



AnyBridge Solar-Powered Wireless Sensor Module

Product features

- Solar-powered operation
- 4-20 mA sensor interface with integrated sensor power supply
- 868 MHz ISM-band wireless communications interface
- USB 2.0 service interface
- Configurable sample rate
- Remote configuration and software updates through the AnyBridge M2M Controller
- Integrated solar panel
- 1.200 mAh battery pack
- Robust IP-67 enclosure suitable for outdoors application
- Designed for quick installation

Solar-powered measurement solution

For applications where installation costs are critical in the business case, AnyBridge offers the solar-power Wireless Sensor Module. The AnyBridge Wireless Sensor Module is compatible with the AnyBridge M2M Controller.

Wireless sensor measurements

The AnyBridge Wireless Sensor Module connects an industry-standard 4-20 mA sensors and sends its signal to the AnyBridge M2M Controller at programmable intervals through its 868 MHz wireless interface.

Connect to the AnyBridge M2M Platform

The configuration settings and software version of the AnyBridge Wireless Sensor Module can be remotely updated by the AnyBridge M2M Controller and the services provided by the AnyBridge M2M Platform. A USB 2.0 service interface is provided for local configuration and software updating.

Ultra low-power design

Because of its ultra-low-power design, the Wireless Sensor Module works from its internal battery pack that is recharged by the sun through the integrated solar panel. The Wireless Sensor Module can therefore operate completely independent from external power supplies. This reduces the installation effort to a minimum. At one-hour measurement intervals, the battery is sufficient to power the Wireless Sensor Module during a period of 20 days without recharging. The solar panel is dimensioned for supplying enough recharging current, even during the winter season with low sunshine activity.

Straightforward installation

Installation of the Wireless Sensor Module is a straightforward procedure that requires little more than mounting the unit and connecting the sensor. The IP-67 ingress protection level and the robust design of the enclosure make it well suited for outdoors applications.

Product specifications

Sensor interfaces

1 analog 4-20 mA sensor interface with 24VDC sensor power supply voltage

Communication interfaces

868 MHz ISM-band wireless communication interface
USB 2.0 service interface

M2M application functions

Configuration parameter EEPROM: 2 kB
Integrated real-time clock (accuracy: 100 ppm)
Watchdog controller

General specifications

Integrated solar panel
1200 mAh back-up battery
Power consumption (typical): 4 mW
Mechanical dimensions: 200 x 180 x 55 mm
Ingress protection level: IP-67
Regulatory compliance: EN 61000-1, EN 61000-3-2, EN 61000-2-2, EN 61000-6-3, IEC 60950
Operating temperature range: -20/+65 °C

