



DEEP SEA ELECTRONICS

053-169
ISSUE 2

**DSE857 USB – RS485 CONVERTER
INSTALLATION INSTRUCTIONS**

DSE857 USB – RS485 converter is designed to allow DSE controllers with a USB port to be connected to an industry standard RS485 Modbus RTU Client system. This enables (for example) DSE controllers with USB ports to communicate with a Building Management System (BMS) or PLC with HMI using Modbus RTU over RS485.

SETUP

DSE Configuration Suite PC Software is used in conjunction with an RS485 port on the PC/Laptop. This allows the convertor to be setup as required by the Modbus RTU Client system.

For information in regards to setting up the Host DSE Controller, refer to the relevant Configuration Suite PC Software Manual which can be found on our website:
www.deepseapl.com.

Factory Settings

Baud Rate	Modbus Server ID
19200	10

USAGE

The host DSE controller has addressable registers as defined in the DSEGencomm Document. This and other DSEGencomm training documents are available from DSE Technical Support upon request from support@deepseapl.com.

DSE Part Number	Document Name	Description
056-080	Modbus.pdf	Describes the different types of Modbus.
056-078	DSEGencomm.pptx	Training Presentation about Modbus on DSE products.
056-079	Gencomm Status.pptx	Training Presentation about alternative ways to read status information from the DSE controller.
056-051	Gencomm Control Keys	Training Document describing how to control the DSE module using Modbus.
056-076	Gencomm Alarms	Describes how to read alarm status information from the DSE controller.
N/A	Gencomm	Describes the DSE controller's modbus register mapping.

Deep Sea Electronics Plc.

Tel: +44 (0)1723 890099
Fax: +44 (0)1723 893303

Email: support@deepseapl.com
Web: www.deepseapl.com

Deep Sea Electronics Inc.

Tel: +1 (815) 316-8706
Fax: +1 (815) 316-8708
TOLL FREE (USA only) :
Telephone: +1 866 636 9703
Email: support@deepseausa.com
Web: www.deepseausa.com

LED STATUS

An LED shows operating status of the USB connection to the host DSE controller.

LED State	Description
Off	DSE857 is powered down or the RS485 interface is not active.
Slowly Flashing	DSE857 has no active USB connection to a host DSE controller.
Rapidly Flashing	DSE857 is connected to a host DSE controller by USB and data is being transmitted.

DIMENSIONS

Parameter	Description
Overall Size	35 mm x 96.9 mm x 102.2 mm (1.34" x 3.81" x 4.02")
Mounting Type	DIN rail EN 50022 35 mm type only Indoor Use Only
Operating Temperature	-30 °C to 70 °C (-22 °F to 158 °F)

TYPICAL WIRING DIAGRAM

