

PQ – SENSORNODE BLUETOOTH



IP67 Rated, battery powered Bluetooth sensor Monitoring device



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

PQ - SensorNode Bluetooth wirelessly transmits its data to other Bluetooth enabled devices, such as a mobile phone, or PrismaQuality BLE enabled devices like the PQ - Remora2 or PQ - G120.

Perfect for cold chain and other sensor monitoring applications.



Low-cost Sensor monitoring



Temperature / Cold Chain



Tank Levels



Door Open / Close

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

PQ – SENSORNODE BLUETOOTH

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 35mm
Operating Temperature	-20°C to +60°C 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.
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	I ² C (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 PrismaQuality about sensor support.

OTHER

Accelerometer	Internal Accelerometer
Flash Memory	Internal Flash Memory