

Deep Sea Electronics Plc

600 Series

MODEL 604 AUTOMATIC START MODULE

DESCRIPTION

The DSE 604 Automatic Start Module in its basic form has been designed to control, from an external remote start signal, the start and stop sequences of a generating set when used in either stand alone or multi-bay applications. Once the generator is running it monitors the internal protections i.e. Over/Under Speed, Over/Under Voltage, Plant Battery High/Low Voltage plus any external fault inputs. The 604 indicates the operating status and first up fault condition on an LCD, fault conditions are also duplicated by flashing high intensity LEDs. Incorporated into the design are a full range of timers, 3 phase generator voltage monitoring and speed monitoring, all adjustable by the user. The unit is housed in a metal chassis with polycarbonate facia, designed for front panel mounting. Connection to the unit is via locking plug and sockets.

- Hours run counter and Frequency Display
- Sealed membrane panel to IP65
- Fully programmable to meet system requirements
- Panel wiring diagnostics
- 9 programmable fault inputs
- Programmable LCD text for above fault inputs
- Contactor and Breaker control
- Speed sensing from magnetic pick-up or generator
- Remote start, Synch Permit, Breaker Open, Auto Reset
- Louvre/Preheat Control
- Push button control with system lock facility
- Remote Fault Indication
- Lamp Test



OPERATION

Control of the 604 is by push buttons, however to prevent unauthorised use, a System Lock facility is provided to lock the 604 in whatever mode you require i.e. AUTO. Once the system lock is activated the only push buttons which can be operated are Alarm Mute and Lamp Test. If you wish to change the operational mode, system lock must first be removed.

With the AUTO selected, on receipt of a remote start signal a start sequence is initiated. The 604 will carry out all the start and stop procedures whilst monitoring the Generator Speed and Voltages. Once the operating criteria are met the Generator will take the load (if being used in a Multi bay application a synch permit signal is also required before breaker close signal is given). Once the Remote signal is removed the 604 gives the breaker open signal and the Generator is removed from the load. However remains running for a cool down period, then shuts down.

Should a fault arise, the engine will shut down, an alarm will be sounded and indication of the fault is by a flashing LED and LCD on the front panel. To cancel the alarm, an alarm mute is provided.

SPECIFICATIONS

DC Supply 10.5 to 36 volts (Provision is made to protect against voltage dips during cranking)

Alternator Input range 80 to 300 volts ac rms

Alternator Input frequency 50-60 Hz at rated speed

Magnetic pick-up range 1 to 80 volts ac

Magnetic Pick-up Frequency 0 to 6 KHz

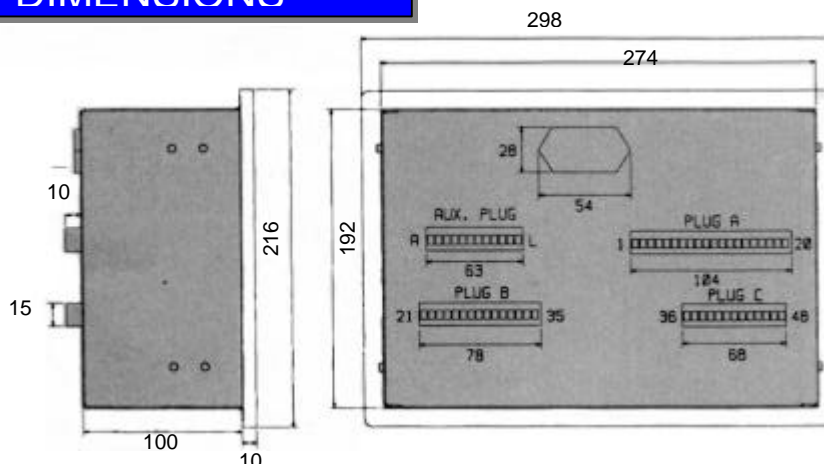
Internal Relays rated at 16 amps Volts Free

Operating Temperature range -10° to $+60^{\circ}$ C

Auxiliary Outputs, Open collector 400mA max output

CASE DIMENSIONS

ALL
DIMENSIONS
ARE IN MM



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