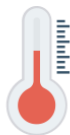


SensorNode Bluetooth®

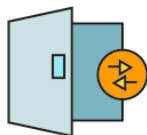
IP67 Rated, battery powered Bluetooth sensor monitoring device



APPLICATIONS



Cold Chain Management



Door Open/Close



Tank Level Monitoring



Low-cost sensor monitoring

The SensorNode Bluetooth is a battery powered, Bluetooth enabled sensor device that interfaces to a range of sensors and inputs.

The SensorNode Bluetooth wirelessly transmits its data to other Bluetooth enabled devices, such as a mobile phone, or Digital Matter BLE enabled devices like the Remora2 or G120.

Perfect for cold chain and other sensor monitoring applications.

FEATURES

- IP67 Rated
- Up to 4 years battery life using 3 x AA off-the-shelf batteries
- Easy to install
- Optional +19dBm high-power Bluetooth 5 for range up to 700m
- I2C interface to interface with a wide range of sensors

MECHANICAL SPECIFICATIONS

Low Profile, IP67 Rugged Housing

The IP67 rated housing is made of sturdy ABS/Polycarbonate plastic to survive bumps and knocks and to survive many years in the sun and weather. It is low-profile and caters for a number of cable glands to allow for waterproof cable entry to the housing. The housing screws together for easy assembly, and has convenient mounting tabs.

Dimensions

L 135 x W 90 x H 35 mm

Operating Temperature

-20°C to +60°C¹

1) For operation in extreme temperatures the device must be fitted with lithium batteries

POWER

Line Power

4-6 V Line Power enables the SensorNode to be powered by a USB 5V wall socket if permanently installed in a location with power.

3 x AA Batteries

3 x AA 1.5V Batteries
Alkaline or Lithium

Up to 3 years battery life with alkaline batteries
Up to 4 years with lithium

**Power not internally switched, only one power input (battery or line) can be used at a time*

CONNECTIVITY

Network

Bluetooth 4.2 as standard
Bluetooth 5 optional (future release)

Range

Bluetooth 4.2 – up to 100m
BLE 5 – Up to 700m (+19dBm option)

INPUTS AND INTERFACES

Digital Inputs

2 x Digital Inputs
Configurable pull-up/pull-down

Analogue Inputs

2 x 0-30V Analogue Inputs with auto-ranging
12 bit ADC
Built-in battery voltage monitoring

I²C Interface

I²C (inter-IC communications) is an interface commonly used in sensor modules. This allows the SensorNode to talk to a wide range of sensors including: temperature, humidity, vibration, CO2 gas and many others. Contact Digital Matter about sensor support.

Other

Accelerometer

Internal Accelerometer

Flash Memory

Internal Flash Memory