**DSE710/20**

**AUTO START AND AUTO MAINS FAILURE CONTROL MODULES**

**FEATURES**

The DSE710 is an Automatic Start Control Module suitable for a wide variety of single diesel or gas genset applications. Monitoring an advanced list of engine parameters, the DSE710 will automatically shut down the engine, or indicate a warning, on detection of a fault condition, indicating the fault on the module’s front panel LCD display or LED.

The module can be easily configured using the DSE810 interface and PC. Front panel editing is also available.

The DSE720 is an Automatic Mains Failure Control Module incorporating all the features of the DSE710 plus the ability to monitor the mains (utility) supply, automatically controlling the switch-over to generator when the mains (utility) power fails.

The module can be controlled from a PC that is located up to a maximum distance of 100 meters away.

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

<table>
<thead>
<tr>
<th>REMOTE START/SIMULATE MAINS AVAILABLE</th>
<th>CONFIGURABLE INPUTS</th>
<th>DC OUTPUTS</th>
<th>ANALOGUE SENDERS</th>
<th>EMERGENCY STOP</th>
<th>DC POWER SUPPLY 8-35V</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PB10</td>
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**DSE710/20**

**MAINS (UTILITY) SENSING**

DSE720 ONLY

<table>
<thead>
<tr>
<th>DC OUTPUTS (Flexible with DSE710)</th>
<th>GENERATOR SENSING</th>
<th>CHARGE ALTERNATOR</th>
<th>FUEL &amp; CRANK OUTPUTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOLTS</td>
<td>CURRENT</td>
<td>VOLTS</td>
<td>D + W/L</td>
</tr>
<tr>
<td>1ph</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td>2ph</td>
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<td>3ph</td>
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**ENVIRONMENTAL TESTING STANDARDS**

- **ELECTRO-MAGNETIC COMPATIBILITY**
  - BS EN 61000-6-2
  - EMC Generic Immunity 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/Bf 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

- **DEGREES OF PROTECTION PROVIDED BY ENCLOSURES**
  - BS EN 60529
  - IP65 - Front of module when installed into the control panel with the supplied sealing gasket.
DSE710/20
AUTO START AND AUTO MAINS FAILURE CONTROL MODULES

KEY FEATURES
- PC/Front panel configuration
- Digital and analogue inputs
- Digital outputs
- Automatic mains (utility) supply monitoring (DSE720 only)
- Automatic shutdown or warning when fault conditions are detected
- Automatic/Manual/Remote start
- Engine pre-heat
- Engine monitoring and protection features
- Protected Solid State (PSS) outputs
- Tamper-proof engine hours counter

- LED indicators
- Configurable timers
- Configurable outputs
- Configurable inputs
- Back-lit character/icon LCD display
- Multiple engine parameters are monitored simultaneously
- License-free PC software

DSE720

KEY BENEFITS
- Automatic transfer between mains (utility) and generator power (DSE720 only)
- On-site module configuration and remote configuration (max 100 meters) using DSE PC software
- User-friendly set-up and button layout

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DSE GenSet

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