

LoRaWAN Process Pressure Sensor



Smart Agriculture, Smart Building, Smart City, Smart Energy, Smart Facility, Smart Factory, Smart Farm, Smart Retail, Smart Utilities

SKU: WSLRW-PPS

LoRaWAN PROCESS PRESSURE SENSOR WSLRW-PPS



WSLRW-PPS-H1.PNG



WSLRW-PPS is the LoRaWAN Integrated Process Pressure Sensor, and it has different kinds of measurements, such as Gage/Absolute/Sealed Gage, range -1~1000 bar, high accuracy, and stability. With Ultra-low-power design and smart firmware allow the sensor can last up to 10 years with 2 x AA batteries (depends on configuration). The sensor will transmit data in the kilo-meters distance to LoRaWAN gateway, any brand on the market.

Applications

Water Pressure Pipeline Monitor, Process Monitoring, Smart Irrigation, Fuel Monitoring, Level Monitoring, Safety Monitoring

Notes For Applications

- Sensor Materials Compatibility: Choose materials that won't react with the substances or degrade in corrosive media.
- Environmental Conditions: Consider the system environment (pipes, vibrations, temperature, etc.).
- Pressure Range: Choose sensors that function well within the process range.
- Precision and Sensitivity: Determine the required level of precision and sensitivity.

✓ LoRaWAN communication

LoRaWAN communication standard to allow sensor connect to any LoRaWAN Gateway on the market.

✓ 10-Year battery

Ultra-low power sensing technology from Daviteq with Ultra-low power wireless technology allow the sensor can last up to 10 years with a 2 x AA Type battery.

✓ High Accuracy & Stable

Advanced Piezo technology to deliver high accuracy and stable measurement

✓ IP68

For both indoor and outdoor applications

PRESSURE SENSOR INSTALLED ON THE WATER PIPE



WSLRW-PPS-H2.PNG

DAVITEQ TECHNOLOGIES INC

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Specification

Sensor	Advanced Piezo technology
Measurement range	Select from -1~1000 bar Gage/ Absolute/ Sealed Gage
Over pressure protection	1.5 x span
Accuracy & Stability	0.25% or 0.5% of span, < 0.2% span/ year
Wetted parts	304SS/316SS
Measuring Fluids	Any fluid which is workable with materials 304SS/316SS
Working temperature	-20~80°C
Compensation temperature	-10~50°C
Process connection	Standard G 1/4 or Others (consult factory)
COMMUNICATION	
SF Factors	SF7~SF12
Antenna	Internal Antenna 2.0 dbi
Battery	02 x AA size 1.5VDC, battery not included
RF Frequency and Power	860~930MHz, 14~20dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
Protocol	LoRaWAN, class A
Data sending modes	Interval time and when alarm occurred
Configuration	via Downlink messages or Off-line tool (Software is free)
RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
Working temperature	-40~60°C (with AA L91 Energizer®)
Dimensions	H180xW50xD40
Net-weight	250g
Housing	Polycarbonate & POM plastic, IP68

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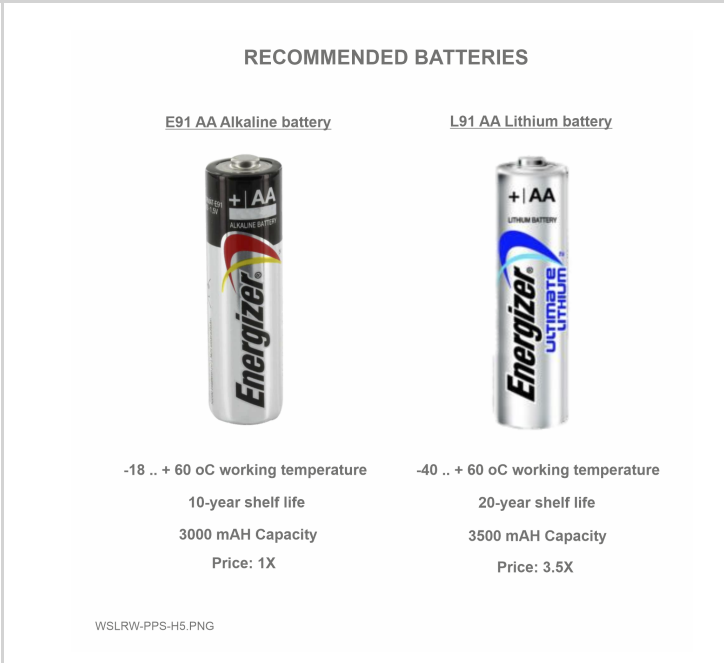
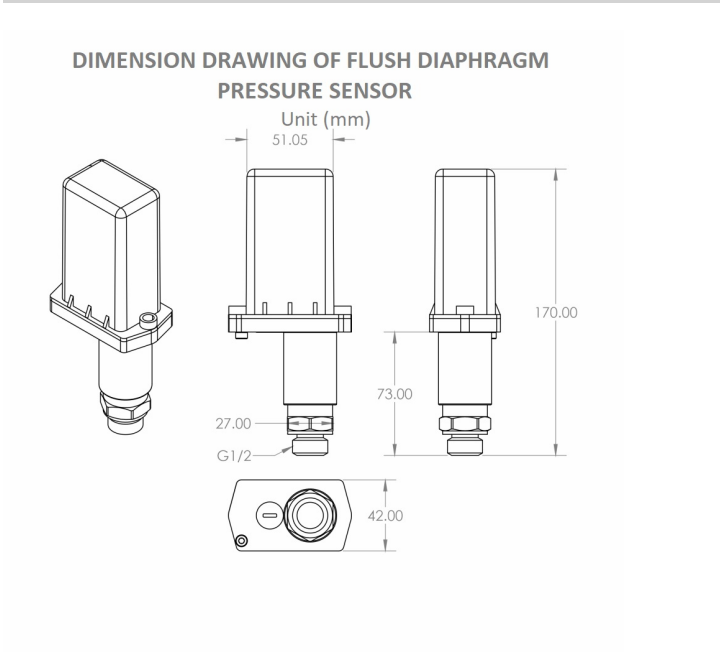
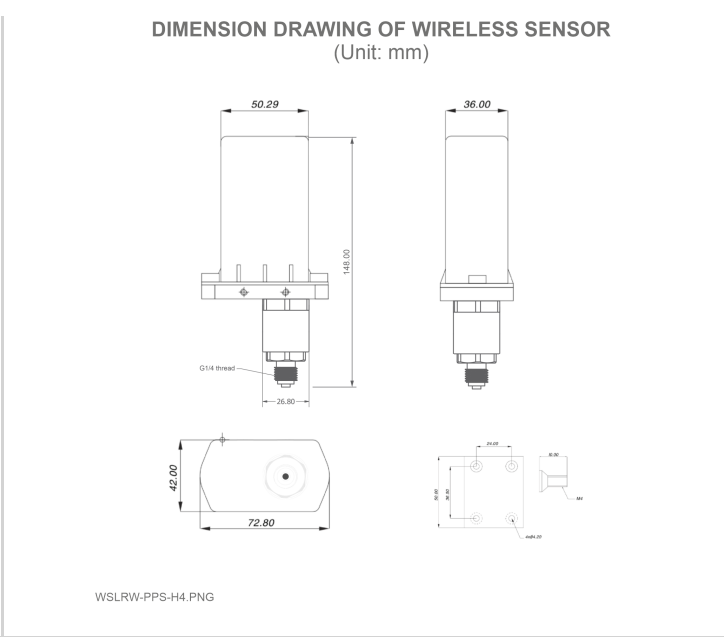
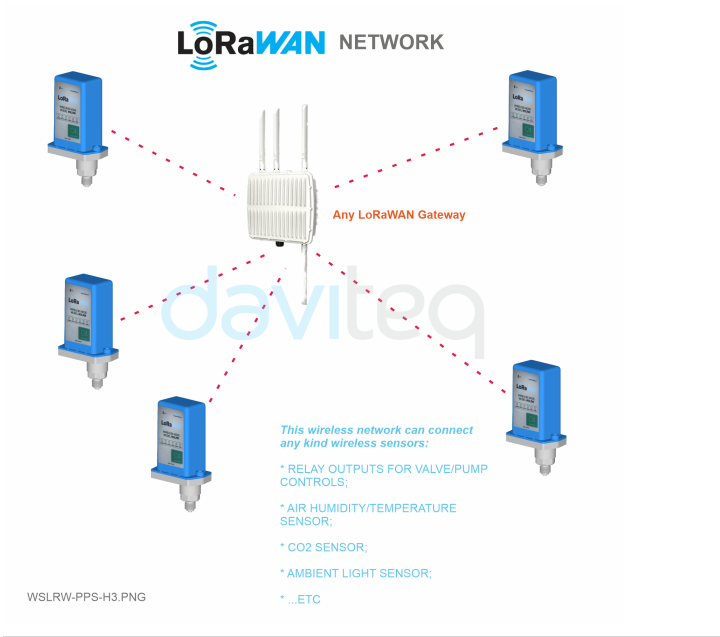
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Ordering Information

ITEM CODE	DESCRIPTIONS
WSLRW-PPS-G10-02	LoRaWAN Process Pressure Sensor, 0-10 barg, 304SS/316L, G 1/4"
WSLRW-PPS-G20-02	LoRaWAN Process Pressure Sensor, 0-20 barg, 304SS/316L, G 1/4"
WSLRW-PPS-G40-03	LoRaWAN Process Pressure Sensor, 0-40 barg, 304SS/316L, 1/4" NPT
WSLRW-PPS-G70-03	LoRaWAN Process Pressure Sensor, 0-70 barg, 304SS/316L, 1/4" NPT
WSLRW-PPS-G100-04	LoRaWAN Process Pressure Sensor, 0-100 barg, 304SS/316L, 1/2" NPT
WSLRW-PPS-G250-04	LoRaWAN Process Pressure Sensor, 0-250 barg, 304SS/316L, 1/2" NPT
WSLRW-PPS-G400-04	LoRaWAN Process Pressure Sensor, 0-400 barg, 304SS/316L, 1/2" NPT
WSLRW-PPS-G700-04	LoRaWAN Process Pressure Sensor, 0-700 barg, 304SS/316L, 1/2" NPT
WSLRW-PPS-G1000-04	LoRaWAN Process Pressure Sensor, 0-1000 barg, 304SS/316L, 1/2" NPT

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