eGauge USB-Serial Converter (USB485)

Visit the online store page

Model: USB485

The eGauge USB485 is used to receive and send serial data between a RS485 serial chain and a host's USB port. Primarily it is used for compatible eGauge meters (EG4xxx Core and Pro) to record data from remote Modbus devices (such as inverters, temperature sensors, and other meters), or for other systems (such as a building automation system or other data loggers) to read data from the eGauge via Modbus RTU.

It may be used for other non-eGauge applications as it utilizes a well known FT230X chipset from FTDI. However, eGauge Systems does not provide support for these applications.

eGauge RS485-USB Converter

Specifications

[Full specs (data-sheet PDF)](#)

- RS485 Data+, Data-, and Ground connections
- Termination switch
- TX and RX LEDs
- Mini-USB powered
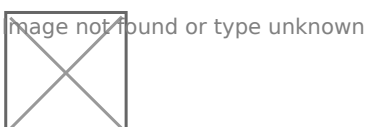- 66mm x 38.75mm x 15mm (2.60" x 1.52" x 0.59")

Hardware included

- eGauge USB485 converter
- 3' Mini USB to USB-A wire

Assembly/installation information

> Ensure proper wiring between serial devices. Only connect data signals, and signal ground (not earth ground).

1. Wire the serial line to the D+, D-, and signal ground. Use twisted pair wire for D+ and D- connections.
2. Turn the termination DIP switch to ON if it is the **last** connection on the serial line. Termination should be OFF if it is daisy chained in-between devices.
3. Connect the Mini USB cable to the EG4xxx USB1 or USB2 port. Take note of which port is used.

Multiple serial devices can be daisy chained on the same line as shown in the diagram below:

Software configuration Information

- If exporting eGauge data via Modbus RTU to another system, see the Modbus output communication article here.
- If importing data from a remote Modbus RTU device to the eGauge, see the Modbus input article here.

Documents

- Datasheet

Related Information

- Modbus output communication
- BF-430 serial-to-Ethernet converter
- Remote device via eGauge USB485
- Using the USB485 with a Windows 10 PC

Please visit kb.egauge.net for the most up-to-date documentation.