



Wireless Pressure Sensor

Technical Overview

General Description

The OEM RF Wireless Pressure Sensor is capable of measuring gas, liquid or vapor pressures from 0-160 PSI. This sensor can be used anywhere a pressure gauge can be used. Requires 12 – 32 VDC input. This solution combines a standard pressure transducer interfaced to a Monnit Wit wireless radio.

Features

- Measure pressure from 0-160 PSI.
- Measure gas, liquid or vapor pressures.
- Pressure transducer is NEMA 4X, CE rated.

Principle of Operation

The OEM Wireless Pressure Sensor to a pressurized gas, liquid or vapor supply line, it can measure the pressure within the line and send data to the sensor monitoring software. The data is stored in the 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

- Compressed Air Lines
- Water Supply Lines
- And many more...

Specifications	
Supply Voltage	2.0 - 3.6 VDC *
Current Consumption	0.7 µA (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) **
Performance	0.7% BFSL Accuracy
Operating Temperature	-40 to 221°F (-40 to 85°C)
Certifications	 900 MHz product; FCC ID: ZTL-RFSC1 and IC: 9794A-RFSC1. 868 and 433 MHz product tested and found to comply with: CISPR 22:2008-09 / EN 55022:2010 - Class B and ETSI EN 300 220-2 V2.4.1 (2012-05).

Pressure Transducer Technical Specifications	
Thermal Effect on Reading	2% per 100 °F
Media	Gas, Liquid or Vapor
Dial Size	2" (50.8 mm)
Gauge Accuracy	1.6% full-scale Grade A (50.8 mm)
Process Connection	¼" NPT
Proof Pressure	0 to 160 psi = 150% of full scale
Burst Pressure	0 to 160 psi = 10x burst
Window	Polycarbonate or Safety Glass
Case	304 Series Stainless Steel
Socket and Tube	316 Series Stainless Steel
Gauge Movement	Suppressed Stop Movement for True Electrical Zero Reading

* 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.

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.

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