



USB485-MB45

Isolated USB – RS485 / Modbus Converter

The USB485-MB45 is a 2-wire RS485 adaptor, with automatic receive / transmit switching.

The USB485-MB45 has a 2.5kV isolation barrier to ensure high quality electrical separation between the PC and remote device thus offering excellent protection of the PC if the remote device should fail.

Easy to install – easy to use

Just connect the converter, install the drivers and use it like any other comport in the PC.

Specification

Baudrates: 300, 600, 1200, 1800, 2400, 4800, 7200, 9600, 14400, 19200, 38400, 57600, 115200, 230400, 460800, 921600 bps.

Startbits: 1

Databits: 7, 8

Parity: None, Even, Odd, Mark, Space

Stopbits: 1, 2

Flow control: Auto switching

Buffers: 128 bytes Rx and 256 bytes Tx fifo

485 specification

Powerful RS485, able to drive 256 nodes

±15kV ESD protection on RS485 pins

No termination resistor

Fail safe

Connections

Pin 3 : Gnd / 0V

Pin 4 : B (D-)

Pin 5 : A (D+)

USB 2.0 full speed device

Virtual comport drivers (drivers included on disk)

Windows 7, 8, Vista and XP compatible

Modbus capable (using adaptor for E2, E3, P3, HVAC, ECO & Elevator)

Hardware details

Connections: 1.5m screened cable for connection to E2, E3, P2, HVAC, ECO & Elevator

Visual LED indicators: Rx and Tx

Speed: Up to 1Mbps

Isolation: 2.5kVrms for 1 minute

Power: Powered from the PCs USB port

Operating temperature: 0 to 70°C

Mechanical details

Height: 14mm

Width: 23mm

Length: 66mm

Weight: 15 grams



Modbus RTU

This lead can also be used with the Invertek range of products for Modbus RTU.

A converter lead is required to change the pinout of the lead RJ45 header.

Modbus RTU is on pins 7 and 8 of the drives RJ45 header.

Gnd / 0V: Pin 3 of converter lead to Pin 3 on Optidrive RJ45 header

B (D-): Pin 4 of converter lead to Pin 7 (-RS485) on Optidrive RJ45 header

A (D+) Pin 5 of converter lead to Pin 8 (+RS485) on Optidrive RJ45 header