

# DSE3210

## MANUAL & AUTO START CONTROL MODULE

### FEATURES



The DSE3210 can be utilised as a Manual or Auto Start Module for single gen-set applications or engine only applications.

The module has been designed to provide advanced engine monitoring and protection features.

The DSE3210 includes a back-lit icon LCD display which clearly shows the status of the engine at all times.

The module monitors engine speed, frequency, voltage and engine run hours and also displays the warning and shutdown status.

The module includes flexible outputs as well as configurable inputs making this product ideal for a wide variety of applications. The module can be programmed using the DSE Configuration Suite PC software.

### 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

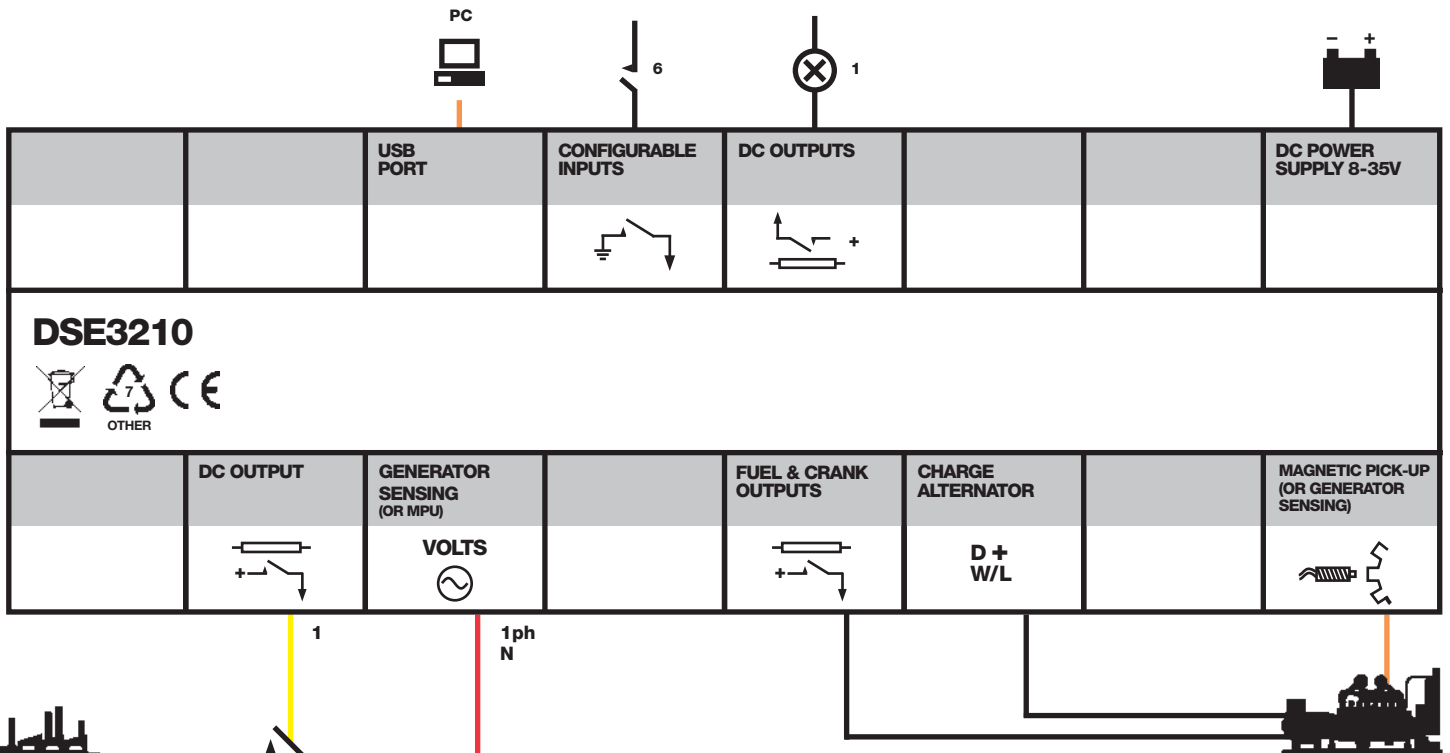
#### HUMIDITY

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



### KEY FEATURES

- Key switch
- Configurable inputs (6)
- Configurable outputs (2)
- Back-lit icon LCD display
- LED and LCD alarm indication
- USB configurable
- Configurable timers and alarms
- Alternative configuration
- Remote start input
- Generator voltage display
- Generator frequency display
- Battery voltage display
- Engine speed display
- Hours counter
- Engine pre-heat
- Comprehensive shutdown or warning on fault condition

### KEY BENEFITS

- Tamper-proof hours counter provides accurate information for monitoring and maintenance periods
- Multiple engine parameters are monitored simultaneously
- Module can be configured to suit individual applications
- Suitable for engine only applications
- Uses DSE Configuration Suite PC software for simplified configuration
- Licence-free PC software

### 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

#### CHARGE FAIL/ EXCITATION

8 V to 35 V fixed power source 2.5 W

#### NOMINAL STANDBY CURRENT

35 mA at 12 V, 30 mA at 24 V

#### MAXIMUM OPERATING CURRENT

55 mA at 12 V, 60 mA at 24 V

#### OUTPUTS

##### OUTPUT A (FUEL)

2 A DC at supply voltage

##### OUTPUT B (START)

2 A DC at supply voltage

##### AUXILIARY OUTPUTS C,D

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

+/- 0.5 V to 70 V

##### FREQUENCY RANGE

10,000 Hz (max)

#### DIMENSIONS

##### OVERALL

98 mm x 79 mm x 40 mm  
3.9" x 3.1" x 1.6"

##### PANEL CUT-OUT

80 mm x 68 mm  
3.1" x 2.7"

##### MAXIMUM PANEL THICKNESS

8 mm  
0.3"

##### STORAGE TEMPERATURE RANGE

-40 °C to +85 °C

### RELATED MATERIALS

#### TITLE

DSE3210 Installation Instructions  
DSE3210 Operator Manual  
DSE3210 Configuration Suite PC Software Manual

#### PART NO'S

053-133  
057-153  
057-152

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