

DSE701/02

MANUAL AND AUTO START CONTROL MODULES

FEATURES

The DSE701 is available in Manual and Auto Start versions, offering an excellent range of engine monitoring and protection features. The module offers inputs to monitor low oil pressure, high engine temperature and overspeed and the manual start version also has a user-defined auxiliary input. Auto Start versions also include an input option for a start signal from a remote location.

When the module detects any of the above faults it will automatically shut down the engine.

The module also has the capability to monitor battery charging by utilising the WL terminal on the charge alternator. On detecting a battery charging fault, it will light the warning LED on the front panel.

The DSE702 is available in Manual and Auto Start versions which include all the features of the DSE701 plus a tamper-proof engine hours counter.

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

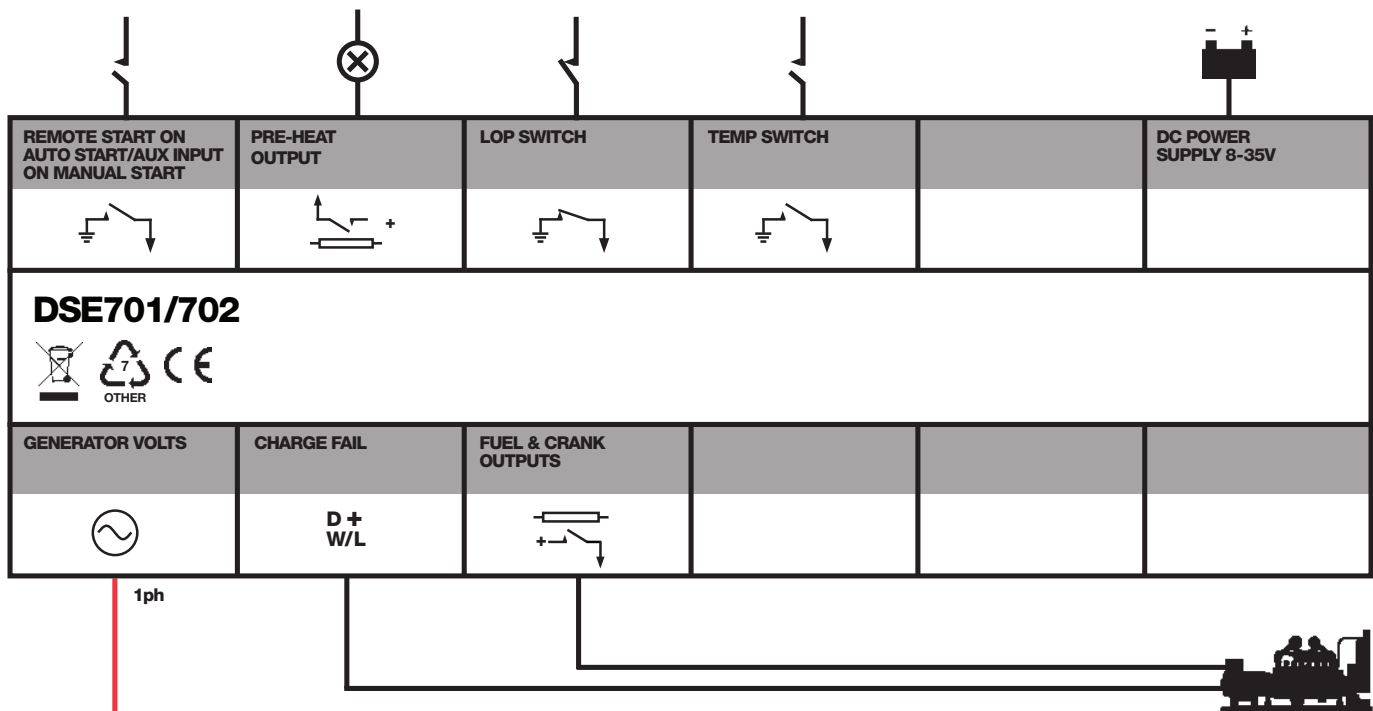
HUMIDITY

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

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



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FEATURES



DSE702



DSE701



KEY FEATURES

- Manual start and remote start versions
- Remote start input (auto start version only)
- Auxiliary shutdown input (Manual start version only)
- Engine monitoring and protection
- LED indication
- Engine pre-heat
- Tamper proof engine hours (DSE702 versions only)
- Front panel mounting

KEY BENEFITS

- Hours counter provides accurate information for monitoring maintenance and warranty periods (DSE702 variants only)
- Multiple engine parameters are monitored simultaneously

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.

OUTPUTS

START

Solid state 1.2 A negative grounding terminal

RUN

Solid state 1.2 A negative grounding terminal

PRE-HEAT

Solid state 1.2 A negative grounding terminal

GENERATOR

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

FREQUENCY RANGE
3.5 Hz to 75 Hz

DIMENSIONS

DSE701 OVERALL
72 mm x 72 mm x 38 mm
2.8" x 2.8" x 1.5"
Excludes key switch

DSE701 PANEL CUT-OUT
68 mm x 68 mm
2.7" x 2.7"

DSE702 OVERALL
84 mm x 72 mm x 34.9 mm
3.3" x 2.8" x 1.4"
Excludes key switch

DSE702 PANEL CUT-OUT
80 mm x 68 mm
3.1" x 2.7"

MAXIMUM PANEL THICKNESS

8 mm
0.3"

RELATED MATERIALS

TITLE

DSE701/2 Installation Instructions
DSE701/2 Operator Manual

PART NO'S

053-003
057-041

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