



Wireless Analog Voltage Sensor

Technical Overview

General Description

The OEM RF Wireless Analog Voltage Sensor can interface with other devices to measure voltage up to 1.25 DCV.

Features

- Wireless interface for measuring voltage.
- Measures voltage up to 1.25 DCV.

Principle of Operation

By connecting the leads on the OEM Wireless Analog Voltage Sensor to the positive and ground terminals of another device, battery or sensor, it can measure the voltage and send data to the sensor monitoring software. The data is stored in the sensor monitoring software and can be reviewed and exported as a data sheet or graph. Notifications can be set up to alert the user when certain thresholds have been met or exceeded.

OEM Sensor Core Specifications

- Power: 3.0 V coin cell battery
- Communication: RF 900, 868 and 433 MHz
- Antenna: 4" wire antenna
- Operating Temperature: -40° to 85°C (-40° to 185°F)
- Device Range: 250 - 300 ft. non-line-of-sight*
- Only 1 inch by 1 inch

* Actual range may vary depending on environment.

Applications

- Strain gauges.
- Pressure transducers.
- Thermocouples.
- Piezoelectric sensors.
- Photo resistors
- And many more...

Specifications

Supply Voltage	2.0 - 3.6 VDC *
Current Consumption	0.7 μ A (sleep mode) 2 mA (radio idle/off mode) 2 mA (measurement mode) 25 mA (radio RX mode) 35 mA (radio TX mode)
Operating Temperature Range	-40°C to +85°C (-40°F to +185°F) **
Optimal Battery Temperature Range (Coin Cell)	+10°C to +60°C (+50°F to +140°F)
Sensor Resolution	11 bit (single ended)
Conversion Time	228 μ s
Full Scale Voltage	0 - 1.25 VDC ***

* Hardware can not withstand negative voltage. Please take care when connecting a power device.

** At temperatures above 100°C, it is possible to lose programmed memory.

*** If application exceeds 20 mA the sensor will return a maximum reading of 20 mA.

If current applied to measurement port exceeds 30mA, circuit protection and conditioning is required.

For more product information, to get a quote, or to place an order, please contact our sales department at 801-561-5555. Visit us on the web at www.oemsensors.com.