



## Bluetooth to 485 Converter



### Introduction

Based on Bluetooth technology Bluetooth to 485 Converter allows you to wirelessly connect your GS Inverter (or other RS-485 devices) to systems within the range up to 100M, If using the outdoor direction antenna can up to 1KM (option) , it features wide range power input, auto RS-232/422/485 signal switching and internal surge protection on RS-422/485 lines. It also supports all common data format and baud rate which can be configured by the bundled utility from Windows system. The converter can operate in “Direct link mode” and “Paired mode” When in paired mode, the user just need to power two devices, and they will automatically connect without software and hardware changes on your systems that will replace your serial wire with a completed transparent wireless connection. It can be used for wide range of applications for wireless operation and monitoring process.

### Features

- Bluetooth V1.2 Class 1 compliance. (2.5mW/4dBm)
- Bluetooth interface compatible with PDA and PC-Base system.
- Transmission range open filed 100M .
- Fully PLC support such as Mitsubishi Q,FX and FATEK serial....
- Bi-directionally RS-485 signals communication.
- Support all common baud rate from 1.2K to 256Kbps.
- Comfortable TRP-BT configuration software (Windows version).
- RS-232/422 and RS485 signal auto switching.
- Master/Slave connection mode selectable.
- LED indicators for Power/Link(Active)/TX/RX.
- Surge protection on RS-422/RS485
- RS232/422/485 +/- 15KV ESD protection.
- Power supply: Screw terminal, or external DC adapter
- Wide input range power supply.
- DIN rail and panel mount support.



## Specifications

- Power requirement: DC voltage input from +10V to +30V.
- RS-232 signal: TXD, RXD, GND, RTS, CTS.
- RS-422/485 connection: industrial plug-in screw terminal.
- RS-485 signal: differential 2 half-duplex wires. (Data+, Data-)
- RS-422 signal: differential 4 full-duplex wires (TX+, TX- , RX+, RX-)
- Baud rate; support baud rate from 1.2Kbps to 256Kbps.
- Data bit 5,6,7,8
- Support Parity check: None, Even, Odd
- Stop bit: 1, 2
- Support RS-232 flow control RTS/CTS: Enable, Disable.
- Host PC to TRP-C51 connection: use null modem female-female cable.
- Plug-in screw terminal wiring: Accepts AWG #12 ~30 wires.
- Wireless transmission distance: Open filed :100M ,Normal:20~30M.
- RS-422/485 distance: up to 4000ft . ( 1200M ).
- LED indicator: Power, Link(Active), TX, and RX.
- Antenna cable length :150cm.
- Power input type: Screw terminal or external DC adaptor (5.5\*2.1\* 12mm /500mA).
- Power consumption: 1.2 watt.
- Operating temperature:-10 to 50°C .
- Storage temperature: -20 to 70°C .
- Humidity: 10-90% Non-condensing.
- Dimension: 151mm X 75mm X 26mm .
- Weight: 400g .

## Accessories

- ANT-2.4G-9DB(Optional)      Mini Outdoor direction antenna  
(Open filed up to 1KM)
- PWR-AD12V-Auto(Option)      Switching Adaptor  
Input:100~240VAC 50/60Hz 260mA  
Output: DC 12V/1A  
Certificate: CE, FCC, UL, PSE
- T-snap (Option)                  DIN rail mounting adapter





**Diagram: Paired Mode (peer to peer)**

