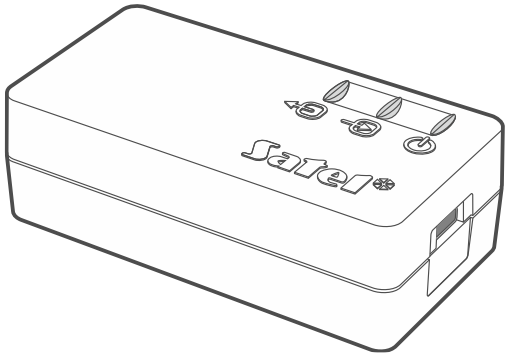
USB / RS-485 converter

USB-RS485

EN



usb-rs485_en 04/26

SATEL sp. z o.o. • ul. Budowlanych 66 • 80-298 Gdańsk • POLAND
tel. +48 58 320 94 00
www.satel.pl

IMPORTANT

The device should be installed by qualified personnel.

Prior to installation, please read carefully this manual.

Changes, modifications or repairs not authorized by the manufacturer shall void your rights under the warranty.

Description of symbols on the device:

The device meets the requirements of the applicable EU directives.

The device is designed for indoor installation.

The device must not be disposed of with other municipal waste. It should be disposed of in accordance with the existing rules for environment protection (the device was placed on the market after 13 August 2005).

SATEL aims to continually improve the quality of its products, which may result in changes in their technical specifications and software. Current information about the changes being introduced is available on our website.
Please visit us at:
https://support.satel.pl

The declaration of conformity may be consulted at www.satel.pl/ce

Signs in this manual

Caution – information on the safety of users, devices, etc.

Note – suggestion or additional information.

CONTENTS

1. Features 2
2. Description 2
2.1 Terminals 2
3. Connecting 2
4. Specifications 3

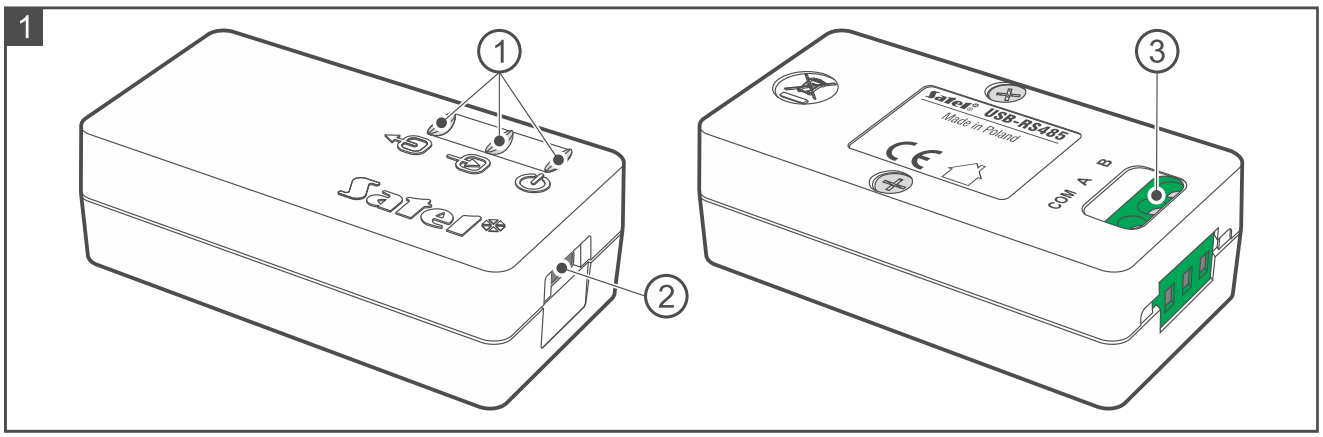
The converter is used to connect the RS-485 bus to the computer USB port. This enables programming and updating firmware of devices connected to the RS-485 bus.

1. Features

- Capability to connect RS-485 devices to a computer for programming or firmware updating.
- USB 2.0 port (type C connector).
- Powered from the computer USB port.
- Screw terminals for connecting the RS-485 bus.
- Galvanic isolation of the RS bus and the computer USB port.
- Support of up to 255 devices connected to the RS-485 bus.
- LED indicators.

2. Description

1



(1) LED indicators.

- [green] – sending data.
- [green] – receiving data.
- [red] – power ON.

(2) USB-C port.

(3) RS communication bus.

2.1 Terminals

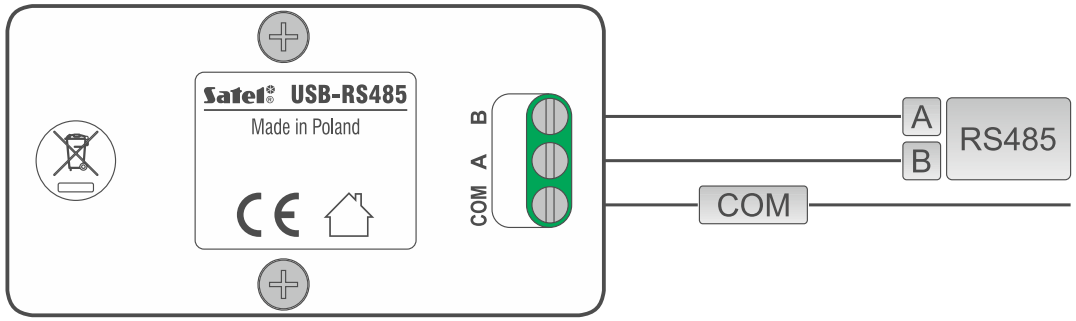
A, B - RS communication bus.
COM - common ground.

3. Connecting

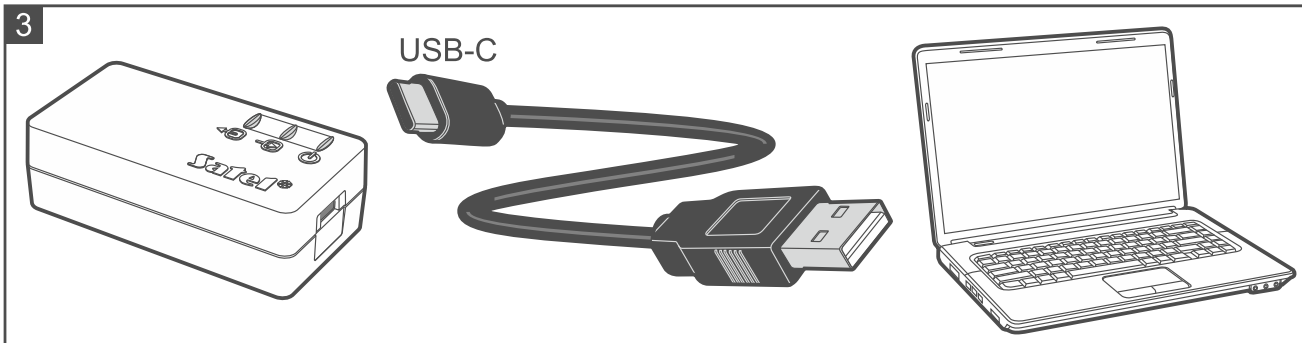
- The converter should be used indoors, in spaces with normal air humidity.
- The converter is powered from the computer USB port.
- You can connect the converter to the bus at any point.
- Use a UTP cable (unshielded twisted pair) to connect the converter to the RS bus.

- Screw the bus wires to the A and B converter terminals (Fig. 2).
- If required, screw the ground wire to the converter COM terminal (Fig. 2).
- To connect the converter to the USB computer port, use a USB cable suitable for data transfer. The Windows operating system will automatically detect the device and install appropriate drivers. When the drivers are installed, a virtual serial COM port will be available on the computer.

2



3



4. Specifications

Supply voltage (from USB port) ..... 5 VDC
Maximum current consumption ..... 30 mA
USB connector type C
Maximum USB cable length ..... 5 m
Operating temperature range ..... -10°C...+55°C
Maximum humidity ..... 93±3%
Dimensions ..... 68 x 35 x 22 mm
Weight ..... 32 g