pressure Sender Fail Configuration Type	Int32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm
43440	Oil Pressure Sender Fail Activation Delay	Int32	Second	n/a	RW	0 - 300
43442	Fuel Level Sender Fail Configuration Type	Int32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm
43444	Fuel Level Sender Fail Activation Delay	Int32	Second	n/a	RW	0 - 300
43446	Voltage Sensing Fail Configuration Type	Int32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm
43448	Voltage Sensing Fail Activation Delay	Int32	Second	n/a	RW	0 - 300
43450	Low Coolant Level Contact Input	Int32	n/a	n/a	RW	-1 = None 0 = Input 1 1 = Input 2 2 = Input 3 3 = Input 4 4 = Input 5 5 = Input 6 6 = Input 7 7 = Input 8 8 = Input 9 9 = Input 10 10 = Input 11 11 = Input 12 12 = Input 13 13 = Input 14 14 = Input 15 15 = Input 16
43452	Low Coolant Level Config Type	Int32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm
43454	Low Coolant Level Time Delay	Int32	Second	n/a	RW	0 - 300

Register	Description	Type	Units	Scaling Factor	R/W	Range
43456	Battery Charge Failed Contact Input	Int32	n/a	n/a	RW	-1 = None 0 = Input 1 1 = Input 2 2 = Input 3 3 = Input 4 4 = Input 5 5 = Input 6 6 = Input 7 7 = Input 8 8 = Input 9 9 = Input 10 10 = Input 11 11 = Input 12 12 = Input 13 13 = Input 14 14 = Input 15 15 = Input 16
43458	Battery Charge Failed Config Type	Int32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm
43460	Battery Charge Failed Time Delay	Int32	Second	n/a	RW	0 - 300
43462	Fuel Leak Detect Contact Input	Int32	n/a	n/a	RW	-1 = None 0 = Input 1 1 = Input 2 2 = Input 3 3 = Input 4 4 = Input 5 5 = Input 6 6 = Input 7 7 = Input 8 8 = Input 9 9 = Input 10 10 = Input 11 11 = Input 12 12 = Input 13 13 = Input 14 14 = Input 15 15 = Input 16
43464	Fuel Leak Detect Config Type	Int32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm
43466	Fuel Leak Detect Time Delay	Int32	Second	n/a	RW	0 - 300
43468	User Configurable Input 1 Eng Run Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
43470	User Configurable Input 2 Eng Run Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
43472	User Configurable Input 3 Eng Run Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
43474	User Configurable Input 4 Eng Run Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
43476	User Configurable Input 5 Eng Run Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
43478	User Configurable Input 6 Eng Run Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
43480	User Configurable Input 7 Eng Run Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
43482	User Configurable Input 8 Eng Run Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
43484	User Configurable Input 9 Eng Run Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
43486	User Configurable Input 10 Eng Run Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
43488	User Configurable Input 11 Eng Run Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
43490	User Configurable Input 12 Eng Run Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
43492	User Configurable Input 13 Eng Run Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
43494	User Configurable Input 14 Eng Run Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
43496	User Configurable Input 15 Eng Run Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
43498	User Configurable Input 16 Eng Run Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only

System Configuration and Status

Register	Description	Type	Units	Scaling Factor	R/W	Range
43500	Rated Volts	Float	Volt	n/a	RW	1 - 99999

Register	Description	Type	Units	Scaling Factor	R/W	Range
43502	Pre-Start Contact Config	Int32	n/a	n/a	RW	0 = Open After Disconnect 1 = Closed While Running
43504	System Units	Int32	n/a	n/a	RW	0 = English 1 = Metric
43506	Battery Volts	Int32	n/a	n/a	RW	0 = 12V 1 = 24V
43508	Off Mode Status	Int32	n/a	n/a	R	0 = Disable 1 = Enable
43510	Run Mode Status	Int32	n/a	n/a	R	0 = Disable 1 = Enable
43512	Auto Mode Status	Int32	n/a	n/a	R	0 = Disable 1 = Enable
43514	Virtual Input 1 Status	Int32	n/a	n/a	R	0 = Disable 1 = Enable
43516	Virtual Input 2 Status	Int32	n/a	n/a	R	0 = Disable 1 = Enable
43518	Virtual Input 3 Status	Int32	n/a	n/a	R	0 = Disable 1 = Enable
43520	Virtual Input 4 Status	Int32	n/a	n/a	R	0 = Disable 1 = Enable
43522	RTC Clock Hour	Int32	Hour	n/a	RW	0 - 23
43524	RTC Minute	Int32	Minute	n/a	RW	0 - 59
43526	RTC Second	Int32	Second	n/a	RW	0 - 59
43528	RTC Month	Int32	n/a	n/a	RW	1 - 12
43530	RTC Day	Int32	n/a	n/a	RW	1 - 31
43532	RTC Year	Int32	n/a	n/a	RW	0 - 99
43534	Reserved					
43536	Gen PT Primary	Int32	Volt	n/a	RW	1 - 99999
43538	Gen PT Secondary	Int32	Volt	n/a	RW	1 - 480
43540	Gen CT Primary	Int32	Amp	n/a	RW	1 - 9999
43542	Bus PT Primary	Int32	Volt	n/a	RW	1 - 99999
43544	Bus PT Secondary	Int32	Volt	n/a	RW	1 - 480
43546	Cranking Style	UInt32	n/a	n/a	RW	0 = Continuous 1 = Cycle
43548	Number of Crank Cycles	UInt32	n/a	n/a	RW	1 - 7
43550	Cycle Crank Time	Unit32	Second	n/a	RW	5 - 15
43552	Continuous Crank Time	Unit32	Second	n/a	RW	5 - 60
43554	Crank Disconnect Limit	UInt32	Percent	n/a	RW	10 - 100
43556	Pre Crank Delay	UInt32	Second	n/a	RW	0 - 30
43558	Configured Gen Connection	UInt32	n/a	n/a	RW	0 = Delta 1 = Wye 2 = 1-phase AB 3 = 1-phase AC 4 = Grounded Delta
43560	Gen Rated Frequency	Int32	Hertz	n/a	RW	0 = 50 Hz 1 = 60 Hz
43562	Rated kW	UInt32	kilowatt	n/a	RW	5 - 9999
43564	Rated Engine RPM	UInt32	RPM	n/a	RW	750 - 3600
43566	No Load Cool Down Time	UInt32	Minute	n/a	RW	0 - 60
43568	EPS Current Threshold	Int32	Percent CT Pri	n/a	RW	3 - 10
43570	Fuel Level Function	UInt32	n/a	n/a	RW	0 = Disable 1 = Fuel Lvl 2 = Natural Gas 3 = Propane
43572	Number Flywheel Teeth	UInt32	n/a	n/a	RW	1 - 500
43574	Speed Signal Source	UInt32	n/a	n/a	RW	1 = MPU 2 = Gen Freq 3 = MPU Freq
43576	NFPA Level	UInt32	n/a	n/a	RW	0 = Zero 1 = One 2 = Two
43578	Horn Enable	Int32	n/a	n/a	RW	0 = Disabled 1 = Enabled
43580	Single-Phase Override Sensing	UInt32	n/a	n/a	RW	0 = AB 1 = AC
43582	Reserved					
43584	LCD Contrast Value	UInt32	n/a	n/a	RW	0 - 100
43586	Front Panel Sleep Mode	UInt32	n/a	n/a	RW	0 = Disabled 1 = Enabled
43588	Reserved					
43590	UTC Offset	Int32	Minute	n/a	RW	(-1440) - 1440
43592	DST Configuration	Int32	n/a	n/a	RW	0 = Disabled 1 = Floating 2 = Fixed
43594	Start/End Time Reference	Int32	n/a	n/a	RW	0 = Local Time 1 = UTC Time
43596	DST Bias Hours	Int32	n/a	n/a	RW	0 - 23
43598	DST Bias Minutes	Int32	n/a	n/a	RW	0 - 59

Register	Description	Type	Units	Scaling Factor	R/W	Range
43600	DST Start Month	Int32	n/a	n/a	RW	1 = January 2 = February 3 = March 4 = April 5 = May 6 = June 7 = July 8 = August 9 = September 10 = October 11 = November 12 = December
43602	DST Start Day	Int32	n/a	n/a	RW	1 - 31
43604	DST Start Week of Month	Int32	n/a	n/a	RW	0 = First 1 = Second 2 = Third 3 = Fourth 4 = Last
43606	DST Start Day of Week	Int32	n/a	n/a	RW	0 = Sunday 1 = Monday 2 = Tuesday 3 = Wednesday 4 = Thursday 5 = Friday 6 = Saturday
43608	DST Start Hour	Int32	n/a	n/a	RW	0 - 23
43610	DST Start Minute	Int32	n/a	n/a	RW	0 - 59
43612	DST End Month	Int32	n/a	n/a	RW	1 = January 2 = February 3 = March 4 = April 5 = May 6 = June 7 = July 8 = August 9 = September 10 = October 11 = November 12 = December
43614	DST End Day	Int32	n/a	n/a	RW	1 - 31
43616	DST End Week of Month	Int32	n/a	n/a	RW	0 = First 1 = Second 2 = Third 3 = Fourth 4 = Last
43618	DST End Day of Week	Int32	n/a	n/a	RW	0 = Sunday 1 = Monday 2 = Tuesday 3 = Wednesday 4 = Thursday 5 = Friday 6 = Saturday
43620	DST End Hour	Int32	n/a	n/a	RW	0 - 23
43622	DST End Minute	Int32	n/a	n/a	RW	0 - 59
43624	EPS Low Line Scale Factor	Float	n/a	n/a	RW	0.001 - 3
43626	Rated Power Factor	Float	Power Factor	n/a	RW	(-1) - 1
43628	Prestart Rest Configuration	Int32	n/a	n/a	RW	0 = Off During Rest 1 = On During Rest 2 = Preheat before Crank
43630	Oil Pressure Crank Disconnect	UInt32	n/a	n/a	RW	0 = Disable 1 = Enable
43632	Crank Disconnect Pressure	UInt32	PSI	Deci	RW	29 - 1500
43634	Crank Disconnect Pressure in kPa	UInt32	kPa	Deci	RW	200 - 10345
43636	Power Up Delay	UInt32	Second	n/a	RW	0 - 60
43638	Auto Config Detect Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
43640	Low Line Detect Threshold	Int32	Volt	n/a	RW	0 - 480
43642	Single-Phase Detect Threshold	Int32	Volt	n/a	RW	0 - 480
43644	Start Relay Control	UInt32	n/a	n/a	RW	0 = Predefined 1 = Programmable
43646	Run Relay Control	UInt32	n/a	n/a	RW	0 = Predefined 1 = Programmable
43648	Prestart Relay Control	UInt32	n/a	n/a	RW	0 = Predefined 1 = Programmable
43650	Single-Phase Connect Generator Detection	Int32	n/a	n/a	RW	0 = A-B 1 = A-C
43652	Off Mode Cool Down Enable	UInt32	n/a	n/a	RW	0 = Disable 1 = Enable
43654	Reserved					
43656	Not In Auto Horn Enable	UInt32	n/a	n/a	RW	0 = Disable 1 = Enable

Register	Description	Type	Units	Scaling Factor	R/W	Range
43658	Clock Not Set Warning Enable	Uint32	n/a	n/a	RW	0 = Disable 1 = Enable
43660	Alternate Frequency	Int32	Hertz	Centi	RW	1000 - 9000
43662	Generator System Type	Int32	n/a	n/a	RW	0 = Single Generator 1 = Multiple Generator
43664	Gen CT Low Line Scale Factor	Float	n/a	n/a	RW	0.001 - 3
43666	Metric Pressure Units	Int32	n/a	n/a	RW	0 = Bar 1 = kPa
43668	System Units	Int32	n/a	n/a	RW	0 = English 1 = Metric
43674	RPM Bandwidth Data	Int32	n/a	n/a	RW	0 - 1000
43676	Number Flywheel Teeth	Int32	n/a	Deci	RW	10 - 5000
43678	Phase Rotation	Int32	n/a	n/a	RW	0 = ACB 1 = ABC
43680	Restart Delay	Int32	Second	n/a	RW	0 - 120
43682	Configured Bus Connection	Uint32	n/a	n/a	RW	0 = Single-Phase 1 = Three-Phase
43684	Fuel Level Source	Int32	n/a	n/a	RW	1 - 9
43686	Fuel Level Percent Max	Int32	n/a	n/a	RW	0 - 150
43688	Fuel Level Percent Min	Int32	n/a	n/a	RW	0 - 150

Control

Register	Description	Type	Units	Scaling Factor	R/W	Range
43750	Emergency Stop: Writing a 1 will toggle emergency stop from off to on. Writing a 1 again will toggle emergency stop from on to off	Int32	n/a	n/a	RW	1 = Toggle On/Off
43752	Remote Start	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
43754	Remote Stop	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
43756	Run Mode	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
43758	Off Mode	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
43760	Auto Mode	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
43762	Alarm Reset	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
43764	Gen Breaker Open	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
43766	Gen Breaker Close	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
43768	Mains Breaker Open	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
43770	Mains Breaker Close	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
43772	Reserved					
43774	Virtual Input 1 Close	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
43776	Virtual Input 1 Open	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
43778	Virtual Input 2 Close	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
43780	Virtual Input 2 Open	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
43782	Virtual Input 3 Close	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
43784	Virtual Input 3 Open	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
43786	Virtual Input 4 Close	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
43788	Virtual Input 4 Open	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
43790	ESTOP Latch Status	Int32	n/a	n/a	R	0 = Disabled 1 = Enabled
43792	Gen Breaker Open	Int32	n/a	n/a	RW	1 = Operate (non-latching)
43794	Gen Breaker Close	Int32	n/a	n/a	RW	1 = Operate (non-latching)
43796	Mains Breaker Open	Int32	n/a	n/a	RW	1 = Operate (non-latching)
43798	Mains Breaker Close	Int32	n/a	n/a	RW	1 = Operate (non-latching)

Communication

Register	Description	Type	Units	Scaling Factor	R/W	Range
44008-16	Reserved					
44018	Modem Inter Dialout Activation Delay	Int32	Second	n/a	RW	0 = 15 1 = 30 2 = 60 3 = 120
44020	Modem Pager Buffer Limit	Int32	n/a	n/a	RW	0 = 80 Chars 1 = 120 Chars 2 = 160 Chars 3 = 200 Chars
44022	Modem Pager Coms Data Format	Int32	n/a	n/a	RW	0 = 8 bit, no parity 1 = 7 bit, even parity
44024-30	Reserved					
44032	CANBus Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
44034	DTC Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
44036	Rings for Modem Answer	Int32	n/a	n/a	RW	1 - 9
44038	Modem Offline Delay	Int32	Minute	n/a	RW	1 - 240
44040	Modbus Baud Rate	UInt32	n/a	n/a	RW	1200 = 1200 Baud 2400 = 2400 Baud 4800 = 4800 Baud 9600 = 9600 Baud 19200 = 19200 Baud 38400 = 38400 Baud 57600 = 57600 Baud 115200 = 115200 Baud
44042	Modbus Parity	Int32	n/a	n/a	RW	0 = Even Parity 1 = Odd Parity 2 = No Parity
44044	Modbus Address	Int32	n/a	n/a	RW	1 - 247
44046-49	Reserved					
44050	DHCP Enabled	UInt32	n/a	n/a	R	0 = Disabled 1 = Enabled
44052-56	Reserved					
44058	CEM-2020 Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
44060	Reserved					
44062	AEM-2020 Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
44064	CEM Outputs	Int32	n/a	n/a	RW	0 = 18 Outputs 1 = 24 Outputs
44066-67	Reserved					
44068	Active IP Address	UInt32	n/a	n/a	R	0 - 4294967295
44070	Gateway IP Address	UInt32	n/a	n/a	R	0 - 4294967295
44072	Subnet Mask	UInt32	n/a	n/a	R	0 - 4294967295

Protection

Register	Description	Type	Units	Scaling Factor	R/W	Range
44250	3 Phase Overcurrent Pickup (51-1)	UInt32	CentiAmp	Centi	RW	18 - 775
44252	3 Phase Overcurrent Time Dial (51-1)	UInt32	DeciUnit	Deci	RW	0 - 72000
44254	3 Phase Overcurrent Curve (51-1)	UInt32	n/a	n/a	RW	0 = S1 Curve 1 = S2 Curve 2 = L1 Curve 3 = L2 Curve 4 = D Curve 5 = M Curve 6 = I1 Curve 7 = I2 Curve 8 = V1 Curve 9 = V2 Curve 10 = E1 Curve 11 = E2 Curve 12 = A Curve 13 = B Curve 14 = C Curve 15 = G Curve 16 = F Curve 17 = Programmable
44256	3 Phase Overcurrent Alarm Configuration (51-1)	UInt32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only

Register	Description	Type	Units	Scaling Factor	R/W	Range
44258	1 Phase Overcurrent Pickup (51-1)	Uint32	CentiAmp	Centi	RW	18 - 775
44260	1 Phase Overcurrent Time Dial (51-1)	Uint32	DeciUnit	Deci	RW	0 - 72000
44262	1 Phase Overcurrent Curve (51-1)	Uint32	n/a	n/a	RW	0 = S1 Curve 1 = S2 Curve 2 = L1 Curve 3 = L2 Curve 4 = D Curve 5 = M Curve 6 = I1 Curve 7 = I2 Curve 8 = V1 Curve 9 = V2 Curve 10 = E1 Curve 11 = E2 Curve 12 = A Curve 13 = B Curve 14 = C Curve 15 = G Curve 16 = F Curve 17 = Programmable
44264	1 Phase Overcurrent Alarm Configuration (51-1)	Uint32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only
44266	Phase Imbalance Pickup	Uint32	Volt	n/a	RW	5 - 100
44268	Phase Imbalance Activation Delay	Uint32	Decisecond	Deci	RW	0 - 300
44270	Phase Imbalance Alarm Configuration	Uint32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only
44272	3 Phase Undervoltage Pickup (27-1)	Uint32	Volt	n/a	RW	70 - 576
44274	3 Phase Undervoltage Activation Delay (27-1)	Uint32	Decisecond	Deci	RW	0 - 300
44276	3 Phase Undervoltage Inhibit Frequency (27-1)	Uint32	Hertz	n/a	RW	20 - 90
44278	3 Phase Undervoltage Alarm Configuration (27-1)	Uint32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only
44280	1 Phase Undervoltage Pickup (27-1)	Uint32	Volt	n/a	RW	70 - 576
44282	1 Phase Undervoltage Activation Delay (27-1)	Uint32	Decisecond	Deci	RW	0 - 300
44284	1 Phase Undervoltage Inhibit Frequency (27-1)	Uint32	Hertz	n/a	RW	20 - 90
44286	1 Phase Undervoltage Alarm Configuration (27-1)	Uint32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only
44288	3 Phase Overvoltage Pickup (59-1)	Uint32	Volt	n/a	RW	70 - 576
44290	3 Phase Overvoltage Activation Delay (59-1)	Uint32	Decisecond	Deci	RW	0 - 300
44292	3 Phase Overvoltage Alarm Configuration (59-1)	Uint32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only
44294	1 Phase Overvoltage Pickup (59-1)	Uint32	Volt	n/a	RW	70 - 576
44296	1 Phase Overvoltage Activation Delay (59-1)	Uint32	Decisecond	Deci	RW	0 - 300
44298	1 Phase Overvoltage Alarm Configuration (59-1)	Uint32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only
44300	Underfrequency Pickup	Uint32	DeciHertz	Deci	RW	450 - 4400
44302	Underfrequency Activation Delay	Uint32	Decisecond	Deci	RW	0 - 300
44304	Underfrequency Inhibit Voltage	Uint32	Hertz	n/a	RW	20 - 90
44306	Underfrequency Alarm Configuration	Uint32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
44308	Overfrequency Pickup	Uint32	DeciHertz	Deci	RW	450 - 4400
44310	Overfrequency Activation Delay	Uint32	Decisecond	Deci	RW	0 - 300
44312	Overfrequency Alarm Configuration	Uint32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
44314	Overcurrent Low Line Scale Factor (51-1)	Float	n/a	n/a	RW	0.001 - 3
44316	Overvoltage Low Line Scale Factor (59-1)	Float	n/a	n/a	RW	0.001 - 3
44318	Undervoltage Low Line Scale Factor (27-1)	Float	n/a	n/a	RW	0.001 - 3
44320	3 Phase Overcurrent Pickup (51-2)	Uint32	CentiAmp	Centi	RW	18 - 775
44322	3 Phase Overcurrent Time Dial (51-2)	Uint32	DeciUnit	Deci	RW	0 - 72000

Register	Description	Type	Units	Scaling Factor	R/W	Range
44324	3 Phase Overcurrent Curve (51-2)	UInt32	n/a	n/a	RW	0 = S1 Curve 1 = S2 Curve 2 = L1 Curve 3 = L2 Curve 4 = D Curve 5 = M Curve 6 = I1 Curve 7 = I2 Curve 8 = V1 Curve 9 = V2 Curve 10 = E1 Curve 11 = E2 Curve 12 = A Curve 13 = B Curve 14 = C Curve 15 = G Curve 16 = F Curve 17 = Programmable
44326	3 Phase Overcurrent Alarm Configuration (51-2)	UInt32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only
44328	1 Phase Overcurrent Pickup (51-2)	UInt32	CentiAmp	Centi	RW	18 - 775
44330	1 Phase Overcurrent Time Dial (51-2)	UInt32	DeciUnit	Deci	RW	0 - 72000
44332	1 Phase Overcurrent Curve (51-2)	UInt32	n/a	n/a	RW	0 = S1 Curve 1 = S2 Curve 2 = L1 Curve 3 = L2 Curve 4 = D Curve 5 = M Curve 6 = I1 Curve 7 = I2 Curve 8 = V1 Curve 9 = V2 Curve 10 = E1 Curve 11 = E2 Curve 12 = A Curve 13 = B Curve 14 = C Curve 15 = G Curve 16 = F Curve 17 = Programmable
44334	1 Phase Overcurrent Alarm Configuration (51-2)	UInt32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only
44336	3 Phase Undervoltage Pickup (27-2)	UInt32	Volt	n/a	RW	70 - 576
44338	3 Phase Undervoltage Activation Delay (27-2)	UInt32	Decisecond	Deci	RW	0 - 300
44340	3 Phase Undervoltage Inhibit Frequency (27-2)	UInt32	Hertz	n/a	RW	20 - 90
44342	3 Phase Undervoltage Alarm Configuration (27-2)	UInt32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only
44344	1 Phase Undervoltage Pickup (27-2)	UInt32	Volt	n/a	RW	70 - 576
44346	1 Phase Undervoltage Activation Delay (27-2)	UInt32	Decisecond	Deci	RW	0 - 300
44348	1 Phase Undervoltage Inhibit Frequency (27-2)	UInt32	Hertz	n/a	RW	20 - 90
44350	1 Phase Undervoltage Alarm Configuration (27-2)	UInt32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only
44352	3 Phase Overvoltage Pickup (59-2)	UInt32	Volt	n/a	RW	70 - 576
44354	3 Phase Overvoltage Activation Delay (59-2)	UInt32	Decisecond	Deci	RW	0 - 300
44356	3 Phase Overvoltage Alarm Configuration (59-2)	UInt32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only
44358	1 Phase Overvoltage Pickup (59-2)	UInt32	Volt	n/a	RW	70 - 576
44360	1 Phase Overvoltage Activation Delay (59-2)	UInt32	Decisecond	Deci	RW	0 - 300
44362	1 Phase Overvoltage Alarm Configuration (59-2)	UInt32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only
44364	Overcurrent Low Line Scale Factor (51-2)	Float	n/a	n/a	RW	0.001 - 3
44366	Overvoltage Low Line Scale Factor (59-2)	Float	n/a	n/a	RW	0.001 - 3
44368	Undervoltage Low Line Scale Factor (27-2)	Float	n/a	n/a	RW	0.001 - 3
44370-91	Reserved					
44392	3 Phase Reverse Power Pickup	Int32	DeciPercent	Deci	RW	50 - 500
44394	3 Phase Reverse Power Activation Delay	UInt32	Decisecond	Deci	RW	0 - 300

Register	Description	Type	Units	Scaling Factor	R/W	Range
44396	3 Phase Reverse Power Alarm Configuration	Uint32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only
44398	Reserved					
44400	1 Phase Reverse Power Pickup	Int32	DeciPercent	Deci	RW	50 - 500
44402	1 Phase Reverse Power Activation Delay	Uint32	Decisecond	Deci	RW	0 - 300
44404	1 Phase Reverse Power Alarm Configuration	Uint32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only
44406	Reserved					
44408	3 Phase Loss of Excitation Pickup	Int32	DeciPercent	Deci	RW	(-1500) - 0
44410	3 Phase Loss of Excitation Activation Delay	Uint32	Decisecond	Deci	RW	0 - 300
44412	3 Phase Loss of Excitation Alarm Configuration	Uint32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only
44414	Reserved					
44416	1 Phase Loss of Excitation Pickup	Int32	DeciPercent	Deci	RW	(-1500) - 0
44418	1 Phase Loss of Excitation Activation Delay	Uint32	Decisecond	Deci	RW	0 - 300
44420	1 Phase Loss of Excitation Alarm Configuration	Uint32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only
44422	Reserved					
44424	3 Phase Overcurrent Reset Type (51-1)	Int32	n/a	n/a	RW	0 = Instantaneous 1 = Integrating
44426	1 Phase Overcurrent Reset Type (51-1)	Int32	n/a	n/a	RW	0 = Instantaneous 1 = Integrating
44428	3 Phase Overcurrent Reset Type (51-2)	Int32	n/a	n/a	RW	0 = Instantaneous 1 = Integrating
44430	1 Phase Overcurrent Reset Type (51-2)	Int32	n/a	n/a	RW	0 = Instantaneous 1 = Integrating
44432	51-1 Curve Constant A	Float	n/a	n/a	RW	0 - 600
44434	51-1 Curve Constant B	Float	n/a	n/a	RW	0 - 25
44436	51-1 Curve Constant C	Float	n/a	n/a	RW	0 - 1
44438	51-1 Curve Constant N	Float	n/a	n/a	RW	0.5 - 2.5
44440	51-1 Curve Constant R	Float	n/a	n/a	RW	0 - 30
44442	51-2 Curve Constant A	Float	n/a	n/a	RW	0 - 600
44444	51-2 Curve Constant B	Float	n/a	n/a	RW	0 - 25
44446	51-2 Curve Constant C	Float	n/a	n/a	RW	0 - 1
44448	51-2 Curve Constant N	Float	n/a	n/a	RW	0.5 - 2.5
44450	51-2 Curve Constant R	Float	n/a	n/a	RW	0 - 30
44452	3 Phase Overcurrent Pickup (51-3)	Uint32	CentiAmp	Centi	RW	18 - 775
44454	3 Phase Overcurrent Time Dial (51-3)	Uint32	DeciUnit	Deci	RW	0 - 72000
44456	3 Phase Overcurrent Curve (51-3)	Uint32	n/a	n/a	RW	0 = S1 Curve 1 = S2 Curve 2 = L1 Curve 3 = L2 Curve 4 = D Curve 5 = M Curve 6 = I1 Curve 7 = I2 Curve 8 = V1 Curve 9 = V2 Curve 10 = E1 Curve 11 = E2 Curve 12 = A Curve 13 = B Curve 14 = C Curve 15 = G Curve 16 = F Curve 17 = Programmable
44458	3 Phase Overcurrent Alarm Configuration (51-3)	Uint32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only
44460	1 Phase Overcurrent Pickup (51-3)	Uint32	CentiAmp	Centi	RW	18 - 775
44462	1 Phase Overcurrent Time Dial (51-3)	Uint32	DeciUnit	Deci	RW	0 - 72000

Register	Description	Type	Units	Scaling Factor	R/W	Range
44464	1 Phase Overcurrent Curve (51-3)	Uint32	n/a	n/a	RW	0 = S1 Curve 1 = S2 Curve 2 = L1 Curve 3 = L2 Curve 4 = D Curve 5 = M Curve 6 = I1 Curve 7 = I2 Curve 8 = V1 Curve 9 = V2 Curve 10 = E1 Curve 11 = E2 Curve 12 = A Curve 13 = B Curve 14 = C Curve 15 = G Curve 16 = F Curve 17 = Programmable
44466	1 Phase Overcurrent Alarm Configuration (51-3)	Uint32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only
44468	Overcurrent Low Line Scale Factor (51-3)	Float	n/a	n/a	RW	0.001 - 3
44470	3 Phase Overcurrent Reset Type (51-3)	Int32	n/a	n/a	RW	0 = Instantaneous 1 = Integrating
44472	1 Phase Overcurrent Reset Type (51-3)	Int32	n/a	n/a	RW	0 = Instantaneous 1 = Integrating
44474	51-3 Curve Constant A	Float	n/a	n/a	RW	0 - 600
44476	51-3 Curve Constant B	Float	n/a	n/a	RW	0 - 25
44478	51-3 Curve Constant C	Float	n/a	n/a	RW	0 - 1
44480	51-3 Curve Constant N	Float	n/a	n/a	RW	0.5 - 2.5
44482	51-3 Curve Constant R	Float	n/a	n/a	RW	0 - 30
44484	78 Vector Shift Alarm Config	Uint32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only
44486	78 Vector Shift Pickup	Int32	Degree	n/a	RW	2 - 90
44488	78 Open Mains Breaker on Trip	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
44490	81 ROCOF Alarm Config	Uint32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm 3 = Status Only
44492	81 ROCOF Pickup	Uint32	Hz/Second	Deci	RW	2 - 100
44494	81 ROCOF Activation Delay	Uint32	Second	Milli	RW	0 - 10000
44496	81 ROCOF Open Mains Breaker on Trip	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
44498	Alternate Frequency Scale Factor	Float	n/a	n/a	RW	0.001 - 100

Alarms

Register	Description	Type	Units	Scaling Factor	R/W	Range
44500	High Coolant Temp Alarm Enable	Uint32	n/a	n/a	RW	0 = Disable 1 = Enable
44502	High Coolant Temp Alarm Threshold	Uint32	Deg F	n/a	RW	100 - 280
44504	Metric High Coolant Temp Alarm Threshold	Int32	Deg C	n/a	RW	38 - 138
44506	High Coolant Temp Alarm Activation Delay	Uint32	Second	n/a	RW	0 - 150
44508	Low Oil Press. Alarm Enable	Uint32	n/a	n/a	RW	0 = Disable 1 = Enable
44510	Low Oil Press. Alarm Threshold	Uint32	PSI	Deci	RW	29 - 1500
44512	Metric Low Oil Press. Alarm Threshold	Uint32	kPa	Deci	RW	200 - 10345
44514	Low Oil Press. Alarm Arming Delay	Uint32	Second	n/a	RW	5 - 60
44516	Overspeed Alarm Enable	Uint32	n/a	n/a	RW	0 = Disable 1 = Enable
44518	Overspeed Alarm Threshold	Uint32	Percent	n/a	RW	105 - 140
44520	Overspeed Alarm Activation Delay	Uint32	Millisecond	Milli	RW	0 - 500
44522	Low Fuel Level Alarm Enable	Uint32	n/a	n/a	RW	0 = Disable 1 = Enable
44524	Low Fuel Level Alarm Threshold	Uint32	Percent	n/a	RW	0 - 100
44526	Low Fuel Level Alarm Activation Delay	Int32	Second	n/a	RW	0 - 30
44528	High Coolant Temp Pre-Alarm Enable	Uint32	n/a	n/a	RW	0 = Disable 1 = Enable
44530	High Coolant Temp Pre-Alarm Threshold	Uint32	Deg F	n/a	RW	100 - 280
44532	Metric High Coolant Temp Pre-Alarm Threshold	Int32	Deg C	n/a	RW	38 - 138
44534	Low Coolant Temp Pre-Alarm Enable	Uint32	n/a	n/a	RW	0 = Disable 1 = Enable
44536	Low Coolant Temp Pre-Alarm Threshold	Uint32	Deg F	n/a	RW	35 - 151
44538	Metric Low Coolant Temp Pre-Alarm Threshold	Int32	Deg C	n/a	RW	2 - 66

Register	Description	Type	Units	Scaling Factor	R/W	Range
44540	High Fuel Level Pre-Alarm Threshold	Int32	Percent	n/a	RW	0 - 150
44542	High Fuel Level Pre-Alarm Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
44544	High Fuel Level Pre-Alarm Activation Delay	Int32	Second	n/a	RW	0 - 30
44546	Low Fuel Level Pre-Alarm Enable	UInt32	n/a	n/a	RW	0 = Disable 1 = Enable
44548	Low Fuel Level Pre-Alarm Threshold	UInt32	Percent	n/a	RW	10 - 100
44550	Low Battery Pre-Alarm Enable	UInt32	n/a	n/a	RW	0 = Disable 1 = Enable
44552	Low Battery Pre-Alarm Threshold	UInt32	DeciVolt	Deci	RW	60 - 280
44554	Low Battery Pre-Alarm Activation Delay	UInt32	Second	n/a	RW	1 - 10
44556	Weak Battery Pre-Alarm Enable	UInt32	n/a	n/a	RW	0 = Disable 1 = Enable
44558	Weak Battery Pre-Alarm Threshold	UInt32	DeciVolt	Deci	RW	40 - 280
44560	Weak Battery Pre-Alarm Activation Delay	UInt32	Second	Deci	RW	0 - 100
44562	Battery Overvoltage Pre-Alarm Enable	UInt32	n/a	n/a	RW	0 = Disable 1 = Enable
44564	Low Oil Press. Pre-Alarm Enable	UInt32	n/a	n/a	RW	0 = Disable 1 = Enable
44566	Low Oil Press. Pre-Alarm Threshold	UInt32	PSI	Deci	RW	29 - 1500
44568	Metric Low Oil Press. Pre-Alarm Threshold	Int32	kPa	Deci	RW	20 - 10345
44570-73	Reserved	UInt32	n/a	n/a	RW	0 = Disable 1 = Enable
44574	ECU Comms Fail Pre-Alarm Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
44576	Active DTC Pre-Alarm Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
44578	Maintenance Interval Pre-Alarm Enable	UInt32	n/a	n/a	RW	0 = Disable 1 = Enable
44580	Maintenance Interval Pre-Alarm Threshold	UInt32	Hour	n/a	RW	0 - 5000
44582	Speed Sender Fail Activation Delay	Int32	Second	n/a	RW	0 - 300
44584	ECU Low Coolant Level Alarm Enable	UInt32	n/a	n/a	RW	0 = Disable 1 = Enable
44586	ECU Low Coolant Level Alarm Threshold	UInt32	Percent	n/a	RW	1 - 99
44588	ECU Low Coolant Level Pre-Alarm Enable	UInt32	n/a	n/a	RW	0 = Disable 1 = Enable
44590	ECU Low Coolant Level Pre-Alarm Threshold	UInt32	Percent	n/a	RW	1 - 99
44592	Battery Overvoltage Alarm Threshold	Int32	DeciVolt	Deci	RW	120 - 320
44594-627	Reserved					
44628	Intergenset Comm Failure Pre-alarm Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
44630	AVR Bias Output Limit Pre-alarm Activation Delay	Int32	Second	n/a	RW	1 - 15
44632	AVR Bias Output Limit Pre-alarm Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
44634	GOV Bias Output Limit Pre-alarm Activation Delay	Int32	Second	n/a	RW	1 - 15
44636	GOV Bias Output Limit Pre-alarm Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
44638	ID Missing Pre-alarm Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
44640	ID Repeat Pre-alarm Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
44642	CEM Comm Failure Pre-alarm Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
44644	AEM Comm Failure Pre-alarm Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
44646	Reserved					
44648	Low Oil Pressure Alarm (metric pressure units is Bar)	Int32	Bar	Deci	RW	2 - 103
44650	Low Oil Pressure Pre-Alarm (metric pressure units is Bar)	Int32	Bar	Deci	RW	2 - 103
44652	Sync Fail Pre-alarm Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
44654	Breaker Close Fail Pre-Alarm Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
44656	Breaker Open Fail Pre-Alarm Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
44658	Breaker Close Fail Pre-Alarm Monitor	Int32	n/a	n/a	RW	0 = Transitions Only 1 = Always
44660	Breaker Open Fail Pre-Alarm Monitor	Int32	n/a	n/a	RW	0 = Transitions Only 1 = Always
44662	Reverse Rotation Pre-Alarm Enable	UInt32	n/a	n/a	RW	0 = Disable 1 = Enable

Metering

Register	Description	Type	Units	Scaling Factor	R/W	Range
44750	Gen VAB Metering	Int32	Volt	n/a	R	(-2147483648) - 2147483647
44752	Gen VBC Metering	Int32	Volt	n/a	R	(-2147483648) - 2147483647

Register	Description	Type	Units	Scaling Factor	R/W	Range
44754	Gen VCA Metering	Int32	Volt	n/a	R	(-2147483648) - 2147483647
44756	Gen VAN Metering	Int32	Volt	n/a	R	(-2147483648) - 2147483647
44758	Gen VBN Metering	Int32	Volt	n/a	R	(-2147483648) - 2147483647
44760	Gen VCN Metering	Int32	Volt	n/a	R	(-2147483648) - 2147483647
44762	Bus Voltage Metering	Int32	Volt	n/a	R	(-2147483648) - 2147483647
44764	Gen IA Metering	Int32	Amp	n/a	R	(-32768) - 32767
44766	Gen IB Metering	Int32	Amp	n/a	R	(-32768) - 32767
44768	Gen IC Metering	Int32	Amp	n/a	R	(-32768) - 32767
44770	Gen kVA A Metering	Int32	kiloVA	n/a	R	(-2147483648) - 2147483647
44772	Gen kVA B Metering	Int32	kiloVA	n/a	R	(-2147483648) - 2147483647
44774	Gen kVA C Metering	Int32	kiloVA	n/a	R	(-2147483648) - 2147483647
44776	Gen kVA Total Metering	Int32	kiloVA	n/a	R	(-2147483648) - 2147483647
44778	Gen kW A Metering	Int32	kilowatt	n/a	R	(-2147483648) - 2147483647
44780	Gen kW B Metering	Int32	kilowatt	n/a	R	(-2147483648) - 2147483647
44782	Gen kW C Metering	Int32	kilowatt	n/a	R	(-2147483648) - 2147483647
44784	Gen kW Total Metering	Int32	kilowatt	n/a	R	(-2147483648) - 2147483647
44786	Power Factor Metering	Float	n/a	n/a	R	(-1) - 1
44788	Gen PF Lagging	Int32	n/a	n/a	R	(-128) - 127
44790	Gen Frequency Metering	Float	Hertz	n/a	R	45 - 440
44792	Bus Frequency Metering	Float	Hertz	n/a	R	45 - 440
44794	Active Speed Source	UInt32	n/a	n/a	R	1 = Magnetic Pickup 2 = Gen Freq 3 = MPU/Gen Freq
44796	Engine Speed Metering	UInt32	RPM	n/a	R	0 - 65535
44798	Engine Load Metering	Int32	Percent	n/a	R	(-32768) - 32767
44800	Coolant Temp. Metering	Int32	Deg F	n/a	R	(-32768) - 32767
44802	Oil Pressure Metering	Int32	PSI	n/a	R	(-32768) - 32767
44804	Battery Voltage Metering	Int32	DeciVolt	n/a	R	(-32768) - 32767
44806	Fuel Level Metering	Int32	n/a	n/a	R	(-32768) - 32767
44808	ECU Coolant Level Metering	UInt32	n/a	n/a	R	0 - 255
44810	Cool Down Time Remaining	Int32	Minute	n/a	R	(-128) - 127
44812-13	Alarm Metering	Int32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Unexpected Shutdown Bit 17 = Global Alarm Bit 18 = Auto Restart Failure Bit 19 = Fuel Leak Detect Bit 20 = Battery Charger Failure Bit 21 = Transfer Fail Bit 22 = Low Coolant Level Bit 23 = ECU Shutdown Bit 24 = Emergency Shutdown Bit 25 = Overcrank Bit 26 = Loss of ECU Comms Bit 27 = Global Sender Fail Bit 28 = Low Fuel Level Bit 29 = Low Oil Pressure Bit 30 = Hi Coolant Temp Bit 31 = Overspeed

Register	Description	Type	Units	Scaling Factor	R/W	Range
44814-15	Pre-Alarm Metering 1	Int32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Global Pre-Alarm Bit 5 = Fuel Filter 2 Leak Bit 6 = Fuel Filter 1 Leak Bit 7 = Engine kW Overload 3 Bit 8 = Engine kW Overload 2 Bit 9 = MPU Fail Bit 10 = Fuel Leak Detect Bit 11 = Battery Charger Failure Bit 12 = Low Coolant Level Bit 13 = Mains Brkr Fail to Open Bit 14 = Mains Brkr Fail to Close Bit 15 = Sync Fail at Mains Brkr Bit 16 = Gen Brkr Fail to Open Bit 17 = Gen Brkr Fail to Close Bit 18 = Sync Fail at Gen Brkr Bit 19 = High Fuel Level Bit 20 = Loss of Rem. Mod. Com Bit 21 = Engine kW Overload Bit 22 = Diagnostic Trouble Code Bit 23 = Loss of ECU Comms Bit 24 = Maintenance Due Bit 25 = Battery Overvoltage Bit 26 = Weak Battery Bit 27 = Low Battery Voltage Bit 28 = Low Coolant Temp Bit 29 = Low Fuel Level Bit 30 = Low Oil Pressure Bit 31 = Hi Coolant Temp
44816-17	MTU Alarm Metering	Int32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = Not Used Bit 19 = Not Used Bit 20 = Not Used Bit 21 = Not Used Bit 22 = Not Used Bit 23 = High ECU Supply Bit 24 = Combined Red Bit 25 = Overspeed Bit 26 = Low Oil Pressure Bit 27 = Low Fuel Delivery Press. Bit 28 = Low Aftercooler Coolant Level Bit 29 = High Coolant Temp Bit 30 = High Oil Temp Bit 31 = High Charge Air Temp

Register	Description	Type	Units	Scaling Factor	R/W	Range
44818-19	MTU Pre-Alarm Metering	Int32	n/a	n/a	R	Bit 0 = Low Storage Tank Bit 1 = High Storage Tank Bit 2 = Low Day Tank Bit 3 = High Day Tank Bit 4 = Alternator Winding Temp Bit 5 = Idle Speed Low Bit 6 = Run Up Speed Low Bit 7 = Start Speed Low Bit 8 = Priming Fault Bit 9 = Low Charge Air Coolant Level Bit 10 = High Fuel Temp. Bit 11 = High Exhaust Temp. B Bit 12 = High Exhaust Temp. A Bit 13 = Low ECU Supply Voltage Bit 14 = Engine Speed Too Low Bit 15 = High Voltage Supply Bit 16 = Low Voltage Supply Bit 17 = Speed Demand Fail Bit 18 = ECU Faulty Bit 19 = Combined Yellow Bit 20 = Low Oil Press. Bit 21 = Low Fuel Delivery Press. Bit 22 = Low Charge Air Press. Bit 23 = Low Coolant Level Bit 24 = Low Fuel Rail Press. Bit 25 = High Fuel Rail Press. Bit 26 = Shutdown Override Bit 27 = High Coolant Temp. Bit 28 = High Charge Air Temp. Bit 29 = High Intercooler Temp. Bit 30 = High Oil Temp. Bit 31 = High ECU Temp.
44820-21	Sender Fail Alarm Metering	Int32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = Not Used Bit 19 = Not Used Bit 20 = Not Used Bit 21 = Not Used Bit 22 = Not Used Bit 23 = Not Used Bit 24 = Not Used Bit 25 = Not Used Bit 26 = Not Used Bit 27 = Generator Voltage Bit 28 = Fuel Level Bit 29 = Coolant Temp Bit 30 = Oil Pressure Bit 31 = Speed
44822-26	Reserved					

Register	Description	Type	Units	Scaling Factor	R/W	Range
44828-29	Local Input Metering	Int32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Input 16 Bit 17 = Input 15 Bit 18 = Input 14 Bit 19 = Input 13 Bit 20 = Input 12 Bit 21 = Input 11 Bit 22 = Input 10 Bit 23 = Input 9 Bit 24 = Input 8 Bit 25 = Input 7 Bit 26 = Input 6 Bit 27 = Input 5 Bit 28 = Input 4 Bit 29 = Input 3 Bit 30 = Input 2 Bit 31 = Input 1
44830-31	Local Output Metering	Int32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Pre Start Output Bit 18 = Run Output Bit 19 = Start Output Bit 20 = Output 12 Bit 21 = Output 11 Bit 22 = Output 10 Bit 23 = Output 9 Bit 24 = Output 8 Bit 25 = Output 7 Bit 26 = Output 6 Bit 27 = Output 5 Bit 28 = Output 4 Bit 29 = Output 3 Bit 30 = Output 2 Bit 31 = Output 1

Register	Description	Type	Units	Scaling Factor	R/W	Range
44832-33	Status Metering 1	Int32	n/a	n/a	R	Bit 0 = Idle Request Bit 1 = Lamp Test Bit 2 = Alarm Silence Bit 3 = Reset Bit 4 = Alternate Frequency Override Bit 5 = Start Delay Bypass Bit 6 = Cooldown and Stop Request from Logic Bit 7 = Cooldown Request from Logic Bit 8 = External Start Delay Bit 9 = Off Mode Cooldown Bit 10 = PF Mode Active Bit 11 = Var Mode Active Bit 12 = Cooldown Timer Active Bit 13 = Engine Running Bit 14 = Fuel Leak Detect Bit 15 = Battery Charger Failure Bit 16 = Low Coolant Level Bit 17 = Gen Failed Bit 18 = Gen Stable Bit 19 = Gen Dead Bit 20 = Bus Failed Bit 21 = Bus Stable Bit 22 = Bus Dead Bit 23 = Gen Breaker Closed Bit 24 = Mains Breaker Closed Bit 25 = Grounded Delta Override Bit 26 = Battle Override Bit 27 = Auto Transfer Switch Bit 28 = Low Line Override Bit 29 = Single-Phase AC Override Bit 30 = Single-Phase Override Bit 31 = EPS Supplying Load
44834	Hours Until Maintenance	Int32	n/a	n/a	RW	0 - 5000
44836	Cum. Total Engine Run Hrs.	Int32	Hour	n/a	R	0 - 99999
44838	Cum. Total Engine Run Min.	Int32	n/a	n/a	R	0 - 59
44840	Cum. Loaded Engine Run Hrs.	Int32	n/a	n/a	R	0 - 99999
44842	Cum. Loaded Engine Run Min.	Int32	n/a	n/a	R	0 - 59
44844	Cum. Unloaded Engine Run Hrs.	Int32	Hour	n/a	R	0 - 99999
44846	Cum. Unloaded Engine Run Min.	Int32	n/a	n/a	R	0 - 59
44848	Cum. Total kW-Hrs	UInt32	kilowatt-hour	n/a	R	0 - 999999999
44850	Reserved					
44852	Commission Date Month	UInt32	n/a	n/a	RW	1 - 12
44854	Commission Date Day	UInt32	n/a	n/a	RW	1 - 31
44856	Commission Date Year	UInt32	n/a	n/a	RW	0 - 99
44858	Session Total Engine Run Hrs.	Int32	Hour	n/a	R	0 - 99999
44860	Session Total Engine Run Min.	Int32	n/a	n/a	R	0 - 59
44862	Session Loaded Engine Run Hrs.	Int32	Hour	n/a	R	0 - 99999
44864	Session Loaded Engine Run Min.	Int32	n/a	n/a	R	0 - 59
44866	Session Unloaded Engine Run Hrs.	Int32	Hour	n/a	R	0 - 99999
44868	Session Unloaded Engine Run Min.	Int32	n/a	n/a	R	0 - 59
44870	Session kW-Hrs	Int32	kilowatt-hour	n/a	R	0 - 999999999
44872	Cumulative Number of Engine Starts	UInt32	n/a	n/a	RW	0 - 65535
44874	Session Start Date Month	UInt32	n/a	n/a	RW	1 - 12
44876	Session Start Date Day	UInt32	n/a	n/a	RW	1 - 31
44878	Session Start Date Year	UInt32	n/a	n/a	RW	0 - 99
44880	Generator Status	UInt32	n/a	n/a	R	0 = RESET State 1 = READY State 2 = CRANKING State 3 = RESTING State 4 = RUNNING State 5 = ALARM State 6 = PRESTART State 7 = COOLING State 8 = CONNECTING State 9 = DISCONNECT State 10 = PULSING State 11 = UNLOADING State
44882-932	Reserved					

Register	Description	Type	Units	Scaling Factor	R/W	Range
44934-35	Protection Alarm Metering	Int32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = 81 ROC DF/DT Trip Bit 19 = 78 Vector Shift Trip Bit 20 = 51-3 Overcurrent Bit 21 = 40Q Loss of Excitation Bit 22 = 32 Reverse Power Bit 23 = 59-2 Overvoltage Bit 24 = 27-2 Undervoltage Bit 25 = 51-2 Overcurrent Bit 26 = 81 Underfrequency Bit 27 = 81 Overfrequency Bit 28 = 59-1 Overvoltage Bit 29 = 27-1 Undervoltage Bit 30 = 47 Phase Imbalance Bit 31 = 51-1 Overcurrent
44936	Cumulative Stats - Total Run Hours	UInt32	Hour	n/a	RW	0 - 5999940
44938	Cumulative Stats - Loaded Run Hours	UInt32	Hour	n/a	RW	0 - 5999940
44940	Cumulative Stats - Unloaded Run Hours	UInt32	Hour	n/a	RW	0 - 5999940
44942	Run Stats - Total Run Hours	UInt32	Hour	n/a	RW	0 - 5999940
44944	Run Stats - Loaded Run Hours	UInt32	Hour	n/a	RW	0 - 5999940
44946	Run Stats - Unloaded Run Hours	UInt32	Hour	n/a	RW	0 - 5999940
44948-49	Control Alarm Bits	UInt32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = Not Used Bit 19 = Not Used Bit 20 = Not Used Bit 21 = Not Used Bit 22 = Not Used Bit 23 = Not Used Bit 24 = Not Used Bit 25 = Not Used Bit 26 = ID Repeat Bit 27 = ID Missing Bit 28 = Not Used Bit 29 = Intergenset Comms Failure Bit 30 = GOV Output Limit Bit 31 = AVR Output Limit
44950	Global Alarm	UInt32	n/a	n/a	R	Bit 0 = No system alarms in effect Bit 1 = System alarm(s) in effect
44952	Global Pre-Alarm	UInt32	n/a	n/a	R	Bit 0 = No system pre-alarms in effect Bit 1 = System pre-alarm(s) in effect

Register	Description	Type	Units	Scaling Factor	R/W	Range
44954-55	Local Configurable Inputs Pre-Alarm Bits	Int32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Input 16 Bit 17 = Input 15 Bit 18 = Input 14 Bit 19 = Input 13 Bit 20 = Input 12 Bit 21 = Input 11 Bit 22 = Input 10 Bit 23 = Input 9 Bit 24 = Input 8 Bit 25 = Input 7 Bit 26 = Input 6 Bit 27 = Input 5 Bit 28 = Input 4 Bit 29 = Input 3 Bit 30 = Input 2 Bit 31 = Input 1
44956-57	Local Configurable Inputs Alarm Bits	Int32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Input 16 Bit 17 = Input 15 Bit 18 = Input 14 Bit 19 = Input 13 Bit 20 = Input 12 Bit 21 = Input 11 Bit 22 = Input 10 Bit 23 = Input 9 Bit 24 = Input 8 Bit 25 = Input 7 Bit 26 = Input 6 Bit 27 = Input 5 Bit 28 = Input 4 Bit 29 = Input 3 Bit 30 = Input 2 Bit 31 = Input 1

Register	Description	Type	Units	Scaling Factor	R/W	Range
44958-59	Configurable Elements Status Bits	Int32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = Not Used Bit 19 = Not Used Bit 20 = Not Used Bit 21 = Not Used Bit 22 = Not Used Bit 23 = Not Used Bit 24 = Config Element 8 Bit 25 = Config Element 7 Bit 26 = Config Element 6 Bit 27 = Config Element 5 Bit 28 = Config Element 4 Bit 29 = Config Element 3 Bit 30 = Config Element 2 Bit 31 = Config Element 1
44960-61	Configurable Elements Pre-Alarm Bits	Int32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = Not Used Bit 19 = Not Used Bit 20 = Not Used Bit 21 = Not Used Bit 22 = Not Used Bit 23 = Not Used Bit 24 = Config Element 8 Bit 25 = Config Element 7 Bit 26 = Config Element 6 Bit 27 = Config Element 5 Bit 28 = Config Element 4 Bit 29 = Config Element 3 Bit 30 = Config Element 2 Bit 31 = Config Element 1

Register	Description	Type	Units	Scaling Factor	R/W	Range
44962-63	Configurable Elements Alarm Bits	Int32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = Not Used Bit 19 = Not Used Bit 20 = Not Used Bit 21 = Not Used Bit 22 = Not Used Bit 23 = Not Used Bit 24 = Config Element 8 Bit 25 = Config Element 7 Bit 26 = Config Element 6 Bit 27 = Config Element 5 Bit 28 = Config Element 4 Bit 29 = Config Element 3 Bit 30 = Config Element 2 Bit 31 = Config Element 1
44964-65	Remote Inputs Status Bits	Int32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = Not Used Bit 19 = Not Used Bit 20 = Not Used Bit 21 = Not Used Bit 22 = Remote Input 26 Bit 23 = Remote Input 25 Bit 24 = Remote Input 24 Bit 25 = Remote Input 23 Bit 26 = Remote Input 22 Bit 27 = Remote Input 21 Bit 28 = Remote Input 20 Bit 29 = Remote Input 19 Bit 30 = Remote Input 18 Bit 31 = Remote Input 17

Register	Description	Type	Units	Scaling Factor	R/W	Range
44966-67	Remote Outputs Status Bits	Int32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Remote Output 36 Bit 9 = Remote Output 35 Bit 10 = Remote Output 34 Bit 11 = Remote Output 33 Bit 12 = Remote Output 32 Bit 13 = Remote Output 31 Bit 14 = Remote Output 30 Bit 15 = Remote Output 29 Bit 16 = Remote Output 28 Bit 17 = Remote Output 27 Bit 18 = Remote Output 26 Bit 19 = Remote Output 25 Bit 20 = Remote Output 24 Bit 21 = Remote Output 23 Bit 22 = Remote Output 22 Bit 23 = Remote Output 21 Bit 24 = Remote Output 20 Bit 25 = Remote Output 19 Bit 26 = Remote Output 18 Bit 27 = Remote Output 17 Bit 28 = Remote Output 16 Bit 29 = Remote Output 15 Bit 30 = Remote Output 14 Bit 31 = Remote Output 13
44968-69	CEM Alarm Bits	Uint32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = Not Used Bit 19 = Not Used Bit 20 = Not Used Bit 21 = Not Used Bit 22 = Not Used Bit 23 = Not Used Bit 24 = Not Used Bit 25 = Not Used Bit 26 = Not Used Bit 27 = Not Used Bit 28 = Not Used Bit 29 = CEM Hardware Mismatch Bit 30 = Duplicate CEM Bit 31 = CEM Comm Fail

Register	Description	Type	Units	Scaling Factor	R/W	Range
44970-71	Remote Configurable Inputs Pre-Alarm Bits	UInt32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = Not Used Bit 19 = Not Used Bit 20 = Not Used Bit 21 = Not Used Bit 22 = Remote Input 26 Bit 23 = Remote Input 25 Bit 24 = Remote Input 24 Bit 25 = Remote Input 23 Bit 26 = Remote Input 22 Bit 27 = Remote Input 21 Bit 28 = Remote Input 20 Bit 29 = Remote Input 19 Bit 30 = Remote Input 18 Bit 31 = Remote Input 17
44972-73	Remote Configurable Inputs Alarm Bits	UInt32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = Not Used Bit 19 = Not Used Bit 20 = Not Used Bit 21 = Not Used Bit 22 = Remote Input 26 Bit 23 = Remote Input 25 Bit 24 = Remote Input 24 Bit 25 = Remote Input 23 Bit 26 = Remote Input 22 Bit 27 = Remote Input 21 Bit 28 = Remote Input 20 Bit 29 = Remote Input 19 Bit 30 = Remote Input 18 Bit 31 = Remote Input 17

Register	Description	Type	Units	Scaling Factor	R/W	Range
44974-75	AEM Alarm Bits	Uint32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = Not Used Bit 19 = Not Used Bit 20 = Not Used Bit 21 = Not Used Bit 22 = Not Used Bit 23 = Not Used Bit 24 = Not Used Bit 25 = Not Used Bit 26 = Not Used Bit 27 = Not Used Bit 28 = Not Used Bit 29 = Not Used Bit 30 = Duplicate AEM Bit 31 = AEM Comm Fail
44976	Slip Frequency	Int32	Hertz	Centi	R	(-32768) - 32767
44978	Slip Angle	Int32	DeciUnit	Deci	R	(-32768) - 32767
44980	Voltage Difference	Int32	Volt	n/a	R	(-2147483648) - 2147483647
44982-83	MDEC Pre-Alarms	Int32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = Not Used Bit 19 = Not Used Bit 20 = Not Used Bit 21 = Not Used Bit 22 = Not Used Bit 23 = Not Used Bit 24 = High Fuel Filter Diff Pressure Bit 25 = Overspeed Test On Bit 26 = Ambient Temp Bit 27 = High Temp Coil 3 Bit 28 = High Temp Coil 2 Bit 29 = High Temp Coil 1 Bit 30 = High Pressure Input 2 Bit 31 = High Pressure Input 1

Register	Description	Type	Units	Scaling Factor	R/W	Range
44984-85	MTU Status	Int32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = Not Used Bit 19 = Not Used Bit 20 = ECU Shutdown Bit 21 = Priming Pump ON Bit 22 = CAN Mode Feedback Bit 23 = Preheat Temp Not Reached Bit 24 = Load Gen On Bit 25 = Cylinder Cutout Bit 26 = Engine Running Bit 27 = Speed Decrease Bit 28 = Speed Increase Bit 29 = Speed Demand Fail Mode Bit 30 = External Stop Active Bit 31 = ECU Override
44986	Generator Frequency	Int32	Hertz	Deci	R	0 - 4400
44988	Bus Frequency	Int32	Hertz	Deci	R	0 - 4400
44990	Power Factor	Int32	n/a	Centi	R	(-100) - 100
44992	Slip Frequency	Int32	n/a	Milli	R	(-450000) -450000
44994-98	Reserved					
45000-01	ECU Lamp Status	Int32	n/a	n/a	R	Bit 0 = Protect Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Warning Bit 4 = Stop Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Malfunction Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = Not Used Bit 19 = Not Used Bit 20 = Not Used Bit 21 = Not Used Bit 22 = Not Used Bit 23 = Not Used Bit 24 = Not Used Bit 25 = Not Used Bit 26 = Not Used Bit 27 = Not Used Bit 28 = Not Used Bit 29 = Not Used Bit 30 = Not Used Bit 31 = Not Used
45002	Reserved					
45004	Number of DTC's	Int32	n/a	n/a	R	(-32768) – 32767
45006-10	Reserved					
45012	ECU Accelerator Pedal Position	Uint32	Percent	n/a	R	<u>Data Range</u> 0 – 100% <u>Raw ECU Parameter Data</u> (0.4 %/bit gain, 0% offset)
45014	ECU Percent Load at Current Speed	Uint32	Percent	n/a	R	<u>Data Range</u> 0 – 125% <u>Raw ECU Parameter Data</u> 1 %/bit gain, 0% offset

Register	Description	Type	Units	Scaling Factor	R/W	Range
45016	ECU Actual Engine Percent Torque	Uint32	Percent	n/a	R	<u>Data Range</u> -125% – 125% <u>Raw ECU Parameter Data</u> 1 %/bit gain, 0% offset
45018	ECU Engine Speed	Uint32	RPM	n/a	R	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit gain, 0 rpm offset)
45020	ECU Injection Control Pressure	Uint32	MPa	n/a	R	<u>Data Range</u> 0 – 251 MPa <u>Raw ECU Parameter Data</u> 1/256 MPa/bit gain, 0 MPa offset
45022	ECU Injector Metering Rail Pressure	Uint32	MPa	n/a	R	<u>Data Range</u> 0 – 251 MPa <u>Raw ECU Parameter Data</u> 1/256 MPa/bit gain, 0 MPa offset
45024	ECU Engine Run Time	Uint32	Hours	n/a	R	<u>Data Range</u> 0 – +210,554, 060.75 h <u>Raw ECU Parameter Data</u> 0.05 h/bit gain, 0 h offset
45026	ECU Trip Fuel	Uint32	Liters	n/a	R	<u>Data Range</u> 0 – 2105540,608 L <u>Raw ECU Parameter Data</u> 0.5 L/bit gain, 0 L offset
45028	ECU Total Fuel Used	Uint32	Liters	n/a	R	<u>Data Range</u> 0 – 2105540608 L <u>Raw ECU Parameter Data</u> 0.5 L/bit gain, 0 L offset
45030	ECU Coolant Temperature	Uint32	Degrees	n/a	R	<u>Data Range</u> -40 – 210°C, -40 – 410°F <u>Raw ECU Parameter Data</u> 1 °C/bit gain, -40°C offset
45032	ECU Fuel Temperature	Uint32	Degrees	n/a	R	<u>Data Range</u> -40 – 210°C, -40 – 410°F <u>Raw ECU Parameter Data</u> 1 °C/bit gain, -40°C offset
45034	ECU Engine Oil Temperature	Uint32	Degrees	n/a	R	<u>Data Range</u> -273 – 1735°C, -459.4 – 3155°F <u>Raw ECU Parameter Data</u> 0.03125 °C/bit gain, -273°C offset
45036	ECU Engine Intercooler Temperature	Uint32	Degrees	n/a	R	<u>Data Range</u> -40 – 210°C, -40 – 410°F <u>Raw ECU Parameter Data</u> 1 °C/bit gain, -40°C offset
45038	ECU Fuel Delivery Pressure	Uint32	kPa	n/a	R	<u>Data Range</u> 0 – 1000 kPa, 0 – 145 psi <u>Raw ECU Parameter Data</u> 4 kPa/bit gain, 0 kPa offset
45040	ECU Engine Oil Level	Uint32	Percent	n/a	R	<u>Data Range</u> 0 – 100% <u>Raw ECU Parameter Data</u> 0.4 %/bit gain, 0% offset
45042	ECU Oil Pressure	Uint32	kPa	n/a	R	<u>Data Range</u> 0 – 1000 kPa, 0 - 145 psi <u>Raw ECU Parameter Data</u> 4 kPa/bit gain, 0 kPa offset
45044	ECU Coolant Pressure	Uint32	kPa	n/a	R	<u>Data Range</u> 0 – 500 kPa, 0 – 72.5 psi <u>Raw ECU Parameter Data</u> 2 kPa/bit gain, 0 kPa offset
45046	ECU Coolant Level	Uint32	Percent	n/a	R	<u>Data Range</u> 0 – 100% <u>Raw ECU Parameter Data</u> 0.4 %/bit gain, 0% offset
45048	ECU Fuel Rate	Uint32	Liters/hour	n/a	R	<u>Data Range</u> 0 – 3212.75 L/h <u>Raw ECU Parameter Data</u> 0.05 L/h per bit gain, 0 L/h offset (13.9 x 10 ⁻⁶ L/s per bit)
45050	ECU Barometric Pressure	Uint32	kPa	n/a	R	<u>Data Range</u> 0 – 125 kPa, 0 – 18.1 psi <u>Raw ECU Parameter Data</u> 0.5 kPa/bit gain, 0 kPa offset
45052	ECU Ambient Air Temperature	Uint32	Degrees	n/a	R	<u>Data Range</u> -273 – 1735°C, -459.4 – 3155°F <u>Raw ECU Parameter Data</u> 0.03125 °C/bit gain, -273°C offset
45054	ECU Air Inlet Temperature	Uint32	Degrees	n/a	R	<u>Data Range</u> -40 – 210°C, -40 – 410°F <u>Raw ECU Parameter Data</u> 1 °C/bit gain, -40°C offset

Register	Description	Type	Units	Scaling Factor	R/W	Range
45056	ECU Boost Pressure	Uint32	kPa	n/a	R	<u>Data Range</u> 0 – 500 kPa, 0 – 72.5 psi <u>Raw ECU Parameter Data</u> 2 kPa/bit gain, 0 kPa offset
45058	ECU Intake Manifold Temperature	Uint32	Degrees	n/a	R	<u>Data Range</u> -40 – 210°C, -40 – 410°F <u>Raw ECU Parameter Data</u> 1 °C/bit gain, -40°C offset
45060	ECU Air Filter Differential Pressure	Uint32	kPa	n/a	R	<u>Data Range</u> 0 – 12.5 kPa, 0 – 1.8 psi <u>Raw ECU Parameter Data</u> 0.05 kPa/bit gain, 0 kPa offset
45062	ECU Exhaust Gas Temperature	Uint32	Degrees	n/a	R	<u>Data Range</u> -273 – 1735°C, -459.4 – 3155.0°F <u>Raw ECU Parameter Data</u> 0.03125 °C/bit gain, -273°C offset
45064	ECU Electrical Potential Voltage	Uint32	Volts	n/a	R	<u>Data Range</u> 0 – 3212.75 V <u>Raw ECU Parameter Data</u> 0.05 V/bit gain, 0 V offset
45066	ECU Battery Potential Voltage Switched	Uint32	Volts	n/a	R	<u>Data Range</u> 0 – 3212.75 V <u>Raw ECU Parameter Data</u> 0.05 V/bit gain, 0 V offset
45068	ECU Speed at Idle Point 1	Uint32	RPM	n/a	R	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit, 0 rpm offset
45070	ECU Torque at Idle Point 1	Uint32	Percent	n/a	R	<u>Data Range</u> 0 – 125% <u>Raw ECU Parameter Data</u> 1 %/bit gain, -125% offset
45072	ECU Speed at Idle Point 2	Uint32	RPM	n/a	R	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit, 0 rpm offset
45074	ECU Torque at Idle Point 2	Uint32	Percent	n/a	R	<u>Data Range</u> 0 – 125% <u>Raw ECU Parameter Data</u> 1 %/bit gain, -125% offset
45076	ECU Speed at Idle Point 3	Uint32	RPM	n/a	R	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit, 0 rpm offset
45078	ECU Torque at Idle Point 3	Uint32	Percent	n/a	R	<u>Data Range</u> 0 – 125% <u>Raw ECU Parameter Data</u> 1 %/bit gain, -125% offset
45080	ECU Speed at Idle Point 4	Uint32	RPM	n/a	R	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit, 0 rpm offset
45082	ECU Torque at Idle Point 4	Uint32	Percent	n/a	R	<u>Data Range</u> 0 – 125% <u>Raw ECU Parameter Data</u> 1 %/bit gain, -125% offset
45084	ECU Speed at Idle Point 5	Uint32	RPM	n/a	R	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit, 0 rpm offset
45086	ECU Torque at Idle Point 5	Uint32	Percent	n/a	R	<u>Data Range</u> 0 – 125% <u>Raw ECU Parameter Data</u> 1 %/bit gain, -125% offset
45088	ECU Speed at High Idle Point 6	Uint32	RPM	n/a	R	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit, 0 rpm offset
45090	ECU Gain of End Speed Governor	Uint32	%ref trq/rpm	n/a	R	<u>Data Range</u> 0 – 50.2 %/rpm <u>Raw ECU Parameter Data</u> 0.0007813% engine reference torque/rpm per bit gain (normalized), 0 %/rpm per bit offset
45092	ECU Reference Engine Torque	Uint32	Nm	n/a	R	<u>Data Range</u> 0 – 64255 Nm <u>Raw ECU Parameter Data</u> 1 Nm/bit gain, 0 Nm offset
45094	ECU Override Speed Point 7	Uint32	RPM	n/a	R	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit, 0 rpm offset

Register	Description	Type	Units	Scaling Factor	R/W	Range
45096	ECU Override Time Limit	Uint32	Seconds	n/a	R	<u>Data Range</u> 0 – 25 s <u>Raw ECU Parameter Data</u> 0.1 s/bit gain, 0 s offset
45098	ECU Speed Lower Limit	Uint32	RPM	n/a	R	<u>Data Range</u> 0 – 2500 rpm <u>Raw ECU Parameter Data</u> 10 rpm/bit gain, 0 rpm offset
45100	ECU Speed Upper Limit	Uint32	RPM	n/a	R	<u>Data Range</u> 0 – 2500 rpm <u>Raw ECU Parameter Data</u> 10 rpm/bit gain, 0 rpm offset
45102	ECU Torque Lower Limit	Uint32	Percent	n/a	R	<u>Data Range</u> 0 – 125% <u>Raw ECU Parameter Data</u> 1 %/bit gain, -125% offset
45104	ECU Torque Upper Limit	Uint32	Percent	n/a	R	<u>Data Range</u> 0 – 125% <u>Raw ECU Parameter Data</u> 1 %/bit gain, -125% offset
45106	Active DTC 1	Uint32	n/a	n/a	R	Suppose the 32 bits of DTC Data is in Register N and N+1. SPN = (Register N: Most Significant 3 bits * 65536) + (Register N+1: LS Byte * 256) + (Register N+1: MS Byte) FMI = Register N: Bits 8-12 Occurrence Count = Register N: Bits 0 through 6
45108	Active DTC 2	Uint32	n/a	n/a	R	
45110	Active DTC 3	Uint32	n/a	n/a	R	
45112	Active DTC 4	Uint32	n/a	n/a	R	
45114	Active DTC 5	Uint32	n/a	n/a	R	
45116	Active DTC 6	Uint32	n/a	n/a	R	
45118	Active DTC 7	Uint32	n/a	n/a	R	
45120	Active DTC 8	Uint32	n/a	n/a	R	
45122	Active DTC 9	Uint32	n/a	n/a	R	
45124	Active DTC 10	Uint32	n/a	n/a	R	
45126	Active DTC 11	Uint32	n/a	n/a	R	
45128	Active DTC 12	Uint32	n/a	n/a	R	
45130	Active DTC 13	Uint32	n/a	n/a	R	
45132	Active DTC 14	Uint32	n/a	n/a	R	
45134	Active DTC 15	Uint32	n/a	n/a	R	
45136	Active DTC 16	Uint32	n/a	n/a	R	
45138	Previously Active DTC 1	Uint32	n/a	n/a	R	
45140	Previously Active DTC 2	Uint32	n/a	n/a	R	
45142	Previously Active DTC 3	Uint32	n/a	n/a	R	
45144	Previously Active DTC 4	Uint32	n/a	n/a	R	
45146	Previously Active DTC 5	Uint32	n/a	n/a	R	
45148	Previously Active DTC 6	Uint32	n/a	n/a	R	
45150	Previously Active DTC 7	Uint32	n/a	n/a	R	
45152	Previously Active DTC 8	Uint32	n/a	n/a	R	
45154	Previously Active DTC 9	Uint32	n/a	n/a	R	
45156	Previously Active DTC 10	Uint32	n/a	n/a	R	
45158	Previously Active DTC 11	Uint32	n/a	n/a	R	
45160	Previously Active DTC 12	Uint32	n/a	n/a	R	
45162	Previously Active DTC 13	Uint32	n/a	n/a	R	
45164	Previously Active DTC 14	Uint32	n/a	n/a	R	
45166	Previously Active DTC 15	Uint32	n/a	n/a	R	
45168	Previously Active DTC 16	Uint32	n/a	n/a	R	
45170	Active DTC Count Data	Uint32	n/a	n/a	R	0 - 16
45172	Previously Active DTC Count Data	Uint32	n/a	n/a	R	0 - 16
45174	Active MTU Fault Code Count Data	Uint32	n/a	n/a	R	0 - 20
45176-248	Reserved					
45250	CAN Bus Enabled by User Data	Int32	N/A	N/A	RW	0 - 1
45252	DTC Enable Data	Int32	N/A	N/A	RW	0 - 1
45254	J1939 Source Address	Int32	N/A	N/A	RW	1 - 253
45256	ECU Control Output	Uint32	N/A	N/A	RW	0 = Fuel Relay Controls 1 = Preheat Relay Controls
45258	Pulsing Enable	Uint32	N/A	N/A	RW	1 = Enable 2 = Disable

Register	Description	Type	Units	Scaling Factor	R/W	Range
45260	MDEC Module Type	Uint32	N/A	N/A	RW	1 = CAN Module 201 2 = CAN Module 302 3 = CAN Module 303 4 = CAN Module 304
45262	MDEC Speed Demand Source	Uint32	N/A	N/A	RW	0 = Analog CAN 1 = Up Down ECU 2 = Up Down CAN 3 = Analog ECU 4 = Frequency 5 = No CAN Demand
45264	MDEC Engine RPM Request	Uint32	N/A	N/A	RW	1400 - 2000
45266	Volvo Accelerator Pedal Position	Uint32	N/A	N/A	RW	0 - 100
45268	Volvo RPM Select	Uint32	N/A	N/A	RW	0 = Primary 1 = Secondary
45270	J1939 Start Stop Config	Uint32	N/A	N/A	RW	0 = Standard 1 = Volvo Penta 2 = MTU MDEC 3 = MTU ADEC 4 = MTU ECU7 5 = GM 6 = Cummins 7 = MTU Smart Connect 8 = Scania 9 = John Deere
45272	ECU Settling Time	Uint32	Millisecond	Milli	RW	5500 - 30000
45274	ECU Pulse Cycle Time	Uint32	Minute	N/A	RW	1 - 60
45276	ECU Disconnect Time	Uint32	Second	N/A	RW	1 - 60
45278	ECU Connect Time	Uint32	Second	N/A	RW	1 - 60
45280	MTU Request Test Overspeed	Uint32	N/A	N/A	RW	0 = Off 1 = On
45282	MTU Governor Switchover Parameters	Uint32	N/A	N/A	RW	0 - 1
45284	MTU Intermittent Oil Prime Request	Uint32	N/A	N/A	RW	0 = Off 1 = On
45286	MTU Trip Info Reset Request	Uint32	N/A	N/A	RW	0 = Off 1 = On
45288	MTU Speed Increase	Uint32	N/A	N/A	RW	0 = Off 1 = On
45290	MTU Speed Decrease	Uint32	N/A	N/A	RW	0 = Off 1 = On
45292	MTU Speed Demand Limit Boolean	Uint32	N/A	N/A	RW	0 = Off 1 = On
45294	MTU Mode Switch	Uint32	N/A	N/A	RW	0 - 1000
45296	MTU Increased Idle	Uint32	N/A	N/A	RW	0 - 1000
45298	MTU Gov Param Set Select	Uint32	N/A	N/A	RW	0 = Off 1 = On
45300	MTU Fan Override	Uint32	N/A	N/A	RW	0 = Off 1 = On
45302	MTU Prime On Engine Start	Uint32	N/A	N/A	RW	0 = Off 1 = On
45304	MTU CAN Rating SW1	Uint32	N/A	N/A	RW	0 = Off 1 = On
45306	MTU CAN Rating SW2	Uint32	N/A	N/A	RW	0 = Off 1 = On
45308	MTU Disable Cylinder Cutout 1	Uint32	N/A	N/A	RW	0 = Off 1 = On
45310	MTU Cylinder Cutout 2	Uint32	N/A	N/A	RW	0 = Off 1 = On
45312	MTU ECU7 Module Type Data	Int32	N/A	N/A	RW	0 = Off 1 = On
45314	RESERVED					
45316	MTU NMT Alive Repeat Milliseconds	Int32	Millisecond	N/A	RW	100 - 500
45318	Generator Parameter Transmit Enable Data	Int32	N/A	N/A	RW	0 = Disable 1 = Enable

Register	Description	Type	Units	Scaling Factor	R/W	Range
45320	DPF Manual Regenerate Data	Int32	N/A	N/A	RW	0 = Off 1 = On
45322	DPF Regenerate Disable Data	Int32	N/A	N/A	RW	0 = Off 1 = On
45324	J1939 Speed Torque Transmit Enable Data	Int32	N/A	N/A	RW	0 = Off 1 = On
45326	Engine Idle RPM Data	Int32	N/A	N/A	RW	100 - 2000
45328	Engine Parameter Transmit Enable	Int32	n/a	n/a	RW	0 = Disable 1 = Enable
45330	Requested MTU SMC ENG Operating Mode	Int32	n/a	n/a	RW	1 - 2
45332	SPN Conversion Method	Int32	n/a	n/a	RW	1 - 4
45334	John Deere Regeneration Interlock	UInt32	N/A	N/A	RW	0 = Disable 1 = Enable
45336-482	Reserved					
45484	Volt Reg CAN Bus Param Transmit Enable Data	Int32	N/A	N/A	RW	0 = None 1 = Marathon 2 = Basler 3 = J1939
45486	Volt Reg Primary Volt Setpoint in DeciVolts Data	Int32	DeciUnit	Deci	RW	1000 - 6000
45488	Volt Reg Alternate Volt Setpoint in DeciVolts Data	Int32	DeciUnit	Deci	RW	1000 - 6000
45490	Volt Reg Volt Adjust Bandwidth CentiVolts Data	Int32	CentiUnit	Centi	RW	0 - 3000
45492	Volt Reg Field Current in Milliamps Data	Int32	MilliUnit	Milli	RW	0 - 30000
45494	Volt Reg Primary UF Knee in DeciHertz Data	Int32	DeciUnit	Deci	RW	400 - 700
45496	Volt Reg Alternate UF Knee in DeciHertz Data	Int32	DeciUnit	Deci	RW	400 - 700
45498	Volt Reg Underfreq Slope in CentiUnits	Int32	CentiUnit	Centi	RW	100 - 500
45500	Analog Input 1 Metering Value	Int32	CentiUnit	Centi	R	(-100000000) – 99999900
45502	Analog Input 2 Metering Value	Int32	CentiUnit	Centi	R	(-100000000) – 99999900
45504	Analog Input 3 Metering Value	Int32	CentiUnit	Centi	R	(-100000000) – 99999900
45506	Analog Input 4 Metering Value	Int32	CentiUnit	Centi	R	(-100000000) – 99999900
45508	Analog Input 5 Metering Value	Int32	CentiUnit	Centi	R	(-100000000) – 99999900
45510	Analog Input 6 Metering Value	Int32	CentiUnit	Centi	R	(-100000000) – 99999900
45512	Analog Input 7 Metering Value	Int32	CentiUnit	Centi	R	(-100000000) – 99999900
45514	Analog Input 8 Metering Value	Int32	CentiUnit	Centi	R	(-100000000) – 99999900
45516	RTD Input 1 Metering Value	Int32	CentiDeg F	Centi	R	(-100000000) – 99999900
45518	RTD Input 2 Metering Value	Int32	CentiDeg F	Centi	R	(-100000000) – 99999900
45520	RTD Input 3 Metering Value	Int32	CentiDeg F	Centi	R	(-100000000) – 99999900
45522	RTD Input 4 Metering Value	Int32	CentiDeg F	Centi	R	(-100000000) – 99999900
45524	RTD Input 5 Metering Value	Int32	CentiDeg F	Centi	R	(-100000000) – 99999900
45526	RTD Input 6 Metering Value	Int32	CentiDeg F	Centi	R	(-100000000) – 99999900
45528	RTD Input 7 Metering Value	Int32	CentiDeg F	Centi	R	(-100000000) – 99999900
45530	RTD Input 8 Metering Value	Int32	CentiDeg F	Centi	R	(-100000000) – 99999900
45532	Thermocouple Input 1 Metering Value	Int32	CentiDeg F	Centi	R	(-100000000) – 99999900
45534	Thermocouple Input 2 Metering Value	Int32	CentiDeg F	Centi	R	(-100000000) – 99999900

Register	Description	Type	Units	Scaling Factor	R/W	Range
45536-37	AEM Input Threshold Status Bits Reg 1	Uint32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Analog Input 6 Under 2 Bit 3 = Analog Input 6 Under 1 Bit 4 = Analog Input 6 Over 2 Bit 5 = Analog Input 6 Over 1 Bit 6 = Analog Input 6 Out of Range Bit 7 = Analog Input 5 Under 2 Bit 8 = Analog Input 5 Under 1 Bit 9 = Analog Input 5 Over 2 Bit 10 = Analog Input 5 Over 1 Bit 11 = Analog Input 5 Out of Range Bit 12 = Analog Input 4 Under 2 Bit 13 = Analog Input 4 Under 1 Bit 14 = Analog Input 4 Over 2 Bit 15 = Analog Input 4 Over 1 Bit 16 = Analog Input 4 Out of Range Bit 17 = Analog Input 3 Under 2 Bit 18 = Analog Input 3 Under 1 Bit 19 = Analog Input 3 Over 2 Bit 20 = Analog Input 3 Over 1 Bit 21 = Analog Input 3 Out of Range Bit 22 = Analog Input 2 Under 2 Bit 23 = Analog Input 2 Under 1 Bit 24 = Analog Input 2 Over 2 Bit 25 = Analog Input 2 Over 1 Bit 26 = Analog Input 2 Out of Range Bit 27 = Analog Input 1 Under 2 Bit 28 = Analog Input 1 Under 1 Bit 29 = Analog Input 1 Over 2 Bit 30 = Analog Input 1 Over 1 Bit 31 = Analog Input 1 Out of Range
45538-39	AEM Input Threshold Status Bits Reg 2	Uint32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = RTD Input 4 Under 2 Bit 3 = RTD Input 4 Under 1 Bit 4 = RTD Input 4 Over 2 Bit 5 = RTD Input 4 Over 1 Bit 6 = RTD Input 4 Out of Range Bit 7 = RTD Input 3 Under 2 Bit 8 = RTD Input 3 Under 1 Bit 9 = RTD Input 3 Over 2 Bit 10 = RTD Input 3 Over 1 Bit 11 = RTD Input 3 Out of Range Bit 12 = RTD Input 2 Under 2 Bit 13 = RTD Input 2 Under 1 Bit 14 = RTD Input 2 Over 2 Bit 15 = RTD Input 2 Over 1 Bit 16 = RTD Input 2 Out of Range Bit 17 = RTD Input 1 Under 2 Bit 18 = RTD Input 1 Under 1 Bit 19 = RTD Input 1 Over 2 Bit 20 = RTD Input 1 Over 1 Bit 21 = RTD Input 1 Out of Range Bit 22 = Analog Input 8 Under 2 Bit 23 = Analog Input 8 Under 1 Bit 24 = Analog Input 8 Over 2 Bit 25 = Analog Input 8 Over 1 Bit 26 = Analog Input 8 Out of Range Bit 27 = Analog Input 7 Under 2 Bit 28 = Analog Input 7 Under 1 Bit 29 = Analog Input 7 Over 2 Bit 30 = Analog Input 7 Over 1 Bit 31 = Analog Input 7 Out of Range

Register	Description	Type	Units	Scaling Factor	R/W	Range
45540-41	AEM Input Threshold Status Bits Reg 3	Uint32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Thermocouple 2 Under 2 Bit 3 = Thermocouple 2 Under 1 Bit 4 = Thermocouple 2 Over 2 Bit 5 = Thermocouple 2 Over 1 Bit 6 = Thermocouple 2 Out of Range Bit 7 = Thermocouple 1 Under 2 Bit 8 = Thermocouple 1 Under 1 Bit 9 = Thermocouple 1 Over 2 Bit 10 = Thermocouple 1 Over 1 Bit 11 = Thermocouple 1 Out of Range Bit 12 = RTD Input 8 Under 2 Bit 13 = RTD Input 8 Under 1 Bit 14 = RTD Input 8 Over 2 Bit 15 = RTD Input 8 Over 1 Bit 16 = RTD Input 8 Out of Range Bit 17 = RTD Input 7 Under 2 Bit 18 = RTD Input 7 Under 1 Bit 19 = RTD Input 7 Over 2 Bit 20 = RTD Input 7 Over 1 Bit 21 = RTD Input 7 Out of Range Bit 22 = RTD Input 6 Under 2 Bit 23 = RTD Input 6 Under 1 Bit 24 = RTD Input 6 Over 2 Bit 25 = RTD Input 6 Over 1 Bit 26 = RTD Input 6 Out of Range Bit 27 = RTD Input 5 Under 2 Bit 28 = RTD Input 5 Under 1 Bit 29 = RTD Input 5 Over 2 Bit 30 = RTD Input 5 Over 1 Bit 31 = RTD Input 5 Out of Range
45542-43	AEM Input Threshold Status Bits Reg 4	Uint32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = Not Used Bit 19 = Not Used Bit 20 = Not Used Bit 21 = Not Used Bit 22 = Not Used Bit 23 = Not Used Bit 24 = Not Used Bit 25 = Not Used Bit 26 = Not Used Bit 27 = Not Used Bit 28 = Analog Output 4 Out of Range Bit 29 = Analog Output 3 Out of Range Bit 30 = Analog Output 2 Out of Range Bit 31 = Analog Output 1 Out of Range

Register	Description	Type	Units	Scaling Factor	R/W	Range
45544-45	AEM Input Threshold Alarm Bits Reg 1	Uint32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Analog Input 6 Under 2 Bit 3 = Analog Input 6 Under 1 Bit 4 = Analog Input 6 Over 2 Bit 5 = Analog Input 6 Over 1 Bit 6 = Analog Input 6 Out of Range Bit 7 = Analog Input 5 Under 2 Bit 8 = Analog Input 5 Under 1 Bit 9 = Analog Input 5 Over 2 Bit 10 = Analog Input 5 Over 1 Bit 11 = Analog Input 5 Out of Range Bit 12 = Analog Input 4 Under 2 Bit 13 = Analog Input 4 Under 1 Bit 14 = Analog Input 4 Over 2 Bit 15 = Analog Input 4 Over 1 Bit 16 = Analog Input 4 Out of Range Bit 17 = Analog Input 3 Under 2 Bit 18 = Analog Input 3 Under 1 Bit 19 = Analog Input 3 Over 2 Bit 20 = Analog Input 3 Over 1 Bit 21 = Analog Input 3 Out of Range Bit 22 = Analog Input 2 Under 2 Bit 23 = Analog Input 2 Under 1 Bit 24 = Analog Input 2 Over 2 Bit 25 = Analog Input 2 Over 1 Bit 26 = Analog Input 2 Out of Range Bit 27 = Analog Input 1 Under 2 Bit 28 = Analog Input 1 Under 1 Bit 29 = Analog Input 1 Over 2 Bit 30 = Analog Input 1 Over 1 Bit 31 = Analog Input 1 Out of Range
45546-47	AEM Input Threshold Alarm Bits Reg 2	Uint32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = RTD Input 4 Under 2 Bit 3 = RTD Input 4 Under 1 Bit 4 = RTD Input 4 Over 2 Bit 5 = RTD Input 4 Over 1 Bit 6 = RTD Input 4 Out of Range Bit 7 = RTD Input 3 Under 2 Bit 8 = RTD Input 3 Under 1 Bit 9 = RTD Input 3 Over 2 Bit 10 = RTD Input 3 Over 1 Bit 11 = RTD Input 3 Out of Range Bit 12 = RTD Input 2 Under 2 Bit 13 = RTD Input 2 Under 1 Bit 14 = RTD Input 2 Over 2 Bit 15 = RTD Input 2 Over 1 Bit 16 = RTD Input 2 Out of Range Bit 17 = RTD Input 1 Under 2 Bit 18 = RTD Input 1 Under 1 Bit 19 = RTD Input 1 Over 2 Bit 20 = RTD Input 1 Over 1 Bit 21 = RTD Input 1 Out of Range Bit 22 = Analog Input 8 Under 2 Bit 23 = Analog Input 8 Under 1 Bit 24 = Analog Input 8 Over 2 Bit 25 = Analog Input 8 Over 1 Bit 26 = Analog Input 8 Out of Range Bit 27 = Analog Input 7 Under 2 Bit 28 = Analog Input 7 Under 1 Bit 29 = Analog Input 7 Over 2 Bit 30 = Analog Input 7 Over 1 Bit 31 = Analog Input 7 Out of Range

Register	Description	Type	Units	Scaling Factor	R/W	Range
45548-49	AEM Input Threshold Alarm Bits Reg 3	Uint32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Thermocouple 2 Under 2 Bit 3 = Thermocouple 2 Under 1 Bit 4 = Thermocouple 2 Over 2 Bit 5 = Thermocouple 2 Over 1 Bit 6 = Thermocouple 2 Out of Range Bit 7 = Thermocouple 1 Under 2 Bit 8 = Thermocouple 1 Under 1 Bit 9 = Thermocouple 1 Over 2 Bit 10 = Thermocouple 1 Over 1 Bit 11 = Thermocouple 1 Out of Range Bit 12 = RTD Input 8 Under 2 Bit 13 = RTD Input 8 Under 1 Bit 14 = RTD Input 8 Over 2 Bit 15 = RTD Input 8 Over 1 Bit 16 = RTD Input 8 Out of Range Bit 17 = RTD Input 7 Under 2 Bit 18 = RTD Input 7 Under 1 Bit 19 = RTD Input 7 Over 2 Bit 20 = RTD Input 7 Over 1 Bit 21 = RTD Input 7 Out of Range Bit 22 = RTD Input 6 Under 2 Bit 23 = RTD Input 6 Under 1 Bit 24 = RTD Input 6 Over 2 Bit 25 = RTD Input 6 Over 1 Bit 26 = RTD Input 6 Out of Range Bit 27 = RTD Input 5 Under 2 Bit 28 = RTD Input 5 Under 1 Bit 29 = RTD Input 5 Over 2 Bit 30 = RTD Input 5 Over 1 Bit 31 = RTD Input 5 Out of Range
45550-51	AEM Input Threshold Alarm Bits Reg 4	Uint32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = Not Used Bit 19 = Not Used Bit 20 = Not Used Bit 21 = Not Used Bit 22 = Not Used Bit 23 = Not Used Bit 24 = Not Used Bit 25 = Not Used Bit 26 = Not Used Bit 27 = Not Used Bit 28 = Analog Output 4 Out of Range Bit 29 = Analog Output 3 Out of Range Bit 30 = Analog Output 2 Out of Range Bit 31 = Analog Output 1 Out of Range

Register	Description	Type	Units	Scaling Factor	R/W	Range
45552-53	AEM Input Threshold Pre-Alarm Bits Reg 1	Uint32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Analog Input 6 Under 2 Bit 3 = Analog Input 6 Under 1 Bit 4 = Analog Input 6 Over 2 Bit 5 = Analog Input 6 Over 1 Bit 6 = Analog Input 6 Out of Range Bit 7 = Analog Input 5 Under 2 Bit 8 = Analog Input 5 Under 1 Bit 9 = Analog Input 5 Over 2 Bit 10 = Analog Input 5 Over 1 Bit 11 = Analog Input 5 Out of Range Bit 12 = Analog Input 4 Under 2 Bit 13 = Analog Input 4 Under 1 Bit 14 = Analog Input 4 Over 2 Bit 15 = Analog Input 4 Over 1 Bit 16 = Analog Input 4 Out of Range Bit 17 = Analog Input 3 Under 2 Bit 18 = Analog Input 3 Under 1 Bit 19 = Analog Input 3 Over 2 Bit 20 = Analog Input 3 Over 1 Bit 21 = Analog Input 3 Out of Range Bit 22 = Analog Input 2 Under 2 Bit 23 = Analog Input 2 Under 1 Bit 24 = Analog Input 2 Over 2 Bit 25 = Analog Input 2 Over 1 Bit 26 = Analog Input 2 Out of Range Bit 27 = Analog Input 1 Under 2 Bit 28 = Analog Input 1 Under 1 Bit 29 = Analog Input 1 Over 2 Bit 30 = Analog Input 1 Over 1 Bit 31 = Analog Input 1 Out of Range
45554-55	AEM Input Threshold Pre-Alarm Bits Reg 2	Uint32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = RTD Input 4 Under 2 Bit 3 = RTD Input 4 Under 1 Bit 4 = RTD Input 4 Over 2 Bit 5 = RTD Input 4 Over 1 Bit 6 = RTD Input 4 Out of Range Bit 7 = RTD Input 3 Under 2 Bit 8 = RTD Input 3 Under 1 Bit 9 = RTD Input 3 Over 2 Bit 10 = RTD Input 3 Over 1 Bit 11 = RTD Input 3 Out of Range Bit 12 = RTD Input 2 Under 2 Bit 13 = RTD Input 2 Under 1 Bit 14 = RTD Input 2 Over 2 Bit 15 = RTD Input 2 Over 1 Bit 16 = RTD Input 2 Out of Range Bit 17 = RTD Input 1 Under 2 Bit 18 = RTD Input 1 Under 1 Bit 19 = RTD Input 1 Over 2 Bit 20 = RTD Input 1 Over 1 Bit 21 = RTD Input 1 Out of Range Bit 22 = Analog Input 8 Under 2 Bit 23 = Analog Input 8 Under 1 Bit 24 = Analog Input 8 Over 2 Bit 25 = Analog Input 8 Over 1 Bit 26 = Analog Input 8 Out of Range Bit 27 = Analog Input 7 Under 2 Bit 28 = Analog Input 7 Under 1 Bit 29 = Analog Input 7 Over 2 Bit 30 = Analog Input 7 Over 1 Bit 31 = Analog Input 7 Out of Range

Register	Description	Type	Units	Scaling Factor	R/W	Range
45556-57	AEM Input Threshold Pre-Alarm Bits Reg 3	Uint32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Thermocouple 2 Under 2 Bit 3 = Thermocouple 2 Under 1 Bit 4 = Thermocouple 2 Over 2 Bit 5 = Thermocouple 2 Over 1 Bit 6 = Thermocouple 2 Out of Range Bit 7 = Thermocouple 1 Under 2 Bit 8 = Thermocouple 1 Under 1 Bit 9 = Thermocouple 1 Over 2 Bit 10 = Thermocouple 1 Over 1 Bit 11 = Thermocouple 1 Out of Range Bit 12 = RTD Input 8 Under 2 Bit 13 = RTD Input 8 Under 1 Bit 14 = RTD Input 8 Over 2 Bit 15 = RTD Input 8 Over 1 Bit 16 = RTD Input 8 Out of Range Bit 17 = RTD Input 7 Under 2 Bit 18 = RTD Input 7 Under 1 Bit 19 = RTD Input 7 Over 2 Bit 20 = RTD Input 7 Over 1 Bit 21 = RTD Input 7 Out of Range Bit 22 = RTD Input 6 Under 2 Bit 23 = RTD Input 6 Under 1 Bit 24 = RTD Input 6 Over 2 Bit 25 = RTD Input 6 Over 1 Bit 26 = RTD Input 6 Out of Range Bit 27 = RTD Input 5 Under 2 Bit 28 = RTD Input 5 Under 1 Bit 29 = RTD Input 5 Over 2 Bit 30 = RTD Input 5 Over 1 Bit 31 = RTD Input 5 Out of Range
45558-59	AEM Input Threshold Pre-Alarm Bits Reg 4	Uint32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = Not Used Bit 19 = Not Used Bit 20 = Not Used Bit 21 = Not Used Bit 22 = Not Used Bit 23 = Not Used Bit 24 = Not Used Bit 25 = Not Used Bit 26 = Not Used Bit 27 = Not Used Bit 28 = Analog Output 4 Out of Range Bit 29 = Analog Output 3 Out of Range Bit 30 = Analog Output 2 Out of Range Bit 31 = Analog Output 1 Out of Range
45560	Analog Output 1 Metering Value	Int32	CentiUnit	Centi	R	(-100000000) – 99999900
45562	Analog Output 2 Metering Value	Int32	CentiUnit	Centi	R	(-100000000) – 99999900
45564	Analog Output 3 Metering Value	Int32	CentiUnit	Centi	R	(-100000000) – 99999900
45566	Analog Output 4 Metering Value	Int32	CentiUnit	Centi	R	(-100000000) – 99999900

Register	Description	Type	Units	Scaling Factor	R/W	Range
45568-69	Configurable Protection Threshold Status Bits	Uint32	n/a	n/a	R	Bit 0 = Conf Protection 8 Threshold 4 Bit 1 = Conf Protection 8 Threshold 3 Bit 2 = Conf Protection 8 Threshold 2 Bit 3 = Conf Protection 8 Threshold 1 Bit 4 = Conf Protection 7 Threshold 4 Bit 5 = Conf Protection 7 Threshold 3 Bit 6 = Conf Protection 7 Threshold 2 Bit 7 = Conf Protection 7 Threshold 1 Bit 8 = Conf Protection 6 Threshold 4 Bit 9 = Conf Protection 6 Threshold 3 Bit 10 = Conf Protection 6 Threshold 2 Bit 11 = Conf Protection 6 Threshold 1 Bit 12 = Conf Protection 5 Threshold 4 Bit 13 = Conf Protection 5 Threshold 3 Bit 14 = Conf Protection 5 Threshold 2 Bit 15 = Conf Protection 5 Threshold 1 Bit 16 = Conf Protection 4 Threshold 4 Bit 17 = Conf Protection 4 Threshold 3 Bit 18 = Conf Protection 4 Threshold 2 Bit 19 = Conf Protection 4 Threshold 1 Bit 20 = Conf Protection 3 Threshold 4 Bit 21 = Conf Protection 3 Threshold 3 Bit 22 = Conf Protection 3 Threshold 2 Bit 23 = Conf Protection 3 Threshold 1 Bit 24 = Conf Protection 2 Threshold 4 Bit 25 = Conf Protection 2 Threshold 3 Bit 26 = Conf Protection 2 Threshold 2 Bit 27 = Conf Protection 2 Threshold 1 Bit 28 = Conf Protection 1 Threshold 4 Bit 29 = Conf Protection 1 Threshold 3 Bit 30 = Conf Protection 1 Threshold 2 Bit 31 = Conf Protection 1 Threshold 1
45570-71	Configurable Protection Alarm Bits	Uint32	n/a	n/a	R	Bit 0 = Conf Protection 8 Threshold 4 Bit 1 = Conf Protection 8 Threshold 3 Bit 2 = Conf Protection 8 Threshold 2 Bit 3 = Conf Protection 8 Threshold 1 Bit 4 = Conf Protection 7 Threshold 4 Bit 5 = Conf Protection 7 Threshold 3 Bit 6 = Conf Protection 7 Threshold 2 Bit 7 = Conf Protection 7 Threshold 1 Bit 8 = Conf Protection 6 Threshold 4 Bit 9 = Conf Protection 6 Threshold 3 Bit 10 = Conf Protection 6 Threshold 2 Bit 11 = Conf Protection 6 Threshold 1 Bit 12 = Conf Protection 5 Threshold 4 Bit 13 = Conf Protection 5 Threshold 3 Bit 14 = Conf Protection 5 Threshold 2 Bit 15 = Conf Protection 5 Threshold 1 Bit 16 = Conf Protection 4 Threshold 4 Bit 17 = Conf Protection 4 Threshold 3 Bit 18 = Conf Protection 4 Threshold 2 Bit 19 = Conf Protection 4 Threshold 1 Bit 20 = Conf Protection 3 Threshold 4 Bit 21 = Conf Protection 3 Threshold 3 Bit 22 = Conf Protection 3 Threshold 2 Bit 23 = Conf Protection 3 Threshold 1 Bit 24 = Conf Protection 2 Threshold 4 Bit 25 = Conf Protection 2 Threshold 3 Bit 26 = Conf Protection 2 Threshold 2 Bit 27 = Conf Protection 2 Threshold 1 Bit 28 = Conf Protection 1 Threshold 4 Bit 29 = Conf Protection 1 Threshold 3 Bit 30 = Conf Protection 1 Threshold 2 Bit 31 = Conf Protection 1 Threshold 1

Register	Description	Type	Units	Scaling Factor	R/W	Range
45572-73	Configurable Protection Pre-Alarm Bits	Uint32	n/a	n/a	R	Bit 0 = Conf Protection 8 Threshold 4 Bit 1 = Conf Protection 8 Threshold 3 Bit 2 = Conf Protection 8 Threshold 2 Bit 3 = Conf Protection 8 Threshold 1 Bit 4 = Conf Protection 7 Threshold 4 Bit 5 = Conf Protection 7 Threshold 3 Bit 6 = Conf Protection 7 Threshold 2 Bit 7 = Conf Protection 7 Threshold 1 Bit 8 = Conf Protection 6 Threshold 4 Bit 9 = Conf Protection 6 Threshold 3 Bit 10 = Conf Protection 6 Threshold 2 Bit 11 = Conf Protection 6 Threshold 1 Bit 12 = Conf Protection 5 Threshold 4 Bit 13 = Conf Protection 5 Threshold 3 Bit 14 = Conf Protection 5 Threshold 2 Bit 15 = Conf Protection 5 Threshold 1 Bit 16 = Conf Protection 4 Threshold 4 Bit 17 = Conf Protection 4 Threshold 3 Bit 18 = Conf Protection 4 Threshold 2 Bit 19 = Conf Protection 4 Threshold 1 Bit 20 = Conf Protection 3 Threshold 4 Bit 21 = Conf Protection 3 Threshold 3 Bit 22 = Conf Protection 3 Threshold 2 Bit 23 = Conf Protection 3 Threshold 1 Bit 24 = Conf Protection 2 Threshold 4 Bit 25 = Conf Protection 2 Threshold 3 Bit 26 = Conf Protection 2 Threshold 2 Bit 27 = Conf Protection 2 Threshold 1 Bit 28 = Conf Protection 1 Threshold 4 Bit 29 = Conf Protection 1 Threshold 3 Bit 30 = Conf Protection 1 Threshold 2 Bit 31 = Conf Protection 1 Threshold 1
45574	Gen Kvar A	Int32	kvar	n/a	R	(-2147483648) - 2147483647
45576	Gen Kvar B	Int32	kvar	n/a	R	(-2147483648) - 2147483647
45578	Gen Kvar C	Int32	kvar	n/a	R	(-2147483648) - 2147483647
45580	Gen Kvar Total	Int32	kvar	n/a	R	(-2147483648) - 2147483647
45582	Reserved					
45584-85	Logic Control Relay Status	Uint32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Logic Control Relay 16 Bit 17 = Logic Control Relay 15 Bit 18 = Logic Control Relay 14 Bit 19 = Logic Control Relay 13 Bit 20 = Logic Control Relay 12 Bit 21 = Logic Control Relay 11 Bit 22 = Logic Control Relay 10 Bit 23 = Logic Control Relay 9 Bit 24 = Logic Control Relay 8 Bit 25 = Logic Control Relay 7 Bit 26 = Logic Control Relay 6 Bit 27 = Logic Control Relay 5 Bit 28 = Logic Control Relay 4 Bit 29 = Logic Control Relay 3 Bit 30 = Logic Control Relay 2 Bit 31 = Logic Control Relay 1

Register	Description	Type	Units	Scaling Factor	R/W	Range
45586-87	I/O Modules Connected	Uint32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = Not Used Bit 19 = Not Used Bit 20 = Not Used Bit 21 = Not Used Bit 22 = Not Used Bit 23 = Not Used Bit 24 = Not Used Bit 25 = Not Used Bit 26 = Not Used Bit 27 = Not Used Bit 28 = Not Used Bit 29 = AEM Connected Bit 30 = CEM Connected Bit 31 = Not Used
45588	Max Vector Shift	Int32	n/a	Centi	R	0 - 100000
45590	Max DF/DT	Int32	n/a	Centi	R	0 - 100000
45592	Current DF/DT	Int32	n/a	Centi	R	0 - 100000
45594-95	Status Metering 2	Int32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Bus Reverse Rotation Bit 17 = Bus Forward Rotation Bit 18 = Gen Reverse Rotation Bit 19 = Gen Forward Rotation Bit 20 = Closed Transition Override Bit 21 = Auto Breaker Operation Inhibit Bit 22 = Mains Fail Transfer Inhibit Bit 23 = Restart Delay Active Bit 24 = Synchronizer Break Close OK Bit 25 = Synchronizer Angle OK Bit 26 = Synchronizer Slip Freq OK Bit 27 = Synchronizer Volt Match OK Bit 28 = Synchronizer Active Bit 29 = Parallel To Mains Bit 30 = Mains Fail Test Bit 31 = Take Over Load

Register	Description	Type	Units	Scaling Factor	R/W	Range
45596-97	Gen Protect Pre-Alarm Status	Int32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = 81 ROC DF/DT Trip Bit 19 = 78 Vector Shift Trip Bit 20 = 51-3 Overcurrent Trip Bit 21 = 40 Loss of Excitation Trip Bit 22 = 32 Reverse Overpower Trip Bit 23 = 59-2 Overvoltage Trip Bit 24 = 27-2 Undervoltage Trip Bit 25 = 51-2 Overcurrent Trip Bit 26 = 81 Underfrequency Trip Bit 27 = 81 Overfrequency Trip Bit 28 = 59-1 Overvoltage Trip Bit 29 = 27-1 Undervoltage Trip Bit 30 = 47 Phase Imbalance Trip Bit 31 = 51-1 Overcurrent Trip
45598-99	Gen Protect Alarm Status	Int32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = 81 ROC DF/DT Trip Bit 19 = 78 Vector Shift Trip Bit 20 = 51-3 Overcurrent Trip Bit 21 = 40 Loss of Excitation Trip Bit 22 = 32 Reverse Overpower Trip Bit 23 = 59-2 Overvoltage Trip Bit 24 = 27-2 Undervoltage Trip Bit 25 = 51-2 Overcurrent Trip Bit 26 = 81 Underfrequency Trip Bit 27 = 81 Overfrequency Trip Bit 28 = 59-1 Overvoltage Trip Bit 29 = 27-1 Undervoltage Trip Bit 30 = 47 Phase Imbalance Trip Bit 31 = 51-1 Overcurrent Trip

Register	Description	Type	Units	Scaling Factor	R/W	Range
45600-01	Pre-Alarm Metering 2	Int32	n/a	n/a	R	Bit 0 = Not Used Bit 1 = Not Used Bit 2 = Not Used Bit 3 = Not Used Bit 4 = Not Used Bit 5 = Not Used Bit 6 = Not Used Bit 7 = Not Used Bit 8 = Not Used Bit 9 = Not Used Bit 10 = Not Used Bit 11 = Not Used Bit 12 = Not Used Bit 13 = Not Used Bit 14 = Not Used Bit 15 = Not Used Bit 16 = Not Used Bit 17 = Not Used Bit 18 = Bus Reverse Rotation Bit 19 = Gen Reverse Rotation Bit 20 = DEF Inducement Override Bit 21 = DEF Severe Inducement Bit 22 = DEF Pre-Severe Inducement Bit 23 = DEF Engine Derate Bit 24 = DEF Fluid Level Empty Bit 25 = DEF Fluid Level Low Bit 26 = DPF Soot Level Severely High Bit 27 = DPF Soot Level Moderately High Bit 28 = DPF Soot Level High Bit 29 = High Exhaust Temperature Bit 30 = DPF Regenerate Disabled Bit 31 = DPF Regenerate Required
45602	Operating Units Config Data	Int32	n/a	n/a	R	0 – 3
45604	Reserved					
45606	Generator Network System Manager Data	Int32	n/a	n/a	R	-1 – 255
45608	Generator Network Unit ID 1	Int32	n/a	n/a	R	-1 – 255
45610	Generator Network Unit ID 2	Int32	n/a	n/a	R	-1 – 255
45612	Generator Network Unit ID 3	Int32	n/a	n/a	R	-1 – 255
45614	Generator Network Unit ID 4	Int32	n/a	n/a	R	-1 – 255
45616	Generator Network Unit ID 5	Int32	n/a	n/a	R	-1 – 255
45618	Generator Network Unit ID 6	Int32	n/a	n/a	R	-1 – 255
45620	Generator Network Unit ID 7	Int32	n/a	n/a	R	-1 – 255
45622	Generator Network Unit ID 8	Int32	n/a	n/a	R	-1 – 255
45624	Generator Network Unit ID 9	Int32	n/a	n/a	R	-1 – 255
45626	Generator Network Unit ID 10	Int32	n/a	n/a	R	-1 – 255
45628	Generator Network Unit ID 11	Int32	n/a	n/a	R	-1 – 255
45630	Generator Network Unit ID 12	Int32	n/a	n/a	R	-1 – 255
45632	Generator Network Unit ID 13	Int32	n/a	n/a	R	-1 – 255
45634	Generator Network Unit ID 14	Int32	n/a	n/a	R	-1 – 255
45636	Generator Network Unit ID 15	Int32	n/a	n/a	R	-1 – 255
45638	Generator Network Unit ID 16	Int32	n/a	n/a	R	-1 – 255
45640	Generator Network Number of Units	Int32	n/a	n/a	R	0 – 16
45642	Load Share Input Data	Int32	CentiUnit	Centi	R	(-100000000) - 99999900
45644	Generator Network Number of Units Online	Int32	n/a	n/a	R	0 – 16
45646	Generator Network Total System kW Capacity	Int32	n/a	n/a	R	0 – 16777216
45648	Generator Network Total Generated kW	Int32	n/a	n/a	R	0 – 16777216
45650	Generator Network Total Generated kvar	Int32	n/a	n/a	R	0 – 16777216
45652	Sequencing Mode Feedback from Load Sharing	Int32	n/a	n/a	R	-2147483648 – 2147483647
45654	Next Unit to Start Load Sharing	Int32	n/a	n/a	R	-1 – 255
45656	Next Unit to Stop Load Sharing	Int32	n/a	n/a	R	-1 – 255
45658	Start Timer 1 Sec Load Sharing	Int32	n/a	n/a	R	0 – 32767
45660	Start Timer 2 Sec Load Sharing	Int32	n/a	n/a	R	0 – 32767
45662	Stop Timer Sec Load Sharing	Int32	n/a	n/a	R	0 – 32767
45664-750	Reserved					
45752	pc Emergency Stop	UInt32	n/a	n/a	RW	0 = Stop 1 = Start
45754	pc Relay Closed: Runs when in Auto mode	UInt32	n/a	n/a	RW	0 = Stop 1 = Start
45756-60	Reserved					

Register	Description	Type	Units	Scaling Factor	R/W	Range
45762	Embedded Code Version Number	Uint32	n/a	n/a	R	
45764	Boot Code Version Number	Int32	n/a	n/a	R	
45766	Model Number	Uint32	n/a	n/a	R	
45768	Embedded Code Part Number	Uint32	n/a	n/a	R	
45770	Conf Prot 1 Param Select	Unit32	n/a	n/a	RW	No Parameter=0 OIL P=1 Coolant Temp=2 BATT V=3 RPM=4 FUEL LVL=5 Gen Hz=6 Gen VAB=7 Gen VBC=8 Gen VCA=9 Gen Vavg LL=10 GEN VAN=11 GEN VBN=12 GEN VCN=13 Gen Vavg LN=14 BUS 1 Hz=15 BUS 1 VAB=16 BUS 1 VBC=17 BUS 1 VCA=18 Bus 1 Vavg LL=19 Bus 1 VA=20 Bus 1 VB=21 Bus 1 VC=22 Bus 1 Vavg LN=23 BUS 2 Hz=24 BUS 2 VAB=25 BUS 2 VBC=26 BUS 2 VCA=27 Bus 2 Vavg LL=28 Bus 2 VAN=29 Bus 2 VBN=30 Bus 2 VCN=31 Bus 2 Vavg LN=32 Gen PF=33 BUS 1 PF=34 Bus 2 PF=35 Gen Pos kWH=36 Gen Neg kWH=37 Bus 1 Pos kWH=38 Bus 1 Neg kWH=39 Bus 2 Pos kWH=40 Bus 2 Neg kWH=41 Gen IA=42 Gen IB=43 Gen IC=44 Gen I Avg=45 BUS 1 IA=46 BUS 1 IB=47 BUS 1 IC=48 Bus 1 Iavg=49 Bus 2 IAN=50 Bus 2 IBN=51 Bus 2 ICN=52 Bus 2 Iavg=53 IG=54 I AUX=55 GEN kW A=56 GEN kW B=57 GEN kW C=58 GEN kW TOT=59 BUS 1 kW A=60 BUS 1 kW B=61 BUS 1 kW C=62 BUS 1 kW TOT=63 BUS 2 kW A=64 BUS 2 kW B=65 BUS 2 kW C=66 BUS 2 kW TOT=67 GEN kVA A=68 GEN kVA B=69 GEN kVA C=70 GEN kVA TOT=71 BUS 1 kVA A=72 BUS 1 kVA B=73 BUS 1 kVA C=74

Register	Description	Type	Units	Scaling Factor	R/W	Range
						BUS 1 kVA TOT=75 BUS 2 kVA A=76 BUS 2 kVA B=77 BUS 2 kVA C=78 BUS 2 kVA TOT=79 GEN kvar A=80 GEN kvar B=81 GEN kvar C=82 GEN kvar TOT=83 BUS 1 kvar A=84 BUS 1 kvar B=85 BUS 1 kvar C=86 BUS 1 kvar TOT=87 BUS 2 kvar A=88 BUS 2 kvar B=89 BUS 2 kvar C=90 BUS 2 kvar TOT=91 Fuel Pressure=92 Injector metering rail pressure=93 Total Fuel Used=94 Fuel temperature=95 Engine oil temperature=96 Engine intercooler temperature=97 Coolant pressure=98 Fuel Rate=99 Boost pressure=100 Intake manifold temperature=101 Charge air temperature=102 Engine Percent Load=103 Analog Input 1=104 Analog Input 2=105 Analog Input 3=106 Analog Input 4=107 kW Load Percent=108 Number of Units Online=109 System kW Capacity=110 System Total Gen kW=111 System Total Gen Kvar=112 AEM 1 Analog Input 1=300 AEM 1 Analog Input 2=301 AEM 1 Analog Input 3=302 AEM 1 Analog Input 4=303 AEM 1 Analog Input 5=304 AEM 1 Analog Input 6=305 AEM 1 Analog Input 7=306 AEM 1 Analog Input 8=307 AEM 1 RTD Input 1=308 AEM 1 RTD Input 2=309 AEM 1 RTD Input 3=310 AEM 1 RTD Input 4=311 AEM 1 RTD Input 5=312 AEM 1 RTD Input 6=313 AEM 1 RTD Input 7=314 AEM 1 RTD Input 8=315 AEM 1 TC Input 1=316 AEM 1 TC Input 2=317 AEM 2 Analog Input 1=318 AEM 2 Analog Input 2=319 AEM 2 Analog Input 3=320 AEM 2 Analog Input 4=321 AEM 2 Analog Input 5=322 AEM 2 Analog Input 6=323 AEM 2 Analog Input 7=324 AEM 2 Analog Input 8=325 AEM 2 RTD Input 1=326 AEM 2 RTD Input 2=327 AEM 2 RTD Input 3=328 AEM 2 RTD Input 4=329 AEM 2 RTD Input 5=330 AEM 2 RTD Input 6=331 AEM 2 RTD Input 7=332 AEM 2 RTD Input 8=333 AEM 2 TC Input 1=334 AEM 2 TC Input 2=335 AEM 3 Analog Input 1=336 AEM 3 Analog Input 2=337 AEM 3 Analog Input 3=338 AEM 3 Analog Input 4=339 AEM 3 Analog Input 5=340 AEM 3 Analog Input 6=341 AEM 3 Analog Input 7=342 AEM 3 Analog Input 8=343

Register	Description	Type	Units	Scaling Factor	R/W	Range
						AEM 3 RTD Input 1=344 AEM 3 RTD Input 2=345 AEM 3 RTD Input 3=346 AEM 3 RTD Input 4=347 AEM 3 RTD Input 5=348 AEM 3 RTD Input 6=349 AEM 3 RTD Input 7=350 AEM 3 RTD Input 8=351 AEM 3 TC Input 1=352 AEM 3 TC Input 2=353 AEM 4 Analog Input 1=354 AEM 4 Analog Input 2=355 AEM 4 Analog Input 3=356 AEM 4 Analog Input 4=357 AEM 4 Analog Input 5=358 AEM 4 Analog Input 6=359 AEM 4 Analog Input 7=360 AEM 4 Analog Input 8=361 AEM 4 RTD Input 1=362 AEM 4 RTD Input 2=363 AEM 4 RTD Input 3=364 AEM 4 RTD Input 4=365 AEM 4 RTD Input 5=366 AEM 4 RTD Input 6=367 AEM 4 RTD Input 7=368 AEM 4 RTD Input 8=369 AEM 4 TC Input 1=370 AEM 4 TC Input 2=371 AVR Output=372 GOV Output=373 LS Output=374
45772	Conf Prot 1 Hysteresis	Int32	Percent	Deci	RW	0 - 1000
45774	Conf Prot 1 Arming Delay	Int32	Second	n/a	RW	0 - 300
45776	Conf Prot 1 Threshold 1 Activation Delay	Int32	Second	n/a	RW	0 - 300
45778	Conf Prot 1 Threshold 2 Activation Delay	Int32	Second	n/a	RW	0 - 300
45780	Conf Prot 1 Over 1 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45782	Conf Prot 1 Over 2 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45784	Conf Prot 1 Under 1 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45786	Conf Prot 1 Under 2 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45788	Conf Prot 1 Over 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45790	Conf Prot 1 Over 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45792	Conf Prot 1 Under 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45794	Conf Prot 1 Under 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45796	Conf Prot 2 Param Select	Unit32	n/a	n/a	RW	No Parameter=0 OIL P=1 Coolant Temp=2 BATT V=3 RPM=4 FUEL LVL=5 Gen Hz=6 Gen VAB=7 Gen VBC=8 Gen VCA=9 Gen Vavg LL=10 GEN VAN=11 GEN VBN=12 GEN VCN=13 Gen Vavg LN=14 BUS 1 Hz=15 BUS 1 VAB=16 BUS 1 VBC=17 BUS 1 VCA=18 Bus 1 Vavg LL=19 Bus 1 VA=20 Bus 1 VB=21 Bus 1 VC=22 Bus 1 Vavg LN=23 BUS 2 Hz=24 BUS 2 VAB=25

Register	Description	Type	Units	Scaling Factor	R/W	Range
						BUS 2 VBC=26 BUS 2 VCA=27 Bus 2 Vavg LL=28 Bus 2 VAN=29 Bus 2 VBN=30 Bus 2 VCN=31 Bus 2 Vavg LN=32 Gen PF=33 BUS 1 PF=34 Bus 2 PF=35 Gen Pos kWH=36 Gen Neg kWH=37 Bus 1 Pos kWH=38 Bus 1 Neg kWH=39 Bus 2 Pos kWH=40 Bus 2 Neg kWH=41 Gen IA=42 Gen IB=43 Gen IC=44 Gen I Avg=45 BUS 1 IA=46 BUS 1 IB=47 BUS 1 IC=48 Bus 1 Iavg=49 Bus 2 IAN=50 Bus 2 IBN=51 Bus 2 ICN=52 Bus 2 Iavg=53 IG=54 I AUX=55 GEN kW A=56 GEN kW B=57 GEN kW C=58 GEN kW TOT=59 BUS 1 kW A=60 BUS 1 kW B=61 BUS 1 kW C=62 BUS 1 kW TOT=63 BUS 2 kW A=64 BUS 2 kW B=65 BUS 2 kW C=66 BUS 2 kW TOT=67 GEN kVA A=68 GEN kVA B=69 GEN kVA C=70 GEN kVA TOT=71 BUS 1 kVA A=72 BUS 1 kVA B=73 BUS 1 kVA C=74 BUS 1 kVA TOT=75 BUS 2 kVA A=76 BUS 2 kVA B=77 BUS 2 kVA C=78 BUS 2 kVA TOT=79 GEN kvar A=80 GEN kvar B=81 GEN kvar C=82 GEN kvar TOT=83 BUS 1 kvar A=84 BUS 1 kvar B=85 BUS 1 kvar C=86 BUS 1 kvar TOT=87 BUS 2 kvar A=88 BUS 2 kvar B=89 BUS 2 kvar C=90 BUS 2 kvar TOT=91 Fuel Pressure=92 Injector metering rail pressure=93 Total Fuel Used=94 Fuel temperature=95 Engine oil temperature=96 Engine intercooler temperature=97 Coolant pressure=98 Fuel Rate=99 Boost pressure=100 Intake manifold temperature=101 Charge air temperature=102 Engine Percent Load=103 Analog Input 1=104 Analog Input 2=105 Analog Input 3=106 Analog Input 4=107

Register	Description	Type	Units	Scaling Factor	R/W	Range
						kW Load Percent=108 Number of Units Online=109 System kW Capacity=110 System Total Gen kW=111 System Total Gen Kvar=112 AEM 1 Analog Input 1=300 AEM 1 Analog Input 2=301 AEM 1 Analog Input 3=302 AEM 1 Analog Input 4=303 AEM 1 Analog Input 5=304 AEM 1 Analog Input 6=305 AEM 1 Analog Input 7=306 AEM 1 Analog Input 8=307 AEM 1 RTD Input 1=308 AEM 1 RTD Input 2=309 AEM 1 RTD Input 3=310 AEM 1 RTD Input 4=311 AEM 1 RTD Input 5=312 AEM 1 RTD Input 6=313 AEM 1 RTD Input 7=314 AEM 1 RTD Input 8=315 AEM 1 TC Input 1=316 AEM 1 TC Input 2=317 AEM 2 Analog Input 1=318 AEM 2 Analog Input 2=319 AEM 2 Analog Input 3=320 AEM 2 Analog Input 4=321 AEM 2 Analog Input 5=322 AEM 2 Analog Input 6=323 AEM 2 Analog Input 7=324 AEM 2 Analog Input 8=325 AEM 2 RTD Input 1=326 AEM 2 RTD Input 2=327 AEM 2 RTD Input 3=328 AEM 2 RTD Input 4=329 AEM 2 RTD Input 5=330 AEM 2 RTD Input 6=331 AEM 2 RTD Input 7=332 AEM 2 RTD Input 8=333 AEM 2 TC Input 1=334 AEM 2 TC Input 2=335 AEM 3 Analog Input 1=336 AEM 3 Analog Input 2=337 AEM 3 Analog Input 3=338 AEM 3 Analog Input 4=339 AEM 3 Analog Input 5=340 AEM 3 Analog Input 6=341 AEM 3 Analog Input 7=342 AEM 3 Analog Input 8=343 AEM 3 RTD Input 1=344 AEM 3 RTD Input 2=345 AEM 3 RTD Input 3=346 AEM 3 RTD Input 4=347 AEM 3 RTD Input 5=348 AEM 3 RTD Input 6=349 AEM 3 RTD Input 7=350 AEM 3 RTD Input 8=351 AEM 3 TC Input 1=352 AEM 3 TC Input 2=353 AEM 4 Analog Input 1=354 AEM 4 Analog Input 2=355 AEM 4 Analog Input 3=356 AEM 4 Analog Input 4=357 AEM 4 Analog Input 5=358 AEM 4 Analog Input 6=359 AEM 4 Analog Input 7=360 AEM 4 Analog Input 8=361 AEM 4 RTD Input 1=362 AEM 4 RTD Input 2=363 AEM 4 RTD Input 3=364 AEM 4 RTD Input 4=365 AEM 4 RTD Input 5=366 AEM 4 RTD Input 6=367 AEM 4 RTD Input 7=368 AEM 4 RTD Input 8=369 AEM 4 TC Input 1=370 AEM 4 TC Input 2=371 AVR Output=372 GOV Output=373 LS Output=374
45798	Conf Prot 2 Hysteresis	Int32	Percent	Deci	RW	0 - 1000
45800	Conf Prot 2 Arming Delay	Int32	Second	n/a	RW	0 - 300

Register	Description	Type	Units	Scaling Factor	R/W	Range
45802	Conf Prot 2 Threshold 1 Activation Delay	Int32	Second	n/a	RW	0 - 300
45804	Conf Prot 2 Threshold 2 Activation Delay	Int32	Second	n/a	RW	0 - 300
45806	Conf Prot 2 Over 1 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45808	Conf Prot 2 Over 2 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45810	Conf Prot 2 Under 1 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45812	Conf Prot 2 Under 2 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45814	Conf Prot 2 Over 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45816	Conf Prot 2 Over 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45818	Conf Prot 2 Under 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45820	Conf Prot 2 Under 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45822	Conf Prot 3 Param Select	Uint32	n/a	n/a	RW	No Parameter=0 OIL P=1 Coolant Temp=2 BATT V=3 RPM=4 FUEL LVL=5 Gen Hz=6 Gen VAB=7 Gen VBC=8 Gen VCA=9 Gen Vavg LL=10 GEN VAN=11 GEN VBN=12 GEN VCN=13 Gen Vavg LN=14 BUS 1 Hz=15 BUS 1 Vab=16 BUS 1 Vbc=17 BUS 1 Vca=18 Bus 1 Vavg LL=19 Bus 1 VA=20 Bus 1 VB=21 Bus 1 VC=22 Bus 1 Vavg LN=23 BUS 2 Hz=24 BUS 2 VAB=25 BUS 2 VBC=26 BUS 2 VCA=27 Bus 2 Vavg LL=28 Bus 2 VAN=29 Bus 2 VBN=30 Bus 2 VCN=31 Bus 2 Vavg LN=32 Gen PF=33 BUS 1 PF=34 Bus 2 PF=35 Gen Pos kWH=36 Gen Neg kWH=37 Bus 1 Pos kWH=38 Bus 1 Neg kWH=39 Bus 2 Pos kWH=40 Bus 2 Neg kWH=41 Gen IA=42 Gen IB=43 Gen IC=44 Gen I Avg=45 BUS 1 IA=46 BUS 1 IB=47 BUS 1 IC=48 Bus 1 Iavg=49 Bus 2 IAN=50 Bus 2 IBN=51 Bus 2 ICN=52 Bus 2 Iavg=53 IG=54 I AUX=55 GEN kW A=56 GEN kW B=57 GEN kW C=58

Register	Description	Type	Units	Scaling Factor	R/W	Range
						GEN kW TOT=59 BUS 1 kW A=60 BUS 1 kW B=61 BUS 1 kW C=62 BUS 1 kW TOT=63 BUS 2 kW A=64 BUS 2 kW B=65 BUS 2 kW C=66 BUS 2 kW TOT=67 GEN kVA A=68 GEN kVA B=69 GEN kVA C=70 GEN kVA TOT=71 BUS 1 kVA A=72 BUS 1 kVA B=73 BUS 1 kVA C=74 BUS 1 kVA TOT=75 BUS 2 kVA A=76 BUS 2 kVA B=77 BUS 2 kVA C=78 BUS 2 kVA TOT=79 GEN kvar A=80 GEN kvar B=81 GEN kvar C=82 GEN kvar TOT=83 BUS 1 kvar A=84 BUS 1 kvar B=85 BUS 1 kvar C=86 BUS 1 kvar TOT=87 BUS 2 kvar A=88 BUS 2 kvar B=89 BUS 2 kvar C=90 BUS 2 kvar TOT=91 Fuel Pressure=92 Injector metering rail pressure=93 Total Fuel Used=94 Fuel temperature=95 Engine oil temperature=96 Engine intercooler temperature=97 Coolant pressure=98 Fuel Rate=99 Boost pressure=100 Intake manifold temperature=101 Charge air temperature=102 Engine Percent Load=103 Analog Input 1=104 Analog Input 2=105 Analog Input 3=106 Analog Input 4=107 kW Load Percent=108 Number of Units Online=109 System kW Capacity=110 System Total Gen kW=111 System Total Gen Kvar=112 AEM 1 Analog Input 1=300 AEM 1 Analog Input 2=301 AEM 1 Analog Input 3=302 AEM 1 Analog Input 4=303 AEM 1 Analog Input 5=304 AEM 1 Analog Input 6=305 AEM 1 Analog Input 7=306 AEM 1 Analog Input 8=307 AEM 1 RTD Input 1=308 AEM 1 RTD Input 2=309 AEM 1 RTD Input 3=310 AEM 1 RTD Input 4=311 AEM 1 RTD Input 5=312 AEM 1 RTD Input 6=313 AEM 1 RTD Input 7=314 AEM 1 RTD Input 8=315 AEM 1 TC Input 1=316 AEM 1 TC Input 2=317 AEM 2 Analog Input 1=318 AEM 2 Analog Input 2=319 AEM 2 Analog Input 3=320 AEM 2 Analog Input 4=321 AEM 2 Analog Input 5=322 AEM 2 Analog Input 6=323 AEM 2 Analog Input 7=324 AEM 2 Analog Input 8=325 AEM 2 RTD Input 1=326 AEM 2 RTD Input 2=327

Register	Description	Type	Units	Scaling Factor	R/W	Range
						AEM 2 RTD Input 3=328 AEM 2 RTD Input 4=329 AEM 2 RTD Input 5=330 AEM 2 RTD Input 6=331 AEM 2 RTD Input 7=332 AEM 2 RTD Input 8=333 AEM 2 TC Input 1=334 AEM 2 TC Input 2=335 AEM 3 Analog Input 1=336 AEM 3 Analog Input 2=337 AEM 3 Analog Input 3=338 AEM 3 Analog Input 4=339 AEM 3 Analog Input 5=340 AEM 3 Analog Input 6=341 AEM 3 Analog Input 7=342 AEM 3 Analog Input 8=343 AEM 3 RTD Input 1=344 AEM 3 RTD Input 2=345 AEM 3 RTD Input 3=346 AEM 3 RTD Input 4=347 AEM 3 RTD Input 5=348 AEM 3 RTD Input 6=349 AEM 3 RTD Input 7=350 AEM 3 RTD Input 8=351 AEM 3 TC Input 1=352 AEM 3 TC Input 2=353 AEM 4 Analog Input 1=354 AEM 4 Analog Input 2=355 AEM 4 Analog Input 3=356 AEM 4 Analog Input 4=357 AEM 4 Analog Input 5=358 AEM 4 Analog Input 6=359 AEM 4 Analog Input 7=360 AEM 4 Analog Input 8=361 AEM 4 RTD Input 1=362 AEM 4 RTD Input 2=363 AEM 4 RTD Input 3=364 AEM 4 RTD Input 4=365 AEM 4 RTD Input 5=366 AEM 4 RTD Input 6=367 AEM 4 RTD Input 7=368 AEM 4 RTD Input 8=369 AEM 4 TC Input 1=370 AEM 4 TC Input 2=371 AVR Output=372 GOV Output=373 LS Output=374
45824	Conf Prot 3 Hysteresis	Int32	Percent	Deci	RW	1 - 1000
45826	Conf Prot 3 Arming Delay	Int32	Second	n/a	RW	0 - 300
45828	Conf Prot 3 Threshold 1 Activation Delay	Int32	Second	n/a	RW	0 - 300
45830	Conf Prot 3 Threshold 2 Activation Delay	Int32	Second	n/a	RW	0 - 300
45832	Conf Prot 3 Over 1 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45834	Conf Prot 3 Over 2 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45836	Conf Prot 3 Under 1 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45838	Conf Prot 3 Under 2 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45840	Conf Prot 3 Over 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45842	Conf Prot 3 Over 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45844	Conf Prot 3 Under 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45846	Conf Prot 3 Under 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45848	Conf Prot 4 Param Select	UInt32	n/a	n/a	RW	No Parameter=0 OIL P=1 Coolant Temp=2 BATT V=3 RPM=4 FUEL LVL=5 Gen Hz=6 Gen VAB=7 Gen VBC=8 Gen VCA=9

Register	Description	Type	Units	Scaling Factor	R/W	Range
						Gen Vavg LL=10 GEN VAN=11 GEN VBN=12 GEN VCN=13 Gen Vavg LN=14 BUS 1 Hz=15 BUS 1 VAB=16 BUS 1 VBC=17 BUS 1 VCA=18 Bus 1 Vavg LL=19 Bus 1 VA=20 Bus 1 VB=21 Bus 1 VC=22 Bus 1 Vavg LN=23 BUS 2 Hz=24 BUS 2 VAB=25 BUS 2 VBC=26 BUS 2 VCA=27 Bus 2 Vavg LL=28 Bus 2 VAN=29 Bus 2 VBN=30 Bus 2 VCN=31 Bus 2 Vavg LN=32 Gen PF=33 BUS 1 PF=34 Bus 2 PF=35 Gen Pos kWH=36 Gen Neg kWH=37 Bus 1 Pos kWH=38 Bus 1 Neg kWH=39 Bus 2 Pos kWH=40 Bus 2 Neg kWH=41 Gen IA=42 Gen IB=43 Gen IC=44 Gen I Avg=45 BUS 1 IA=46 BUS 1 IB=47 BUS 1 IC=48 Bus 1 Iavg=49 Bus 2 IAN=50 Bus 2 IBN=51 Bus 2 ICN=52 Bus 2 Iavg=53 IG=54 I AUX=55 GEN kW A=56 GEN kW B=57 GEN kW C=58 GEN kW TOT=59 BUS 1 kW A=60 BUS 1 kW B=61 BUS 1 kW C=62 BUS 1 kW TOT=63 BUS 2 kW A=64 BUS 2 kW B=65 BUS 2 kW C=66 BUS 2 kW TOT=67 GEN kVA A=68 GEN kVA B=69 GEN kVA C=70 GEN kVA TOT=71 BUS 1 kVA A=72 BUS 1 kVA B=73 BUS 1 kVA C=74 BUS 1 kVA TOT=75 BUS 2 kVA A=76 BUS 2 kVA B=77 BUS 2 kVA C=78 BUS 2 kVA TOT=79 GEN kvar A=80 GEN kvar B=81 GEN kvar C=82 GEN kvar TOT=83 BUS 1 kvar A=84 BUS 1 kvar B=85 BUS 1 kvar C=86 BUS 1 kvar TOT=87 BUS 2 kvar A=88 BUS 2 kvar B=89 BUS 2 kvar C=90 BUS 2 kvar TOT=91

Register	Description	Type	Units	Scaling Factor	R/W	Range
						Fuel Pressure=92 Injector metering rail pressure=93 Total Fuel Used=94 Fuel temperature=95 Engine oil temperature=96 Engine intercooler temperature=97 Coolant pressure=98 Fuel Rate=99 Boost pressure=100 Intake manifold temperature=101 Charge air temperature=102 Engine Percent Load=103 Analog Input 1=104 Analog Input 2=105 Analog Input 3=106 Analog Input 4=107 kW Load Percent=108 Number of Units Online=109 System kW Capacity=110 System Total Gen kW=111 System Total Gen Kvar=112 AEM 1 Analog Input 1=300 AEM 1 Analog Input 2=301 AEM 1 Analog Input 3=302 AEM 1 Analog Input 4=303 AEM 1 Analog Input 5=304 AEM 1 Analog Input 6=305 AEM 1 Analog Input 7=306 AEM 1 Analog Input 8=307 AEM 1 RTD Input 1=308 AEM 1 RTD Input 2=309 AEM 1 RTD Input 3=310 AEM 1 RTD Input 4=311 AEM 1 RTD Input 5=312 AEM 1 RTD Input 6=313 AEM 1 RTD Input 7=314 AEM 1 RTD Input 8=315 AEM 1 TC Input 1=316 AEM 1 TC Input 2=317 AEM 2 Analog Input 1=318 AEM 2 Analog Input 2=319 AEM 2 Analog Input 3=320 AEM 2 Analog Input 4=321 AEM 2 Analog Input 5=322 AEM 2 Analog Input 6=323 AEM 2 Analog Input 7=324 AEM 2 Analog Input 8=325 AEM 2 RTD Input 1=326 AEM 2 RTD Input 2=327 AEM 2 RTD Input 3=328 AEM 2 RTD Input 4=329 AEM 2 RTD Input 5=330 AEM 2 RTD Input 6=331 AEM 2 RTD Input 7=332 AEM 2 RTD Input 8=333 AEM 2 TC Input 1=334 AEM 2 TC Input 2=335 AEM 3 Analog Input 1=336 AEM 3 Analog Input 2=337 AEM 3 Analog Input 3=338 AEM 3 Analog Input 4=339 AEM 3 Analog Input 5=340 AEM 3 Analog Input 6=341 AEM 3 Analog Input 7=342 AEM 3 Analog Input 8=343 AEM 3 RTD Input 1=344 AEM 3 RTD Input 2=345 AEM 3 RTD Input 3=346 AEM 3 RTD Input 4=347 AEM 3 RTD Input 5=348 AEM 3 RTD Input 6=349 AEM 3 RTD Input 7=350 AEM 3 RTD Input 8=351 AEM 3 TC Input 1=352 AEM 3 TC Input 2=353 AEM 4 Analog Input 1=354 AEM 4 Analog Input 2=355 AEM 4 Analog Input 3=356 AEM 4 Analog Input 4=357 AEM 4 Analog Input 5=358 AEM 4 Analog Input 6=359 AEM 4 Analog Input 7=360

Register	Description	Type	Units	Scaling Factor	R/W	Range
						AEM 4 Analog Input 8=361 AEM 4 RTD Input 1=362 AEM 4 RTD Input 2=363 AEM 4 RTD Input 3=364 AEM 4 RTD Input 4=365 AEM 4 RTD Input 5=366 AEM 4 RTD Input 6=367 AEM 4 RTD Input 7=368 AEM 4 RTD Input 8=369 AEM 4 TC Input 1=370 AEM 4 TC Input 2=371 AVR Output=372 GOV Output=373 LS Output=374
45850	Conf Prot 4 Hysteresis	Int32	Percent	Deci	RW	1 - 1000
45852	Conf Prot 4 Arming Delay	Int32	Second	n/a	RW	0 - 300
45854	Conf Prot 4 Threshold 1 Activation Delay	Int32	Second	n/a	RW	0 - 300
45856	Conf Prot 4 Threshold 2 Activation Delay	Int32	Second	n/a	RW	0 - 300
45858	Conf Prot 4 Over 1 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45860	Conf Prot 4 Over 2 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45862	Conf Prot 4 Under 1 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45864	Conf Prot 4 Under 2 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45866	Conf Prot 4 Over 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45868	Conf Prot 4 Over 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45870	Conf Prot 4 Under 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45872	Conf Prot 4 Under 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45874	Conf Prot 5 Param Select	UInt32	n/a	n/a	RW	No Parameter=0 OIL P=1 Coolant Temp=2 BATT V=3 RPM=4 FUEL LVL=5 Gen Hz=6 Gen VAB=7 Gen VBC=8 Gen VCA=9 Gen Vavg LL=10 GEN VAN=11 GEN VBN=12 GEN VCN=13 Gen Vavg LN=14 BUS 1 Hz=15 BUS 1 VAB=16 BUS 1 VBC=17 BUS 1 VCA=18 Bus 1 Vavg LL=19 Bus 1 VA=20 Bus 1 VB=21 Bus 1 VC=22 Bus 1 Vavg LN=23 BUS 2 Hz=24 BUS 2 VAB=25 BUS 2 VBC=26 BUS 2 VCA=27 Bus 2 Vavg LL=28 Bus 2 VAN=29 Bus 2 VBN=30 Bus 2 VCN=31 Bus 2 Vavg LN=32 Gen PF=33 BUS 1 PF=34 Bus 2 PF=35 Gen Pos kWH=36 Gen Neg kWH=37 Bus 1 Pos kWH=38 Bus 1 Neg kWH=39 Bus 2 Pos kWH=40 Bus 2 Neg kWH=41 Gen IA=42

Register	Description	Type	Units	Scaling Factor	R/W	Range
						Gen IB=43 Gen IC=44 Gen I Avg=45 BUS 1 IA=46 BUS 1 IB=47 BUS 1 IC=48 Bus 1 Iavg=49 Bus 2 IAN=50 Bus 2 IBN=51 Bus 2 ICN=52 Bus 2 Iavg=53 IG=54 I AUX=55 GEN kW A=56 GEN kW B=57 GEN kW C=58 GEN kW TOT=59 BUS 1 kW A=60 BUS 1 kW B=61 BUS 1 kW C=62 BUS 1 kW TOT=63 BUS 2 kW A=64 BUS 2 kW B=65 BUS 2 kW C=66 BUS 2 kW TOT=67 GEN kVA A=68 GEN kVA B=69 GEN kVA C=70 GEN kVA TOT=71 BUS 1 kVA A=72 BUS 1 kVA B=73 BUS 1 kVA C=74 BUS 1 kVA TOT=75 BUS 2 kVA A=76 BUS 2 kVA B=77 BUS 2 kVA C=78 BUS 2 kVA TOT=79 GEN kvar A=80 GEN kvar B=81 GEN kvar C=82 GEN kvar TOT=83 BUS 1 kvar A=84 BUS 1 kvar B=85 BUS 1 kvar C=86 BUS 1 kvar TOT=87 BUS 2 kvar A=88 BUS 2 kvar B=89 BUS 2 kvar C=90 BUS 2 kvar TOT=91 Fuel Pressure=92 Injector metering rail pressure=93 Total Fuel Used=94 Fuel temperature=95 Engine oil temperature=96 Engine intercooler temperature=97 Coolant pressure=98 Fuel Rate=99 Boost pressure=100 Intake manifold temperature=101 Charge air temperature=102 Engine Percent Load=103 Analog Input 1=104 Analog Input 2=105 Analog Input 3=106 Analog Input 4=107 kW Load Percent=108 Number of Units Online=109 System kW Capacity=110 System Total Gen kW=111 System Total Gen Kvar=112 AEM 1 Analog Input 1=300 AEM 1 Analog Input 2=301 AEM 1 Analog Input 3=302 AEM 1 Analog Input 4=303 AEM 1 Analog Input 5=304 AEM 1 Analog Input 6=305 AEM 1 Analog Input 7=306 AEM 1 Analog Input 8=307 AEM 1 RTD Input 1=308 AEM 1 RTD Input 2=309 AEM 1 RTD Input 3=310 AEM 1 RTD Input 4=311

Register	Description	Type	Units	Scaling Factor	R/W	Range
						AEM 1 RTD Input 5=312 AEM 1 RTD Input 6=313 AEM 1 RTD Input 7=314 AEM 1 RTD Input 8=315 AEM 1 TC Input 1=316 AEM 1 TC Input 2=317 AEM 2 Analog Input 1=318 AEM 2 Analog Input 2=319 AEM 2 Analog Input 3=320 AEM 2 Analog Input 4=321 AEM 2 Analog Input 5=322 AEM 2 Analog Input 6=323 AEM 2 Analog Input 7=324 AEM 2 Analog Input 8=325 AEM 2 RTD Input 1=326 AEM 2 RTD Input 2=327 AEM 2 RTD Input 3=328 AEM 2 RTD Input 4=329 AEM 2 RTD Input 5=330 AEM 2 RTD Input 6=331 AEM 2 RTD Input 7=332 AEM 2 RTD Input 8=333 AEM 2 TC Input 1=334 AEM 2 TC Input 2=335 AEM 3 Analog Input 1=336 AEM 3 Analog Input 2=337 AEM 3 Analog Input 3=338 AEM 3 Analog Input 4=339 AEM 3 Analog Input 5=340 AEM 3 Analog Input 6=341 AEM 3 Analog Input 7=342 AEM 3 Analog Input 8=343 AEM 3 RTD Input 1=344 AEM 3 RTD Input 2=345 AEM 3 RTD Input 3=346 AEM 3 RTD Input 4=347 AEM 3 RTD Input 5=348 AEM 3 RTD Input 6=349 AEM 3 RTD Input 7=350 AEM 3 RTD Input 8=351 AEM 3 TC Input 1=352 AEM 3 TC Input 2=353 AEM 4 Analog Input 1=354 AEM 4 Analog Input 2=355 AEM 4 Analog Input 3=356 AEM 4 Analog Input 4=357 AEM 4 Analog Input 5=358 AEM 4 Analog Input 6=359 AEM 4 Analog Input 7=360 AEM 4 Analog Input 8=361 AEM 4 RTD Input 1=362 AEM 4 RTD Input 2=363 AEM 4 RTD Input 3=364 AEM 4 RTD Input 4=365 AEM 4 RTD Input 5=366 AEM 4 RTD Input 6=367 AEM 4 RTD Input 7=368 AEM 4 RTD Input 8=369 AEM 4 TC Input 1=370 AEM 4 TC Input 2=371 AVR Output=372 GOV Output=373 LS Output=374
45876	Conf Prot 5 Hysteresis	Int32	Percent	Deci	RW	1 - 1000
45878	Conf Prot 5 Arming Delay	Int32	Second	n/a	RW	0 - 300
45880	Conf Prot 5 Threshold 1 Activation Delay	Int32	Second	n/a	RW	0 - 300
45882	Conf Prot 5 Threshold 2 Activation Delay	Int32	Second	n/a	RW	0 - 300
45884	Conf Prot 5 Over 1 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45886	Conf Prot 5 Over 2 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45888	Conf Prot 5 Under 1 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45890	Conf Prot 5 Under 2 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45892	Conf Prot 5 Over 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45894	Conf Prot 5 Over 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm

Register	Description	Type	Units	Scaling Factor	R/W	Range
45896	Conf Prot 5 Under 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45898	Conf Prot 5 Under 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45900	Conf Prot 6 Param Select	Uint32	n/a	n/a	RW	No Parameter=0 OIL P=1 Coolant Temp=2 BATT V=3 RPM=4 FUEL LVL=5 Gen Hz=6 Gen VAB=7 Gen VBC=8 Gen VCA=9 Gen Vavg LL=10 GEN VAN=11 GEN VBN=12 GEN VCN=13 Gen Vavg LN=14 BUS 1 Hz=15 BUS 1 VAB=16 BUS 1 VBC=17 BUS 1 VCA=18 Bus 1 Vavg LL=19 Bus 1 VA=20 Bus 1 VB=21 Bus 1 VC=22 Bus 1 Vavg LN=23 BUS 2 Hz=24 BUS 2 VAB=25 BUS 2 VBC=26 BUS 2 VCA=27 Bus 2 Vavg LL=28 Bus 2 VAN=29 Bus 2 VBN=30 Bus 2 VCN=31 Bus 2 Vavg LN=32 Gen PF=33 BUS 1 PF=34 Bus 2 PF=35 Gen Pos kWH=36 Gen Neg kWH=37 Bus 1 Pos kWH=38 Bus 1 Neg kWH=39 Bus 2 Pos kWH=40 Bus 2 Neg kWH=41 Gen IA=42 Gen IB=43 Gen IC=44 Gen I Avg=45 BUS 1 IA=46 BUS 1 IB=47 BUS 1 IC=48 Bus 1 Iavg=49 Bus 2 IAN=50 Bus 2 IBN=51 Bus 2 ICN=52 Bus 2 Iavg=53 IG=54 I AUX=55 GEN kW A=56 GEN kW B=57 GEN kW C=58 GEN kW TOT=59 BUS 1 kW A=60 BUS 1 kW B=61 BUS 1 kW C=62 BUS 1 kW TOT=63 BUS 2 kW A=64 BUS 2 kW B=65 BUS 2 kW C=66 BUS 2 kW TOT=67 GEN kVA A=68 GEN kVA B=69 GEN kVA C=70 GEN kVA TOT=71 BUS 1 kVA A=72 BUS 1 kVA B=73 BUS 1 kVA C=74 BUS 1 kVA TOT=75

Register	Description	Type	Units	Scaling Factor	R/W	Range
						BUS 2 kVA A=76 BUS 2 kVA B=77 BUS 2 kVA C=78 BUS 2 kVA TOT=79 GEN kvar A=80 GEN kvar B=81 GEN kvar C=82 GEN kvar TOT=83 BUS 1 kvar A=84 BUS 1 kvar B=85 BUS 1 kvar C=86 BUS 1 kvar TOT=87 BUS 2 kvar A=88 BUS 2 kvar B=89 BUS 2 kvar C=90 BUS 2 kvar TOT=91 Fuel Pressure=92 Injector metering rail pressure=93 Total Fuel Used=94 Fuel temperature=95 Engine oil temperature=96 Engine intercooler temperature=97 Coolant pressure=98 Fuel Rate=99 Boost pressure=100 Intake manifold temperature=101 Charge air temperature=102 Engine Percent Load=103 Analog Input 1=104 Analog Input 2=105 Analog Input 3=106 Analog Input 4=107 kW Load Percent=108 Number of Units Online=109 System kW Capacity=110 System Total Gen kW=111 System Total Gen Kvar=112 AEM 1 Analog Input 1=300 AEM 1 Analog Input 2=301 AEM 1 Analog Input 3=302 AEM 1 Analog Input 4=303 AEM 1 Analog Input 5=304 AEM 1 Analog Input 6=305 AEM 1 Analog Input 7=306 AEM 1 Analog Input 8=307 AEM 1 RTD Input 1=308 AEM 1 RTD Input 2=309 AEM 1 RTD Input 3=310 AEM 1 RTD Input 4=311 AEM 1 RTD Input 5=312 AEM 1 RTD Input 6=313 AEM 1 RTD Input 7=314 AEM 1 RTD Input 8=315 AEM 1 TC Input 1=316 AEM 1 TC Input 2=317 AEM 2 Analog Input 1=318 AEM 2 Analog Input 2=319 AEM 2 Analog Input 3=320 AEM 2 Analog Input 4=321 AEM 2 Analog Input 5=322 AEM 2 Analog Input 6=323 AEM 2 Analog Input 7=324 AEM 2 Analog Input 8=325 AEM 2 RTD Input 1=326 AEM 2 RTD Input 2=327 AEM 2 RTD Input 3=328 AEM 2 RTD Input 4=329 AEM 2 RTD Input 5=330 AEM 2 RTD Input 6=331 AEM 2 RTD Input 7=332 AEM 2 RTD Input 8=333 AEM 2 TC Input 1=334 AEM 2 TC Input 2=335 AEM 3 Analog Input 1=336 AEM 3 Analog Input 2=337 AEM 3 Analog Input 3=338 AEM 3 Analog Input 4=339 AEM 3 Analog Input 5=340 AEM 3 Analog Input 6=341 AEM 3 Analog Input 7=342 AEM 3 Analog Input 8=343 AEM 3 RTD Input 1=344

Register	Description	Type	Units	Scaling Factor	R/W	Range
						AEM 3 RTD Input 2=345 AEM 3 RTD Input 3=346 AEM 3 RTD Input 4=347 AEM 3 RTD Input 5=348 AEM 3 RTD Input 6=349 AEM 3 RTD Input 7=350 AEM 3 RTD Input 8=351 AEM 3 TC Input 1=352 AEM 3 TC Input 2=353 AEM 4 Analog Input 1=354 AEM 4 Analog Input 2=355 AEM 4 Analog Input 3=356 AEM 4 Analog Input 4=357 AEM 4 Analog Input 5=358 AEM 4 Analog Input 6=359 AEM 4 Analog Input 7=360 AEM 4 Analog Input 8=361 AEM 4 RTD Input 1=362 AEM 4 RTD Input 2=363 AEM 4 RTD Input 3=364 AEM 4 RTD Input 4=365 AEM 4 RTD Input 5=366 AEM 4 RTD Input 6=367 AEM 4 RTD Input 7=368 AEM 4 RTD Input 8=369 AEM 4 TC Input 1=370 AEM 4 TC Input 2=371 AVR Output=372 GOV Output=373 LS Output=374
45902	Conf Prot 6 Hysteresis	Int32	Percent	Deci	RW	1 - 1000
45904	Conf Prot 6 Arming Delay	Int32	Second	n/a	RW	0 - 300
45906	Conf Prot 6 Threshold 1 Activation Delay	Int32	Second	n/a	RW	0 - 300
45908	Conf Prot 6 Threshold 2 Activation Delay	Int32	Second	n/a	RW	0 - 300
45910	Conf Prot 6 Over 1 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45912	Conf Prot 6 Over 2 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45914	Conf Prot 6 Under 1 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45916	Conf Prot 6 Under 2 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45918	Conf Prot 6 Over 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45920	Conf Prot 6 Over 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45922	Conf Prot 6 Under 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45924	Conf Prot 6 Under 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45926	Conf Prot 7 Param Select	UInt32	n/a	n/a	RW	No Parameter=0 OIL P=1 Coolant Temp=2 BATT V=3 RPM=4 FUEL LVL=5 Gen Hz=6 Gen VAB=7 Gen VBC=8 Gen VCA=9 Gen Vavg LL=10 GEN VAN=11 GEN VBN=12 GEN VCN=13 Gen Vavg LN=14 BUS 1 Hz=15 BUS 1 Vab=16 BUS 1 Vbc=17 BUS 1 Vca=18 Bus 1 Vavg LL=19 Bus 1 VA=20 Bus 1 VB=21 Bus 1 VC=22 Bus 1 Vavg LN=23 BUS 2 Hz=24 BUS 2 VAB=25 BUS 2 VBC=26

Register	Description	Type	Units	Scaling Factor	R/W	Range
						BUS 2 VCA=27 Bus 2 Vavg LL=28 Bus 2 VAN=29 Bus 2 VBN=30 Bus 2 VCN=31 Bus 2 Vavg LN=32 Gen PF=33 BUS 1 PF=34 Bus 2 PF=35 Gen Pos kWH=36 Gen Neg kWH=37 Bus 1 Pos kWH=38 Bus 1 Neg kWH=39 Bus 2 Pos kWH=40 Bus 2 Neg kWH=41 Gen IA=42 Gen IB=43 Gen IC=44 Gen I Avg=45 BUS 1 IA=46 BUS 1 IB=47 BUS 1 IC=48 Bus 1 Iavg=49 Bus 2 IAN=50 Bus 2 IBN=51 Bus 2 ICN=52 Bus 2 Iavg=53 IG=54 I AUX=55 GEN kW A=56 GEN kW B=57 GEN kW C=58 GEN kW TOT=59 BUS 1 kW A=60 BUS 1 kW B=61 BUS 1 kW C=62 BUS 1 kW TOT=63 BUS 2 kW A=64 BUS 2 kW B=65 BUS 2 kW C=66 BUS 2 kW TOT=67 GEN kVA A=68 GEN kVA B=69 GEN kVA C=70 GEN kVA TOT=71 BUS 1 kVA A=72 BUS 1 kVA B=73 BUS 1 kVA C=74 BUS 1 kVA TOT=75 BUS 2 kVA A=76 BUS 2 kVA B=77 BUS 2 kVA C=78 BUS 2 kVA TOT=79 GEN kvar A=80 GEN kvar B=81 GEN kvar C=82 GEN kvar TOT=83 BUS 1 kvar A=84 BUS 1 kvar B=85 BUS 1 kvar C=86 BUS 1 kvar TOT=87 BUS 2 kvar A=88 BUS 2 kvar B=89 BUS 2 kvar C=90 BUS 2 kvar TOT=91 Fuel Pressure=92 Injector metering rail pressure=93 Total Fuel Used=94 Fuel temperature=95 Engine oil temperature=96 Engine intercooler temperature=97 Coolant pressure=98 Fuel Rate=99 Boost pressure=100 Intake manifold temperature=101 Charge air temperature=102 Engine Percent Load=103 Analog Input 1=104 Analog Input 2=105 Analog Input 3=106 Analog Input 4=107 kW Load Percent=108

Register	Description	Type	Units	Scaling Factor	R/W	Range
						Number of Units Online=109 System kW Capacity=110 System Total Gen kW=111 System Total Gen Kvar=112 AEM 1 Analog Input 1=300 AEM 1 Analog Input 2=301 AEM 1 Analog Input 3=302 AEM 1 Analog Input 4=303 AEM 1 Analog Input 5=304 AEM 1 Analog Input 6=305 AEM 1 Analog Input 7=306 AEM 1 Analog Input 8=307 AEM 1 RTD Input 1=308 AEM 1 RTD Input 2=309 AEM 1 RTD Input 3=310 AEM 1 RTD Input 4=311 AEM 1 RTD Input 5=312 AEM 1 RTD Input 6=313 AEM 1 RTD Input 7=314 AEM 1 RTD Input 8=315 AEM 1 TC Input 1=316 AEM 1 TC Input 2=317 AEM 2 Analog Input 1=318 AEM 2 Analog Input 2=319 AEM 2 Analog Input 3=320 AEM 2 Analog Input 4=321 AEM 2 Analog Input 5=322 AEM 2 Analog Input 6=323 AEM 2 Analog Input 7=324 AEM 2 Analog Input 8=325 AEM 2 RTD Input 1=326 AEM 2 RTD Input 2=327 AEM 2 RTD Input 3=328 AEM 2 RTD Input 4=329 AEM 2 RTD Input 5=330 AEM 2 RTD Input 6=331 AEM 2 RTD Input 7=332 AEM 2 RTD Input 8=333 AEM 2 TC Input 1=334 AEM 2 TC Input 2=335 AEM 3 Analog Input 1=336 AEM 3 Analog Input 2=337 AEM 3 Analog Input 3=338 AEM 3 Analog Input 4=339 AEM 3 Analog Input 5=340 AEM 3 Analog Input 6=341 AEM 3 Analog Input 7=342 AEM 3 Analog Input 8=343 AEM 3 RTD Input 1=344 AEM 3 RTD Input 2=345 AEM 3 RTD Input 3=346 AEM 3 RTD Input 4=347 AEM 3 RTD Input 5=348 AEM 3 RTD Input 6=349 AEM 3 RTD Input 7=350 AEM 3 RTD Input 8=351 AEM 3 TC Input 1=352 AEM 3 TC Input 2=353 AEM 4 Analog Input 1=354 AEM 4 Analog Input 2=355 AEM 4 Analog Input 3=356 AEM 4 Analog Input 4=357 AEM 4 Analog Input 5=358 AEM 4 Analog Input 6=359 AEM 4 Analog Input 7=360 AEM 4 Analog Input 8=361 AEM 4 RTD Input 1=362 AEM 4 RTD Input 2=363 AEM 4 RTD Input 3=364 AEM 4 RTD Input 4=365 AEM 4 RTD Input 5=366 AEM 4 RTD Input 6=367 AEM 4 RTD Input 7=368 AEM 4 RTD Input 8=369 AEM 4 TC Input 1=370 AEM 4 TC Input 2=371 AVR Output=372 GOV Output=373 LS Output=374
45928	Conf Prot 7 Hysteresis	Int32	Percent	Deci	RW	1 - 1000
45930	Conf Prot 7 Arming Delay	Int32	Second	n/a	RW	0 - 300

Register	Description	Type	Units	Scaling Factor	R/W	Range
45932	Conf Prot 7 Threshold 1 Activation Delay	Int32	Second	n/a	RW	0 - 300
45934	Conf Prot 7 Threshold 2 Activation Delay	Int32	Second	n/a	RW	0 - 300
45936	Conf Prot 7 Over 1 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45938	Conf Prot 7 Over 2 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45940	Conf Prot 7 Under 1 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45942	Conf Prot 7 Under 2 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45944	Conf Prot 7 Over 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45946	Conf Prot 7 Over 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45948	Conf Prot 7 Under 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45950	Conf Prot 7 Under 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45952	Conf Prot 8 Param Select	Uint32	n/a	n/a	RW	No Parameter=0 OIL P=1 Coolant Temp=2 BATT V=3 RPM=4 FUEL LVL=5 Gen Hz=6 Gen VAB=7 Gen VBC=8 Gen VCA=9 Gen Vavg LL=10 GEN VAN=11 GEN VBN=12 GEN VCN=13 Gen Vavg LN=14 BUS 1 Hz=15 BUS 1 VAB=16 BUS 1 VBC=17 BUS 1 VCA=18 Bus 1 Vavg LL=19 Bus 1 VA=20 Bus 1 VB=21 Bus 1 VC=22 Bus 1 Vavg LN=23 BUS 2 Hz=24 BUS 2 VAB=25 BUS 2 VBC=26 BUS 2 VCA=27 Bus 2 Vavg LL=28 Bus 2 VAN=29 Bus 2 VBN=30 Bus 2 VCN=31 Bus 2 Vavg LN=32 Gen PF=33 BUS 1 PF=34 Bus 2 PF=35 Gen Pos kWH=36 Gen Neg kWH=37 Bus 1 Pos kWH=38 Bus 1 Neg kWH=39 Bus 2 Pos kWH=40 Bus 2 Neg kWH=41 Gen IA=42 Gen IB=43 Gen IC=44 Gen I Avg=45 BUS 1 IA=46 BUS 1 IB=47 BUS 1 IC=48 Bus 1 Iavg=49 Bus 2 IAN=50 Bus 2 IBN=51 Bus 2 ICN=52 Bus 2 Iavg=53 IG=54 I AUX=55 GEN kW A=56 GEN kW B=57 GEN kW C=58

Register	Description	Type	Units	Scaling Factor	R/W	Range
						GEN kW TOT=59 BUS 1 kW A=60 BUS 1 kW B=61 BUS 1 kW C=62 BUS 1 kW TOT=63 BUS 2 kW A=64 BUS 2 kW B=65 BUS 2 kW C=66 BUS 2 kW TOT=67 GEN kVA A=68 GEN kVA B=69 GEN kVA C=70 GEN kVA TOT=71 BUS 1 kVA A=72 BUS 1 kVA B=73 BUS 1 kVA C=74 BUS 1 kVA TOT=75 BUS 2 kVA A=76 BUS 2 kVA B=77 BUS 2 kVA C=78 BUS 2 kVA TOT=79 GEN kvar A=80 GEN kvar B=81 GEN kvar C=82 GEN kvar TOT=83 BUS 1 kvar A=84 BUS 1 kvar B=85 BUS 1 kvar C=86 BUS 1 kvar TOT=87 BUS 2 kvar A=88 BUS 2 kvar B=89 BUS 2 kvar C=90 BUS 2 kvar TOT=91 Fuel Pressure=92 Injector metering rail pressure=93 Total Fuel Used=94 Fuel temperature=95 Engine oil temperature=96 Engine intercooler temperature=97 Coolant pressure=98 Fuel Rate=99 Boost pressure=100 Intake manifold temperature=101 Charge air temperature=102 Engine Percent Load=103 Analog Input 1=104 Analog Input 2=105 Analog Input 3=106 Analog Input 4=107 kW Load Percent=108 Number of Units Online=109 System kW Capacity=110 System Total Gen kW=111 System Total Gen Kvar=112 AEM 1 Analog Input 1=300 AEM 1 Analog Input 2=301 AEM 1 Analog Input 3=302 AEM 1 Analog Input 4=303 AEM 1 Analog Input 5=304 AEM 1 Analog Input 6=305 AEM 1 Analog Input 7=306 AEM 1 Analog Input 8=307 AEM 1 RTD Input 1=308 AEM 1 RTD Input 2=309 AEM 1 RTD Input 3=310 AEM 1 RTD Input 4=311 AEM 1 RTD Input 5=312 AEM 1 RTD Input 6=313 AEM 1 RTD Input 7=314 AEM 1 RTD Input 8=315 AEM 1 TC Input 1=316 AEM 1 TC Input 2=317 AEM 2 Analog Input 1=318 AEM 2 Analog Input 2=319 AEM 2 Analog Input 3=320 AEM 2 Analog Input 4=321 AEM 2 Analog Input 5=322 AEM 2 Analog Input 6=323 AEM 2 Analog Input 7=324 AEM 2 Analog Input 8=325 AEM 2 RTD Input 1=326 AEM 2 RTD Input 2=327

Register	Description	Type	Units	Scaling Factor	R/W	Range
						AEM 2 RTD Input 3=328 AEM 2 RTD Input 4=329 AEM 2 RTD Input 5=330 AEM 2 RTD Input 6=331 AEM 2 RTD Input 7=332 AEM 2 RTD Input 8=333 AEM 2 TC Input 1=334 AEM 2 TC Input 2=335 AEM 3 Analog Input 1=336 AEM 3 Analog Input 2=337 AEM 3 Analog Input 3=338 AEM 3 Analog Input 4=339 AEM 3 Analog Input 5=340 AEM 3 Analog Input 6=341 AEM 3 Analog Input 7=342 AEM 3 Analog Input 8=343 AEM 3 RTD Input 1=344 AEM 3 RTD Input 2=345 AEM 3 RTD Input 3=346 AEM 3 RTD Input 4=347 AEM 3 RTD Input 5=348 AEM 3 RTD Input 6=349 AEM 3 RTD Input 7=350 AEM 3 RTD Input 8=351 AEM 3 TC Input 1=352 AEM 3 TC Input 2=353 AEM 4 Analog Input 1=354 AEM 4 Analog Input 2=355 AEM 4 Analog Input 3=356 AEM 4 Analog Input 4=357 AEM 4 Analog Input 5=358 AEM 4 Analog Input 6=359 AEM 4 Analog Input 7=360 AEM 4 Analog Input 8=361 AEM 4 RTD Input 1=362 AEM 4 RTD Input 2=363 AEM 4 RTD Input 3=364 AEM 4 RTD Input 4=365 AEM 4 RTD Input 5=366 AEM 4 RTD Input 6=367 AEM 4 RTD Input 7=368 AEM 4 RTD Input 8=369 AEM 4 TC Input 1=370 AEM 4 TC Input 2=371 AVR Output=372 GOV Output=373 LS Output=374
45954	Conf Prot 8 Hysteresis	Int32	Percent	Deci	RW	1 - 1000
45956	Conf Prot 8 Arming Delay	Int32	Second	n/a	RW	0 - 300
45958	Conf Prot 8 Threshold 1 Activation Delay	Int32	Second	n/a	RW	0 - 300
45960	Conf Prot 8 Threshold 2 Activation Delay	Int32	Second	n/a	RW	0 - 300
45962	Conf Prot 8 Over 1 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45964	Conf Prot 8 Over 2 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45966	Conf Prot 8 Under 1 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45968	Conf Prot 8 Under 2 Threshold	Int32	n/a	Centi	RW	(-99999900) - 99999900
45970	Conf Prot 8 Over 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45972	Conf Prot 8 Over 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45974	Conf Prot 8 Under 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45976	Conf Prot 8 Under 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
45978-5998	Reserved					
46000	J1939-Transmission Oil Pressure	UInt32	kPa	n/a	R	<u>Data Range</u> 0 – 4000 kPa, 0 – 580 psi <u>Raw ECU Parameter Data</u> 16 kPa/bit gain, 0 kPa offset
46002	J1939-Transmission Oil Temp	UInt32	Degrees	n/a	R	<u>Data Range</u> -273 – 1735°C, -459.4 – 3155.0°F <u>Raw ECU Parameter Data</u> 0.03125 °C/bit gain, -273°C offset

Register	Description	Type	Units	Scaling Factor	R/W	Range
46004	J1939-Winding 1 Temp	Uint32	Degrees	n/a	R	<u>Data Range</u> -40 – 210°C, -40 – 410°F <u>Raw ECU Parameter Data</u> 1 °C/bit gain, -40°C offset
46006	J1939-Winding 2 Temp	Uint32	Degrees	n/a	R	<u>Data Range</u> -40 – 210°C, -40 – 410°F <u>Raw ECU Parameter Data</u> 1 °C/bit gain, -40°C offset
46008	J1939-Winding 3 Temp	Uint32	Degrees	n/a	R	<u>Data Range</u> -40 – 210°C, -40 – 410°F <u>Raw ECU Parameter Data</u> 1 °C/bit gain, -40°C offset
46010	J1939-ECU Temp	Uint32	Degrees	n/a	R	<u>Data Range</u> -273 – 1734.96875°C, -459.4 – 3155.0°F <u>Raw ECU Parameter Data</u> 0.03125 °C/bit gain, -273°C offset
46012	J1939-Aux Pressure 1	Uint32	kPa	n/a	R	<u>Data Range</u> 0 – 4000 kPa, 0 – 580 psi <u>Raw ECU Parameter Data</u> 16 kPa/bit gain, 0 kPa offset
46014	J1939-Aux Pressure 2	Uint32	kPa	n/a	R	<u>Data Range</u> 0 – 4000 kPa, 0 – 580 psi <u>Raw ECU Parameter Data</u> 16 kPa/bit gain, 0 kPa offset
46016	J1939-Rated Power	Uint32	kW	n/a	R	<u>Data Range</u> 0 – 32127.5 kW <u>Raw ECU Parameter Data</u> 0.5 kW/bit gain, 0 kW offset
46018	J1939-Rated RPM	Uint32	RPM	n/a	R	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit gain, 0 rpm offset
46020	J1939-Exhaust Temp A	Uint32	Degrees	n/a	R	<u>Data Range</u> -273 – 1734.96875°C, -459.4 – 3155.0°F <u>Raw ECU Parameter Data</u> 0.03125 °C/bit gain, -273°C offset
46022	J1939-Exhaust Temp B	Uint32	Degrees	n/a	R	<u>Data Range</u> -273 – 1734.96875°C, -459.4 – 3155.0°F <u>Raw ECU Parameter Data</u> 0.03125 °C/bit gain, -273°C offset
46024	J1939-Charge Air Temp	Uint32	Degrees	n/a	R	<u>Data Range</u> -273 – 1734.96875°C, -459.4 – 3155.0°F <u>Raw ECU Parameter Data</u> 0.03125 °C/bit gain, -273°C offset
46026	J1939-ADEC ECU Error Code	Uint32	n/a	n/a	R	<u>Raw ECU Parameter Data</u> 0 – 65535 Proprietary: Consult engine manufacturer
46028	J1939-ADEC Selected Speed Demand	Uint32	RPM	n/a	R	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit gain, 0 rpm offset
46030	J1939-ADEC Effective Set Speed	Uint32	RPM	n/a	R	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit gain, 0 rpm offset
46032	J1939-ADEC CAN Bus Speed Demand	Uint32	RPM	n/a	R	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit gain, 0 rpm offset
46034	J1939-ADEC Analog Speed Demand	Uint32	RPM	n/a	R	<u>Data Range</u> 0 – 8031.875 rpm <u>Raw ECU Parameter Data</u> 0.125 rpm/bit gain, 0 rpm offset
46036	J1939-ADEC Speed Demand Source	Uint32	n/a	n/a	R	0- Analog CAN 1- UP/DN ECU 2- UP/DN CAN 3- Analog ECU 5- Frequency 7- No CAN Demand
46038	J1939-ADEC Specified Torque	Uint32	Nm	n/a	R	<u>Data Range</u> 0 – 64255 Nm <u>Raw ECU Parameter Data</u> 1 Nm/bit gain, 0 Nm offset
46040	J1939-ADEC Engine Optimized	Uint32	n/a	n/a	R	<u>Raw ECU Parameter Data</u> 0 – 64255 Proprietary: Consult engine manufacturer
46042	J1939-ADEC Current P Degree	Uint32	Percent	n/a	R	<u>Data Range</u> 0 – 160.7375% <u>Raw ECU Parameter Data</u> 0.0025 %/bit gain, 0% offset

Register	Description	Type	Units	Scaling Factor	R/W	Range
46044	J1939-ADEC Day Tank Fill Percent	Uint32	Percent	n/a	R	<u>Data Range</u> 0 – 100% <u>Raw ECU Parameter Data</u> 0.4 %/bit gain, 0% offset
46046	J1939-ADEC Storage Tank Fill Percent	Uint32	Percent	n/a	R	<u>Data Range</u> 0 – 100% <u>Raw ECU Parameter Data</u> 0.4 %/bit gain, 0% offset
46048	J1939-ADEC Injection Quantity	Uint32	mm2	n/a	R	<u>Data Range</u> 0 – 429496729.5 <u>Raw ECU Parameter Data</u> 0.1 mm2/bit gain, 0 mm2 offset
46050	J1939-ADEC Engine Power Reserve	Uint32	Percent	n/a	R	<u>Data Range</u> 0 – 4294967.295 <u>Raw ECU Parameter Data</u> 0.001 %/bit gain, 0% offset
46052	J1939-ADEC Cylinder Cutout Code	Uint32	n/a	n/a	R	<u>Raw ECU Parameter Data</u> 0 – 4294967295 Proprietary: Consult engine manufacturer
46054	J1939-ADEC Start Sequence Bit Field	Uint32	n/a	n/a	R	<u>Raw ECU Parameter Data</u> 0 – 4294967295 Proprietary: Consult engine manufacturer
46056	J1939-ADEC P Lube Oil Limit LO	Uint32	mbar	n/a	R	<u>Data Range</u> 0 – 42949672.95 mbar <u>Raw ECU Parameter Data</u> 0.01 mbar/bit gain, 0 mbar offset
46058	J1939-ADEC P Lube Oil Limit LO LO	Uint32	mbar	n/a	R	<u>Data Range</u> 0 – 42949672.95 mbar <u>Raw ECU Parameter Data</u> 0.01 mbar/bit gain, 0 mbar offset
46060	J1939-ADEC P Charge Air Pressure	Uint32	mbar	n/a	R	<u>Data Range</u> 0 – 42949672.95 mbar <u>Raw ECU Parameter Data</u> 0.01 mbar/bit gain, 0 mbar offset
45062	J1939-ADEC AL Power Amp 1 Fail Bit Fld	Uint32	n/a	n/a	R	<u>Raw ECU Parameter Data</u> 0 – 4294967295 Proprietary Bit Field Data: Consult engine manufacturer for Details
46064	J1939-ADEC AL Power Amp 2 Fail Bit Fld	Uint32	n/a	n/a	R	<u>Raw ECU Parameter Data</u> 0 – 4294967295 Proprietary Bit Field Data: Consult engine manufacturer for Details
46066	J1939-ADEC AL Transistor Out Bit FI	Uint32	n/a	n/a	R	<u>Raw ECU Parameter Data</u> 0 – 4294967295 Proprietary Bit Field Data: Consult engine manufacturer for Details
46068	J1939-ADEC Camshaft RPM	Uint32	RPM	n/a	R	<u>Data Range</u> 0 – 429496729.5 rpm <u>Raw ECU Parameter Data</u> 0.1 rpm/bit gain, 0 rpm offset
46070	J1939-ADEC Daily Fuel Consumption	Uint32	Cubic meters	n/a	R	<u>Data Range</u> 0 – 429496.7295 m3 <u>Raw ECU Parameter Data</u> 0.0001 m3/bit gain, 0 m3 offset
46072	J1939-ADEC Frequency Speed Demand.	Uint32	RPM	n/a	R	<u>Data Range</u> 0 – 429496729.5 rpm <u>Raw ECU Parameter Data</u> 0.1 rpm/bit gain, 0 rpm offset
46074	J1939-ADEC Average Trip Fuel Consumption	Uint32	Liters/hour	n/a	R	<u>Data Range</u> 0 – 4294967.295 L/h <u>Raw ECU Parameter Data</u> 0.001 L/h per bit gain, 0 L/h offset
46076	J1939-ADEC Injection Quantity DBR Pct	Uint32	Percent	n/a	R	<u>Data Range</u> 0 – 42949672.95 <u>Raw ECU Parameter Data</u> 0.01 %/bit gain, 0% offset
46078	J1939-ADEC Actual Droop	Uint32	Percent	n/a	R	<u>Data Range</u> 0 – 4294967.295 <u>Raw ECU Parameter Data</u> 0.001 %/bit gain, 0% offset
46080	J1939-ADEC Nodes On CAN Bus	Uint32	n/a	n/a	R	<u>Raw ECU Parameter Data</u> 0 – 4294967295 Proprietary Bit Field Data: Consult engine manufacturer for Details
46082	J1939-ADEC Lost Nodes on CAN Bus	Uint32	n/a	n/a	R	<u>Raw ECU Parameter Data</u> 0 – 4294967295 Proprietary Bit Field Data: Consult engine manufacturer for Details

Register	Description	Type	Units	Scaling Factor	R/W	Range
46084	J1939-ADEC Trip Operating Time	Uint32	hours	n/a	R	<u>Data Range</u> 0 – 4294967.295 <u>Raw ECU Parameter Data</u> No gain or offset
46086	J1939-ADEC Transistor Out Bit Field	Uint32	n/a	n/a	R	<u>Raw ECU Parameter Data</u> 0 – 4294967295 Proprietary Bit Field Data: Consult engine manufacturer for Details
46088	J1939-ADEC L1L ECU Power Supply Volts	Uint32	Volts	n/a	R	<u>Data Range</u> 0 – 4294967.295 V <u>Raw ECU Parameter Data</u> 0.001 V/bit gain, 0 V offset
46090	J1939-ADEC L2L ECU Power Supply Volts	Uint32	Volts	n/a	R	<u>Data Range</u> 0 – 4294967.295 V <u>Raw ECU Parameter Data</u> 0.001 V/bit gain, 0 V offset
46092	J939-ADEC U1LECU Power Supply Volts	Uint32	Volts	n/a	R	<u>Data Range</u> 0 – 4294967.295 V <u>Raw ECU Parameter Data</u> 0.001 V/bit gain, 0 V offset
46094	J1939-ADEC U2L ECU Power Supply Volts	Uint32	Volts	n/a	R	<u>Data Range</u> 0 – 4294967.295 V <u>Raw ECU Parameter Data</u> 0.001 V/bit gain, 0 V offset
46096	J1939-ADEC Trip Idle Time	Uint32	Seconds	n/a	R	<u>Data Range</u> 0 – 4294967295 V <u>Raw ECU Parameter Data</u> No gain or offset
46098	J1939-ADEC T Coolant Limit Hi	Uint32	Degrees	n/a	R	<u>Data Range</u> 0 – 42949672.95 °C <u>Raw ECU Parameter Data</u> 0.01 °C/bit gain, 0 °C offset
46100	J1939-ADEC T Coolant Limit Hi Hi	Uint32	Degrees	n/a	R	<u>Data Range</u> 0 – 42949672.95 °C <u>Raw ECU Parameter Data</u> 0.01 °C/bit gain, 0 °C offset
46102	J1939-ADEC T Charge Air Limit Hi	Uint32	Degrees	n/a	R	<u>Data Range</u> 0 – 42949672.95 °C <u>Raw ECU Parameter Data</u> 0.01 °C/bit gain, 0 °C offset
46104	J1939-ADEC T Intercooler Limit Hi	Uint32	Degrees	n/a	R	<u>Data Range</u> 0 – 42949672.95 °C <u>Raw ECU Parameter Data</u> 0.01 °C/bit gain, 0 °C offset
46106	J1939-MTU Sps Node	Uint32	n/a	None	R	<u>Raw ECU Parameter Data</u> 0 – 255 Proprietary: Consult engine manufacturer
46108	J1939-MTU Sw Type	Uint32	n/a	None	R	<u>Raw ECU Parameter Data</u> 0 – 255 Proprietary: Consult engine manufacturer
46110	J1939-MTU Sw Var	Uint32	n/a	None	R	<u>Raw ECU Parameter Data</u> 0 – 255 Proprietary: Consult engine manufacturer
46112	J1939-MTU Sw Ed 1	Uint32	n/a	None	R	<u>Raw ECU Parameter Data</u> 0 – 255 Proprietary: Consult engine manufacturer
46114	J1939-MTU Sw Ed2	Uint32	n/a	None	R	<u>Raw ECU Parameter Data</u> 0 – 255 Proprietary: Consult engine manufacturer
46116	J1939-MTU Rev	Uint32	n/a	None	R	<u>Raw ECU Parameter Data</u> 0 – 255 Proprietary: Consult engine manufacturer
46118	J1939-MTU Sw Mod	Uint32	n/a	None	R	<u>Raw ECU Parameter Data</u> 0 – 255 Proprietary: Consult engine manufacturer
46120	J1939-ECU Protect Lamp Status Data	Uint32	Raw ECU Parameter Data	N/A	R	0 = Off 1 = On 2 = Slow Flash 3 = Fast Flash
46122	J1939-ECU Warning Lamp Status Data	Uint32	Raw ECU Parameter Data	N/A	R	0 = Off 1 = On 2 = Slow Flash 3 = Fast Flash

Register	Description	Type	Units	Scaling Factor	R/W	Range
46124	J1939-ECU Red Stop Lamp Status Data	Uint32	Raw ECU Parameter Data	N/A	R	0 = Off 1 = On 2 = Slow Flash 3 = Fast Flash
46126	J1939-ECU Malfunction Status Data	Uint32	Raw ECU Parameter Data	N/A	R	0 = Off 1 = On 2 = Slow Flash 3 = Fast Flash
46128-6248	Reserved					
46250	PLC Timer 1 Seconds	Int32	Second	Deci	RW	0 - 18000
46252	PLC Timer 2 Seconds	Int32	Second	Deci	RW	0 - 18000
46254	PLC Timer 3 Seconds	Int32	Second	Deci	RW	0 - 18000
46256	PLC Timer 4 Seconds	Int32	Second	Deci	RW	0 - 18000
46258	PLC Timer 5 Seconds	Int32	Second	Deci	RW	0 - 18000
46260	PLC Timer 6 Seconds	Int32	Second	Deci	RW	0 - 18000
46262	PLC Timer 7 Seconds	Int32	Second	Deci	RW	0 - 18000
46264	PLC Timer 8 Seconds	Int32	Second	Deci	RW	0 - 18000
46266	PLC Timer 9 Seconds	Int32	Second	Deci	RW	0 - 18000
46268	PLC Timer 10 Seconds	Int32	Second	Deci	RW	0 - 18000
46270-309	Reserved					
46310	AEM Input 1 Max Voltage	Int32	DeciVolt	Deci	RW	0 - 100
46312	AEM Input 1 Max Current	Int32	Milliamp x 10	Deci	RW	40 - 200
46314	AEM Input 1 Min Voltage	Int32	DeciVolt	Deci	RW	0 - 100
46316	AEM Input 1 Min Current	Int32	Milliamp x 10	Deci	RW	40 - 200
46318	AEM Input 1 Param Max	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46320	AEM Input 1 Param Min	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46322	AEM Input 1 Hysteresis	Int32	Deci Percent	Deci	RW	0 – 1000
46324	AEM Input 1 Arming Delay	Int32	Second	n/a	RW	0 – 300
46326	AEM Input 1 Threshold 1 Activation Delay	Int32	Second	n/a	RW	0 – 300
46328	AEM Input 1 Threshold 2 Activation Delay	Int32	Second	n/a	RW	0 – 300
46330	AEM Input 1 Over 1 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46332	AEM Input 1 Over 2 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46334	AEM Input 1 Under 1 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46336	AEM Input 1 Under 2 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46338	AEM Input 1 Over 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46340	AEM Input 1 Over 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46342	AEM Input 1 Under 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46344	AEM Input 1 Under 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46346	AEM Input 1 Out of Range Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46348	AEM Input 2 Max Voltage	Int32	DeciVolt	Deci	RW	0 - 100
46350	AEM Input 2 Max Current	Int32	Milliamp x 10	Deci	RW	40 - 200
46352	AEM Input 2 Min Voltage	Int32	DeciVolt	Deci	RW	0 - 100
46354	AEM Input 2 Min Current	Int32	Milliamp x 10	Deci	RW	40 - 200
46356	AEM Input 2 Param Max	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46358	AEM Input 2 Param Min	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46360	AEM Input 2 Hysteresis	Int32	Deci Percent	Deci	RW	0 – 1000
46362	AEM Input 2 Arming Delay	Int32	Second	n/a	RW	0 – 300
46364	AEM Input 2 Threshold 1 Activation Delay	Int32	Second	n/a	RW	0 – 300
46366	AEM Input 2 Threshold 2 Activation Delay	Int32	Second	n/a	RW	0 – 300
46368	AEM Input 2 Over 1 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900

Register	Description	Type	Units	Scaling Factor	R/W	Range
46370	AEM Input 2 Over 2 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46372	AEM Input 2 Under 1 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46374	AEM Input 2 Under 2 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46376	AEM Input 2 Over 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46378	AEM Input 2 Over 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46380	AEM Input 2 Under 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46382	AEM Input 2 Under 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46384	AEM Input 2 Out of Range Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46386	AEM Input 3 Max Voltage	Int32	DeciVolt	Deci	RW	0 - 100
46388	AEM Input 3 Max Current	Int32	Milliamp x 10	Deci	RW	40 - 200
46390	AEM Input 3 Min Voltage	Int32	DeciVolt	Deci	RW	0 - 100
46392	AEM Input 3 Min Current	Int32	Milliamp x 10	Deci	RW	40 - 200
46394	AEM Input 3 Param Max	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46396	AEM Input 3 Param Min	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46398	AEM Input 3 Hysteresis	Int32	Deci Percent	Deci	RW	0 – 1000
46400	AEM Input 3 Arming Delay	Int32	Second	n/a	RW	0 – 300
46402	AEM Input 3 Threshold 1 Activation Delay	Int32	Second	n/a	RW	0 – 300
46404	AEM Input 3 Threshold 2 Activation Delay	Int32	Second	n/a	RW	0 – 300
46406	AEM Input 3 Over 1 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46408	AEM Input 3 Over 2 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46410	AEM Input 3 Under 1 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46412	AEM Input 3 Under 2 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46414	AEM Input 3 Over 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46416	AEM Input 3 Over 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46418	AEM Input 3 Under 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46420	AEM Input 3 Under 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46422	AEM Input 3 Out of Range Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46424	AEM Input 4 Max Voltage	Int32	DeciVolt	Deci	RW	0 - 100
46426	AEM Input 4 Max Current	Int32	Milliamp x 10	Deci	RW	40 - 200
46428	AEM Input 4 Min Voltage	Int32	DeciVolt	Deci	RW	0 - 100
46430	AEM Input 4 Min Current	Int32	Milliamp x 10	Deci	RW	40 - 200
46432	AEM Input 4 Param Max	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46434	AEM Input 4 Param Min	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46436	AEM Input 4 Hysteresis	Int32	Deci Percent	Deci	RW	0 – 1000
46438	AEM Input 4 Arming Delay	Int32	Second	n/a	RW	0 – 300
46440	AEM Input 4 Threshold 1 Activation Delay	Int32	Second	n/a	RW	0 – 300
46442	AEM Input 4 Threshold 2 Activation Delay	Int32	Second	n/a	RW	0 – 300
46444	AEM Input 4 Over 1 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46446	AEM Input 4 Over 2 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46448	AEM Input 4 Under 1 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46450	AEM Input 4 Under 2 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46452	AEM Input 4 Over 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm

Register	Description	Type	Units	Scaling Factor	R/W	Range
46454	AEM Input 4 Over 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46456	AEM Input 4 Under 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46458	AEM Input 4 Under 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46460	AEM Input 4 Out of Range Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46462 - 46498	Reserved					
46500	AEM Input 5 Max Voltage	Int32	DeciVolt	Deci	RW	0 - 100
46502	AEM Input 5 Max Current	Int32	Milliamp x 10	Deci	RW	40 - 200
46504	AEM Input 5 Min Voltage	Int32	DeciVolt	Deci	RW	0 - 100
46506	AEM Input 5 Min Current	Int32	Milliamp x 10	Deci	RW	40 - 200
46508	AEM Input 5 Param Max	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46510	AEM Input 5 Param Min	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46512	AEM Input 5 Hysteresis	Int32	Deci Percent	Deci	RW	0 – 1000
46514	AEM Input 5 Arming Delay	Int32	Second	n/a	RW	0 – 300
46516	AEM Input 5 Threshold 1 Activation Delay	Int32	Second	n/a	RW	0 – 300
46518	AEM Input 5 Threshold 2 Activation Delay	Int32	Second	n/a	RW	0 – 300
46520	AEM Input 5 Over 1 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46522	AEM Input 5 Over 2 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46524	AEM Input 5 Under 1 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46526	AEM Input 5 Under 2 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46528	AEM Input 5 Over 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46530	AEM Input 5 Over 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46532	AEM Input 5 Under 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46534	AEM Input 5 Under 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46536	AEM Input 5 Out of Range Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46538	AEM Input 6 Max Voltage	Int32	DeciVolt	Deci	RW	0 - 100
46540	AEM Input 6 Max Current	Int32	Milliamp x 10	Deci	RW	40 - 200
46542	AEM Input 6 Min Voltage	Int32	DeciVolt	Deci	RW	0 - 100
46544	AEM Input 6 Min Current	Int32	Milliamp x 10	Deci	RW	40 - 200
46546	AEM Input 6 Param Max	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46548	AEM Input 6 Param Min	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46550	AEM Input 6 Hysteresis	Int32	Deci Percent	Deci	RW	0 – 1000
46552	AEM Input 6 Arming Delay	Int32	Second	n/a	RW	0 – 300
46554	AEM Input 6 Threshold 1 Activation Delay	Int32	Second	n/a	RW	0 – 300
46556	AEM Input 6 Threshold 2 Activation Delay	Int32	Second	n/a	RW	0 – 300
46558	AEM Input 6 Over 1 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46560	AEM Input 6 Over 2 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46562	AEM Input 6 Under 1 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46564	AEM Input 6 Under 2 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46566	AEM Input 6 Over 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46568	AEM Input 6 Over 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46570	AEM Input 6 Under 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm

Register	Description	Type	Units	Scaling Factor	R/W	Range
46572	AEM Input 6 Under 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46574	AEM Input 6 Out of Range Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46576	AEM Input 7 Max Voltage	Int32	DeciVolt	Deci	RW	0 - 100
46578	AEM Input 7 Max Current	Int32	Milliamp x 10	Deci	RW	40 - 200
46580	AEM Input 7 Min Voltage	Int32	DeciVolt	Deci	RW	0 - 100
46582	AEM Input 7 Min Current	Int32	Milliamp x 10	Deci	RW	40 - 200
46584	AEM Input 7 Param Max	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46586	AEM Input 7 Param Min	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46588	AEM Input 7 Hysteresis	Int32	Deci Percent	Deci	RW	0 – 1000
46590	AEM Input 7 Arming Delay	Int32	Second	n/a	RW	0 – 300
46592	AEM Input 7 Threshold 1 Activation Delay	Int32	Second	n/a	RW	0 – 300
46594	AEM Input 7 Threshold 2 Activation Delay	Int32	Second	n/a	RW	0 – 300
46596	AEM Input 7 Over 1 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46598	AEM Input 7 Over 2 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46600	AEM Input 7 Under 1 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46602	AEM Input 7 Under 2 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46604	AEM Input 7 Over 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46606	AEM Input 7 Over 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46608	AEM Input 7 Under 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46610	AEM Input 7 Under 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46612	AEM Input 7 Out of Range Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46614	AEM Input 8 Max Voltage	Int32	DeciVolt	Deci	RW	0 - 100
46616	AEM Input 8 Max Current	Int32	Milliamp x 10	Deci	RW	40 - 200
46618	AEM Input 8 Min Voltage	Int32	DeciVolt	Deci	RW	0 - 100
46620	AEM Input 8 Min Current	Int32	Milliamp x 10	Deci	RW	40 - 200
46622	AEM Input 8 Param Max	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46624	AEM Input 8 Param Min	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46626	AEM Input 8 Hysteresis	Int32	Deci Percent	Deci	RW	0 – 1000
46628	AEM Input 8 Arming Delay	Int32	Second	n/a	RW	0 – 300
46630	AEM Input 8 Threshold 1 Activation Delay	Int32	Second	n/a	RW	0 – 300
46632	AEM Input 8 Threshold 2 Activation Delay	Int32	Second	n/a	RW	0 – 300
46634	AEM Input 8 Over 1 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46636	AEM Input 8 Over 2 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46638	AEM Input 8 Under 1 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46640	AEM Input 8 Under 2 Threshold	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46642	AEM Input 8 Over 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46644	AEM Input 8 Over 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46646	AEM Input 8 Under 1 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46648	AEM Input 8 Under 2 Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46650	AEM Input 8 Out of Range Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46652	AEM Output 1 Max Voltage	Int32	DeciVolt	Deci	RW	0 – 100
46654	AEM Output 1 Max Current	Int32	Milliamp x 10	Deci	RW	40 – 200
46656	AEM Output 1 Min Voltage	Int32	DeciVolt	Deci	RW	0 – 100

Register	Description	Type	Units	Scaling Factor	R/W	Range
46658	AEM Output 1 Min Current	Int32	Milliamp x 10	Deci	RW	40 – 200
46660	AEM Output 1 Param Max	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46662	AEM Output 1 Param Min	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46664	AEM Output 1 Param Selection	Uint32	n/a	n/a	RW	No Parameter=0 OIL P=1 Coolant Temp=2 BATT V=3 RPM=4 FUEL LVL=5 Gen Hz=6 Gen VAB=7 Gen VBC=8 Gen VCA=9 Gen Vavg LL=10 GEN VAN=11 GEN VBN=12 GEN VCN=13 Gen Vavg LN=14 BUS 1 Hz=15 BUS 1 VAB=16 BUS 1 VBC=17 BUS 1 VCA=18 Bus 1 Vavg LL=19 Bus 1 VA=20 Bus 1 VB=21 Bus 1 VC=22 Bus 1 Vavg LN=23 BUS 2 Hz=24 BUS 2 VAB=25 BUS 2 VBC=26 BUS 2 VCA=27 Bus 2 Vavg LL=28 Bus 2 VAN=29 Bus 2 VBN=30 Bus 2 VCN=31 Bus 2 Vavg LN=32 Gen PF=33 BUS 1 PF=34 Bus 2 PF=35 Gen Pos kWH=36 Gen Neg kWH=37 Bus 1 Pos kWH=38 Bus 1 Neg kWH=39 Bus 2 Pos kWH=40 Bus 2 Neg kWH=41 Gen IA=42 Gen IB=43 Gen IC=44 Gen I Avg=45 BUS 1 IA=46 BUS 1 IB=47 BUS 1 IC=48 Bus 1 Iavg=49 Bus 2 IAN=50 Bus 2 IBN=51 Bus 2 ICN=52 Bus 2 Iavg=53 IG=54 I AUX=55 GEN kW A=56 GEN kW B=57 GEN kW C=58 GEN kW TOT=59 BUS 1 kW A=60 BUS 1 kW B=61 BUS 1 kW C=62 BUS 1 kW TOT=63 BUS 2 kW A=64 BUS 2 kW B=65 BUS 2 kW C=66 BUS 2 kW TOT=67 GEN kVA A=68 GEN kVA B=69 GEN kVA C=70 GEN kVA TOT=71 BUS 1 kVA A=72 BUS 1 kVA B=73 BUS 1 kVA C=74 BUS 1 kVA TOT=75 BUS 2 kVA A=76 BUS 2 kVA B=77 BUS 2 kVA C=78

Register	Description	Type	Units	Scaling Factor	R/W	Range
						BUS 2 kVA TOT=79 GEN kvar A=80 GEN kvar B=81 GEN kvar C=82 GEN kvar TOT=83 BUS 1 kvar A=84 BUS 1 kvar B=85 BUS 1 kvar C=86 BUS 1 kvar TOT=87 BUS 2 kvar A=88 BUS 2 kvar B=89 BUS 2 kvar C=90 BUS 2 kvar TOT=91 Fuel Pressure=92 Injector metering rail pressure=93 Total Fuel Used=94 Fuel temperature=95 Engine oil temperature=96 Engine intercooler temperature=97 Coolant pressure=98 Fuel Rate=99 Boost pressure=100 Intake manifold temperature=101 Charge air temperature=102 Engine Percent Load=103 Analog Input 1=104 Analog Input 2=105 Analog Input 3=106 Analog Input 4=107 kW Load Percent=108 Number of Units Online=109 System kW Capacity=110 System Total Gen kW=111 System Total Gen Kvar=112 AEM 1 Analog Input 1=300 AEM 1 Analog Input 2=301 AEM 1 Analog Input 3=302 AEM 1 Analog Input 4=303 AEM 1 Analog Input 5=304 AEM 1 Analog Input 6=305 AEM 1 Analog Input 7=306 AEM 1 Analog Input 8=307 AEM 1 RTD Input 1=308 AEM 1 RTD Input 2=309 AEM 1 RTD Input 3=310 AEM 1 RTD Input 4=311 AEM 1 RTD Input 5=312 AEM 1 RTD Input 6=313 AEM 1 RTD Input 7=314 AEM 1 RTD Input 8=315 AEM 1 TC Input 1=316 AEM 1 TC Input 2=317 AEM 2 Analog Input 1=318 AEM 2 Analog Input 2=319 AEM 2 Analog Input 3=320 AEM 2 Analog Input 4=321 AEM 2 Analog Input 5=322 AEM 2 Analog Input 6=323 AEM 2 Analog Input 7=324 AEM 2 Analog Input 8=325 AEM 2 RTD Input 1=326 AEM 2 RTD Input 2=327 AEM 2 RTD Input 3=328 AEM 2 RTD Input 4=329 AEM 2 RTD Input 5=330 AEM 2 RTD Input 6=331 AEM 2 RTD Input 7=332 AEM 2 RTD Input 8=333 AEM 2 TC Input 1=334 AEM 2 TC Input 2=335 AEM 3 Analog Input 1=336 AEM 3 Analog Input 2=337 AEM 3 Analog Input 3=338 AEM 3 Analog Input 4=339 AEM 3 Analog Input 5=340 AEM 3 Analog Input 6=341 AEM 3 Analog Input 7=342 AEM 3 Analog Input 8=343 AEM 3 RTD Input 1=344 AEM 3 RTD Input 2=345 AEM 3 RTD Input 3=346 AEM 3 RTD Input 4=347

Register	Description	Type	Units	Scaling Factor	R/W	Range
						AEM 3 RTD Input 5=348 AEM 3 RTD Input 6=349 AEM 3 RTD Input 7=350 AEM 3 RTD Input 8=351 AEM 3 TC Input 1=352 AEM 3 TC Input 2=353 AEM 4 Analog Input 1=354 AEM 4 Analog Input 2=355 AEM 4 Analog Input 3=356 AEM 4 Analog Input 4=357 AEM 4 Analog Input 5=358 AEM 4 Analog Input 6=359 AEM 4 Analog Input 7=360 AEM 4 Analog Input 8=361 AEM 4 RTD Input 1=362 AEM 4 RTD Input 2=363 AEM 4 RTD Input 3=364 AEM 4 RTD Input 4=365 AEM 4 RTD Input 5=366 AEM 4 RTD Input 6=367 AEM 4 RTD Input 7=368 AEM 4 RTD Input 8=369 AEM 4 TC Input 1=370 AEM 4 TC Input 2=371 AVR Output=372 GOV Output=373 LS Output=374
46666	AEM Output 1 Out of Range Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46668	AEM Output 1 Out of Range Time Delay	Int32	Second	n/a	RW	0 – 300
46670	AEM Output 2 Max Voltage	Int32	DeciVolt	Deci	RW	0 – 100
46672	AEM Output 2 Max Current	Int32	Milliamp x 10	Deci	RW	40 – 200
46674	AEM Output 2 Min Voltage	Int32	DeciVolt	Deci	RW	0 – 100
46676	AEM Output 2 Min Current	Int32	Milliamp x 10	Deci	RW	40 – 200
46678	AEM Output 2 Param Max	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46680	AEM Output 2 Param Min	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46682	AEM Output 2 Param Selection	Uint32	n/a	n/a	RW	No Parameter=0 OIL P=1 Coolant Temp=2 BATT V=3 RPM=4 FUEL LVL=5 Gen Hz=6 Gen VAB=7 Gen VBC=8 Gen VCA=9 Gen Vavg LL=10 GEN VAN=11 GEN VBN=12 GEN VCN=13 Gen Vavg LN=14 BUS 1 Hz=15 BUS 1 VAB=16 BUS 1 VBC=17 BUS 1 VCA=18 Bus 1 Vavg LL=19 Bus 1 VA=20 Bus 1 VB=21 Bus 1 VC=22 Bus 1 Vavg LN=23 BUS 2 Hz=24 BUS 2 VAB=25 BUS 2 VBC=26 BUS 2 VCA=27 Bus 2 Vavg LL=28 Bus 2 VAN=29 Bus 2 VBN=30 Bus 2 VCN=31 Bus 2 Vavg LN=32 Gen PF=33 BUS 1 PF=34 Bus 2 PF=35 Gen Pos kWH=36 Gen Neg kWH=37 Bus 1 Pos kWH=38 Bus 1 Neg kWH=39 Bus 2 Pos kWH=40 Bus 2 Neg kWH=41 Gen IA=42

Register	Description	Type	Units	Scaling Factor	R/W	Range
						Gen IB=43 Gen IC=44 Gen I Avg=45 BUS 1 IA=46 BUS 1 IB=47 BUS 1 IC=48 Bus 1 Iavg=49 Bus 2 IAN=50 Bus 2 IBN=51 Bus 2 ICN=52 Bus 2 Iavg=53 IG=54 I AUX=55 GEN kW A=56 GEN kW B=57 GEN kW C=58 GEN kW TOT=59 BUS 1 kW A=60 BUS 1 kW B=61 BUS 1 kW C=62 BUS 1 kW TOT=63 BUS 2 kW A=64 BUS 2 kW B=65 BUS 2 kW C=66 BUS 2 kW TOT=67 GEN kVA A=68 GEN kVA B=69 GEN kVA C=70 GEN kVA TOT=71 BUS 1 kVA A=72 BUS 1 kVA B=73 BUS 1 kVA C=74 BUS 1 kVA TOT=75 BUS 2 kVA A=76 BUS 2 kVA B=77 BUS 2 kVA C=78 BUS 2 kVA TOT=79 GEN kvar A=80 GEN kvar B=81 GEN kvar C=82 GEN kvar TOT=83 BUS 1 kvar A=84 BUS 1 kvar B=85 BUS 1 kvar C=86 BUS 1 kvar TOT=87 BUS 2 kvar A=88 BUS 2 kvar B=89 BUS 2 kvar C=90 BUS 2 kvar TOT=91 Fuel Pressure=92 Injector metering rail pressure=93 Total Fuel Used=94 Fuel temperature=95 Engine oil temperature=96 Engine intercooler temperature=97 Coolant pressure=98 Fuel Rate=99 Boost pressure=100 Intake manifold temperature=101 Charge air temperature=102 Engine Percent Load=103 Analog Input 1=104 Analog Input 2=105 Analog Input 3=106 Analog Input 4=107 kW Load Percent=108 Number of Units Online=109 System kW Capacity=110 System Total Gen kW=111 System Total Gen Kvar=112 AEM 1 Analog Input 1=300 AEM 1 Analog Input 2=301 AEM 1 Analog Input 3=302 AEM 1 Analog Input 4=303 AEM 1 Analog Input 5=304 AEM 1 Analog Input 6=305 AEM 1 Analog Input 7=306 AEM 1 Analog Input 8=307 AEM 1 RTD Input 1=308 AEM 1 RTD Input 2=309 AEM 1 RTD Input 3=310 AEM 1 RTD Input 4=311

Register	Description	Type	Units	Scaling Factor	R/W	Range
						AEM 1 RTD Input 5=312 AEM 1 RTD Input 6=313 AEM 1 RTD Input 7=314 AEM 1 RTD Input 8=315 AEM 1 TC Input 1=316 AEM 1 TC Input 2=317 AEM 2 Analog Input 1=318 AEM 2 Analog Input 2=319 AEM 2 Analog Input 3=320 AEM 2 Analog Input 4=321 AEM 2 Analog Input 5=322 AEM 2 Analog Input 6=323 AEM 2 Analog Input 7=324 AEM 2 Analog Input 8=325 AEM 2 RTD Input 1=326 AEM 2 RTD Input 2=327 AEM 2 RTD Input 3=328 AEM 2 RTD Input 4=329 AEM 2 RTD Input 5=330 AEM 2 RTD Input 6=331 AEM 2 RTD Input 7=332 AEM 2 RTD Input 8=333 AEM 2 TC Input 1=334 AEM 2 TC Input 2=335 AEM 3 Analog Input 1=336 AEM 3 Analog Input 2=337 AEM 3 Analog Input 3=338 AEM 3 Analog Input 4=339 AEM 3 Analog Input 5=340 AEM 3 Analog Input 6=341 AEM 3 Analog Input 7=342 AEM 3 Analog Input 8=343 AEM 3 RTD Input 1=344 AEM 3 RTD Input 2=345 AEM 3 RTD Input 3=346 AEM 3 RTD Input 4=347 AEM 3 RTD Input 5=348 AEM 3 RTD Input 6=349 AEM 3 RTD Input 7=350 AEM 3 RTD Input 8=351 AEM 3 TC Input 1=352 AEM 3 TC Input 2=353 AEM 4 Analog Input 1=354 AEM 4 Analog Input 2=355 AEM 4 Analog Input 3=356 AEM 4 Analog Input 4=357 AEM 4 Analog Input 5=358 AEM 4 Analog Input 6=359 AEM 4 Analog Input 7=360 AEM 4 Analog Input 8=361 AEM 4 RTD Input 1=362 AEM 4 RTD Input 2=363 AEM 4 RTD Input 3=364 AEM 4 RTD Input 4=365 AEM 4 RTD Input 5=366 AEM 4 RTD Input 6=367 AEM 4 RTD Input 7=368 AEM 4 RTD Input 8=369 AEM 4 TC Input 1=370 AEM 4 TC Input 2=371 AVR Output=372 GOV Output=373 LS Output=374
46684	AEM Output 2 Out of Range Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46686	AEM Output 2 Out of Range Time Delay	Int32	Second	n/a	RW	0 – 300
46688	AEM Output 3 Max Voltage	Int32	DeciVolt	Deci	RW	0 – 100
46690	AEM Output 3 Max Current	Int32	Milliamp x 10	Deci	RW	40 – 200
46692	AEM Output 3 Min Voltage	Int32	DeciVolt	Deci	RW	0 – 100
46694	AEM Output 3 Min Current	Int32	Milliamp x 10	Deci	RW	40 – 200
46696	AEM Output 3 Param Max	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46698	AEM Output 3 Param Min	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46700	AEM Output 3 Param Selection	UInt32	n/a	n/a	RW	No Parameter=0 OIL P=1 Coolant Temp=2 BATT V=3 RPM=4 FUEL LVL=5 Gen Hz=6

Register	Description	Type	Units	Scaling Factor	R/W	Range
						Gen VAB=7 Gen VBC=8 Gen VCA=9 Gen Vavg LL=10 GEN VAN=11 GEN VBN=12 GEN VCN=13 Gen Vavg LN=14 BUS 1 Hz=15 BUS 1 VAB=16 BUS 1 VBC=17 BUS 1 VCA=18 Bus 1 Vavg LL=19 Bus 1 VA=20 Bus 1 VB=21 Bus 1 VC=22 Bus 1 Vavg LN=23 BUS 2 Hz=24 BUS 2 VAB=25 BUS 2 VBC=26 BUS 2 VCA=27 Bus 2 Vavg LL=28 Bus 2 VAN=29 Bus 2 VBN=30 Bus 2 VCN=31 Bus 2 Vavg LN=32 Gen PF=33 BUS 1 PF=34 Bus 2 PF=35 Gen Pos kWH=36 Gen Neg kWH=37 Bus 1 Pos kWH=38 Bus 1 Neg kWH=39 Bus 2 Pos kWH=40 Bus 2 Neg kWH=41 Gen IA=42 Gen IB=43 Gen IC=44 Gen I Avg=45 BUS 1 IA=46 BUS 1 IB=47 BUS 1 IC=48 Bus 1 Iavg=49 Bus 2 IAN=50 Bus 2 IBN=51 Bus 2 ICN=52 Bus 2 Iavg=53 IG=54 I AUX=55 GEN kW A=56 GEN kW B=57 GEN kW C=58 GEN kW TOT=59 BUS 1 kW A=60 BUS 1 kW B=61 BUS 1 kW C=62 BUS 1 kW TOT=63 BUS 2 kW A=64 BUS 2 kW B=65 BUS 2 kW C=66 BUS 2 kW TOT=67 GEN kVA A=68 GEN kVA B=69 GEN kVA C=70 GEN kVA TOT=71 BUS 1 kVA A=72 BUS 1 kVA B=73 BUS 1 kVA C=74 BUS 1 kVA TOT=75 BUS 2 kVA A=76 BUS 2 kVA B=77 BUS 2 kVA C=78 BUS 2 kVA TOT=79 GEN kvar A=80 GEN kvar B=81 GEN kvar C=82 GEN kvar TOT=83 BUS 1 kvar A=84 BUS 1 kvar B=85 BUS 1 kvar C=86 BUS 1 kvar TOT=87 BUS 2 kvar A=88

Register	Description	Type	Units	Scaling Factor	R/W	Range
						BUS 2 kvar B=89 BUS 2 kvar C=90 BUS 2 kvar TOT=91 Fuel Pressure=92 Injector metering rail pressure=93 Total Fuel Used=94 Fuel temperature=95 Engine oil temperature=96 Engine intercooler temperature=97 Coolant pressure=98 Fuel Rate=99 Boost pressure=100 Intake manifold temperature=101 Charge air temperature=102 Engine Percent Load=103 Analog Input 1=104 Analog Input 2=105 Analog Input 3=106 Analog Input 4=107 kW Load Percent=108 Number of Units Online=109 System kW Capacity=110 System Total Gen kW=111 System Total Gen Kvar=112 AEM 1 Analog Input 1=300 AEM 1 Analog Input 2=301 AEM 1 Analog Input 3=302 AEM 1 Analog Input 4=303 AEM 1 Analog Input 5=304 AEM 1 Analog Input 6=305 AEM 1 Analog Input 7=306 AEM 1 Analog Input 8=307 AEM 1 RTD Input 1=308 AEM 1 RTD Input 2=309 AEM 1 RTD Input 3=310 AEM 1 RTD Input 4=311 AEM 1 RTD Input 5=312 AEM 1 RTD Input 6=313 AEM 1 RTD Input 7=314 AEM 1 RTD Input 8=315 AEM 1 TC Input 1=316 AEM 1 TC Input 2=317 AEM 2 Analog Input 1=318 AEM 2 Analog Input 2=319 AEM 2 Analog Input 3=320 AEM 2 Analog Input 4=321 AEM 2 Analog Input 5=322 AEM 2 Analog Input 6=323 AEM 2 Analog Input 7=324 AEM 2 Analog Input 8=325 AEM 2 RTD Input 1=326 AEM 2 RTD Input 2=327 AEM 2 RTD Input 3=328 AEM 2 RTD Input 4=329 AEM 2 RTD Input 5=330 AEM 2 RTD Input 6=331 AEM 2 RTD Input 7=332 AEM 2 RTD Input 8=333 AEM 2 TC Input 1=334 AEM 2 TC Input 2=335 AEM 3 Analog Input 1=336 AEM 3 Analog Input 2=337 AEM 3 Analog Input 3=338 AEM 3 Analog Input 4=339 AEM 3 Analog Input 5=340 AEM 3 Analog Input 6=341 AEM 3 Analog Input 7=342 AEM 3 Analog Input 8=343 AEM 3 RTD Input 1=344 AEM 3 RTD Input 2=345 AEM 3 RTD Input 3=346 AEM 3 RTD Input 4=347 AEM 3 RTD Input 5=348 AEM 3 RTD Input 6=349 AEM 3 RTD Input 7=350 AEM 3 RTD Input 8=351 AEM 3 TC Input 1=352 AEM 3 TC Input 2=353 AEM 4 Analog Input 1=354 AEM 4 Analog Input 2=355 AEM 4 Analog Input 3=356 AEM 4 Analog Input 4=357

Register	Description	Type	Units	Scaling Factor	R/W	Range
						AEM 4 Analog Input 5=358 AEM 4 Analog Input 6=359 AEM 4 Analog Input 7=360 AEM 4 Analog Input 8=361 AEM 4 RTD Input 1=362 AEM 4 RTD Input 2=363 AEM 4 RTD Input 3=364 AEM 4 RTD Input 4=365 AEM 4 RTD Input 5=366 AEM 4 RTD Input 6=367 AEM 4 RTD Input 7=368 AEM 4 RTD Input 8=369 AEM 4 TC Input 1=370 AEM 4 TC Input 2=371 AVR Output=372 GOV Output=373 LS Output=374
46702	AEM Output 3 Out of Range Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46704	AEM Output 3 Out of Range Time Delay	Int32	Second	n/a	RW	0 – 300
46706	AEM Output 4 Max Voltage	Int32	DeciVolt	Deci	RW	0 – 100
46708	AEM Output 4 Max Current	Int32	Milliamp x 10	Deci	RW	40 – 200
46710	AEM Output 4 Min Voltage	Int32	DeciVolt	Deci	RW	0 – 100
46712	AEM Output 4 Min Current	Int32	Milliamp x 10	Deci	RW	40 – 200
46714	AEM Output 4 Param Max	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46716	AEM Output 4 Param Min	Int32	Centi Unit	Centi	RW	(-100000000) – 99999900
46718	AEM Output 4 Param Selection	Uint32	n/a	n/a	RW	No Parameter=0 OIL P=1 Coolant Temp=2 BATT V=3 RPM=4 FUEL LVL=5 Gen Hz=6 Gen VAB=7 Gen VBC=8 Gen VCA=9 Gen Vavg LL=10 GEN VAN=11 GEN VBN=12 GEN VCN=13 Gen Vavg LN=14 BUS 1 Hz=15 BUS 1 VAB=16 BUS 1 VBC=17 BUS 1 VCA=18 Bus 1 Vavg LL=19 Bus 1 VA=20 Bus 1 VB=21 Bus 1 VC=22 Bus 1 Vavg LN=23 BUS 2 Hz=24 BUS 2 VAB=25 BUS 2 VBC=26 BUS 2 VCA=27 Bus 2 Vavg LL=28 Bus 2 VAN=29 Bus 2 VBN=30 Bus 2 VCN=31 Bus 2 Vavg LN=32 Gen PF=33 BUS 1 PF=34 Bus 2 PF=35 Gen Pos kWH=36 Gen Neg kWH=37 Bus 1 Pos kWH=38 Bus 1 Neg kWH=39 Bus 2 Pos kWH=40 Bus 2 Neg kWH=41 Gen IA=42 Gen IB=43 Gen IC=44 Gen I Avg=45 BUS 1 IA=46 BUS 1 IB=47 BUS 1 IC=48 Bus 1 Iavg=49 Bus 2 IAN=50 Bus 2 IBN=51 Bus 2 ICN=52

Register	Description	Type	Units	Scaling Factor	R/W	Range
						Bus 2 Iavg=53 IG=54 I AUX=55 GEN kW A=56 GEN kW B=57 GEN kW C=58 GEN kW TOT=59 BUS 1 kW A=60 BUS 1 kW B=61 BUS 1 kW C=62 BUS 1 kW TOT=63 BUS 2 kW A=64 BUS 2 kW B=65 BUS 2 kW C=66 BUS 2 kW TOT=67 GEN kVA A=68 GEN kVA B=69 GEN kVA C=70 GEN kVA TOT=71 BUS 1 kVA A=72 BUS 1 kVA B=73 BUS 1 kVA C=74 BUS 1 kVA TOT=75 BUS 2 kVA A=76 BUS 2 kVA B=77 BUS 2 kVA C=78 BUS 2 kVA TOT=79 GEN kvar A=80 GEN kvar B=81 GEN kvar C=82 GEN kvar TOT=83 BUS 1 kvar A=84 BUS 1 kvar B=85 BUS 1 kvar C=86 BUS 1 kvar TOT=87 BUS 2 kvar A=88 BUS 2 kvar B=89 BUS 2 kvar C=90 BUS 2 kvar TOT=91 Fuel Pressure=92 Injector metering rail pressure=93 Total Fuel Used=94 Fuel temperature=95 Engine oil temperature=96 Engine intercooler temperature=97 Coolant pressure=98 Fuel Rate=99 Boost pressure=100 Intake manifold temperature=101 Charge air temperature=102 Engine Percent Load=103 Analog Input 1=104 Analog Input 2=105 Analog Input 3=106 Analog Input 4=107 kW Load Percent=108 Number of Units Online=109 System kW Capacity=110 System Total Gen kW=111 System Total Gen Kvar=112 AEM 1 Analog Input 1=300 AEM 1 Analog Input 2=301 AEM 1 Analog Input 3=302 AEM 1 Analog Input 4=303 AEM 1 Analog Input 5=304 AEM 1 Analog Input 6=305 AEM 1 Analog Input 7=306 AEM 1 Analog Input 8=307 AEM 1 RTD Input 1=308 AEM 1 RTD Input 2=309 AEM 1 RTD Input 3=310 AEM 1 RTD Input 4=311 AEM 1 RTD Input 5=312 AEM 1 RTD Input 6=313 AEM 1 RTD Input 7=314 AEM 1 RTD Input 8=315 AEM 1 TC Input 1=316 AEM 1 TC Input 2=317 AEM 2 Analog Input 1=318 AEM 2 Analog Input 2=319 AEM 2 Analog Input 3=320 AEM 2 Analog Input 4=321

Register	Description	Type	Units	Scaling Factor	R/W	Range
						AEM 2 Analog Input 5=322 AEM 2 Analog Input 6=323 AEM 2 Analog Input 7=324 AEM 2 Analog Input 8=325 AEM 2 RTD Input 1=326 AEM 2 RTD Input 2=327 AEM 2 RTD Input 3=328 AEM 2 RTD Input 4=329 AEM 2 RTD Input 5=330 AEM 2 RTD Input 6=331 AEM 2 RTD Input 7=332 AEM 2 RTD Input 8=333 AEM 2 TC Input 1=334 AEM 2 TC Input 2=335 AEM 3 Analog Input 1=336 AEM 3 Analog Input 2=337 AEM 3 Analog Input 3=338 AEM 3 Analog Input 4=339 AEM 3 Analog Input 5=340 AEM 3 Analog Input 6=341 AEM 3 Analog Input 7=342 AEM 3 Analog Input 8=343 AEM 3 RTD Input 1=344 AEM 3 RTD Input 2=345 AEM 3 RTD Input 3=346 AEM 3 RTD Input 4=347 AEM 3 RTD Input 5=348 AEM 3 RTD Input 6=349 AEM 3 RTD Input 7=350 AEM 3 RTD Input 8=351 AEM 3 TC Input 1=352 AEM 3 TC Input 2=353 AEM 4 Analog Input 1=354 AEM 4 Analog Input 2=355 AEM 4 Analog Input 3=356 AEM 4 Analog Input 4=357 AEM 4 Analog Input 5=358 AEM 4 Analog Input 6=359 AEM 4 Analog Input 7=360 AEM 4 Analog Input 8=361 AEM 4 RTD Input 1=362 AEM 4 RTD Input 2=363 AEM 4 RTD Input 3=364 AEM 4 RTD Input 4=365 AEM 4 RTD Input 5=366 AEM 4 RTD Input 6=367 AEM 4 RTD Input 7=368 AEM 4 RTD Input 8=369 AEM 4 TC Input 1=370 AEM 4 TC Input 2=371 AVR Output=372 GOV Output=373 LS Output=374
46720	AEM Output 4 Out of Range Alarm Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46722	AEM Output 4 Out of Range Time Delay	Int32	Second	n/a	RW	0 – 300
46724 - 46748	Reserved					
46750	User Config Input 1 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46752	User Config Input 1 Time Delay	Int32	Second	n/a	RW	0 – 300
46754	User Config Input 1 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46756	User Config Input 2 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46758	User Config Input 2 Time Delay	Int32	Second	n/a	RW	0 – 300
46760	User Config Input 2 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46762	User Config Input 3 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46764	User Config Input 3 Time Delay	Int32	Second	n/a	RW	0 – 300
46766	User Config Input 3 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only

Register	Description	Type	Units	Scaling Factor	R/W	Range
46768	User Config Input 4 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46770	User Config Input 4 Time Delay	Int32	Second	n/a	RW	0 – 300
46772	User Config Input 4 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46774	User Config Input 5 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46776	User Config Input 5 Time Delay	Int32	Second	n/a	RW	0 – 300
46778	User Config Input 5 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46780	User Config Input 6 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46782	User Config Input 6 Time Delay	Int32	Second	n/a	RW	0 – 300
46784	User Config Input 6 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46786	User Config Input 7 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46788	User Config Input 7 Time Delay	Int32	Second	n/a	RW	0 – 300
46790	User Config Input 7 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46792	User Config Input 8 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46794	User Config Input 8 Time Delay	Int32	Second	n/a	RW	0 – 300
46796	User Config Input 8 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46798	User Config Input 9 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46800	User Config Input 9 Time Delay	Int32	Second	n/a	RW	0 – 300
46802	User Config Input 9 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46804	User Config Input 10 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46806	User Config Input 10 Time Delay	Int32	Second	n/a	RW	0 – 300
46808	User Config Input 10 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46810	User Config Input 11 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46812	User Config Input 11 Time Delay	Int32	Second	n/a	RW	0 – 300
46814	User Config Input 11 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46816	User Config Input 12 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46818	User Config Input 12 Time Delay	Int32	Second	n/a	RW	0 – 300
46820	User Config Input 12 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46822	User Config Input 13 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46824	User Config Input 13 Time Delay	Int32	Second	n/a	RW	0 – 300
46826	User Config Input 13 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46828	User Config Input 14 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46830	User Config Input 14 Time Delay	Int32	Second	n/a	RW	0 – 300
46832	User Config Input 14 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46834	User Config Input 15 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm

Register	Description	Type	Units	Scaling Factor	R/W	Range
46836	User Config Input 15 Time Delay	Int32	Second	n/a	RW	0 – 300
46838	User Config Input 15 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46840	User Config Input 16 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46842	User Config Input 16 Time Delay	Int32	Second	n/a	RW	0 – 300
46844	User Config Input 16 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46846	User Config Input 17 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46848	User Config Input 17 Time Delay	Int32	Second	n/a	RW	0 – 300
46850	User Config Input 17 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46852	User Config Input 18 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46854	User Config Input 18 Time Delay	Int32	Second	n/a	RW	0 – 300
46856	User Config Input 18 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46858	User Config Input 19 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46860	User Config Input 19 Time Delay	Int32	Second	n/a	RW	0 – 300
46862	User Config Input 19 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46864	User Config Input 20 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46866	User Config Input 20 Time Delay	Int32	Second	n/a	RW	0 – 300
46868	User Config Input 20 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46870	User Config Input 21 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46872	User Config Input 21 Time Delay	Int32	Second	n/a	RW	0 – 300
46874	User Config Input 21 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46876	User Config Input 22 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46878	User Config Input 22 Time Delay	Int32	Second	n/a	RW	0 – 300
46880	User Config Input 22 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46882	User Config Input 23 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46884	User Config Input 23 Time Delay	Int32	Second	n/a	RW	0 – 300
46886	User Config Input 23 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46888	User Config Input 24 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46890	User Config Input 24 Time Delay	Int32	Second	n/a	RW	0 – 300
46892	User Config Input 24 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46894	User Config Input 25 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46896	User Config Input 25 Time Delay	Int32	Second	n/a	RW	0 – 300
46898	User Config Input 25 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46900	User Config Input 26 Config Type	Int32	n/a	n/a	RW	0 = Status Only 1 = Pre-Alarm 2 = Alarm
46902	User Config Input 26 Time Delay	Int32	Second	n/a	RW	0 – 300

Register	Description	Type	Units	Scaling Factor	R/W	Range
46904	User Config Input 26 Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46906	ATS Contact Input	Int32	n/a	n/a	RW	-1 = None 0 = Input 1 1 = Input 2 2 = Input 3 3 = Input 4 4 = Input 5 5 = Input 6 6 = Input 7 7 = Input 8 8 = Input 9 9 = Input 10 10 = Input 11 11 = Input 12 12 = Input 13 13 = Input 14 14 = Input 15 15 = Input 16
46908	ATS Time Delay	Int32	Second	n/a	RW	0 – 300
46910	ATS Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46912	Battle Override Contact Input	Int32	n/a	n/a	RW	-1 = None 0 = Input 1 1 = Input 2 2 = Input 3 3 = Input 4 4 = Input 5 5 = Input 6 6 = Input 7 7 = Input 8 8 = Input 9 9 = Input 10 10 = Input 11 11 = Input 12 12 = Input 13 13 = Input 14 14 = Input 15 15 = Input 16
46914	Battle Override Time Delay	Int32	Second	n/a	RW	0 – 300
46916	Battle Override Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46918	Low Coolant Level Contact Input	Int32	n/a	n/a	RW	-1 = None 0 = Input 1 1 = Input 2 2 = Input 3 3 = Input 4 4 = Input 5 5 = Input 6 6 = Input 7 7 = Input 8 8 = Input 9 9 = Input 10 10 = Input 11 11 = Input 12 12 = Input 13 13 = Input 14 14 = Input 15 15 = Input 16
46920	Low Coolant Level Config Type	Int32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm
46922	Low Coolant Level Time Delay	Int32	Second	n/a	RW	0 – 300
46924	Low Coolant Level Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only

Register	Description	Type	Units	Scaling Factor	R/W	Range
46926	Battery Charge Failed Contact Input	Int32	n/a	n/a	RW	-1 = None 0 = Input 1 1 = Input 2 2 = Input 3 3 = Input 4 4 = Input 5 5 = Input 6 6 = Input 7 7 = Input 8 8 = Input 9 9 = Input 10 10 = Input 11 11 = Input 12 12 = Input 13 13 = Input 14 14 = Input 15 15 = Input 16
46928	Battery Charge Failed Config Type	Int32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm
46930	Battery Charge Failed Time Delay	Int32	Second	n/a	RW	0 – 300
46932	Battery Charge Failed Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46934	Fuel Leak Detect Contact Input	Int32	n/a	n/a	RW	-1 = None 0 = Input 1 1 = Input 2 2 = Input 3 3 = Input 4 4 = Input 5 5 = Input 6 6 = Input 7 7 = Input 8 8 = Input 9 9 = Input 10 10 = Input 11 11 = Input 12 12 = Input 13 13 = Input 14 14 = Input 15 15 = Input 16
46936	Fuel Leak Detect Config Type	Int32	n/a	n/a	RW	0 = None 1 = Alarm 2 = Pre-Alarm
46938	Fuel Leak Detect Time Delay	Int32	Second	n/a	RW	0 – 300
46940	Fuel Leak Detect Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46942	Single-Phase Connection Override Contact Input	Int32	n/a	n/a	RW	-1 = None 0 = Input 1 1 = Input 2 2 = Input 3 3 = Input 4 4 = Input 5 5 = Input 6 6 = Input 7 7 = Input 8 8 = Input 9 9 = Input 10 10 = Input 11 11 = Input 12 12 = Input 13 13 = Input 14 14 = Input 15 15 = Input 16
46944	Reserved					
46946	Single-Phase Connection Override Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only

Register	Description	Type	Units	Scaling Factor	R/W	Range
46948	Single-Phase AC Sense Override Contact Input	Int32	n/a	n/a	RW	-1 = None 0 = Input 1 1 = Input 2 2 = Input 3 3 = Input 4 4 = Input 5 5 = Input 6 6 = Input 7 7 = Input 8 8 = Input 9 9 = Input 10 10 = Input 11 11 = Input 12 12 = Input 13 13 = Input 14 14 = Input 15 15 = Input 16
46950	Single-Phase AC Sense Override Time Delay	Int32	Second	n/a	RW	0 – 300
46952	Single-Phase AC Sense Override Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46954	High/Low Line Contact Input	Int32	n/a	n/a	RW	-1 = None 0 = Input 1 1 = Input 2 2 = Input 3 3 = Input 4 4 = Input 5 5 = Input 6 6 = Input 7 7 = Input 8 8 = Input 9 9 = Input 10 10 = Input 11 11 = Input 12 12 = Input 13 13 = Input 14 14 = Input 15 15 = Input 16
46956	Hi/Lo Line Time Delay	Int32	Second	n/a	RW	0 – 300
46958	Hi/Lo Line Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only
46960	Grounded Delta Override Contact Input	Int32	n/a	n/a	RW	-1 = None 0 = Input 1 1 = Input 2 2 = Input 3 3 = Input 4 4 = Input 5 5 = Input 6 6 = Input 7 7 = Input 8 8 = Input 9 9 = Input 10 10 = Input 11 11 = Input 12 12 = Input 13 13 = Input 14 14 = Input 15 15 = Input 16
46962	Grounded Delta Override Time Delay	Int32	Second	n/a	RW	0 – 300
46964	Grounded Delta Override Engine Running Only	Int32	n/a	n/a	RW	0 = Always 1 = While Engine Running Only

Revision History

Table 5 provides a historical summary of the changes made to this instruction manual. Revisions are listed in chronological order.

Table 5. Instruction Manual Revision History

Manual Revision and Date	Change
—, Oct-16	• Initial release
A, Dec-16	• Improved descriptions of register 1002 bits 7 and 8 • Added caution statement about nonvolatile memory
B, May-17	• Added/updated registers for firmware version 2.04.00
C, Jan-18	• Added section on 32-Bit Bit-Mapped Parameter Mapping in the <i>General Information</i> chapter • Updated range in register 10942 in the <i>Metering</i> chapter • Added registers 45012-45326, 45334-45498, and 46000-46126 in the <i>Legacy Register Table</i> chapter





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