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
≤ ± 0.5% BFSL (>10,000 PSI)
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

THERMAL LIMITS
Operating Range: -40 to +176°F (-40 to +80°C)
Compensated Range: 5°F to 150°F (-15°C to +65°C)
TC Zero: <±1% of FS
TC Span: <±1% of FS

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

www.signal-fire.com | 140 Locke Drive, Suite B, Marlborough, MA 01752 USA | 978.212.2868
TECHNICAL SPECIFICATIONS

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

Humidity: 0% – 100% condensing


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


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

Order Code Example: SCOUT–PSI15000–1BIS–AC174

Pressure Range
Select from: 2, 20, 100, 500, 1000, 3000, 10000, 15000, 120000

Battery Type
IBIS = “D” Cell Lithium battery pack (Class 1, Div. 1)

End Connection
1/2NPT–316 = 1/2” NPT male connection with 316 SS diaphragm (up to 10,000 psi)
1/2NPT–174 = 1/2” NPT male connection with 17–4PH diaphragm
AC–174 = F250C Female Autoclave with 17–4 PH diaphragm (for 15,000 psi and up)