

Wireless 0-1.2 VDC Voltage Meters

General Description

The Wireless Voltage Meter can interface with other devices to measure voltage up to 1.2 VDC.

Features

- Wireless interface for measuring voltage.
- Measures voltage up to 1.2 VDC.
- User calibration, allows for higher accuracy.



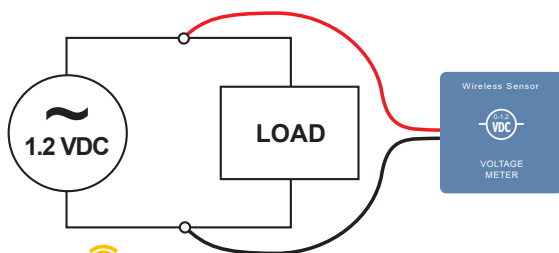
Free iSenseit basic online wireless sensor monitoring and notification system to configure sensors, view data and set alerts via SMS text and email.

Principle of Operation

By connecting the leads on the Senseit Wireless Voltage Meter to the positive and ground terminals of another device, battery or sensor, it can measure the voltage and send data to the iSenseit Online Sensor Monitoring and Notification System. The data is stored in the online system and can be reviewed and exported as a data sheet or graph. Notifications can be set up through the online system to alert the user when certain thresholds have been met or exceeded.

Proper Installation:

If the sensor is not connected to the power source properly, it will appear that the sensor is broken. Please follow this wiring diagram to ensure proper performance and detection.



Senseit Sensor Core Specifications

- Wireless Range: 250 - 300 ft. (non-line-of-sight / indoors through walls, ceilings & floors) *
- RF Communication: 900 MHz Power:
- Replaceable batteries (optimized for long battery life, line-power)
- Battery Life (at 1 hour heartbeat setting): **
 - AA battery > 4-8 years

* Actual range may vary depending on environment. (Wi-Fi sensors typical range is up to 100 ft.)

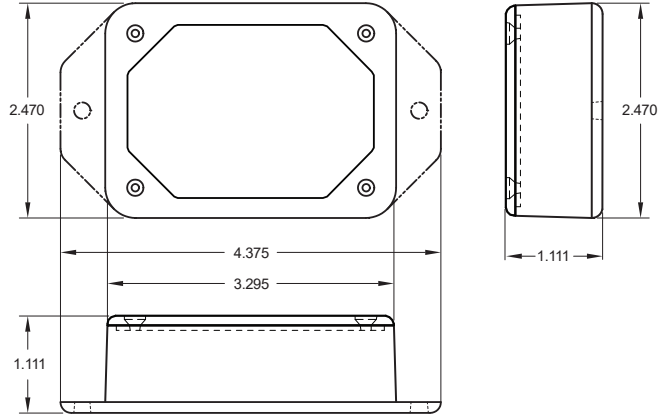
** Battery life is determined by sensor reporting frequency and other variables.


Example Applications

- Strain gauges.
- Pressure transducers.
- Thermocouples.
- Piezoelectric sensors.
- Photo resistors

And many more...

Wireless 0-1.2 VDC Voltage Meter (AA)



Technical Specifications	
Supply Voltage	2.0 - 3.6 VDC (3.0 - 3.6 VDC Using Power Supply) *
Current Consumption	0.7 μ A (sleep mode) 2 mA 2 mA (measurement mode) 25 mA (radio RX mode) 35 mA (radio TX mode)
Operating Temperature Range (Board Circuitry and Batteries)	-18°C to 55°C (0°F to 130°F) using alkaline -40°C to 85°C (-40°F to 185°F) using lithium **
Optimal Battery Temperature Range (AA)	+10°C to +50°C (+50°F to +122°F)
Lead Wire Length	1 ft. (12 in.)
Sensor Resolution	~ 0.6 mV (11-bit single ended)
Sensor Accuracy	+/- 1.5% FS (calibratable)
Conversion Time	228 μ s
Full Scale Voltage	0 - 1.21 VDC ***
Weight	3.7 oz.
Wireless Range	Range may vary according to environmental variables
Certifications 	900 MHz product; FCC ID: ZTL- RFSC1 and IC: 9794A-RFSC1.

- * Hardware cannot withstand negative voltage. Please take care when connecting a power device.
- ** At temperatures above 100°C, it is possible for the board circuitry to lose programmed memory.
- *** If application exceeds 1.21 VDC the sensor will return a maximum reading of 1.2 VDC. If voltage applied to measurement port exceeds 2.0 VDC, circuit protection and conditioning is required.

Power Options

Two replaceable 1.5V AA sized batteries are included with the standard model. A line-power version with battery backup is also available - allowing it to be powered by a standard 3.0 - 3.6V power supply and use the internal batteries if there is a power interruption.

Power options must be selected at time of purchase as the internal hardware of the sensor must be changed to support the selected power requirements.