PROLON



Datasheet

RS485 Converter (PL-485-BT)

Description

The PL-485-BT is a Bluetooth 4.0 to RS485 converter. Its main purpose is to allow any smartphone or tablet to view and configure a Prolon control system, using Prolon's free Focus software application. The PL-485-BT also acts as a general purpose USB to RS485 converter for use with PC.

The PL-485-BT is the ideal tool for contractors and end users due to its simplicity and ease of use. The PL-485-BT can be used as a portable, battery-powered communication tool, or it can be fixed in place and powered via USB for permanent wireless access.

Features

- Bluetooth 4.0, also known as Bluetooth LE (Low Energy), for reduced battery consumption
- Built-in LEDs for RS485 transmit and receive, power status and Bluetooth activity
- Removable screw type terminal block for DATA+, DATA- and GND terminals
- Custom RJ45 jack for plug-and-play connection to Prolon controllers
- USB electrically isolated from RS485 to prevent potentially hazardous ground loops
- Constant communication for approximately 15 hours on a single charge
- Empty battery fully charges in 2 to 3 hours
- No battery consumption when power switch off
- Factory reset, passkey modification and more all available over software

Technical Specifications

- **Wireless**: Bluetooth Low Energy v.4.0, GFSK Protocol, 2.4 GHz, 1 Mbps
- **Bluetooth Range**: Up to 330 ft. (100 m)
- **RS-485**: 2-Wire with removable terminal block and RJ45 jack
- **Baud rates**: configurable 9600, 19200, 38400, 57600 (default), 115200 bps
- **USB**: USB 2.0, Connector Type B, Isolated from RS485
- **Battery**: Lithium-Ion 3.7V, UL Certified
- **Antenna**: Internal (PCB Trace)
- **Dimensions**: 4" x 3" x 1.25" (102 mm x 76 mm x 32 mm)
- **Weight**: 0.45 lbs (0.20 kg)
- **Environment**: -40 to 185 °F (-40 to 85 °C) *non-condensing*
- **Certification**: RoHS, FCC part 15: 2012 class B

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