




FEATURES

-  **J1939 CANBus option to connect to the industry standard SAE J1939 'Eco friendly' engine management systems providing engine protection and instrumentation without requiring additional senders.**
- **Comprehensive remote communication via optional RS232 port. Provides RS232 Modem link to PC via either PSTN line or GSM network (using a suitable modem). The module can also signal Engineers via their cell phones using the GSM SMS messaging system to advise of system alarms.**
- **Optional RS485 'Modbus' output. Using industry standard communication protocol allows full system integration into new and existing building management and control schemes.**
- **Engine diagnostic information removes the need for both service equipment and cryptic diagnostic lamp (when using J1939 option with J1939 engines).**
- **LCD 4-line text based display to provide 'at-a-glance' diagnosis of fault conditions, instrumentation and operating state.**
- **Comprehensive PC configuration and status monitoring using 5xxx PC software.**
- **PIN number protected front panel programming of selected trip points and timers, allows field changes to be made to the module settings.**
- **Built in exercise timer.**
- **'Sleep mode' to ensure very low battery power usage when in "Off" mode.**
- **Multiple LCD languages (English, French, Spanish, German etc.) possible.**
- **Automatic and Manual operation modes.**
- **Six configurable auxiliary inputs for connection to external fault detection equipment.**
- **Three configurable outputs to help produce complex applications.**
- **Integral load switch control capability.**

DESCRIPTION

The Model 5320 is an *Automatic Mains Failure Control Module*. The module is used to monitor a mains supply and automatically start a standby generator set. The module also provides indication of operational status and fault conditions, automatically shutting down the genset and indicating failures by means of an LCD display, and appropriate flashing LED on the front panel.

Selected timers and alarms can be altered by the customer from the front panel. Alterations to the system are made using the 810 interface and a PC. This interface also provides real time diagnostic facilities.

It is also possible to monitor the operation of the system either locally or remotely. (Optional: Remote Communications output versions only).

Easy push button control

Operation of the module is via pushbutton controls (with security locking facility) mounted on the front panel with STOP/RESET, AUTO, MANUAL and START pushbuttons. The first three pushbuttons feature LED 'selected' indications. Further pushbuttons provide LCD DISPLAY SCROLL, LAMP TEST and MUTE functions.

Microprocessor control

The module features 16-Bit microprocessor control and a comprehensive list of timers and pre-configured sequences. This allows demanding specifications to be achieved.

The 5320 module provides a four-line text LCD display with the following instrumentation displays, accessed via the LCD DISPLAY SCROLL push-buttons:

Generator Instruments:

Volts, Hz, Amps, kW, kVA, cos θ

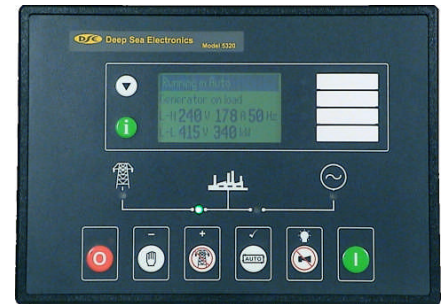
Engine Instruments:

RPM, Oil Pressure, Coolant Temperature, Hours Run, Charging voltage, battery Volts.

SAE J1939: Enhanced instrumentation and Engine ECU diagnostics via industry standard SAE J1939 interface when used in conjunction with J1939 engine ECU.

Mains/Utility Instruments:

Volts, Frequency.



SPECIFICATION

DC Supply:

8 to 35 V Continuous.

Cranking Dropouts:

Able to survive 0 V for 50 mS, providing supply was at least 10 V before dropout and supply recovers to 5V. *This is achieved without the need for internal batteries.*

Max. Operating Current:

12V – 400mA
24V – 200mA

Sleep Mode Current:

12V – 70mA
24V – 45mA

Standby Current (when in auto):

12V – 230mA
24V – 120mA

Auxiliary Outputs 1-3:

Relay outputs -5A DC at supply voltage. Switches to battery negative when active

Auxiliary Outputs 4 & 5:

8 Amp AC rated volts-free relay

Dimensions:

220mm x 160mm x 49mm
(8.7" x 6.3" x 2")

Operating Temperature Range:

-30 to +70°C

Engine ECU interface:

SAE J1939 CANbus

Deep Sea Electronics reserve the right to change specification without notice.

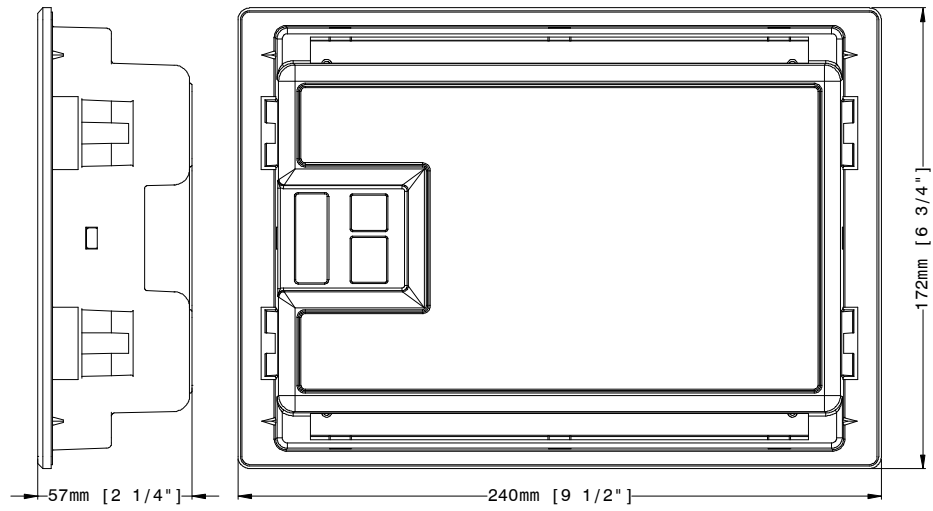
Deep Sea Electronics Plc.

Highfield House, Hunmanby Industrial Estate,
North Yorkshire. YO14 0PH.
ENGLAND
Tel: +44 (0)1723 890099.
Fax: +44 (0)1723 893303.
Email: sales@deepseapl.com
Web: www.deepseapl.com

Deep Sea Electronics inc.

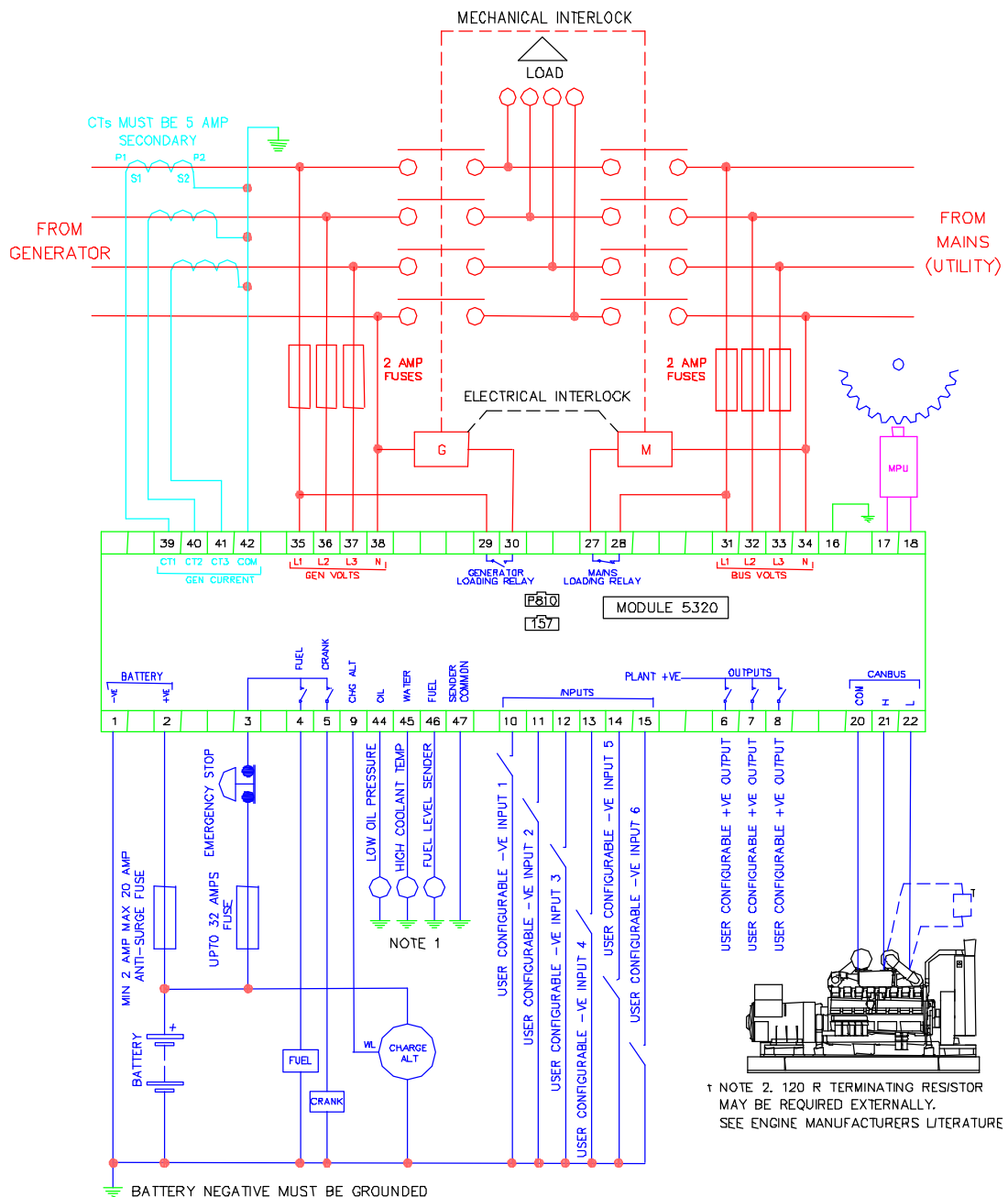
5301 E. State St. – Suite 202
Rockford, Illinois 61108
U.S.A.
Phone: +1 (815) 316-8706
Fax: +1 (815) 316-8708
Email: dsesales@deepseausa.com
Web: www.deepseausa.com

DIMENSIONS



Panel cutout 220mm x 160mm (8.7" x 6.3")

TYPICAL CONNECTIONS



BATTERY NEGATIVE MUST BE GROUNDED
 TERMINALS SUITABLE FOR 22-16 AWG (0.6mm - 1.3mm) FIELD WIRING
 TIGHTENING TORQUE = 0.8Nm (7lb-in)

NOTE 1
 THESE GROUND CONNECTIONS MUST BE ON THE ENGINE BLOCK, AND MUST BE TO THE SENDER BODIES.
 THE GROUND WIRE TO TERMINAL 47 MUST NOT BE USED TO PROVIDE A GROUND CONNECTION TO ANY OTHER DEVICE