





The DSE710 is an Automatic Start Control Module suitable for a wide variety of single diesel or gas genset applications.

Monitoring an advanced list of engine parameters, the DSE710 will automatically shut down the engine, or indicate a warning, on detection of a fault condition, indicating the fault on the module's front panel LCD display or LED.

The module can be easily configured using the DSE810 interface and PC. Front panel editing is also available. The module can be controlled from a PC that is located up to a maximum distance of 100 meters away.

The DSE720 is an Automatic Mains Failure Control Module incorporating all the features of the DSE710 plus the ability to monitor the mains (utility) supply, automatically controlling the switch-over to generator when the mains (utility) power fails.



ENVIRONMENTAL TESTING STANDARDS

ELECTRO-MAGNETIC COMPATIBILITY

BS EN 61000-6-2 EMC Generic Immunity Standard for the Industrial Environment BS EN 61000-6-4 EMC Generic Emission Standard for the Industrial Environment

ELECTRICAL SAFETY

BS EN 60950 Safety of Information Technology Equipment, including Electrical Business Equipment

TEMPERATURE BS EN 60068-2-1 Ab/Ae Cold Test -30 °C BS EN 60068-2-2 Bb/Be Dry Heat +70 °C

VIBRATION

BS EN 60068-2-6 Ten sweeps in each of three major axes 5 Hz to 8 Hz @ +/-7.5 mm, 8 Hz to 500 Hz @ 2 gn

HUMIDITY

BS EN 60068-2-30 Db Damp Heat Cyclic 20/55 °C @ 95% RH 48 Hours BS EN 60068-2-78 Cab Damp Heat Static 40 °C @ 93% RH 48 Hours

SHOCK BS EN 60068-2-27

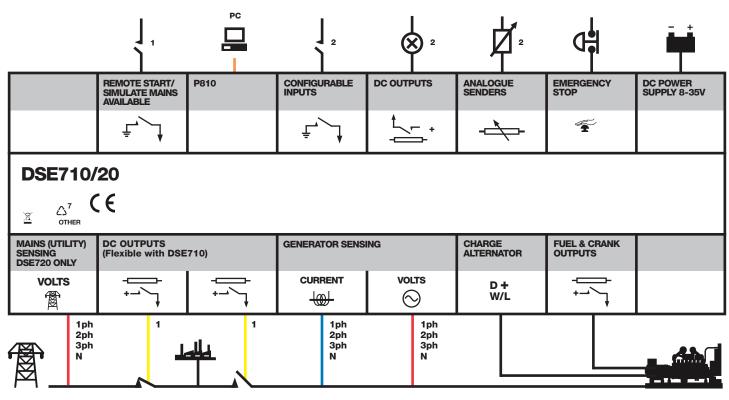
Three shocks in each of three major axes 15 gn in 11 mS

DEGREES OF PROTECTION PROVIDED BY ENCLOSURES

PROVIDED BY ENCLOSURES BS EN 60529

IP65 - Front of module when installed into the control panel with the supplied sealing gasket.

COMPREHENSIVE FEATURE LIST TO SUIT A WIDE VARIETY OF GEN-SET APPLICATIONS







EGSA

DGD. INC MED Septemb ISSUE 4





dse **710/20** Auto start and auto mains failure control modules

| FEATURES | | | | | | |
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DSE**720**

DSE710



KEY FEATURES

- PC/Front panel configuration
- Digital and analogue inputs
- Digital outputs
- Automatic mains (utility) supply monitoring (DSE720 only)
- Automatic shutdown or warning when fault conditions are detected
- Automatic/Manual/Remote start
- Engine pre-heat
- Engine monitoring and protection features
- Protected Solid State (PSS) outputs
- Tamper-proof engine hours
 counter

RELATED MATERIALS

DSE710 Installation Instructions DSE720 Installation Instructions DSE710 Operator Manual DSE720 Operator Manual DSE700 PC Software Manual

DEEP SEA ELECTRONICS PLC UK

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- . ___ .
- LED indicators
- Configurable timers
- Configurable outputs
- Configurable inputs
 Back lit character/ic
- Back-lit character/icon LCD display

KEY BENEFITS

- Automatic transfer between mains (utility) and generator power (DSE720 only)
- On-site module configuration and remote configuration (max 100 meters) using DSE PC software
- User-friendly set-up and button layout

PART NO'S

053-013 053-005 057-066 057-001 057-002

DEEP SEA ELECTRONICS INC USA

Multiple engine parameters are

monitored simultaneously

License-free PC software

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SPECIFICATION

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 180 mA at 12 V. 190 mA at 24 V

MAXIMUM STANDBY CURRENT 145 mA at 12 V. 150 mA at 24 V

OUTPUTS

AUXILIARY Solid state 2.4 A DC at supply voltage

FUEL/START Solid state 3.4 A DC at supply voltage

GENERATOR C.T. 5 A secondary 0.5 VA

GENERATOR INPUT RANGE 35 V(L-N) to 333 V AC(L-N) absolute maximum 50 Hz - 60 Hz (min 15 V AC)

MAINS (UTILITY) SENSING INPUT RANGE (DSE720 only) 35 V(L-N) to 333 V AC (L-N) 50 Hz - 60 Hz (min 15 V AC)

DIMENSIONS

OVERALL 209 mm x 146 mm x 30.3 mm 8.2" x 5.7" x 1.2"

PANEL CUT-OUT 182 mm x 137 mm 7.2" x 5.4"

MAXIMUM PANEL THICKNESS 8 mm 0.3"

