SENSE IT
TECHNOLOGIES
MONITORING AND CONTROL SOLUTIONS



LoRaWAN Pressure Sensor, Gauge Pressure, 0 - 16 Bar

SKU: SI-LRW-PRS-016

Monitor the pressure of water, air and other compatible fluids in pipelines with a rugged industrial pressure sensor. Designed for long-term operation in demanding environments, it provides accurate pressure measurements to help detect leaks, pressure loss, blockages and abnormal operating conditions before they become costly failures.

OVERVIEW

The Sense It Pipe Pressure Sensor provides continuous monitoring of pressure in liquid and gas pipeline systems, enabling organisations to detect abnormal operating conditions before they result in equipment damage, process interruptions or costly downtime. Designed for industrial applications, it delivers highly accurate pressure measurements while operating reliably in harsh environments.

Suitable for municipal water networks, irrigation systems, pump stations, water treatment plants, industrial process lines, compressed air systems and utility infrastructure, the sensor provides continuous visibility of pipeline pressure across distributed sites. It can be used to monitor normal operating pressure, identify leaks, detect pump failures, recognise blocked filters or pipelines and verify system performance.

The stainless steel pressure probe is designed to withstand vibration, shock and corrosive environments, making it suitable for long-term deployment in demanding industrial installations. Its high measurement accuracy allows even small pressure changes to be identified, enabling maintenance teams to respond before issues escalate into major failures.

When connected to the Sense It monitoring platform, users can remotely monitor live pressure values, analyse historical trends, configure alarm thresholds and receive immediate notifications when pressure moves outside acceptable limits. Historical data supports preventative maintenance, system optimisation and compliance reporting while reducing the need for manual inspections.

The sensor's battery-powered design simplifies installation where mains power is unavailable, making it well suited to remote pumping stations, agricultural infrastructure and widely distributed pipeline networks. Its robust construction, long battery life and low maintenance requirements provide an economical solution for continuous pressure monitoring.

KEY FEATURES

- Monitors liquid and gas pipeline pressure
- Suitable for industrial pipe networks
- Detects pressure loss and abnormal conditions
- Helps identify leaks and blockages
- High measurement accuracy
- Long-term measurement stability
- Shock resistant construction
- Vibration resistant design
- Corrosion-resistant stainless steel sensor
- Suitable for harsh outdoor environments

- Long battery life
- Local data storage
- Supports alarm notifications
- Historical pressure trending
- Low maintenance operation
- Suitable for remote installations
- Supports preventative maintenance
- Simple installation on existing pipework
- Remote monitoring through the Sense It platform
- Industrial-grade construction

TECHNICAL SPECIFICATIONS

General

- Measurement type: Vented gauge pressure
- Pressure range: 0 to 1600 kPa (16 bar)
- Process connection: G 1/2" male

Performance

- Accuracy: ±0.5% full scale
- Resolution: 1 kPa (0.01 bar)
- Overload capacity: 150% full scale
- Long-term stability: ±0.3% full scale per year

Environmental

- Sensor operating temperature: -10 °C to +70 °C
- Transceiver operating temperature: -30 °C to +70 °C
- Operating humidity: 0–100% RH non-condensing
- Transceiver protection rating: IP67
- Pressure sensor protection rating: IP65

Power

- Replaceable 19000 mAh lithium battery
- Typical battery life: Up to 10 years

Physical

- Pressure sensor material: 316L stainless steel
- Cable length: 1.5 m
- Transceiver housing: ABS and polycarbonate

Installation

- Pole wall or DIN rail mounting
- Suitable for indoor and outdoor installations
- Designed for industrial pipeline monitoring

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