



O TRANSFER SWITCH CONTROL MODULE

FEATURES



The DSE335 is an Automatic Transfer Switch Controller. The DSE335 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 S1and shut down S2.

Various timing sequences are available to prevent nuisance starting on minor supply breaks.

The DSE335 supports many topologies and features include mains (utility) rated volt-free relays, a clear back-lit LCD 4-line text display, showing system status and warnings and red and green LEDs indicating operational status.

The module includes USB, RS232 and RS485 ports as well as dedicated DSENet® terminals for system expansion, this gives features such as remote PC monitoring and SMS text alerts (with external modem).

The module can be easily configured using the DSE Configuration Suite PC Software. Selected front panel editing is also available.

Configurable inputs and outputs make the DSE335 fully flexible to suit a wide variety of applications.

When there is no DC supply, a compatible self-seeking power supply is available (DSE160).

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 maior 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

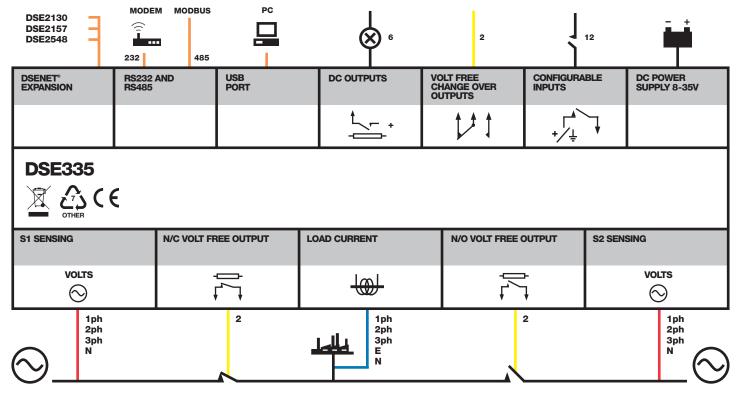
BS EN 60068-2-27 Three shocks in each of three major axes 15 gn in 11 mS

DEGREES OF PROTECTION PROVIDED BY ENCLOSURES

BS EN 60529

IP65 - Front of module when installed into the control panel with the supplied sealing gasket.

COMPREHENSIVE FEATURE LIST TO SUIT A WIDE VARIETY OF ATS APPLICATIONS



















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KEY FEATURES

- Configurable inputs (12)
- Configurable volt-free outputs (6)
- Configurable DC outputs (6)
- 4-Line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- LED and LCD alarm indication
- Check sync feature
- Remote monitorina
- Source 1/Source 2 control
- Start inhibit
- Load inhibit
- Manual restore to S1
- Supports multiple topologies
- Automatic switch-over between supplies
- Rotary ATS configuration
- Configurable timers and alarms
- Multiple date and time scheduler
- Power monitoring (kW h, kV Ar, kV A h, kV Ar h)
- Load switching (load shedding outputs)

- USB connectivity
- Backed up real time clock
- Fully configurable via DSE Configuration Suite PC software
- Configurable display languages
- User selectable RS232 and RS485 communications
- Configurable Gencomm pages
- SMS messaging (additional external modem required)
- Additional display screens to help with modem diagnostics
- DSENet® expansion compatible
- Integral PLC editor

KEY BENEFITS

- Source 1/Source 2 provides total flexibility for the application of the product
- Fully automatic and switch-over control minimises the effects of power disruptions
- User friendly set-up and button
- 3 phase display and check sync

- provide enhanced module functionality
- DSE Configuration Suite PC Software compatability for remote control and monitoring
- 132 x 64 pixel ratio display for clarity
- Real-time clock provides accurate event logging
- Ethernet communications (via DSE860/865 modules), provides advanced remote monitoring at
- Modules can be integrated into building management systems (BMS)
- Increased input and output expansion capability via DSENet®
- Licence-free PC software
- IP65 rating (with supplied gasket) offers increased resistance to water ingress
- PLC editor allows user configurable functions to meet specific application requirements

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

480 mA at 12 V. 360 mA at 24 V

MAXIMUM STANDBY CURRENT

126 mA at 12 V. 96 mA at 24 V

VOLTAGE RANGE

15 V to 333 V AC (L-N)

FREQUENCY RANGE

3.5 Hz to 75 Hz

OUTPUTS A & E

Normally closed volt-free output 8 A AC at 250 V AC

OUTPUTS B & F

Normally open volt-free output 8 A AC at 250 V AC

OUTPUT C & D

Changeover volt-free output 8 A AC at 250 V AC

AUXILIARY OUTPUTS G,H,I,J,K & L

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

240 mm x 181 mm x 42 mm 9.4" x 7.1" x 1.6"

PANEL CUT-OUT

220 mm x 160 mm 8.7" x 6.3"

MAXIMUM PANEL THICKNESS 8 mm

0.3"

OPERATING TEMPERATURE RANGE

STORAGE TEMPERATURE RANGE -40 °C to +85 °C

RELATED MATERIALS

TITLE

DSE335 Installation Instructions DSE335 Operator Manual DSE335 Configuration Suite PC Manual DSE160 Self Seeking Power Supply Data Sheet DSE160 Operator Manual

PART NO'S

053-136 057-158 057-157 055-076 057-108

DEEP SEA ELECTRONICS PLC UK

Highfield House, Hunmanby Industrial Estate, Hunmanby YO14 0PH TELEPHONE +44 (0) 1723 890099 FACSIMILE +44 (0) 1723 893303 EMAIL sales@deepseaplc.com WEBSITE www.deepseaplc.com

DEEP SEA ELECTRONICS INC USA

3230 Williams Avenue, Rockford, IL 61101-2668 USA **TELEPHONE** +1 (815) 316 8706 **FACSIMILE** +1 (815) 316 8708 EMAIL sales@deepseausa.com WEBSITE www.deepseausa.com