



**780.897.5869**  
BURKECALIBRATION.COM

# **SignalFire Wireless Pressure Sensor Datasheet**

Questions? Call us at 780-897-5869 or email [info@burkecalibration.com](mailto:info@burkecalibration.com)

# 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:** ±0.25% BFSL

**Stability (1 year):** ±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:** 0-100 psi, 0-500 psi, 0-1000 psi, 0-3000 psi,  
0-5000 psi, 0-10,000 psi, 0-15,000 psi, 20,000 psi

**Low Pressure Ranges:** 0-2 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:** ±1.5% of FS

**TC Span:** ±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.

**Battery Life:** 1 -10+ years depending on reporting frequency. *Battery Life Examples:* 5-second pressure sample interval with a 1-minute reporting interval = 5 years. 2-minute sample and reporting interval = 10+ years

**Data Interface:** Wireless – available as Modbus registers at Gateway

**Transmit Data by Exception:** Configurable minimum and maximum alarm pressure thresholds, pressure sample rate 5 seconds minimum.

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

**Range:** Up to 1/2 mile

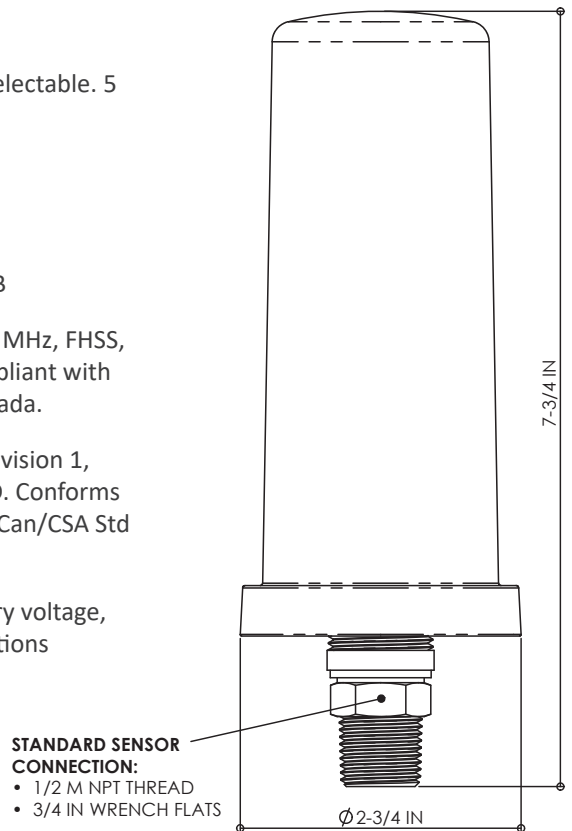
**Radio Power:** 40 mW

**Receive Sensitivity:** -109 dB

**Radio Frequency:** 902–928 MHz, FHSS, license-free ISM Band Compliant with FCC Part 15 in Industry Canada.

**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



## HOW TO ORDER

