

LORAWAN PROCESS PRESSURE SENSOR



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.



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

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SEP-2022 | Doc No: WSLRW-PPS-DS-EN-10

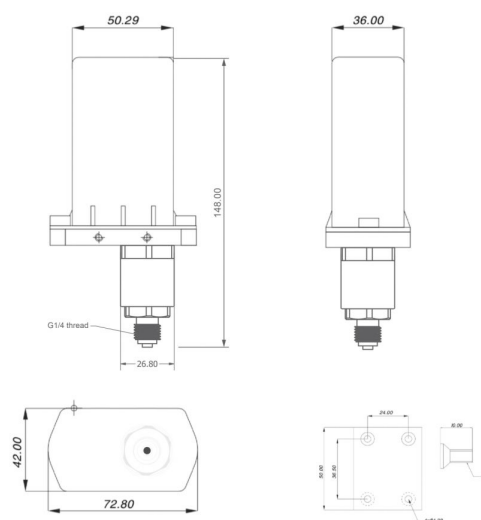
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SPECIFICATION

SENSORS 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 oC
Compensation temperature	-10 .. + 50 oC
Process connection	Standard G1/4 or Others (consult factory)
LoRaWAN SPECIFICATION:	
Data rate	250bps .. 5470bps
Antenna	Internal Antenna 2.67 dBi
Battery	02 x AA size 1.5VDC, battery not included
RF Frequency and Power	860..930Mhz, +14 .. +20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
Protocol	LoRaWAN, class A
Data sending modes	Interval time and when alarm occurred
RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
Working temperature	-40oC..+60oC (with AA L91 Energizer)
Dimensions	H180xW50xD40
Net-weight	250 grams
Housing	Polycarbonate & POM plastic, IP68



DIMENSION DRAWING OF WIRELESS SENSOR
(Unit: mm)



RECOMMENDED BATTERIES

E91 AA Alkaline battery



-18 .. + 60 oC working temperature

10-year shelf life

3000 mAh Capacity

Price: 1X

L91 AA Lithium battery



-40 .. + 60 oC working temperature

20-year shelf life

3500 mAh Capacity

Price: 3.5X

WSLRW-PPS-H5.PNG

ORDERING INFORMATION

ITEM CODE	DESCRIPTIONS
WSLRW-PPS-G10-02	LoRaWAN Process Pressure Sensor, 0-10 barg, 304SS/316L, G1/4"
WSLRW-PPS-G20-02	LoRaWAN Process Pressure Sensor, 0-20 barg, 304SS/316L, G1/4"
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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