



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)
- RoHS
- Environment: -40 to 85 °C (-40 to 185 °F) non-condensing