USB-RS485 Converter
User Manual



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PROPER USE AND SAFETY REQUIREMENTS



Cut all the power when connecting and disconnecting the device to a panel.



Do not clean the device with a solvent or similar material. Only use a dry cloth.



Please do not intervene to the device when a technical problem is encountered and get in contact with a technical service within the shortest time.



If the warnings are not taken into account, our company or the authorized dealer shall not be held responsible for the negative consequences.



Do not dispose in the trash, the device must be delivered to the collection centers (electronic device recycling centers). It should be recycled or disposed of without harming human health and environment.



The installation, assembly, activation and operation of the device hould be done and used by only expert professionals and in accordance with safety regulations and instructions.

1. INTRODUCTION

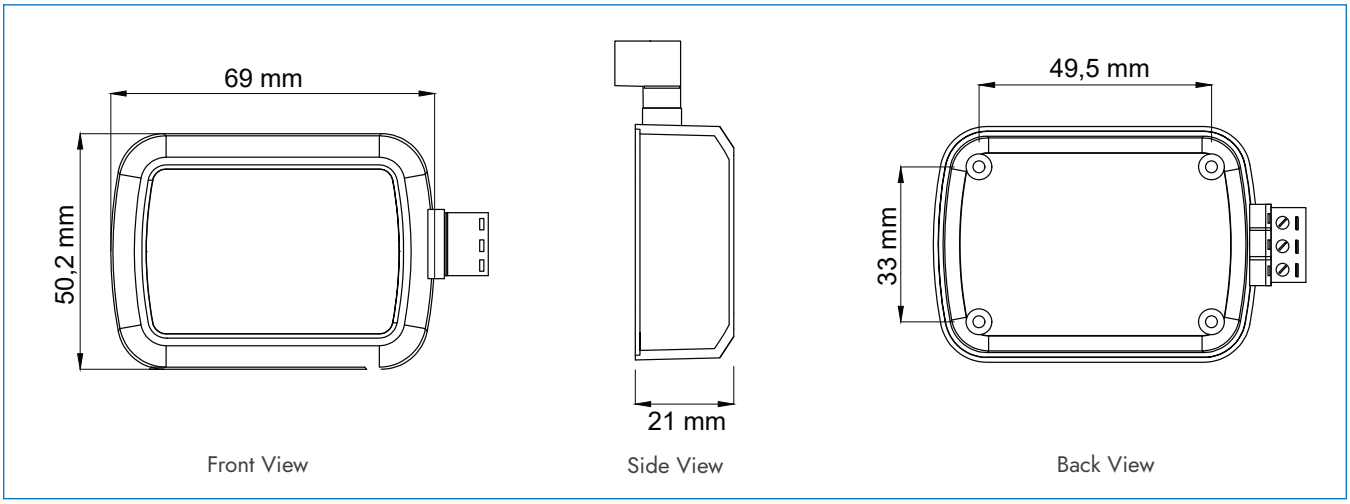
1.1. General Features

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

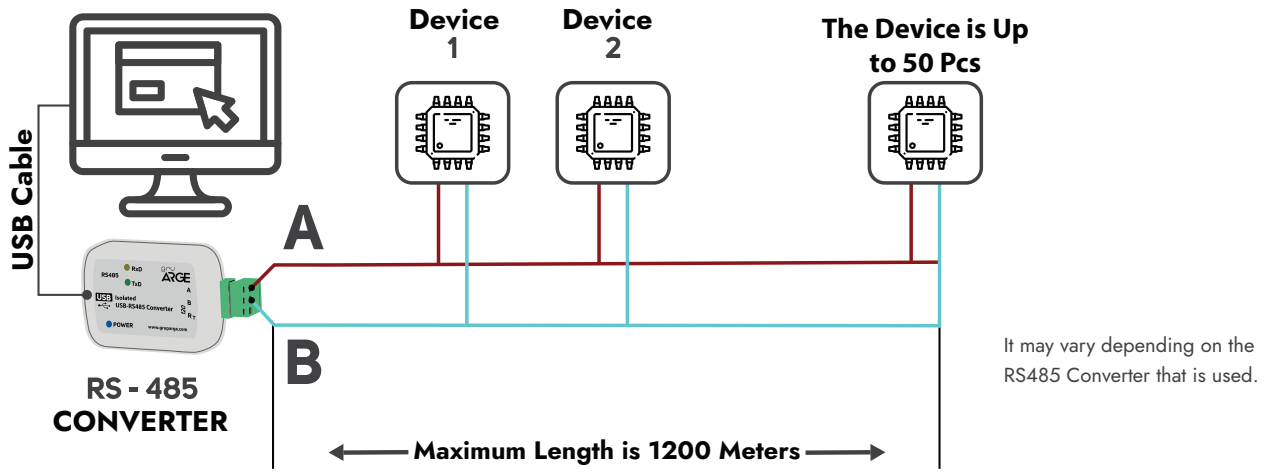
1.2. Basic Features

- 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 Rt terminal connection.
- **Ambient Temperatures:** It can operate at ambient temperatures between -10 ˚C and +60 ˚C
- **Device Dimensions (Width x Height x Depth):** 50.2 x 12 x 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