



DSE**7110/20**

AUTO START & AUTO MAINS FAILURE CONTROL MODULES

FEATURES



The DSE7110 is an Auto Start Control Module and the DSE7120 is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas, gen-set applications.

Monitoring speed, frequency, voltage, current, oil pressure, coolant temperature and fuel level, the modules will display warnings, shutdown and engine status information on the back-lit LCD screen and illuminated LEDs.

Both modules offer electronic (CAN) and non-electronic (magnetic pickup/alternator sensing) engine versions and offer an extensive number of flexible inputs, outputs and advanced engine protections so the system can be easily adapted to suit a wide range of application demands.

Enhanced features include a realtime clock for improved event monitoring and a 4-line icon display. The modules can be easily configured using the DSE Configuration Suite PC software. Front panel editing is also available.

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

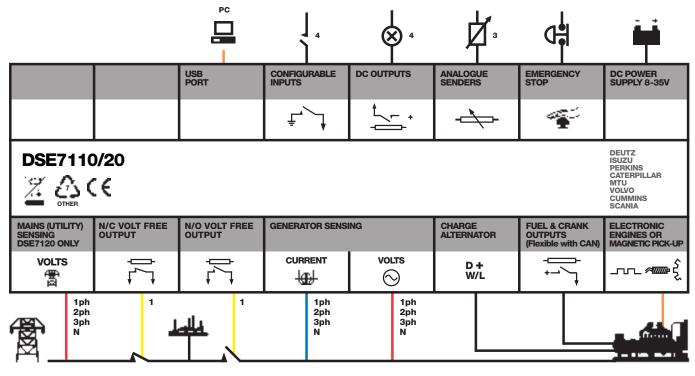
BS EN 60068-2-27 Three shocks in each of three major axes 15 gn in 11 mS

DEGREES OF PROTECTION PROVIDED BY ENCLOSURES

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





















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FEATURES



DSE**7120**

DSE**7110**





KEY FEATURES

- · Back-lit icon LCD display
- Five key menu navigation
- · Front panel editing
- · LED and LCD alarm indication
- Power Save mode
- · 4 Digital inputs
- · 3 Analogue inputs (2 fixed, 1 flexible)
- 6 configurable outputs
- · Configurable timers and alarms
- · Alternative configuration
- Event Log (5)
- · CAN and Magnetic Pick up / Alt. sensina
- · 3 Phase generator monitoring
- · Current monitoring and protection
- 3 Phase Mains (Utility) monitoring (DSE7120 only)
- Test button (DSE7120 only)
- · Automatic load transfer (DSE7120 only)

- Battery voltage monitoring
- · Engine pre-heat
- Hours counter
- · Comprehensive shutdown or warning on fault condition
- Backed-up real-time clock
- Fully configurable via DSE Configuration Suite PC software
- USB connectivity
- Remote SCADA monitoring via DSE Configuration Suite PC software

KEY BENEFITS

- Automatically transfers between mains (utility) and generator power (DSE7120 only)
- Real-time clock provides accurate event logging
- Hours counter provides accurate information for monitoring and maintenance periods

- · User-friendly set-up and button layout
- Multiple engine parameters are monitored simultaneously
- Module can be configured to suit individual applications
- Compatible with a wide range of CAN engines
- Uses DSE Configuration Suite PC software for simplified configuration
- IP65 rating (with supplied gasket) offers increased resistance to water ingress
- · Licence-free software

SPECIFICATION

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. LEDs and backlight will not be maintained during cranking.

MAXIMUM OPERATING CURRENT

290 mA at 12 V. 140 mA at 24 V

MAXIMUM STANDBY CURRENT

75 mA at 12 V, 40 mA at 24 V

CHARGE FAIL/EXCITATION RANGE

MAINS (UTILITY) DSE7120 ONLY

VOLTAGE RANGE 15 V - 333 V AC (L-N)

FREQUENCY RANGE

3.5 Hz to 75 Hz

OUTPUTS

OUTPUT A (FUEL)
15 A DC at supply voltage

OUTPUT B (START)

15 A DC at supply voltage

OUTPUTS C & D

AUXILIARY OUTPUTS E, F, G & H

2 A DC at supply voltage

GENERATOR

VOLTAGE RANGE 15 V - 333 V AC (L-N)

FREQUENCY RANGE

3.5 Hz to 75 Hz

MAGNETIC PICK UP VOLTAGE RANGE

FREQUENCY RANGE

10,000 Hz (max)

DIMENSIONS OVERALL

240 mm x 181 mm x 42 mm 9.4" x 7.1" x 1.6"

PANEL CUT-OUT

220 mm x 160 mm 8.7" x 6.3"

MAXIMUM PANEL THICKNESS

RELATED MATERIALS

TITLE

DSE7110 Installation Instructions DSE7120 Installation Instructions DSE7100 Operator Manual DSE7100 Configuration Suite PC Manual **PART NO'S**

053-080 053-081 057-113 057-117