

# 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

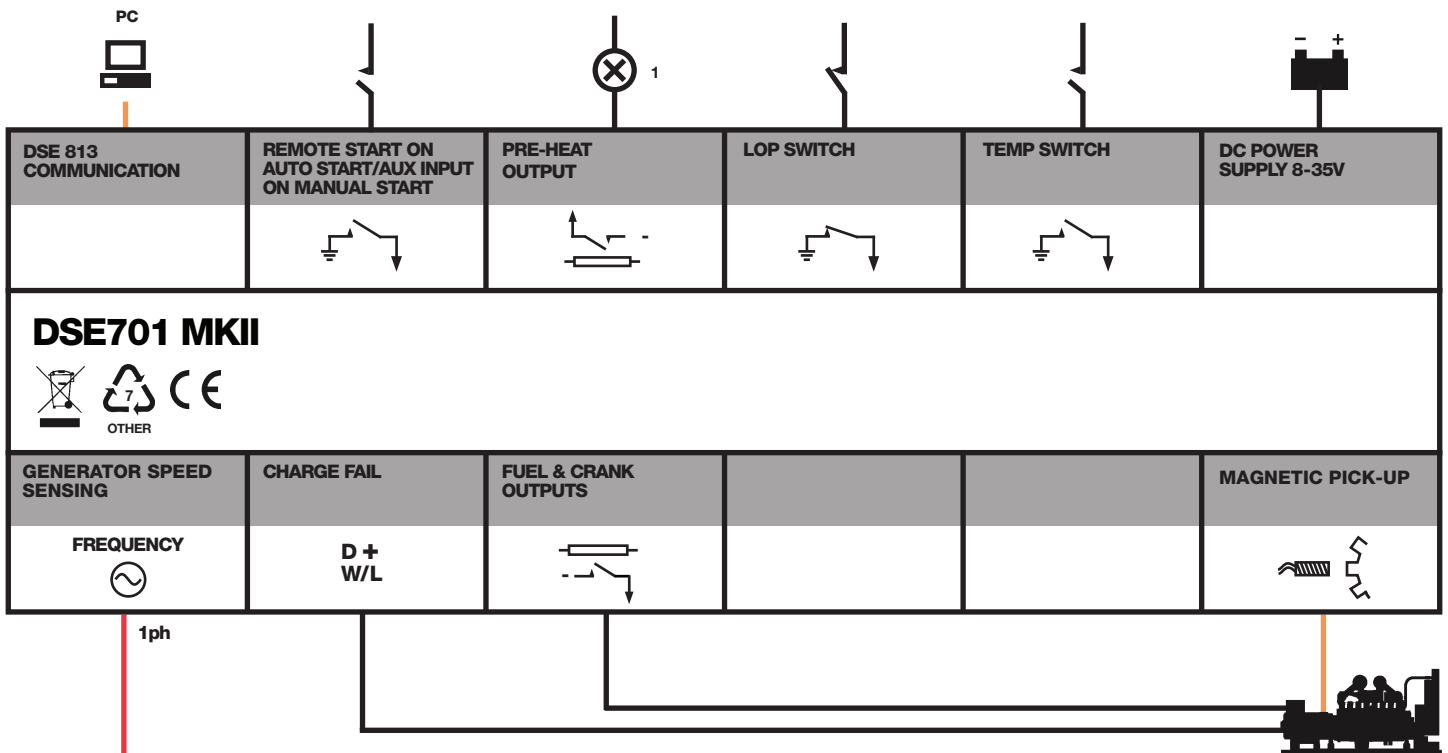
#### HUMIDITY

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

### 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"

### 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

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