

## M080

## Service USB / RS485 converter



### Summary

**M080 is a service USB to RS485 converter. It is used to link RS485-based devices or networks of those devices to a PC. Keep in mind M080 is service tool and it is not for permanent communication with a RS485 network.**

### Application

- **addressing and setup of Domat I/O modules, room units and room controllers**

### Function

After the drivers are installed and the converter is connected to the USB port of the computer, a virtual COM port is created. This port can be used by any PC software to communicate with a RS485 bus in the same way as if the bus devices were connected directly to a native serial port.

There are drivers for MS Windows (Windows 98 and later), Linux, MacOS, MS Windows CE.NET (version 4.2 and later).

A very important feature is galvanical separation of the USB port from the RS485 bus. It brings high tolerance to EMC issues even in a harsh industrial environment.

Three LEDs indicate proper communication with the driver, and transmission and reception of data.

The drivers are free to download at [www.rcware.eu](http://www.rcware.eu).

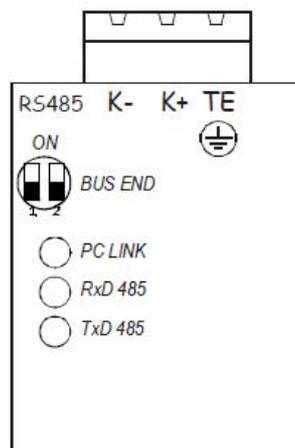
### Technical data

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Power	no external power required, the converter is powered from the USB port
Ambient temperature	0 ÷ 60°C
Relative humidity	5% ÷ 95% non-condensing
RS485 communication	
Communication speed	300...230400 bps
Max. number of devices on the bus	256 without repeater
Data flow control	automatic

Bus termination	DIP switches BUS END
Other functions	„true fail-safe“ – fault handling of the input buffer when the line is disconnected or short-circuited
USB	2.0, unique ID which enables connecting more converters to more USB ports together with other USB devices
Galvanical separation	USB and RS485 are galvanically separated up to 1000 V DC
Indication	LED: PC Link, Rx485, Tx485
Dimensions	50 x 35 x 15 mm, cable length 1.5 m (other cable lengths on demand)

## Terminals, LED



PC Link	green, on: communication with the drivers in the computer is OK
RXD485	green, RS485 data receiving
TXD485	red, RS485 data sending
BUS END	both switches at ON: RS485 bus termination
K-	RS485 communication, negative
K+	RS485 communication, positive
TE	RS485 technical earth

## Related products

<b>UI...</b>	room units with Modbus RS485 communication
<b>UC..., FC...</b>	room controllers with Modbus RS485 communication
<b>M...</b>	I/O modules with Modbus RS485 communication
<b>M012</b>	RS232 / RS485 converter
<b>M035</b>	RS485 / Ethernet – Modbus router and converter
<b>M036</b>	RS485 / Ethernet – Modbus router and converter