

iSMA-B-CVT-RS485

iSMA-B-CVT-RS485 is a ready-made USB converter for a two-wire RS485 connection. Data transmission via RS485 is carried out in **half-duplex** mode. From the computer side (USB) the device is seen and operated as a typical serial port. The device has galvanic isolation of the RS485 bus made in the modern **iCoupler®** technology. The converter is adapted to be powered from the USB bus.

Key features

- Protection in the event of short-circuit of the signal cable with the screen
- Support for stopping and resuming work
- Resistor terminating the RS485 line: 120 ohms, switched via a switch
- Ability to save user parameters in non-volatile EEPROM memory
- LEDs indicating the sending and receiving of data
- Female B-type USB connector
- Serial UART transmission: 7 or 8 data bits, 1 or 2 stop bits, parity check (none, parity, odd parity, sign, space)



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Specification

Communication

- Maximum data transmission speed: 500kb / s
- Communication mode: half-duplex
- Communication between RS485 devices: 2-wire bus + screen connection terminal
- Maximum length of RS485 network: 1200m
- Up to 256 devices
- Data transmission mode: USB Bulk or Isochronous
- Resistor terminating the RS485 line: 120Ω, switched via a switch

Environment

- Converter operating temperature:
-40 ° C to + 85 ° C (-40 ° F to 185 ° F)

Power supply

- Power supply from the USB interface

Compliance of the device with standards and norms:

- ANSI TIA/EIA RS-485-A
- ISO 8482: 1987(E)
- DIN EN 60747-5-2 (VDE 0884 Rev. 2): 2003-01
- DIN EN 60950 (VDE 0805): 2001-12
- EN 60950: 2000