

WIRELESS INTEGRATED PROCESS PRESSURE SENSOR



SKU: WS433-PPS

WIRELESS INTEGRATED PROCESS PRESSURE SENSOR WS433-PPS

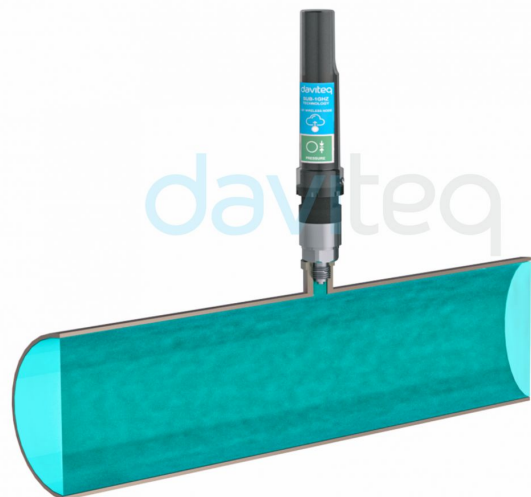


WS433-PPS-H1.PNG

Wireless Integrated Process Pressure Sensor is a combination of wireless sensor transmitter WS433-M12F and sensor PPS, it has different kind of measurement, such as Gage/Absolute/Differential, range -1 .. + 700 bar, high accuracy and stability, Ultra-low power consumption. The wireless portion is Sub-GHz technology from Texas Instruments allows long range transmission at ultra-low power consumption. It will connect 2-way wirelessly to the wireless co-ordinator WS433-CL to send data and receiving the configuration. It can be configured the operation parameters like data sending interval, health check cycle...remotely from Globiots platform or via ModbusRTU software (thru the WS433-CL). Its default data rate is 50 kbps, can be switched to 625 bps to increase the communication range. It can last up to 10 years with a single AA battery. There are a lot of applications in factory, facility, building, water pipeline, air compressed, machine monitoring...

- ✓ **RELIABLE & SECURED WIRELESS CONNECTION**
Sub-GHz technology from Texas Instruments allows reliable wireless connection and secured data by AES-128
- ✓ **10-YEAR WITH A SINGLE BATTERY**
Ultra-low power sensing technology from Daviteq with Ultra-low power wireless technology from Texas Instruments allow the sensor can last up to 10 years with a single battery AA.
- ✓ **HIGH ACCURACY**
0.5% of Span
- ✓ **WIDE MEASUREMENT RANGE**
Select from -1 .. + 700 bar

PRESSURE SENSOR INSTALLED ON THE WATER PIPE



WS433-PPS-H2.PNG

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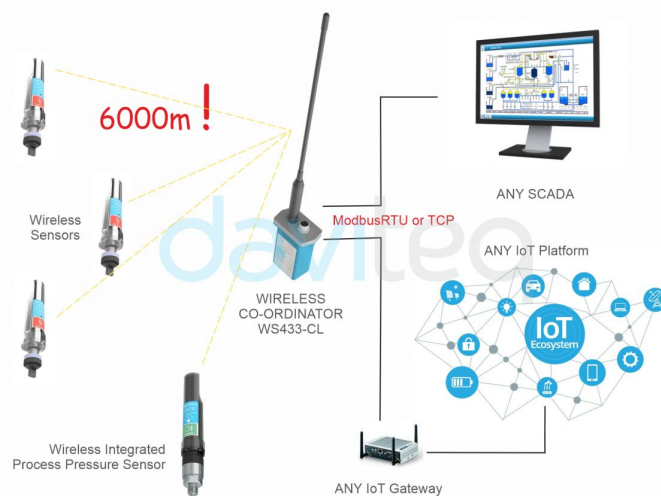
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SPECIFICATION

SENSOR SPECIFICATION:	
Sensing Technology	Advanced PIEZO/Capacitance technology
Measuring range	Select from -1 .. + 700 bar Gage/Absolute/Sealed Gage
Over pressure protection	1.5 x Span
Accuracy & Stability	0.5% of span, < 0.3% span/year
Measuring Fluids	Any fluid which is workable with wetted materials 304SS/316SS
Working temperature	-10 .. + 80 oC
Process connection	Standard G1/4 or Others (consult factory)
WIRELESS TRANSMITTER SPECIFICATION:	
Data speed	Up to 50kbps
Transmission distance, LOS	1000m
Antenna	Internal Antenna
Battery	01 x AA 1.5-3.6VDC, up to 10-year operation, depends on configuration
Frequency Band	ISM 433Mhz, Sub-GHz technology from Texas Instrument, USA
International Compliance	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
Vietnam Type Approval Certification	QCVN 73:2013/BTTTT, QCVN 96:2015/BTTTT (DAVITEQ B00122019)
Security Standard	AES-128
Operating temperature of PCB	-40oC..+60oC (with AA L91 Energizer)
Housing	Poly-carbonate, IP67
Installation method	Direct mount on process piping
Product dimensions & weight	160x30x30mm, < 250g (without battery)
Box dimension & gross weight	190x50x50mm, < 300g

CONNECT WIRELESS SENSORS TO
any PLC or HMI

WS433-PPS-H3.PNG

CONNECT WIRELESS SENSORS TO
any SCADA or IoT Platform

WS433-PPS-H4.PNG

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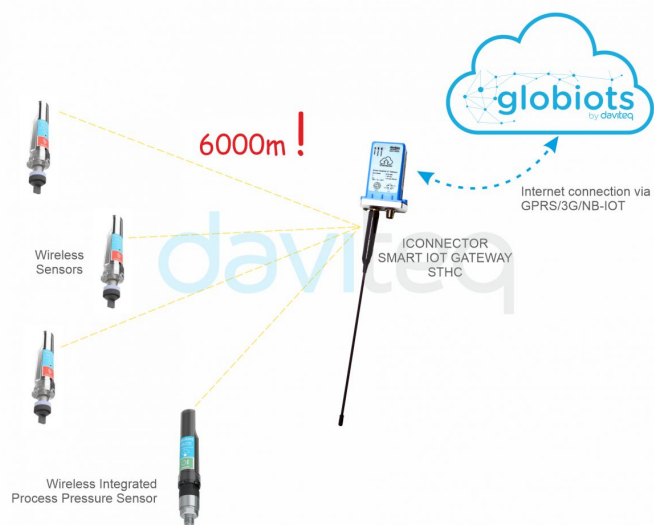
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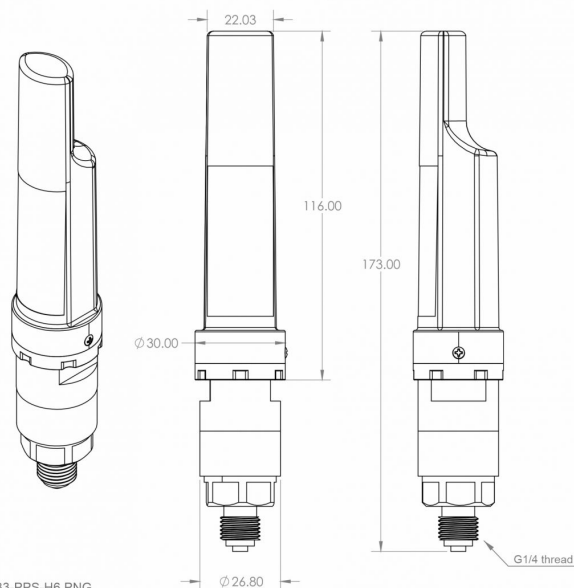
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CONNECT WIRELESS SENSORS TO GLOBIOTS Platform



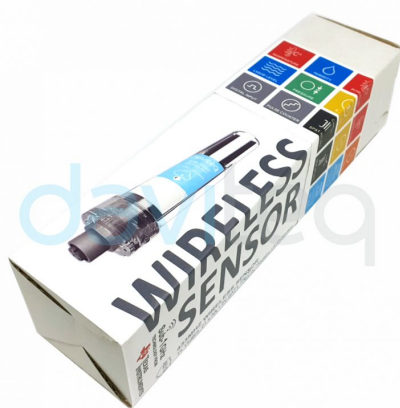
WS433-PPS-H5.PNG

DIMENSION DRAWING OF WIRELESS SENSOR (Unit: mm)



WS433-PPS-H6.PNG

CARTON BOX OF WIRELESS SENSOR



SIZE: 50x50X190MM

WS433-PPS-H7.PNG

RECOMMENDED BATTERIES FOR WIRELESS SENSOR WS433

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

WS433-PPS-H8.PNG

ORDERING INFORMATION

ITEM CODE	DESCRIPTIONS
WS433-PPS-G-10	Wireless Integrated Process Pressure Sensor 433MHz, 0-10 BARG, -10°C to +80°C process, G1/4"-Male port, 316/304SS, type AA 1.5-3.6VDC battery, IP67
WS433-PPS-G-20	Wireless Integrated Process Pressure Sensor 433MHz, 0-20 BARG, -10°C to +80°C process, G1/4"-Male port, 316/304SS, type AA 1.5-3.6VDC battery, IP67