

Diesel Engine Controller Type H100 Version 1.01a



Technical Datasheet

This diesel engine controller, type H100, is specifically designed to meet and exceed the requirements of standards EN12845 and LPC TB210.

The control system comprises of a graphic user display, LED indicators, actual discrete push buttons for all operations and a purpose designed interface board.

The graphic display shows both battery voltages, charger current, AC voltage, engine hours run, engine rpm and all active alarms. Data logged events (500 stored) are also shown on the display.

The display and push buttons are used to modify parameters such as the number of flywheel teeth, delay start timer, stop timer, AC failure alarm timer etc. The display can also optionally show oil pressure, high water temperature, fuel level and water flow using a variety of input sensors. The controller is also capable of using a pressure transducer instead of a pressure switch for the pump start signal.

The battery chargers are constant current and constant voltage, switched mode type. They have an automatic boost facility and each charger has indication lights to show the present charging and battery status. The charger will pick up a fully discharged battery. Optional temperature compensation is also available.

The controller includes a mode switch which is behind lockable cover to provide modes of manual, off, and automatic. The controller is manufactured in a sheet steel enclosure which is weather proof to IP65 as standard. The standard controller is designed for energised to stop operation. The controller has an engine heater output as standard.

There is a USB port on the front of the controller to allow the various log files and settings to be downloaded.

Ethernet port as standard and options for MODBUS & RS485 remote monitoring.

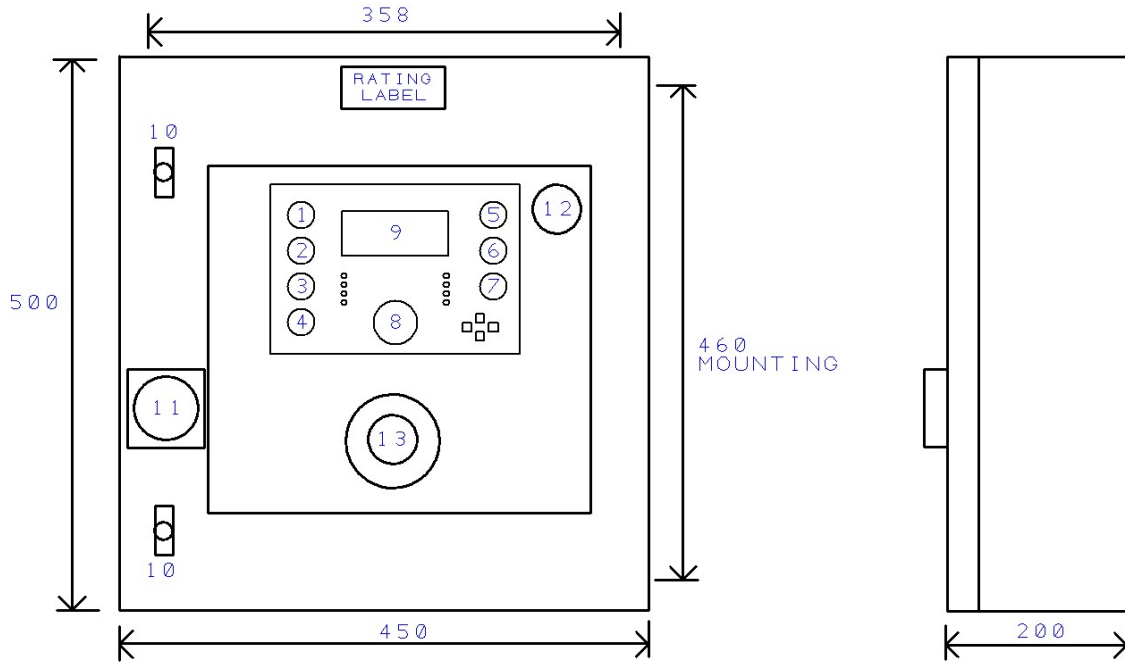


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External Dimensions:



Alarms and Indications		
Mains voltage on	Auto mode	Pump running
Chargers Healthy	Manual mode	Alarm
Battery A & B Healthy	Off mode	Low oil Pressure
Battery A & B Overvoltage	Operate test start	High Water temperature
Alarms in service	Not in Auto	Low engine temperature
Pump on demand	Crank A & B	Low fuel level
Speed sensor fault	Engine Heater tripped	Failed to start

Volt free change over contacts (30v at 0.3A rated)		
Common Fault	AC Power on	Pump on demand
Not in Auto	Failed to start	Engine running x2

Push buttons / Switches		
Crank A	Navigation control arrows	Off
Crank B	Emergency start	Manual
Stop	Alarm reset	Automatic
Test start	Alarm mute	AC isolator, door interlocked
	Lamp test	

Options	
Energise to run, 10A relay output	Battery charger temperature compensation