

USB-RS485 Converter Datasheet



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v.25.1

1. INTRODUCTION

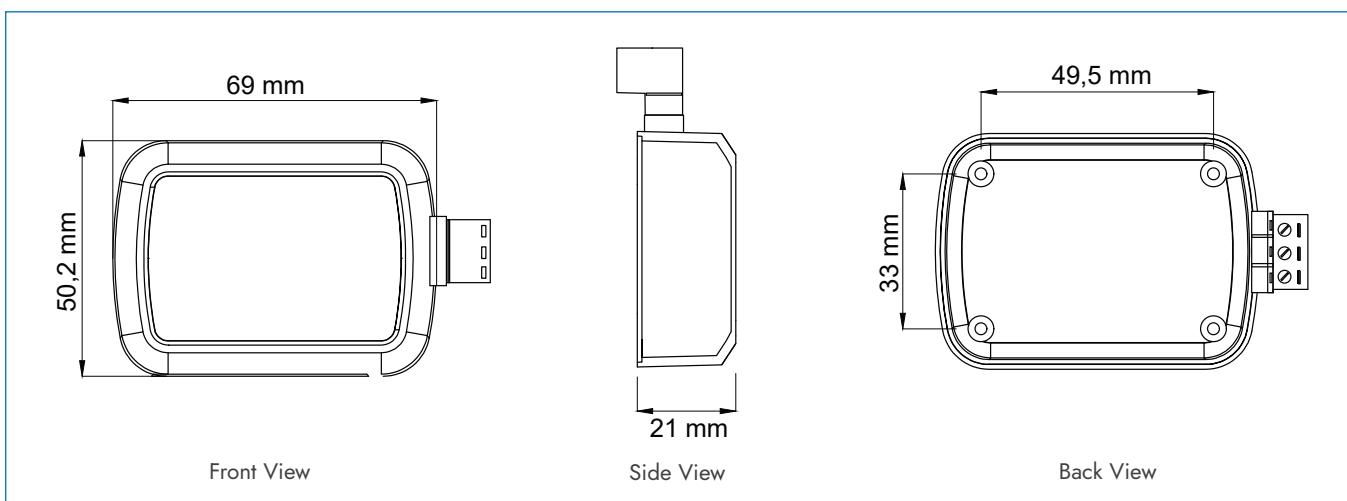
1.1. General Features

It is used as a USB-RS485 converter for data exchange with devices communicating via RS485 using a PC (USB port).

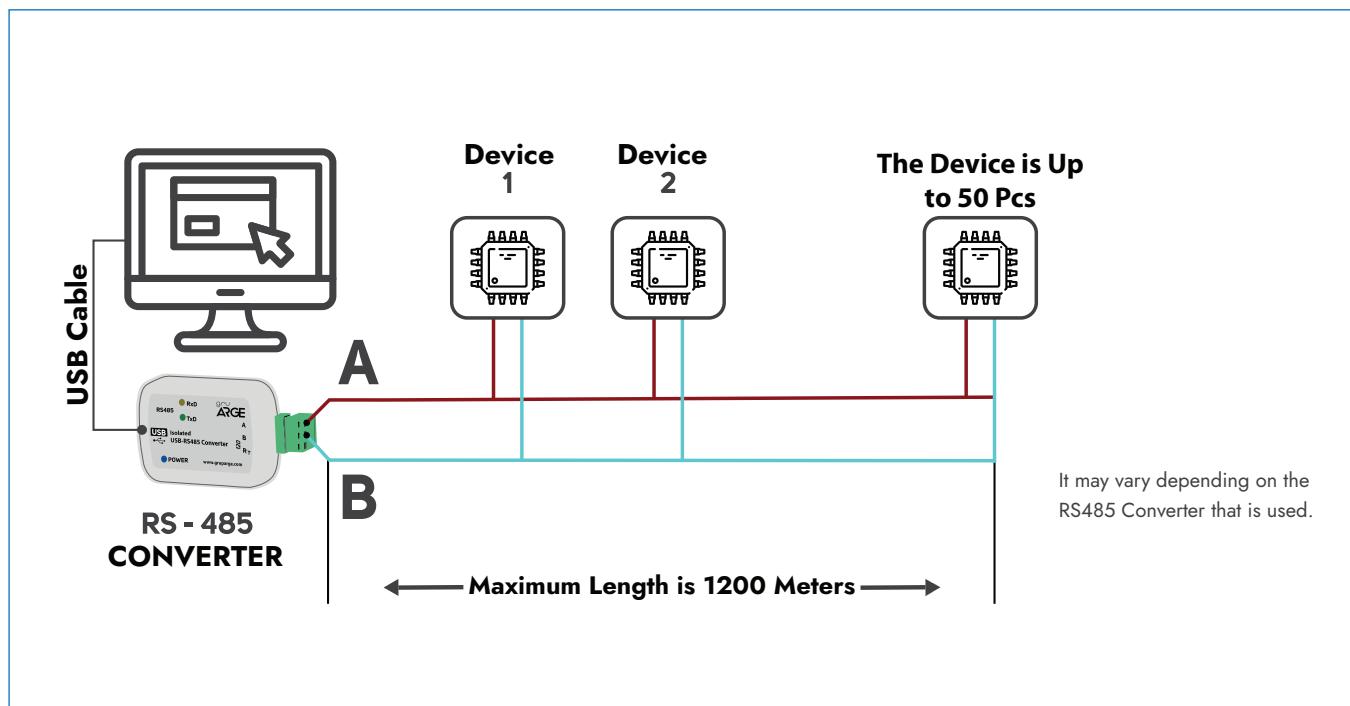
1.2. Basic Features

- It is microprocessor based.
- **Port:** It has the ability to work via USB (mini) (with 2.0 support).
- **Communication:** It has a maximum of 500 kbps isolated communication (1.5 kV voltage isolation) feature.
- **Number of Communicating Devices:** It can simultaneously convert the data of 32 devices communicating via RS-485.
- **LED Status:** It has Power, RS-485 Communication RX and TX LEDs.
- **Terminating Resistor:** The device has a built-in 120Ω terminating resistor. If desired, the internal terminating resistor can be activated with R_t terminal connection.
- **Ambient Temperatures:** It can operate at ambient temperatures between $-10\text{ }^{\circ}\text{C}$ and $+60\text{ }^{\circ}\text{C}$
- **Device Dimensions (Width x Height x Depth):** $50.2 \times 12 \times 69$ mm
- **Supply Consumption Power:** < 1 VA
- **Protection Class:** IP40

1.3. Technical Drawing



1.4. Connection Diagram



We recommend that the cable to be used for RS-485 communication be selected according to the table below.

Cable Distance	Recommended Cable	Alternative Recommendation
Up to 30 m	3*0,22 Shielded and Twisted Signal Cable	CAT-5 Ethernet Cable
Over 30 m	3*0,50 Shielded and Twisted Signal Cable	CAT-6 Ethernet Cable