

# DSE702

## MANUAL AND AUTO START CONTROL MODULES

### FEATURES

The DSE702 is available in Manual and Auto Start versions, offering an excellent range of engine monitoring and protection features plus a tamper-proof engine hours counter. 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.

### 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

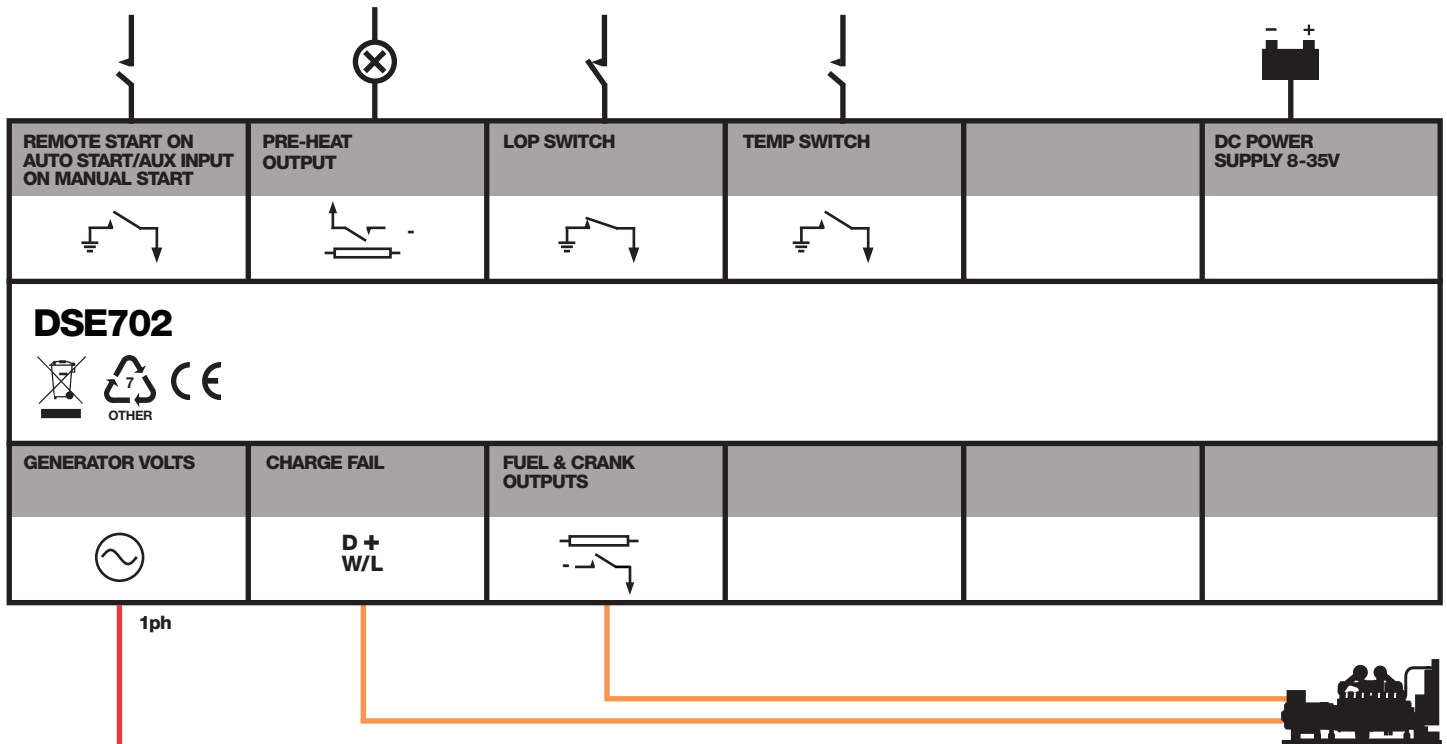
#### HUMIDITY

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



# DSE702

## MANUAL AND AUTO START CONTROL MODULES

### FEATURES



### KEY FEATURES

- Manual start and Auto 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
- Front panel mounting

### KEY BENEFITS

- Hours counter provides accurate information for monitoring maintenance and warranty periods
- 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

##### CRANK

Solid state 1.2 A negative grounding terminal

##### FUEL

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

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

##### PANEL CUT-OUT

80 mm x 68 mm  
3.1" x 2.7"

##### MAXIMUM PANEL THICKNESS

8 mm  
0.3"

##### OPERATING TEMPERATURE RANGE

-30°C to +70°C

##### STORAGE TEMPERATURE RANGE

-40°C to +80°C

### RELATED MATERIALS

#### TITLE

DSE701/2 Installation Instructions  
DSE701/2 Operator Manual

#### PART NO'S

053-003  
057-041

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