

Deep Sea 7310 MKII Controller



The 7310 is an Auto Start Control Module suitable for a wide variety of single, diesel or gas, gen-set applications. The 7310 provides gen-set control, transfer switch control, metering, monitoring & protection.

Key Benefits

- ▶ Real-time clock provides accurate event logging
- ▶ Multiple date and time scheduler
- ▶ Set maintenance periods can be configured to maintain engine performance
- ▶ Can be integrated into building management systems (BMS) using MODBUS
- ▶ Increased input and output expansion capability via DSENet®
- ▶ Licence-free PC software
- ▶ IP65 rating (with supplied gasket) offers increased resistance to water ingress
- ▶ PLC functionality
- ▶ Data logging to assist with fault finding and diagnosis
- ▶ cULus Listed



Advanced Features

- ▶ 4-Line back-lit LCD text display
- ▶ Five key menu navigation
- ▶ Front panel editing with PIN protection
- ▶ Customizable status screens
- ▶ Power save mode
- ▶ 8 Configurable inputs
- ▶ 6 Configurable outputs
- ▶ Flexible sensor inputs
- ▶ Configurable timers and alarms
- ▶ 3 configurable maintenance alarms
- ▶ Multiple date and time scheduler
- ▶ Configurable event log (250 events)
- ▶ CAN engine support through FT4
- ▶ Integral PLC editor
- ▶ Easy access diagnostic page
- ▶ CAN and Magnetic Pick-up/Alt. inputs
- ▶ Fuel usage monitor and low fuel alarms
- ▶ Charge alternator failure alarm
- ▶ Load monitoring (kW, frequency, voltage)
- ▶ Reverse power (kW) protection
- ▶ LED and LCD alarm indication
- ▶ Power monitoring (kWh, kVAR, kVAh, kVArh)
- ▶ Load switching (load shedding and dummy load outputs)
- ▶ Unbalanced load protection
- ▶ USB connectivity
- ▶ Backed up real time clock
- ▶ Fully configurable via DSE Configuration Suite PC software
- ▶ Remote SCADA monitoring via DSE Configuration Suite PC software
- ▶ User selectable simultaneous RS232, RS485
- ▶ Configurable MODBUS pages
- ▶ MODBUS RTU & TCP support
- ▶ Advanced SMS messaging (additional external modem required)
- ▶ Additional display screens to enhance with modem diagnostics
- ▶ Idle control for starting
- ▶ DSENet® expansion compatible

Specifications

DC Supply	
Continuous Voltage Rating	8 V 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 5 V. This is achieved without the need for internal batteries	
Maximum Operating Current	510 mA at 12 V, 240 mA at 24 V
Maximum Standby Current	330 mA at 12 V, 160 mA at 24 V
Charge Fail/Excitation Range	0 V to 35 V
Outputs	
Output A (Fuel)	15 A DC at supply voltage
Output B (Start)	15 A DC at supply voltage
Outputs C & D	8 A AC at 250 V AC (Volt free)
Aux Outputs E,F,G,H,I & J	>86%
Auxiliary Output	2 A DC at supply voltage
Generator	
Voltage Range	15 V to 415 V AC (L-N)
Frequency Range	3.5 Hz to 75 Hz
Bus	
Voltage Range	15 V to 415 V AC (L-N)
Frequency Range	3.5 Hz to 75 Hz
Magnetic Pickup	
Voltage Range	+/- 0.5 V to 70 V
Frequency Range	10,000 Hz (max)
Dimensions Overall	
245 mm x 184 mm x 51 mm	9.6" x 7.2" x 2.0"