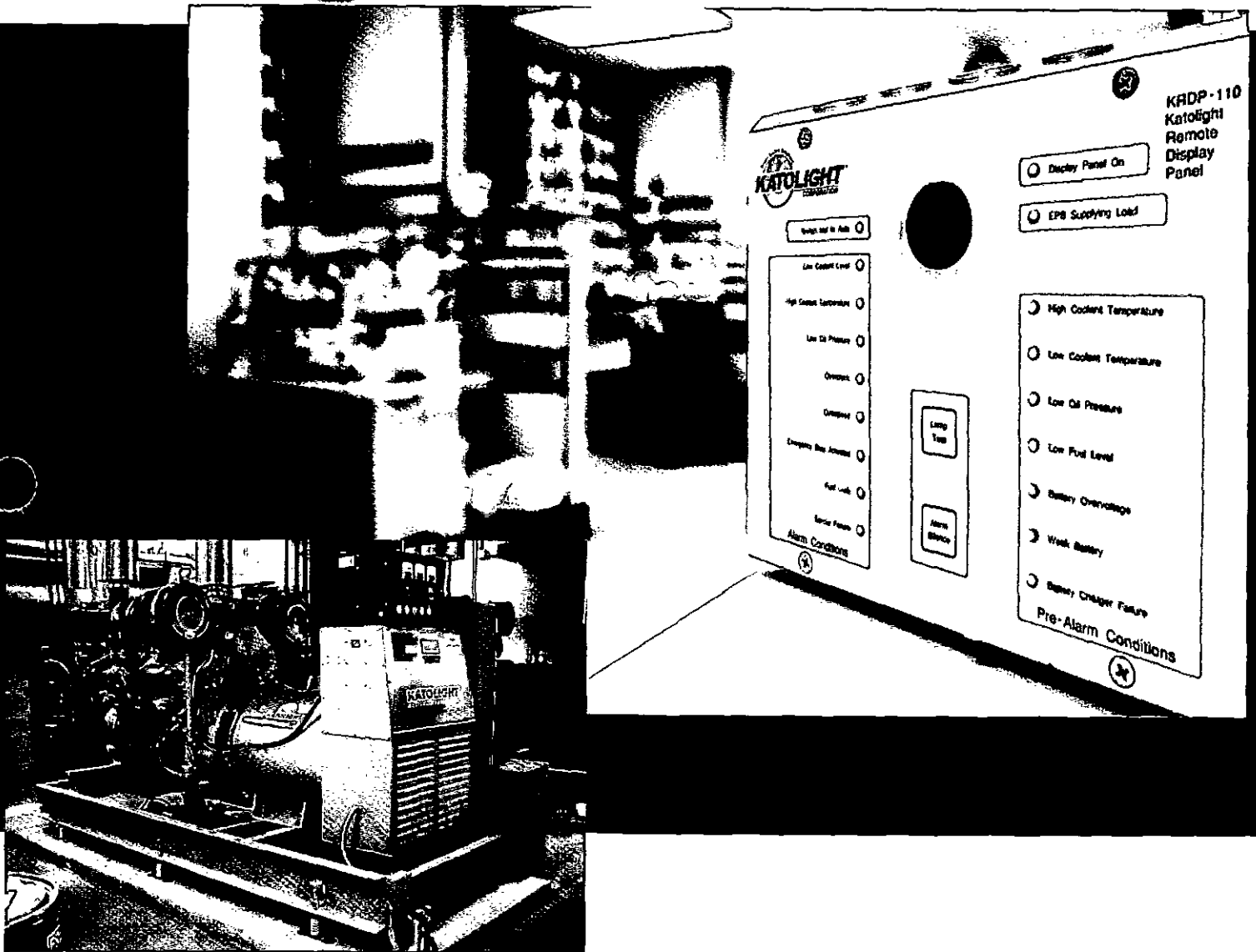
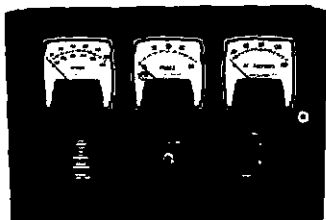


Monitor, protect and control your generator, even when you can't be there.
From the most basic panel to the latest technology in monitoring systems,
there is a control panel from Katolight that will meet your every need.

Katolight Control Panels





STANDARD 40 SERIES



STANDARD 45 SERIES



STANDARD 50 SERIES

40, 45 and 50 Series

STANDARD FEATURES FOR 40, 45 AND 50 SERIES:

- Voltmeter: 3 1/2", 2% Accuracy
- Ammeter: 3 1/2", 2% Accuracy
- Frequency Meter: 3 1/2"
- 55-65 Hz Dial Type
- Combination Selector Switch
 - 4 position, 3 phase
 - Ammeter (only) 3 phase, 1 position
 - 4) Vibration shock mounts
- panels are complete packages, ready for installation
- KASSEC Engine Control

OPTIONAL FEATURES FOR THE 40 SERIES:

- Alarm buzzer with silencing switch
- Auxiliary relay for dry contacts (1 max.)
- Emergency stop button OR
- Two hooded panel lights & on/off switch

STANDARD FEATURES FOR THE 45 & 50 SERIES:

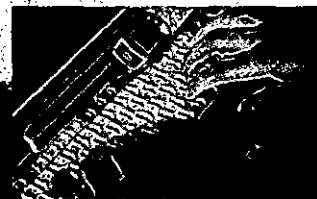
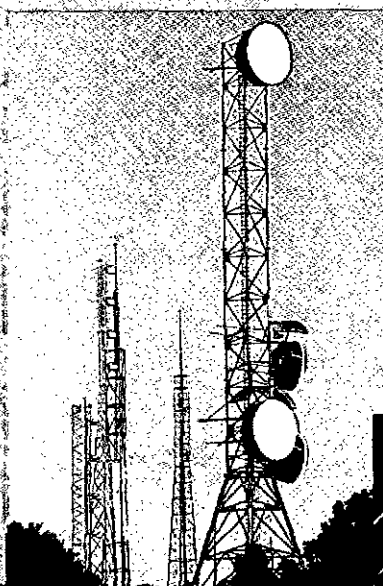
- Battery Charging DC Ammeter, 2"
- Water Temperature, 2"
- Oil Pressure, 2"
- Running Time Meter, 2" DC, 5 digits
- Alarm buzzer with silencing switch

ADDITIONAL STANDARD FEATURES FOR THE 50 SERIES:

- Two Hooded panel Lights with On/Off Switch
- Additional Engine Control lights
 - Low Battery Voltage
 - Charger Malfunction
 - Low oil pressure pre-alarm
 - EPS Supplying Load
 - High Engine Temperature Pre-alarm
 - Low Fuel (add switch to fuel tank)
 - Unit Not in Auto
 - Low water temperature

OPTIONAL FEATURES FOR THE 45 & 50 SERIES:

- Additional Engine Gauges displayed
- Emergency stop button
- Auxiliary relay for dry contacts (2 max.)
- NEMA 12 enclosure
- Additional LED's 2 max 45K
- Additional LED's 4 max 50K



Katolight Automatic Solid State Engine Control (KASSEC)

FEATURES:

- 12 or 24 volt DC with cycle cranking timer
- 5 engine shutdowns with failure lights, when these conditions are indicated:
 - High engine temperature
 - Low oil pressure
 - Engine over speed
 - Engine over crank
 - Low water level
- Auto-off-manual switch
- Consistent operation from -30°C (-22°F) to +60°C (+140°F).
- Meets NFPA-110 annunciator for hospital application
- Compatible with virtually all engines
- Barrier screw type terminals U.L. and C.S.A. certified
- Adjustable 7 to 50 second engine cranking circuit
- Adjustable 1 or 5 crank test cycles
- External alarm circuit for remote failure indication
- 12 or 24 volt negative ground battery systems
- 4 adjustable crank disconnects available. (Mag pickup, engine alternator, 110 VAC, and auxiliary 12V DC or 24V DC)
- Positive lockout circuits prohibit re-cranking while engine is running
- First failure shutdown lockout
- 8 Amp relay contacts for start and ignition system
- Unit is sealed with a durable conformal coating

Speed Monitor Model SM124

FEATURES:

- Protects Generator Sets Against Engine Overspeed
- Construction - Epoxy Encapsulated, Surface Mount
- Sensing - 120 VAC
- Switch Contact Rating - .6 amp, 120 VAC resistive - 2 amp, 40 VDC
- Operating Trip Point - 66.5 or 71 Hz (selectable)
- Operating Temperature - -40°C to +70°C (-40°F to +158°F)
- Current Draw - .07 amp maximum
- Voltage - 12 or 24 VDC
- Accuracy $\pm .5$ Hz

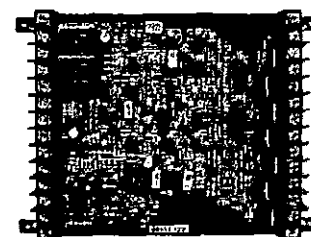
Repetitive Alarm Annunciator Panel Model 818-101

KATOLIGHT ANNUNCIATORS MEET THESE SPECIFICATIONS:

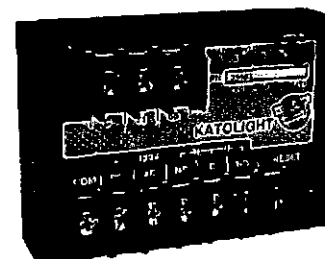
- The National Electric Code: Section 700-12
- NFPA-110
- Audible and visual signal devices powered by electrical storage battery give warning of derangement or alarm conditions
- 12 OR 24 Volt

PANEL COMPONENTS:

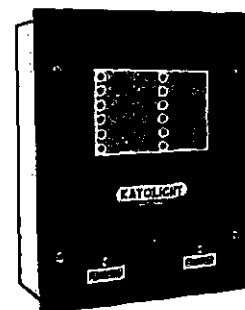
- Surface or flush mounting
- Knockouts on top, bottom, or either side
- To be used in conjunction with KASSEC, KLAS 33 and 61 series
- Up to four extra LEDS are available



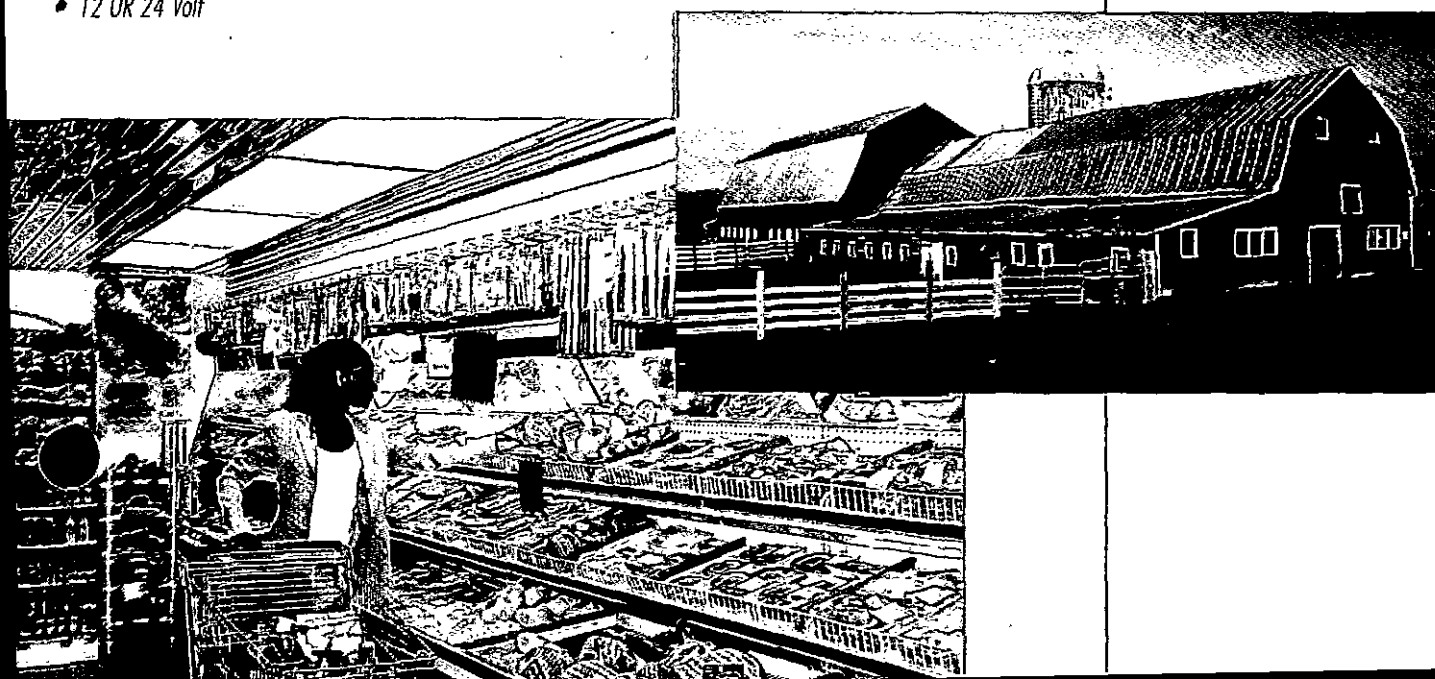
KATOLIGHT AUTOMATIC SOLID STATE ENGINE CONTROL (KASSEC)

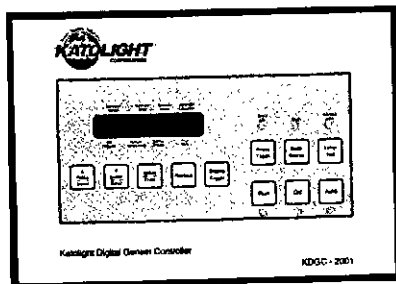


SPEED MONITOR MODEL SM 124

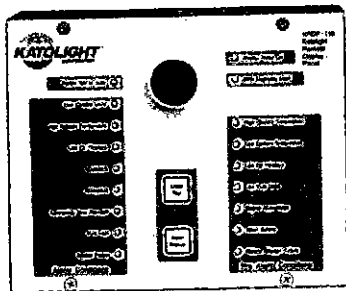


REPETITIVE ALARM ANNUNCIATOR PANEL MODEL 818-101





KDGC-2001



KRDP-110

KDGC-2001 Katolight Digital Genset Controller

FEATURES:

- Generator engine crank control implements a starting sequence
- Three separate start signal inputs available:
 - Manual run button
 - Emergency stop transfer switch
 - Remote start command (through the software)
- Customized start up sequence
- Continuous or cycle crank available
- Continuous crank can be set from 5 to 60 seconds
- Cycle crank can be set from 5 to 15 seconds, cycles are adjustable from 1 to 7
- Crank cycle delay can be enabled to control pre-heaters or operate a pre-lube system
- Pre-crank delay is adjustable from 0 to 30 seconds
- 7 SHUTDOWN conditions:
 - High Coolant Temperature
 - Low Oil Pressure
 - Overcrank
 - Low Coolant Level
 - Overspeed
 - Sender Failure
 - Low Fuel Level
- 10 PRE-ALARM conditions that can be enabled:
 - Low Fuel Pre-alarm
 - Low Coolant Temperature Pre-alarm

- High Coolant Temperature Pre-alarm
- Low Oil Pressure Pre-alarm
- Weak Battery Voltage
- Low Battery Voltage
- kW Overload
- Battery Over-voltage
- Battery Charger Failure
- Maintenance
- A complete metering package displays 28 system parameters to help ensure trouble-free operation and can be displayed on the front of the KDGC-2001 or remotely on a personal computer
- Protection levels for both prime mover and generator
- RS232 PORT (allows communication to one KDGC-2001)

OPTIONAL FEATURES:

- Analog Meters
- Up to Four Additional LED's
- Software for Remote Applications
- Emergency Stop
- MODEM: The KDGC-2001 will accept a modem directly into the RS232 connection
- I/O Board

KRDP-110 Katolight Remote Digital Panel

FEATURES:

- Meets NFPA 710 requirements
- The RS-485 communications can be used on remote displays up to 4000 feet away from the KDGC
- The KRDP-110 uses RS-485 communications between the KRDP-110 and the KDGC family
- RS-485 communications reduces the number of interconnection wires to four
- Audible alarm horn rated at 80 db
- Lamp Test and Alarm Silence switches
- Power supply inputs for 12, 24Vdc or 120Vac
- Conduit box
- Designed for use in harsh environments
- Available semi-flush and surface mounting
- RFI (Radio Frequency Interference)
- Type tested using 5 watt handheld transceiver operating at random frequencies
- 9 alarm conditions:
 - Switch Not in Auto
 - High Coolant Temperature
 - Overcrank
 - Emergency Stop
 - Sender Failure
 - Low Coolant Level
 - Low Oil Pressure
 - Over-speed
 - Fuel Leak
- 7 pre-alarms that can be enabled:
 - High Coolant Temperature
 - Low Coolant Temperature
 - Low Oil Pressure
 - Low Fuel Level
 - Battery Over-voltage
 - Weak Battery
 - Battery Charger Failure
- Other safety features displayed on panel are:
 - Display Panel On and EPS Supplying Load



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