



**WLRC-PPS-L**

## Wireless Pipe Pressure Sensor

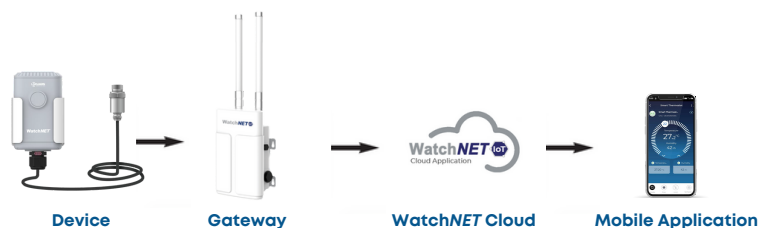
The Wireless Pipe Pressure Sensor (WLRC-PPS-L) by WatchNET IoT is crafted for robust pipe pressure measurements in challenging environments, utilizing cutting-edge LoRaWAN® technology for seamless data transmission. With its low power consumption, this sensor boasts an impressive operational span of up to 10 years on a 19000 mAh battery. When paired with the WatchNET IoT Gateway and integrated into the WatchNET IoT Cloud solution, users gain remote and visual management capabilities for comprehensive sensor data. The WLRC-PPS-L finds extensive application in diverse scenarios such as smart buildings, pipeline monitoring, tank systems supervision, and more.

## KEY FEATURES

- Attain exceptional precision and corrosion resistance
- Enable ultra-wide-distance transmission, extending up to a line of sight of 10km
- Ensure resilience in rugged environments with an IP67 waterproof enclosure
- Experience extended, maintenance-free operation with a built-in 19000 mAh replaceable battery, offering a decade of service
- Simplify configuration with the convenience of NFC technology
- Adhere to industry standards with compliance to LoRaWAN® gateways and network servers
- Streamline management effortlessly through the intuitive Milesight IoT Cloud solution

## APPLICATION

- Monitoring of pipes and tank pressure
- Oil & Gas monitoring
- Water leak detection
- Pump monitoring



## Wireless Transmission

Technology	LoRaWAN®
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Tx Power	16dBm(868)/20dBm(915)/19dBm(470)
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class A

## Measurement

Pressure Type	Gauge Pressure
Range	0 - 1600 kPa (16 Bar)
Accuracy	± 0.5% FS
Resolution	1 kPa (0.01 Bar)
Overload	150% FS
Long-term Stability	± 0.3% FS/year
Process Connection	G 1/2" Male

## Operation

Power On & Off	NFC, Power Button (Internal)
Configuration	Mobile App (via NFC) or PC software(via USB Type-C)

## Physical Characteristics

Cable Length	1.5 m
Power Supply	19000 mAh Li-SOCL2 battery (ER34615)
Battery Life*	10 years (10 min interval)
Operating Temperature	-30°C to +70°C (Transceiver)/-10°C to +70°C (Pipe Pressure Sensor)
Relative Humidity	0% to 100% (non-condensing)
Ingress Protection	IP67(Transceiver)/IP65(Pipe Pressure Sensor)
Dimension	Transceiver: 105.4 × 71 × 69.5 mm (4.1 × 2.8 × 2.7 in) Pipe Sensor: 67.5 × φ27 mm (2.7 × φ1.1 in)
Installation	Pole, wall or DIN Rail Mounting
Approvals	
Regulatory	CE, FCC, RoHS

\* Tested under laboratory conditions and for guideline purposes only.

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\*All product specifications on this brochure are subject to change without notice.

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