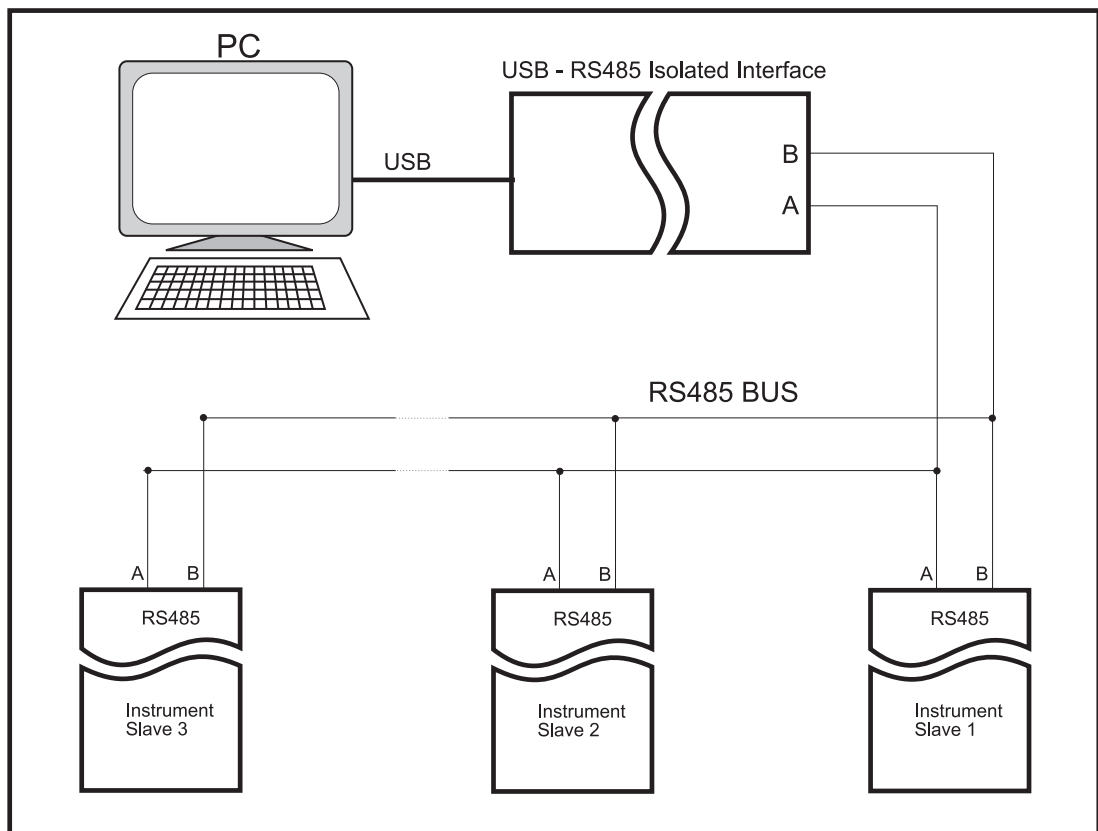


## USB-RS485: Usb rs485 Isolating converter



### **Description**

Galvanically isolated usb to rs485 half duplex physical protocol converter for connecting a PC master to a rs485 bus containing slaves.

Protects equipment from surges and spikes.

Usb interface is based on industry standard FTDI FT232RL integrated circuit with software drivers for Virtual Com Ports (VCP) in windows and linux OS.

The RTS line of the com port is used to control transmission/reception direction of the half duplex rs485 bus.

RS485 is a differential pair with no ground, there are 2 lines A and B, both carry voltages in the order of 3 to 5 volts. Bus cable can be a unshielded twisted pair (UTP) as the used on ethernet networks.

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## Technical specifications

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### Electrical:

Electrostatic, ESD (Human Body Model) on A, B pins :	15Kv
Maximum number of half duplex nodes on bus:	255
Maximum data rate:	500 kbps
Isolation:	5000 Vrms, 1 minute duration
Common-mode transient immunity:	>25 kV/μs
Bus length:	up to 1000m.

### Internal virtual com port connections:

RTS -> CTS for flow control (transmit/receive)  
DTR -> DSR for device presence recognition.

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### Construction:

Dimensions:	90 x 25 x 15 mm.
Weight:	40 grams.
Operation temperature:	0 ... 50 °C.

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## Part code:

USB-RS485

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## For more information:

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