

DSE701 MKII

MANUAL AND AUTO START CONTROL MODULE

FEATURES



The DSE701 MKII controller can be user-configured for Auto or Manual Start operation using the DSE Configuration Suite Lite PC Software. Alternatively the controller can be ordered pre-configured. The DSE701 MKII offers 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 Auto Start version can be user-configured for Manual Start operation and the Manual Start version can be user-configured for Auto Start operation.

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

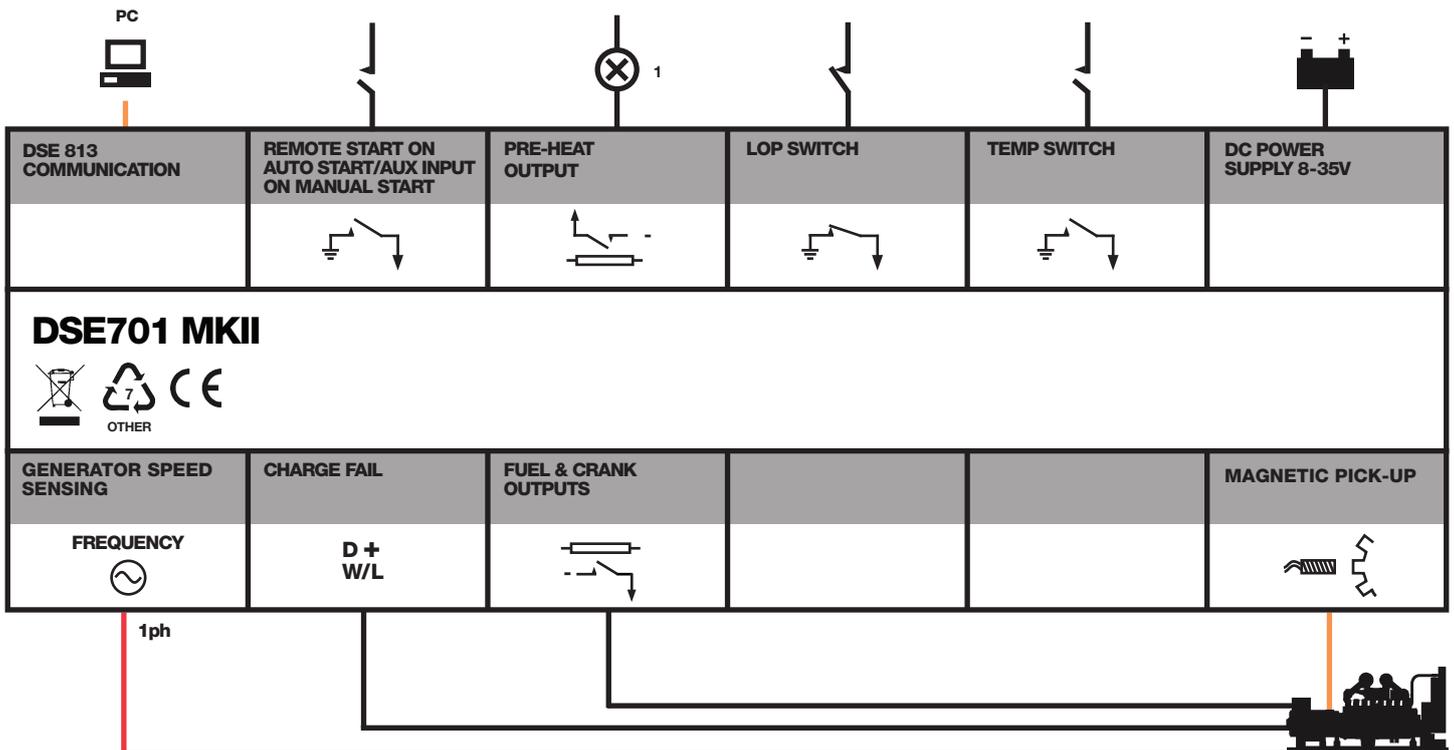
HUMIDITY

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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KEY FEATURES

- Configurable Auto and Manual Start versions
- Remote start input available (when in Auto Start mode)
- Auxiliary shutdown input available (when in Manual Start mode)
- Engine monitoring and protection
- LED status indication
- Automatic engine pre-heat
- Overspeed protection
- Front panel mounting

KEY BENEFITS

- The DSE701 MKII comes pre-configured for frequency (speed fensing) but can be user-configured for magnetic pick-up
- Uses DSE 813 USB Communications Adaptor and DSE Configuration Suite Lite PC Software for simple configuration
- Licence-free PC Software
- User-friendly setup and fascia layout

RELATED MATERIALS

TITLE

DSE701 MKII Installation Instructions
 DSE701 MKII Operator Manual
 DSE701 MKII Software Manual
 DSE813 USB Communications Adaptor Data Sheet

PART NO'S

053-132
 057-144
 057-145
 055-100

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

26 mA at 12 V, 27 mA at 24 V

MAXIMUM STANDBY CURRENT

20 mA at 12 V, 21 mA at 24 V

CHARGE/FAIL EXCITATION RANGE

0 V to 35 V

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

OVERALL

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

PANEL CUT-OUT

68 mm x 68 mm
 2.7" x 2.7"

MAXIMUM PANEL THICKNESS

8 mm
 0.3"

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