

Product sheet: USB485-MB45

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Rev: 1.3

## Isolated USB - Modbus / RS485 converter

The USB485-MB45 is a 2 wire RS485 adapter, with automatic receive / transmit switching, and RJ45 connection according to the Modbus specifications.

The USB485-MB45 have a 2.5kV isolation barrier that ensures a 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 it, install the drivers, and use it like any other comport in the PC.

## Comport specs

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

Flowcontrol: Auto switching

Buffers: 128 bytes Rx and 256 bytes Tx fifo.

## RS485 specs

- Powerful RS485, able to drive 256 nodes
- $\pm 15$  kV ESD protection on RS485 pins
- No termination resistor
- Fail safe

## Modbus connections – RJ45

According to Modbus specification "Modbus over serial line"

Pin 4 : B (D-)

Pin 5 : A (D+)

Pin 8 : Gnd

- **USB 2.0 full speed device**
- **Virtual comport drivers**
- **Windows-8, 7, Vista and XP compatible**
- **Modbus capable**



## Hardware details

- Connection: 3 meter screened cable with RJ45 for Modbus
- Visual indicators (Leds) : 2 (Rx and Tx)
- Speed : up to 1Mbps
- Isolation voltage: 2.500 Vrms / 1 minute
- Power : Powered from the PCs USB port
- Operating temperature : 0 to 70°C

## Mechanical details (excl. cable)

- Height : 14mm
- Width : 23mm
- Length : 66mm
- Weight : 15 gr

## Commercial details

- Order : **USB485-MB45/300**
- Price(2014) : **EUR 75 @1**  
**EUR 68 @10**  
**EUR 62 @25**

