

# 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

### RELATED MATERIALS

TITLE	PART NO'S	TITLE	PART NO'S
DSE857 Installation Instructions	053-169	DSE6010/20 Data Sheet	055-079
DSE857 Configuration Suite PC and Operations Manual	057-219	DSE6110/20 Data Sheet	055-069
DSEL400/L401 Data Sheet	055-162	DSE6610/20 Data Sheet	055-159
DSE4310/20 Data Sheet	055-154	DSE7110/20 Data Sheet	055-081
DSE4410/20 Data Sheet	055-068	DSE7110/20 MKII Data Sheet	055-138
DSE4510/20 Data Sheet	055-132	DSE7210/20 Data Sheet	055-050
DSE4610/20 Data Sheet	055-165		

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# 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

