



FEATURES

- Automatically senses mains (utility) failure and starts the backup generator.
- Clear, backlit LCD display to show the status of the load switches, and mains (utility) supply as well as to indicate alarm conditions should they occur.
- Integral, configurable starting and stopping timers.
- Configurable inputs and outputs to help meet increasing demand within the industry.
- Comprehensive PC configuration, monitoring and control including true PC mimic of the module fascia.
- Selected field adjustable parameters configurable from the fascia.

DESCRIPTION

The Model 720 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.

DESCRIPTION cont'd

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 and control the system via PC up to 100metres (111 yards) from the controller.

Easy push button control

Operation of the module is via pushbutton controls mounted on the front panel with STOP/RESET, MANUAL, TEST, AUTO and START pushbuttons. The first four pushbuttons feature LED 'selected' indications. A further pushbutton provides LCD DISPLAY SCROLL function.

Instrumentation and Alarms

The 720 module provides **metering and alarm facilities** via the LCD display and includes the following instrumentation displays, accessed via the DISPLAY SCROLL pushbutton:

- Mains Volts (L1-N, L2-N, L3-N)
- Mains Volts (L1-L2, L2-L3, L3-L1)
- Generator frequency
- Engine speed
- Generator Volts (L1-N)
- Generator current (L1, L2, L3)
- Engine oil pressure
- Engine coolant temperature
- Hours run counter
- Battery Volts



SPECIFICATION

DC Supply:

8V to 35V Continuous.  
Able to survive 0V for 50mS, providing supply was at least 10V before dropout and supply recovers to 5V. *This is achieved without the need for internal batteries.*

Max. Operating Current:

180mA at 12V. 190mA at 24V

Max. Standby Current:

145mA at 12V. 150mA at 24V

Generator Input Range:

35V(L-N) to 277V(L-N) AC (+20%)  
50Hz - 60Hz (min 15V AC)

Mains Sensing Input Range:

35V(L-N) to 277V(L-N) AC (+20%)  
50Hz - 60Hz (min 15V AC)

Auxiliary outputs:

Solid state  
2.4A DC at supply voltage.

Fuel / Start outputs:

Solid state  
3.4A DC at supply voltage.

Generator C.T.

5A secondary 0.5VA

Operating Temperature Range:

-30°C to +70°C

Dimensions:

209mm x 146mm x 30.3mm  
(8.23" x 5.75" x 1.08")

Panel cutout:

182mm x 137mm  
(7.17" x 5.39")  
Maximum panel thickness - 8mm (0.3")

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

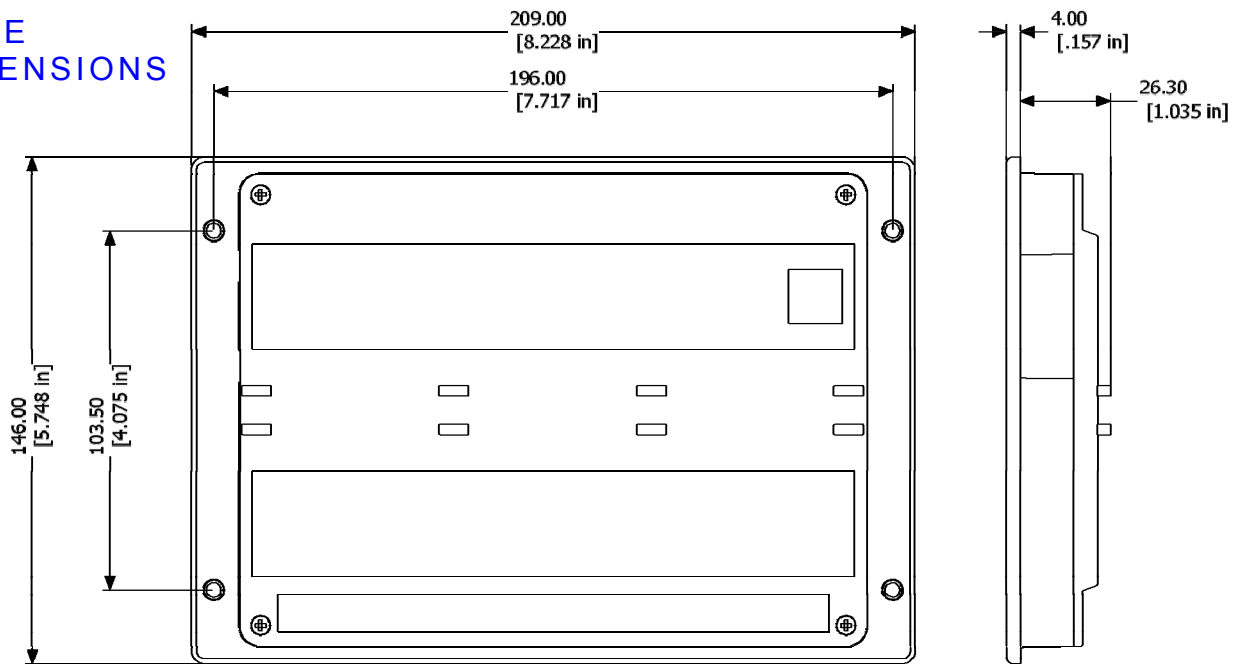
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# CASE DIMENSIONS



Panel Cutout : 182mm x 137mm (7.17" x 5.39")

# TYPICAL WIRING DIAGRAM

