USB-RS485 Interface Converter E1187 connects devices with RS485 interface to PC via USB port. The converter may be used for configuration or calibration of various RS485 devices (including PluraSens ® series detectors and transmitters), for reading/logging data from RS485 device to PC, etc.

Safety requirements

Always adhere to the safety provisions applicable in the country of use. Do not perform any maintenance operation with the power on. Do not immerse the device into water or any cleaning media.

Before starting

Connect the converter to a USB port of your computer. If drivers are not installed automatically, install them manually using the CD supplied with the converter.

Install the necessary software for calibration and configuration of your RS485 device (e.g. PluraSens Configurator).

Connection and operation

• If your RS485 device is disengaged (recommended):

1. Connect the wires from the converter to your RS485 device strictly in the following order: 0V, A, B,+12V DC. The wire colour codes are presented in the table below. Due to wire end sleeves the converter is convenient to use with PluraSens® series devices.
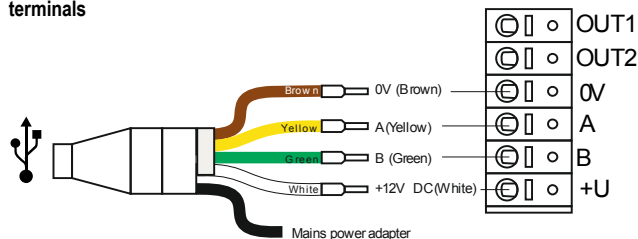
Colour	Function	PluraSens terminal
Yellow	A	A
Green	B	B
Brown	0V	0V
White	+12V DC	+U

2. Connect the converter to a USB port of your computer.

3. Connect the converter to the mains via power adapter.

• If your RS458 device is connected to a system with an external power source or have an inegrated 230V power supply unit, do not use power adapter of the converter and do not connect the +12V DC (white) wire: In this case, proceed as follows:

1. Turn off the power.

2. Disconnect the A and B lines of the RS485 device.

3. Connect the converter to the RS485 device. Do not connect the +12V DC (white) wire.

4. Connect the converter to a USB port of your computer.

5. Turn on the power.

Correspondence between E1187 wires and PluraSens® connection terminals

Specifications

Bus Type	USB 2.0
Serial interface	RS485
OS Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, Mac OS X and Linux
Power Supply	mains 90...265 VAC
RS458 connecting cable length	ca. 0.5 m
Power cable length	ca. 1.2 m
USB extension cable length	0.8 m
CE marking	meets 2014/30/EU requirements
Operating conditions	Ambient room temperature and humidity; Atmosferic pressure; Non-aggressive atmosphere without condensation, dust, water or oil mist; Avoid mechanical shock, vibrations and EMI; Avoid direct sunlight

Delivery set

– USB-RS485 Interface Converter E1187

– USB extension cable

– Product support CD-ROM

Warranty

This product is warranted to be free from defects in material and workmanship for a period of one year from the date of the original sale. During this warranty period Manufacturer will, at its option, either repair or replace product that proves to be defective. This warranty is void if the product has been operated in conditions outside ranges specified by Manufacturer or damaged by customer error or negligence or if there has been an unauthorized modification.

USB-RS485 Interface Converter

E1187
User manual

Evikon