

# DSE857

## USB TO RS485 COMMUNICATIONS DEVICE



### KEY FEATURES

- Supports a wide range of DSE controllers.
- Converts supported DSE controller's USB port to an RS485 port.
- Simple configuration of DSE857 via the DSE Configuration Suite PC Software
- Remote control and monitoring of the connected supported DSE controller via the DSE Configuration Suite PC Software.
- Supports MODBUS RTU via RS485 port.
- LED status indication on the device to aid fault finding.

### KEY BENEFITS

- Allows remote connections of up to 1.2 km to monitor a DSE controller's status.
- Allows integration of DSE controllers into an external building management systems (BMS) or PLC.
- DIN rail mounting allows the device to be installed securely into a panel.
- Generic connectors for simple plug-in operation.
- Firmware upgradeable via a USB memory device.
- Compatible with DSE Configuration Suite PC Software for ease of configuration and remote control & monitoring.

### SPECIFICATION

#### DC SUPPLY

##### CONTINUOUS VOLTAGE RATING

8 V to 35 V Continuous

#### CRANKING DROPOUTS

Able to survive 0 V for 100 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

123 mA at 12 V

71 mA at 24 V

#### MAXIMUM STANDBY CURRENT

104 mA at 12 V

63 mA at 24 V

#### COMMUNICATIONS

USB (Single DSE Controller)  
RS485

#### DIMENSIONS

##### OVERALL

35 mm x 97 mm x 102 mm

1.4" x 3.8" x 4.0"

#### MOUNTING

DIN Rail

#### OPERATING TEMPERATURE RANGE

-30 °C to +70 °C

-22 °F to +158 °F

#### STORAGE TEMPERATURE RANGE

-40 °C to +80 °C

-40 °F to +176 °F

# DSE857

## USB TO RS485 COMMUNICATIONS DEVICE

The DSE857 is a USB to RS485 converter that allows you to convert a module's USB port to an RS485 port. This RS485 port allows you to connect the module to an RS485 MODBUS RTU master over 1.2 km away. The MODBUS RTU master could be an external PLC, Building Management System (BMS) or a PC running the DSE Configuration Suite PC Software.

The device also includes an LED indicator that shows the operation and connection status at all times.

### COMPATIBLE DSE CONTROLLERS INCLUDE:

#### AUTO START MODULES

|         |             |
|---------|-------------|
| DSEL400 | DSE6010     |
| DSEL401 | DSE6110     |
| DSE4310 | DSE6610     |
| DSE4410 | DSE7110     |
| DSE4510 | DSE7110MKII |
| DSE4610 | DSE7210     |

#### AUTO MAINS FAILURE MODULES

|         |             |
|---------|-------------|
| DSE4320 | DSE6120     |
| DSE4420 | DSE6620     |
| DSE4520 | DSE7120     |
| DSE4620 | DSE7120MKII |
| DSE6020 | DSE7220     |

### ENVIRONMENTAL TESTING STANDARDS

#### ELECTRO MAGNETIC COMPATIBILITY

BS EN 61000-6-2  
EMC Generic Emission 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 60068-2-2  
Test Ab to +70 °C 60067-2-2 Hot  
Test Ab to -30 °C 60068-2-1 Cold

#### VIBRATION

BS EN 60068-2-6  
Ten sweeps in each of three major axes  
5 Hz to 8 Hz at +/-7.5 mm, 8 Hz to 500 Hz at 2 GN

#### HUMIDITY

BS 2011 part 2.1 60068-2-30  
Test Cb Ob Cyclic  
93% RH at 40 °C for 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 APPLICATIONS

