

PRESSURE SCOUT

Intrinsically Safe Wireless Pressure Sensor

PRESSURE ALARM REPORTING

CLASS 1 DIVISION 1 CERTIFIED

EASY TO INSTALL

LOW COST ALTERNATIVE

HIGH PERFORMANCE & LONG BATTERY LIFE

WIRELESS CONFIGURATION



FEATURES

- Powers integrated pressure sensor and radio for years with an internal battery
- Class 1 Division 1 Intrinsically safe system
- Rugged design for outdoor environments
- Up to ½ mile range
- ½" NPT Process connection standard
- Rapid pressure sampling with configurable alarms and report by exception
- Extremely low power and long battery life
- Compact and simple to install and maintain
- Available in standard pressure ranges
- Pushbutton or remote zeroing

PRESSURE SENSOR

PERFORMANCE AT 77°F/25°C

Accuracy: $\pm 0.25\%$ BFSL

Stability (1 year): $\pm 0.25\%$ FS, typical

Over Range Protection: 2X Rated Pressure, Minimum

Burst Pressure: 5X or 40,000 PSI (whichever is less)

Pressure Cycles: >100 Million

Process Connection: 1/2" NPTM 316L Stainless Steel Standard

F250C Autoclave for pressure >10,000 psi

Other process connections/material available

Standard Pressure Ranges: 0-50 psi, 0-100 psi, 0-300 psi, 0-500 psi, 0-1000 psi, 0-3000 psi, 0-5000 psi, 0-7500 psi, 0-10,000 psi, 0-15,000 psi, 20,000 psi

Low Pressure Ranges: 0-1 psi, 0-2 psi, 0-5 psi, 0-7.5 psi 0-10 psi, 0-15 psi, 0-20 psi

THERMAL LIMITS

Operating Range: -40 to +176°F (-40 to +80°C)

Compensated Range: 32 to +131°F (0 to 55°C)

TC Zero: $\pm 1.5\%$ of FS

TC Span: $\pm 1.5\%$ of FS

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TECHNICAL SPECIFICATIONS

Operating Temp: -40 to +176°F (-40°C to 80°C)

Humidity: 0% – 100% condensing

Power: “D” Cell Lithium battery pack. Field replaceable. Class 1 Division 1 certified when used with SignalFire system. Optional Class1 Division 1 solar/battery module.

Battery Life: 1–10+ years depending on reporting frequency *Battery Life Example: 5-second pressure sample interval with a 1-minute reporting interval = 6.5 years.*

Data Interface: Wireless – available as Modbus registers at Gateway

Report by Exception: Configurable alarm pressure thresholds, pressure sample rate 5 seconds minimum.

Data Update Rates: User-selectable. 5 seconds to 1 hour, typical.

Radio Power: 40 mW

Receive Sensitivity: -109 dB

Radio Frequency: 902–928 MHz, FHSS, license-free ISM Band Compliant with FCC Part 15

Range: Up to 1/2 mile

Networks: Up to 65,520 separate networks

Intrinsically Safe: Class 1 Division 1, Temp Code T3, Groups C&D. Conforms to UL Std. 913, Certified to Can/CSA Std C22.2 No. 157

Internal Diagnostics: Battery voltage, signal strength, error conditions

