



## Bluetooth Wireless Device

### S80001

- Class 1 Bluetooth radio
  - Bluetooth SIG certified 1.1 compliant
- External RF antenna connector for flexible and optimal installation
  - Connect wirelessly to any ZENO® or WEATHERPAK®
    - Ranges of >100 meters possible
      - Internal battery
      - LED status indicators

This Bluetooth wireless device will connect directly to any ZENO® or WEATHERPAK® – and make it wireless! It is designed for environmental monitoring, and its robust design will handle extreme environmental conditions. It uses the Bluetooth SPP (Serial Port Profile) protocol. The device will communicate with any other Bluetooth enabled device – on your PC, Palm, or laptop.

This Bluetooth is a class 1 Bluetooth radio and achieves at least 100 meters range of communications. The class 1 radio, combined with an external antenna attachment, provides the user with antenna options to maximize the communication range with other Bluetooth enabled devices beyond 100 meters. The RS-232 Bluetooth adaptor establishes a Bluetooth connection and then gives the user the ability to communicate fully with the ZENO® 3200 data acquisition system.

This device includes an internal lithium Ion rechargeable battery as a back-up power source, which provides approximately 4 hours of continuous Bluetooth connected operations. Power for the device is normally provided by the ZENO®.

It also includes LED's that provide information on the Bluetooth active status of

waiting to be discovered and connected to, and of a Bluetooth connection. An LED also provides information on power operations. A switch can turn off the power LED to conserve standby current consumption.

In addition to durability and flexibility, this RS-232/485 BlueTooth Adaptor was designed for ease of use, and is pre-configured in slave mode to operate with most applications, without any setup or configuration procedures.





## Technical Specifications

**S80001****Bluetooth Radio:**

Frequency Band	2.4 to 2.483 GHz
Modulation Scheme	FHSS, GMSK
Receive Sensitivity	-80 dBm typ for BER, 0.1%

**Bluetooth Profiles:**

General Access, Service Discover, Serial Port

**Baud Rate:**

Default	9600 bps
Configurable	1200 to 19,200 bps
Flow Control, Default	None

**Internal Battery:**

Battery Type	Lithium Ion Rechargeable, 4.2 VDC
Battery Life	Approx. 4 hours Back-up - Continuous Use
Number of Recharge Cycles	500

**Environmental Conditions:**

Operating Temperature	-40°C to +80°C
Storage Temperature	-40°C to +95°C
Humidity	5% to 95% non-condensing

**Power:**

Transmit Power	+16 dBm
Standby Current (Slave Mode)	< 5 mA

**External Antenna:**

+2 dBi

**RF Connector:**

Female SMA

**Impedance:**

50 ohm

**Serial Connector:**

9-pin Male D-SUB, DTE

**BlueShark Config. Utility Software:**

Windows® 98, 2000, XP Compatible

**Certifications:**

Bluetooth 1.1 / FCC/CFR 47, part 15 / Industry Canada (CSA) / CE Mark: EN 300 328-2 & EN 301 489-17 / Safety LVD: EN60950

**PHYSICAL****Dimensions:**

48.8 mm (W) x 85.75 mm (L) x 20 mm (H)