



## DSE**330** AUTO TRANSFER SWITCH CONTROL MODULE



The DSE330 is an Automatic Transfer Switch Controller. The DSE330 will monitor the voltage and frequency of the incoming AC supply from two different sources, which could be from both generator or mains (utility), or a combination of both. The module will monitor S1 (source 1) and in the event of a failure will issue a start command to S2 (source 2).

Once S2 is available and producing an output within limits, the module will control the transfer device and switch the load from S1 to S2. Once the S1 supply returns to within limits, the module will command a load return to S1 and shut down S2. Various timing sequences are available to prevent nuisance starting on minor supply breaks. Configurable digital inputs and outputs make the DSE330 fully flexible to suit a wide variety of applications.

The module can be easily configured using the DSE Configuration Suite PC Software. Where there is no DC supply a DSE160 self seeking power supply is required.

The DSE330 also supports many topologies, and includes a clear back-lit LCD display, showing system operational status and warnings.

#### 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

#### DEGREES OF PROTECTION PROVIDED BY ENCLOSURES

BS EN 60529 IP65 - Front of module when installed into the control panel with the optional sealing gasket.

### COMPREHENSIVE FEATURE LIST TO SUIT A WIDE VARIETY OF ATS APPLICATIONS

PC	2	★ 4	i i
USB PORT	CONFIGURABLE INPUTS	DC OUTPUTS	DC POWER SUPPLY 8-35V
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DSE330			
S1 SENSING	DC OUTPUTS		S2 SENSING
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ISSUE 1



## DSE**330**

#### **FEATURES**

# DSE **Deep Sea Electronics** 330 DSE S 2 Mode

#### **KEY FEATURES**

- Configurable inputs (2)
- Configurable outputs (6)
- Icon or English text display •
- LED indicator
- Front panel/PC configuration
- Source 1/Source 2 control •
- Configurable timers
- Start inhibit
- Load inhibit
- Manual restore to S1 •
- Supports multiple topologies
- Automatic switch-over between •
- supplies
- Rotary ATS configuration •
- Single event scheduler
- Single phase display

#### **KEY BENEFITS**

- Source 1/Source 2 provides total flexibility for the
- application of the product Icon and English text display
- for use across global markets · Fully automatic and switchover control minimises the
- effects of power disruptions User friendly set-up and button
- layout DSE Configuration Suite PC Software compatability for remote control and monitoring

### **RELATED MATERIALS**

- TITLE
- DSE330 Installation Instructions DSE330 Operators Manual
- DSE330 Configuration Suite Software Manual DSE160 Self Seeking Power Supply Data Sheet DSE160 Operator Manual

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PART NO'S 053-130 057-148 057-150 055-076 057-108

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#### 055-103/08/11 (2)

SPECIFICATION

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. LEDs and backlight will not be maintained during cranking.

MAXIMUM OPERATING CURRENT 61 mA at 12 V. 62 mA at 24 V

MAXIMUM STANDBY CURRENT 50 mA at 12 V, 51 mA at 24 V

#### OUTPUTS

AUXILIARY OUTPUTS A,B,C,D,E & F 2 A DC at supply voltage

VOLTAGE RANGE 15 V to 333 V AC (L-N)

FREQUENCY RANGE 3.5 Hz to 75 Hz

#### 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"

**OPERATING TEMPERATURE RANGE** -30°C to +70°C

STORAGE TEMPERATURE RANGE -40°C to +80°C

