



MEC20

MICROPROCESSOR ENGINE/GENERATOR CONTROLLER

SUMMARY CONFIGURATION DATA SHEET

WORK ORDER #: 00000-00-00-TST	REV.: 0	REV. DATE: 02/03/22
INITIATED BY: Admin	CUSTOMER: Training Manual	DEFAULT PROGRAM: P2
DATE: 02/03/22	PROJECT NAME: Test data sheets	TPS VER: HA
	NOTES:	

ENGINE/GEN SYSTEM INPUTS

SYSTEM AC VOLTS: 480	PHASES: 3	FREQUENCY: 60	DC VOLTAGE: 24
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DIGITAL DISPLAY FEATURES

<input checked="" type="checkbox"/> AC VOLTAGE	Enabled	<input checked="" type="checkbox"/> AC CURRENT	Enabled	<input checked="" type="checkbox"/> BATTERY VOLTAGE
<input checked="" type="checkbox"/> ENGINE TEMPERATURE	Enabled	<input checked="" type="checkbox"/> KVA		<input checked="" type="checkbox"/> TACHOMETER
<input checked="" type="checkbox"/> OIL PRESSURE	Enabled	<input checked="" type="checkbox"/> FREQUENCY		<input checked="" type="checkbox"/> HOURMETER

DIGITAL FAULT CIRCUITS

ANALOG FAULT CIRCUITS

FAULT NAME	INPUT TYPE
Overcrank Shutdown	Internal
Switch Not in Auto Alarm	Internal
Emergency Stop	Internal/External
Low Oil Pressure Shutdown	External Digital Input #1
High Engine Temp Shutdown	External Digital Input #2
Bat Chrg Input Alarm	External Digital Input #3
Low Fuel Level Alarm	External Digital Input #4
* Shutdown	External Digital Input #5
* Shutdown	External Digital Input #6
* Shutdown	External Digital Input #7
* Shutdown	External Digital Input #8
* Shutdown	External Digital Input #9
* Shutdown	External Digital Input #10
Remote EmergStop Shutdown	External Digital Input #11
Idle Alarm	External Digital Input #12

FAULT NAME	INPUT TYPE
Overspeed Shutdown	Mag-Pickup
Loss of Speed Signal Shutdown	Mag-Pickup
Undervoltage Shutdown	AC Voltage
Overvoltage Shutdown	AC Voltage
Under Frequency Alarm	AC Freq
Over Frequency Alarm	AC Freq
Overcurrent Alarm	AC Current
Weak Battery Alarm	DC Voltage
Low Battery Volt Alarm	DC Voltage
High Battery Volt Alarm	DC Voltage
Low Engine Temp Alarm	Temp Sender
High Eng Temp #1 Alarm	Temp Sender
High Eng Temp #2 Shutdown	Temp Sender
Low Oil Press #1 Alarm	Press Sender
Low Oil Press #2 Shutdown	Press Sender

STANDARD OUTPUT CONTACTS

OUTPUT NAME	OUTPUT TYPE
Run (Fuel)	Form A
Crank	Form A
Common Fail	Form C

PROGRAMMABLE OUTPUT CONTACTS

OUTPUT NAME	OUTPUT TYPE
ATS Test	Programmable #1 - Form C
Running	Programmable #2 - Form C
Common alarm	Programmable #3 - Form C
Common shutdown	Programmable #4 - Form C
Disabled	Programmable #5 - Form A/B
Disabled	Programmable #6 - Form A/B

OTHER OPTIONAL FEATURES

* indicates custom digital fault



Main Menu Program

MEC20

Software ver. 1.7

WORK ORDER: 00000-00-00-TST

REVISION #: 0

REVISION DATE: 02/03/22

START DATE: 02/03/22

START BY: Admin

DEFAULT PROGRAM: P2

TPS VERSION: HA

CUSTOMER: Training Manual
PROJECT: Test data sheets
PRODUCT: MEC20

Read only password:	1	<input type="checkbox"/>	
Read/write password:	2	<input type="checkbox"/>	
Master password:	3	<input type="checkbox"/>	
Node Address:	1	<input type="checkbox"/>	1-255
System Voltage:	480	<input type="checkbox"/>	Line to line voltage 120-15000
System Frequency:	60	<input type="checkbox"/>	Toggle between 50/60 Hz
System Phases:	3	<input type="checkbox"/>	Toggle between 1 & 3 phase
Neutral Connected:	Yes	<input type="checkbox"/>	Toggle between Yes/No
Voltage Sensing:	1	<input type="checkbox"/>	Voltage sensing PT ratio 1-208
CurrentSensing:	100	<input type="checkbox"/>	Current sensing CT ratio 1-999
Temperature Scale:	F	<input type="checkbox"/>	Toggle between Deg C/Deg F
Pressure Scale:	PSI	<input type="checkbox"/>	Toggle between PSI/KPA
Start Delay:	3	<input type="checkbox"/>	0-999 seconds
Crank Time:	15	<input type="checkbox"/>	0-99 seconds
Rest Time:	15	<input type="checkbox"/>	0-99 seconds
Starter Re-Engage:	3	<input type="checkbox"/>	1-99 seconds 0=disabled
Number of Cranks:	3	<input type="checkbox"/>	1-99 times 0=continuous
Bypass Delay:	10	<input type="checkbox"/>	0-99 seconds
Cooldown Delay:	120	<input type="checkbox"/>	0-9999 seconds
Nominal RPM:	1800	<input type="checkbox"/>	0-4000 RPM
Flywheel Teeth:	150	<input type="checkbox"/>	0-999 teeth
Crank Disconnect:	30%	<input type="checkbox"/>	0-100%
Overspeed:	110%	<input type="checkbox"/>	100-150%
Overspeed Transient:	0.1	<input type="checkbox"/>	0.0-9.9 seconds
Run Output Failsafe:	Yes	<input type="checkbox"/>	Toggle between Yes/No
Loss of Speed:	Shutdown	<input type="checkbox"/>	Toggle between Alarm/Shutdown
Common Fail for not in Auto:	Yes	<input type="checkbox"/>	Toggle between Yes/No
Horn For Not In Auto:	No	<input type="checkbox"/>	Toggle between Yes/No
Programmable Output1:	ATS Test	<input type="checkbox"/>	Choose from list
Programmable Output2:	Running	<input type="checkbox"/>	Choose from list
Programmable Output3:	Common alarm	<input type="checkbox"/>	Choose from list
Programmable Output4:	Common shutdown	<input type="checkbox"/>	Choose from list
Programmable Output5:	Disabled	<input type="checkbox"/>	Choose from list
Programmable Output6:	Disabled	<input type="checkbox"/>	Choose from list
Warm Up Delay:	3	<input type="checkbox"/>	0-99 seconds
Neutral Delay:	0	<input type="checkbox"/>	0-99 seconds
Return Delay:	120	<input type="checkbox"/>	0-999 seconds
Auto Callout:	Common Fail	<input type="checkbox"/>	Toggle Common Alarm, Fail, Shutdown
Post Lube Duration:	0	<input type="checkbox"/>	0-999 minutes
Cycle Lube Interval:	1	<input type="checkbox"/>	1-9999 minutes
Cycle Lube Duration:	0	<input type="checkbox"/>	0-999 minutes
Cycle Lube Option:	Yes	<input type="checkbox"/>	Toggle between Yes/No
Remote Communication:	No	<input type="checkbox"/>	Toggle between Yes/No
Display Menu Timeout:	999	<input type="checkbox"/>	0-999 seconds
Voltage Metering:	Enabled	<input type="checkbox"/>	Toggle between Enabled/Disabled
Current Metering:	Enabled	<input type="checkbox"/>	Toggle between Enabled/Disabled



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Engine Temp Metering:	Enabled	<input type="checkbox"/>	Toggle between Enabled/Disabled
Oil Pressure Metering:	Enabled	<input type="checkbox"/>	Toggle between Enabled/Disabled
Reset Run Hours:	No	<input type="checkbox"/>	Toggle between Yes/No

MEC 20 PROGRAMMING SHEETS DIGITAL FAULTS

CUSTOMER: Training Manual
PROJECT: Test data sheets
PRODUCT: MEC20

WORK ORDER: 00000-00-00-TST

REVISION #: 0
REVISION DATE: 02/03/22

TPS VERSION: HA
START DATE: 02/03/22
START BY: Admin
DEFAULT PROGRAM: P2

FAULT NAME	INPUT NUMBER	ACTION	ALARM LATCH	POLARITY	BYPASS ON START	TRANSIENT DELAY
		SHUTDOWN/ ALARM	YES/NO	OPEN/CLOSE	YES/NO	(SEC)
Low Oil Pressure	1	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Open <input type="checkbox"/>	Yes <input type="checkbox"/>	0.5 <input type="checkbox"/>
High Engine Temp	2	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Open <input type="checkbox"/>	Yes <input type="checkbox"/>	1 <input type="checkbox"/>
Bat Chrgr Input	3	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>	Close <input type="checkbox"/>	No <input type="checkbox"/>	30 <input type="checkbox"/>
Low Fuel Level	4	Alarm <input type="checkbox"/>	No <input type="checkbox"/>	Close <input type="checkbox"/>	No <input type="checkbox"/>	0.1 <input type="checkbox"/>
*	5	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Close <input type="checkbox"/>	No <input type="checkbox"/>	0.1 <input type="checkbox"/>
*	6	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Close <input type="checkbox"/>	No <input type="checkbox"/>	0.1 <input type="checkbox"/>
*	7	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Close <input type="checkbox"/>	No <input type="checkbox"/>	0.1 <input type="checkbox"/>
*	8	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Close <input type="checkbox"/>	No <input type="checkbox"/>	0.1 <input type="checkbox"/>
*	9	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Close <input type="checkbox"/>	No <input type="checkbox"/>	0.1 <input type="checkbox"/>
*	10	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Close <input type="checkbox"/>	No <input type="checkbox"/>	0.1 <input type="checkbox"/>
Remote EmergStop	11	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Close <input type="checkbox"/>	No <input type="checkbox"/>	0.1 <input type="checkbox"/>
Idle	12	Alarm <input type="checkbox"/>	No <input type="checkbox"/>	Close <input type="checkbox"/>	No <input type="checkbox"/>	0.1 <input type="checkbox"/>

* indicates custom digital fault

MEC20 PROGRAMMING SHEETS

ANALOG FAULTS

CUSTOMER: Training Manual
 PROJECT: Test data sheets
 PRODUCT: MEC20

WORK ORDER: 00000-00-00-TST

REVISION #: 0
 REVISION DATE: 02/03/22

TPS VERSION: HA
 START DATE: 02/03/22
 START BY: Admin
 DEFAULT PROGRAM: P2

FAULT NAME	INPUT ANALOG TYPE	FAULT ENABLE/ DISABLE	SETPOINT	SETPOINT	UNITS	ACTION SHUTDOWN/ ALARM	ALARM	BYPASS	TRANSIENT
			LEVEL (PICK-UP)	LEVEL (DROP-OUT)			LATCH YES/NO	ON START YES/NO	DELAY (SEC)
Undervoltage	AC Voltage	Enabled <input type="checkbox"/>	432 <input type="checkbox"/>	384 <input type="checkbox"/>	V	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Yes <input type="checkbox"/>	5 <input type="checkbox"/>
Overvoltage	AC Voltage	Enabled <input type="checkbox"/>	528 <input type="checkbox"/>	518 <input type="checkbox"/>	V	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	No <input type="checkbox"/>	2 <input type="checkbox"/>
Under Frequency	AC Freq	Enabled <input type="checkbox"/>	57.0 <input type="checkbox"/>	<input type="checkbox"/>	HZ	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	5 <input type="checkbox"/>
Over Frequency	AC Freq	Enabled <input type="checkbox"/>	63.0 <input type="checkbox"/>	<input type="checkbox"/>	HZ	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	2 <input type="checkbox"/>
Overcurrent	AC Current	Enabled <input type="checkbox"/>	5000 <input type="checkbox"/>	4990 <input type="checkbox"/>	A	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	20 <input type="checkbox"/>
Weak Battery	DC Voltage	Enable <input type="checkbox"/>	18.0 <input type="checkbox"/>	<input type="checkbox"/>	V	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	3 <input type="checkbox"/>
Low Battery Volt	DC Voltage	Enable <input type="checkbox"/>	25.6 <input type="checkbox"/>	<input type="checkbox"/>	V	Alarm <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	120 <input type="checkbox"/>
High Battery Volt	DC Voltage	Enable <input type="checkbox"/>	30.4 <input type="checkbox"/>	<input type="checkbox"/>	V	Alarm <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	10 <input type="checkbox"/>
Low Engine Temp	Temp Sender	Enable <input type="checkbox"/>	95 <input type="checkbox"/>	<input type="checkbox"/>	DEG F	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	5 <input type="checkbox"/>
High Eng Temp #1	Temp Sender	Enable <input type="checkbox"/>	198 <input type="checkbox"/>	<input type="checkbox"/>	DEG F	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	2 <input type="checkbox"/>
High Eng Temp #2	Temp Sender	Enable <input type="checkbox"/>	206 <input type="checkbox"/>	<input type="checkbox"/>	DEG F	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Yes <input type="checkbox"/>	2 <input type="checkbox"/>
Low Oil Press #1	Press Sender	Enable <input type="checkbox"/>	30 <input type="checkbox"/>	<input type="checkbox"/>	PSI	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	2 <input type="checkbox"/>
Low Oil Press #2	Press Sender	Enable <input type="checkbox"/>	20 <input type="checkbox"/>	<input type="checkbox"/>	PSI	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Yes <input type="checkbox"/>	2 <input type="checkbox"/>



Calibration MEC20

Software ver. 1.7

CUSTOMER: Training Manual
PROJECT: Test data sheets
PRODUCT: MEC20

WORK ORDER: 00000-00-00-TST
CONTROLLER S/N:
REVISION #: 0
REVISION DATE: 02/03/22
START DATE: 02/03/22
START BY: Admin
DEFAULT PROGRAM: P2
TPS VERSION: HA

Calibration:

Calibrated By			
Calibrated Date			
Volts A-B Zero	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts A-B Span	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts B-C Zero	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts B-C Span	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts C-A Zero	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts C-A Span	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts A-N Zero	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts A-N Span	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts B-N Zero	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts B-N Span	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts C-N Zero	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts C-N Span	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Current A Zero	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Current A Span	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Current B Zero	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Current B Span	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Current C Zero	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Current C Span	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Battery Voltage Span	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Engine Temp Offset	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Oil Pressure Offset	0	<input type="checkbox"/>	0 - 255 Calibration correction number



MEC20

MICROPROCESSOR ENGINE/GENERATOR CONTROLLER

SUMMARY CONFIGURATION DATA SHEET

WORK ORDER #: 00000-00-01-TST	REV.: 0	REV. DATE: 02/03/22
INITIATED BY: Admin	CUSTOMER: Training Manual	DEFAULT PROGRAM: P3
DATE: 02/03/22	PROJECT NAME: Test data sheets	TPS VER: HA
	NOTES:	

ENGINE/GEN SYSTEM INPUTS

SYSTEM AC VOLTS: 380	PHASES: 3	FREQUENCY: 50	DC VOLTAGE: 24
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DIGITAL DISPLAY FEATURES

<input checked="" type="checkbox"/> AC VOLTAGE	Enabled	<input checked="" type="checkbox"/> AC CURRENT	Enabled	<input checked="" type="checkbox"/> BATTERY VOLTAGE
<input checked="" type="checkbox"/> ENGINE TEMPERATURE	Enabled	<input checked="" type="checkbox"/> KVA		<input checked="" type="checkbox"/> TACHOMETER
<input checked="" type="checkbox"/> OIL PRESSURE	Enabled	<input checked="" type="checkbox"/> FREQUENCY		<input checked="" type="checkbox"/> HOURMETER

DIGITAL FAULT CIRCUITS

ANALOG FAULT CIRCUITS

FAULT NAME	INPUT TYPE
Overcrank Shutdown	Internal
Switch Not in Auto Alarm	Internal
Emergency Stop	Internal/External
Low Oil Pressure Shutdown	External Digital Input #1
High Engine Temp Shutdown	External Digital Input #2
Lo Coolant Level Shutdown	External Digital Input #3
Low Fuel Level Alarm	External Digital Input #4
* Shutdown	External Digital Input #5
* Shutdown	External Digital Input #6
* Shutdown	External Digital Input #7
* Shutdown	External Digital Input #8
* Shutdown	External Digital Input #9
* Shutdown	External Digital Input #10
Remote EmergStop Shutdown	External Digital Input #11
Idle Alarm	External Digital Input #12

FAULT NAME	INPUT TYPE
Overspeed Shutdown	Mag-Pickup
Loss of Speed Signal Shutdown	Mag-Pickup
Undervoltage Shutdown	AC Voltage
Overvoltage Shutdown	AC Voltage
Under Frequency Alarm	AC Freq
Over Frequency Alarm	AC Freq
Overcurrent Alarm	AC Current
Weak Battery Alarm	DC Voltage
Low Battery Volt Alarm	DC Voltage
High Battery Volt Alarm	DC Voltage
Low Engine Temp Alarm	Temp Sender
High Eng Temp #1 Alarm	Temp Sender
High Eng Temp #2 Shutdown	Temp Sender
Low Oil Press #1 Alarm	Press Sender
Low Oil Press #2 Shutdown	Press Sender

STANDARD OUTPUT CONTACTS

OUTPUT NAME	OUTPUT TYPE
Run (Fuel)	Form A
Crank	Form A
Common Fail	Form C

PROGRAMMABLE OUTPUT CONTACTS

OUTPUT NAME	OUTPUT TYPE
ATS Test	Programmable #1 - Form C
Running	Programmable #2 - Form C
Common alarm	Programmable #3 - Form C
Common shutdown	Programmable #4 - Form C
Disabled	Programmable #5 - Form A/B
Disabled	Programmable #6 - Form A/B

OTHER OPTIONAL FEATURES

* indicates custom digital fault



Main Menu Program

MEC20

Software ver. 1.7

WORK ORDER: 00000-00-01-TST

REVISION #: 0

REVISION DATE: 02/03/22

START DATE: 02/03/22

START BY: Admin

DEFAULT PROGRAM: P3

TPS VERSION: HA

CUSTOMER: Training Manual
PROJECT: Test data sheets
PRODUCT: MEC20

Read only password:	1	<input type="checkbox"/>	
Read/write password:	2	<input type="checkbox"/>	
Master password:	3	<input type="checkbox"/>	
Node Address:	1	<input type="checkbox"/>	1-255
System Voltage:	380	<input type="checkbox"/>	Line to line voltage 120-15000
System Frequency:	50	<input type="checkbox"/>	Toggle between 50/60 Hz
System Phases:	3	<input type="checkbox"/>	Toggle between 1 & 3 phase
Neutral Connected:	Yes	<input type="checkbox"/>	Toggle between Yes/No
Voltage Sensing:	1	<input type="checkbox"/>	Voltage sensing PT ratio 1-208
CurrentSensing:	100	<input type="checkbox"/>	Current sensing CT ratio 1-999
Temperature Scale:	C	<input type="checkbox"/>	Toggle between Deg C/Deg F
Pressure Scale:	KPA	<input type="checkbox"/>	Toggle between PSI/KPA
Start Delay:	3	<input type="checkbox"/>	0-999 seconds
Crank Time:	15	<input type="checkbox"/>	0-99 seconds
Rest Time:	15	<input type="checkbox"/>	0-99 seconds
Starter Re-Engage:	3	<input type="checkbox"/>	1-99 seconds 0=disabled
Number of Cranks:	3	<input type="checkbox"/>	1-99 times 0=continuous
Bypass Delay:	10	<input type="checkbox"/>	0-99 seconds
Cooldown Delay:	120	<input type="checkbox"/>	0-9999 seconds
Nominal RPM:	1500	<input type="checkbox"/>	0-4000 RPM
Flywheel Teeth:	150	<input type="checkbox"/>	0-999 teeth
Crank Disconnect:	30%	<input type="checkbox"/>	0-100%
Overspeed:	110%	<input type="checkbox"/>	100-150%
Overspeed Transient:	0.1	<input type="checkbox"/>	0.0-9.9 seconds
Run Output Failsafe:	Yes	<input type="checkbox"/>	Toggle between Yes/No
Loss of Speed:	Shutdown	<input type="checkbox"/>	Toggle between Alarm/Shutdown
Common Fail for not in Auto:	Yes	<input type="checkbox"/>	Toggle between Yes/No
Horn For Not In Auto:	No	<input type="checkbox"/>	Toggle between Yes/No
Programmable Output1:	ATS Test	<input type="checkbox"/>	Choose from list
Programmable Output2:	Running	<input type="checkbox"/>	Choose from list
Programmable Output3:	Common alarm	<input type="checkbox"/>	Choose from list
Programmable Output4:	Common shutdown	<input type="checkbox"/>	Choose from list
Programmable Output5:	Disabled	<input type="checkbox"/>	Choose from list
Programmable Output6:	Disabled	<input type="checkbox"/>	Choose from list
Warm Up Delay:	3	<input type="checkbox"/>	0-99 seconds
Neutral Delay:	0	<input type="checkbox"/>	0-99 seconds
Return Delay:	120	<input type="checkbox"/>	0-999 seconds
Auto Callout:	Common Fail	<input type="checkbox"/>	Toggle Common Alarm, Fail, Shutdown
Post Lube Duration:	0	<input type="checkbox"/>	0-999 minutes
Cycle Lube Interval:	1	<input type="checkbox"/>	1-9999 minutes
Cycle Lube Duration:	0	<input type="checkbox"/>	0-999 minutes
Cycle Lube Option:	Yes	<input type="checkbox"/>	Toggle between Yes/No
Remote Communication:	No	<input type="checkbox"/>	Toggle between Yes/No
Display Menu Timeout:	999	<input type="checkbox"/>	0-999 seconds
Voltage Metering:	Enabled	<input type="checkbox"/>	Toggle between Enabled/Disabled
Current Metering:	Enabled	<input type="checkbox"/>	Toggle between Enabled/Disabled



Main Menu Program

MEC20

Software ver. 1.7

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START BY: Admin

DEFAULT PROGRAM: P3

TPS VERSION: HA

CUSTOMER: Training Manual
PROJECT: Test data sheets
PRODUCT: MEC20

Engine Temp Metering:	Enabled	<input type="checkbox"/>	Toggle between Enabled/Disabled
Oil Pressure Metering:	Enabled	<input type="checkbox"/>	Toggle between Enabled/Disabled
Reset Run Hours:	No	<input type="checkbox"/>	Toggle between Yes/No

MEC 20 PROGRAMMING SHEETS DIGITAL FAULTS

CUSTOMER: Training Manual
PROJECT: Test data sheets
PRODUCT: MEC20

WORK ORDER: 00000-00-01-TST
REVISION #: 0
REVISION DATE: 02/03/22

TPS VERSION: HA
START DATE: 02/03/22
START BY: Admin
DEFAULT PROGRAM: P3

FAULT NAME	INPUT NUMBER	ACTION	ALARM LATCH	POLARITY	BYPASS ON START	TRANSIENT DELAY
		SHUTDOWN/ ALARM	YES/NO	OPEN/CLOSE	YES/NO	(SEC)
Low Oil Pressure	1	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Open <input type="checkbox"/>	Yes <input type="checkbox"/>	0.5 <input type="checkbox"/>
High Engine Temp	2	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Open <input type="checkbox"/>	Yes <input type="checkbox"/>	1 <input type="checkbox"/>
Lo Coolant Level	3	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Close <input type="checkbox"/>	No <input type="checkbox"/>	5 <input type="checkbox"/>
Low Fuel Level	4	Alarm <input type="checkbox"/>	No <input type="checkbox"/>	Close <input type="checkbox"/>	No <input type="checkbox"/>	0.1 <input type="checkbox"/>
*	5	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Close <input type="checkbox"/>	No <input type="checkbox"/>	0.1 <input type="checkbox"/>
*	6	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Close <input type="checkbox"/>	No <input type="checkbox"/>	0.1 <input type="checkbox"/>
*	7	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Close <input type="checkbox"/>	No <input type="checkbox"/>	0.1 <input type="checkbox"/>
*	8	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Close <input type="checkbox"/>	No <input type="checkbox"/>	0.1 <input type="checkbox"/>
*	9	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Close <input type="checkbox"/>	No <input type="checkbox"/>	0.1 <input type="checkbox"/>
*	10	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Close <input type="checkbox"/>	No <input type="checkbox"/>	0.1 <input type="checkbox"/>
Remote EmergStop	11	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Close <input type="checkbox"/>	No <input type="checkbox"/>	0.1 <input type="checkbox"/>
Idle	12	Alarm <input type="checkbox"/>	No <input type="checkbox"/>	Close <input type="checkbox"/>	No <input type="checkbox"/>	0.1 <input type="checkbox"/>

* indicates custom digital fault

MEC20 PROGRAMMING SHEETS

ANALOG FAULTS

CUSTOMER: Training Manual
 PROJECT: Test data sheets
 PRODUCT: MEC20

WORK ORDER: 00000-00-01-TST

REVISION #: 0
 REVISION DATE: 02/03/22

TPS VERSION: HA
 START DATE: 02/03/22
 START BY: Admin
 DEFAULT PROGRAM: P3

FAULT NAME	INPUT ANALOG TYPE	FAULT ENABLE/ DISABLE	SETPOINT	SETPOINT	UNITS	ACTION	ALARM	BYPASS	TRANSIENT
			LEVEL	LEVEL			LATCH	ON START	
			(PICK-UP)	(DROP-OUT)		SHUTDOWN/ ALARM	YES/NO	YES/NO	(SEC)
Undervoltage	AC Voltage	Enabled <input type="checkbox"/>	342 <input type="checkbox"/>	304 <input type="checkbox"/>	V	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	Yes <input type="checkbox"/>	5 <input type="checkbox"/>
Overvoltage	AC Voltage	Enabled <input type="checkbox"/>	418 <input type="checkbox"/>	408 <input type="checkbox"/>	V	Shutdown <input type="checkbox"/>	<input type="checkbox"/>	No <input type="checkbox"/>	2 <input type="checkbox"/>
Under Frequency	AC Freq	Enabled <input type="checkbox"/>	47.0 <input type="checkbox"/>	<input type="checkbox"/>	HZ	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	5 <input type="checkbox"/>
Over Frequency	AC Freq	Enabled <input type="checkbox"/>	53.0 <input type="checkbox"/>	<input type="checkbox"/>	HZ	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	2 <input type="checkbox"/>
Overcurrent	AC Current	Enabled <input type="checkbox"/>	5000 <input type="checkbox"/>	4990 <input type="checkbox"/>	A	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	20 <input type="checkbox"/>
Weak Battery	DC Voltage	Enable <input type="checkbox"/>	18.0 <input type="checkbox"/>	<input type="checkbox"/>	V	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	3 <input type="checkbox"/>
Low Battery Volt	DC Voltage	Enable <input type="checkbox"/>	25.6 <input type="checkbox"/>	<input type="checkbox"/>	V	Alarm <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	120 <input type="checkbox"/>
High Battery Volt	DC Voltage	Enable <input type="checkbox"/>	30.4 <input type="checkbox"/>	<input type="checkbox"/>	V	Alarm <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	10 <input type="checkbox"/>
Low Engine Temp	Temp Sender	Enable <input type="checkbox"/>	35 <input type="checkbox"/>	<input type="checkbox"/>	DEG C	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	5 <input type="checkbox"/>
High Eng Temp #1	Temp Sender	Enable <input type="checkbox"/>	92 <input type="checkbox"/>	<input type="checkbox"/>	DEG C	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	2 <input type="checkbox"/>
High Eng Temp #2	Temp Sender	Enable <input type="checkbox"/>	36 <input type="checkbox"/>	<input type="checkbox"/>	DEG C	Shutdown <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	2 <input type="checkbox"/>
Low Oil Press #1	Press Sender	Enable <input type="checkbox"/>	207 <input type="checkbox"/>	<input type="checkbox"/>	KPA	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	2 <input type="checkbox"/>
Low Oil Press #2	Press Sender	Enable <input type="checkbox"/>	952 <input type="checkbox"/>	<input type="checkbox"/>	KPA	Shutdown <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	2 <input type="checkbox"/>



Calibration MEC20

Software ver. 1.7

CUSTOMER: Training Manual
PROJECT: Test data sheets
PRODUCT: MEC20

WORK ORDER: 00000-00-01-TST
CONTROLLER S/N:
REVISION #: 0
REVISION DATE: 02/03/22
START DATE: 02/03/22
START BY: Admin
DEFAULT PROGRAM: P3
TPS VERSION: HA

Calibration:

Calibrated By

Calibrated Date

Volts A-B Zero	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts A-B Span	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts B-C Zero	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts B-C Span	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts C-A Zero	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts C-A Span	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts A-N Zero	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts A-N Span	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts B-N Zero	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts B-N Span	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts C-N Zero	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Volts C-N Span	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Current A Zero	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Current A Span	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Current B Zero	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Current B Span	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Current C Zero	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Current C Span	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Battery Voltage Span	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Engine Temp Offset	0	<input type="checkbox"/>	0 - 255 Calibration correction number
Oil Pressure Offset	0	<input type="checkbox"/>	0 - 255 Calibration correction number