



## Model 701 / 702 Installation and Operating Instructions

The Model 701/702 is an **Engine Control Module** designed to control the engine via a key switch and pushbuttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and indicating the cause of failure by LED, giving true, first up fault annunciation.

Model 702 has integral tamperproof LCD hours run counter to indicate total engine run time.



In the 'O' position the DC supply is removed from the module and the run output is de-energised.


The module is powered up when  is selected.

Operation of the pre-heat button is only possible when in the  position.

An LED tell-tale indicates pre-heat operation. Once the required pre-heat duration has elapsed, the pre-heat button should be released.

### Module operation

1. Select .
2. Press pre-heat button () for required length of time.
3. Press START (I) to crank engine.

Once  is selected and the Start button is pressed and maintained, the engine fuel system is energised.

The starter disengages automatically when the engine fires or when the Start button is released. The protection hold-off timer is then initiated.

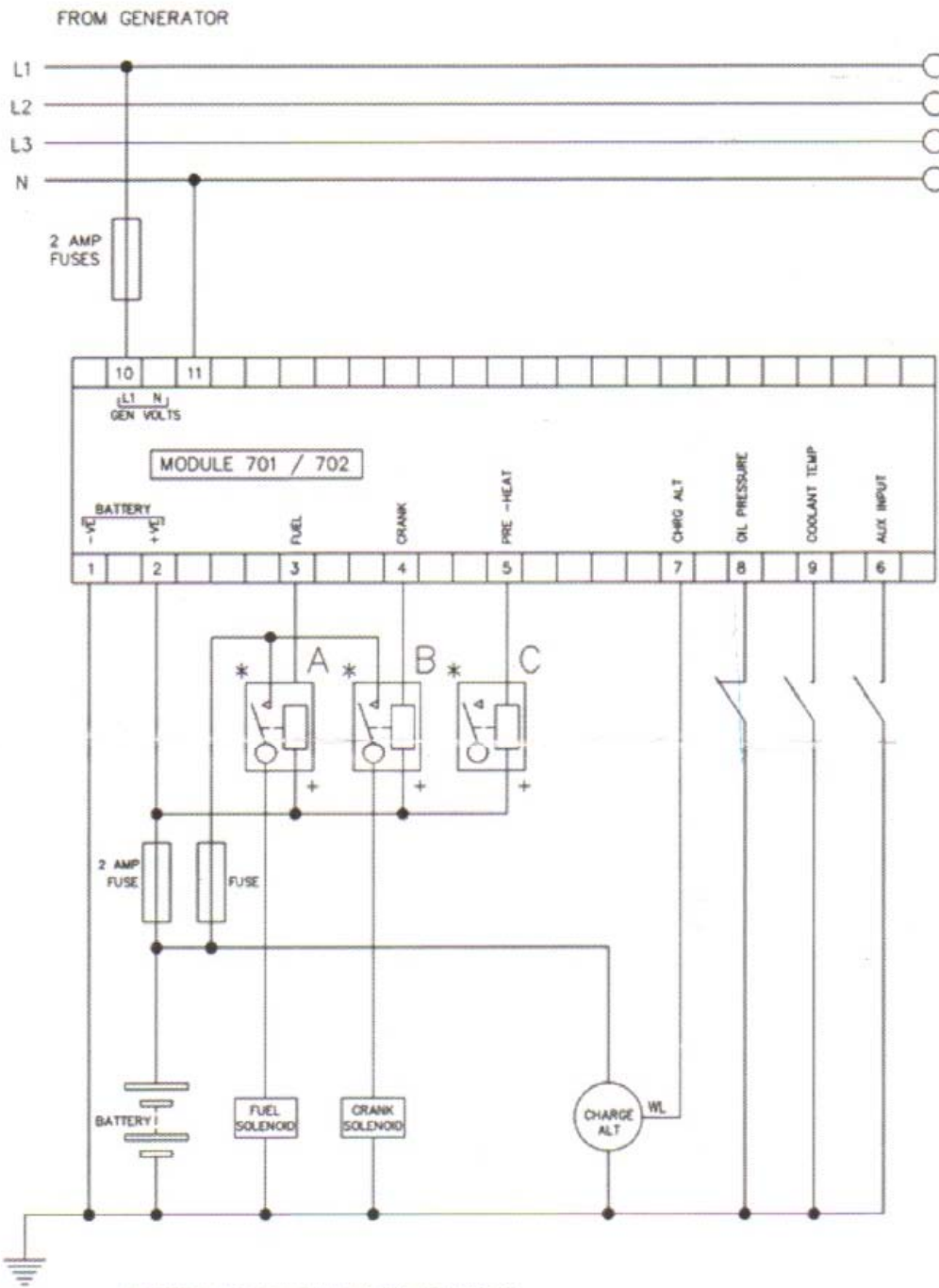
Operation of any of the following alarms (which are close on fault) will cause the fuel output to de-energise:

- Low Oil Pressure
- High Coolant Temperature
- Auxiliary Shutdown
- Overspeed - 57Hz/68Hz (Nominal frequency selector switch, 50Hz/60Hz, accessible through slots in base of module).

This will remove the fuel supply from the engine and bring it to rest.

Each alarm has its own LED indicator and once activated no further alarm conditions will be accepted. The alarm output and relevant LED will remain active until the unit is reset by turning the switch to the 'O' position.

# TYPICAL CONNECTION DIAGRAM



BATTERY NEGATIVE MUST BE GROUNDED

TERMINALS SUITABLE FOR 22-16 AWG (0.6mm<sup>2</sup>- 1.3mm<sup>2</sup>) FIELD WIRING

TIGHTENING TORQUE = 0.8Nm (7lb-in)

\* NOTE. ALL THE OUTPUTS ARE SOLID STATE AND ARE NEGATIVE SWITCHING

# DIMENSIONS

**Overall dimensions**  
(Excluding Key-switch)

701  
72mm x 72mm x 37.8mm  
(2.8" x 2.8" x 1.5")

702  
84mm x 72mm x 34.9mm  
(3.3" x 2.8" x 1.4")

**Panel cutout**

701  
68mm x 68mm  
(2.7" x 2.7")

702  
80mm x 68mm  
(3.2" x 2.7")