## Sub-GHz Ex d Process Pressure Sensor

# daviteq

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

#### SKU: WS433EX-PPS

#### Ex D APPROVED WIRELESS PROCESS PRESSURE SENSOR WS433EX-PPS



WS433EX-PPS-H1.JPG

#### Wireless Sub-GHz Technology

Reliable, long distance and ultra-low-power wireless technology

#### 📿 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 single battery C  $\,$ 

#### High Accuracy & Stable

Advanced Piezo technology to deliver high accuracy and stable measurement

Ex d Designs

Ex d approval for installation in Zone 1, Zone 2 or Safe Zone



Hazardous Zones

WS433EX-PPS is the Sub-GHz Integrated Process Pressure Sensor with Ex d approval for installation in Zone 1, Zone 2, or Safe Zone. It has different measurements, such as Gage/ Absolute/ Sealed Gage, range  $-1 \sim 1000$  bar, high accuracy, and stability. With an Ultra-low-power design and smart firmware, the sensor can last up to 10 years with a single C battery (depends on configuration). The sensor will connect to a Wireless Coordinator WS433-CL or iConnector with the built-in wireless coordinator.

Typical applications are pressure monitoring of oil pipelines, gas pipelines, LPG tanks, CNG tanks, etc.

#### Applications

Oil & Gas Pipeline Monitor, Process 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.

#### PRESSURE SENSOR INSTALLED ON THE GAS PIPE



WS433EX-PPS-H2.JPG

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Created date: Dec-21-2022



## Specification

Sensor	Advanced Piezo technology
Measurement range	Select from -1 $\sim$ 1000 bar Gage/ Absolute/ Sealed Gage (Over pressure protection: 1.5 x Span)
Accuracy & Stability	0.5% of span, < 0.3% span/year
Wetted parts & Measuring Fluids	304SS/316SS, Any fluid which is workable with materials 304SS/316SS
Process Working temperature	-40~105℃
Process connection	1/2" NPT-male as standard, others please consult factory
Connectivity	Sub-GHz, ISM free license 433MHz band
Antenna	N-male type external Antenna
Battery	01 x C Type LiSOCI <sub>2</sub> , working time up to 10 years (depends on configuration). The battery is not included.
ATEX Certificates	IMQ 14 ATEX 005 X, TÜV CY 18 ATEX 0206158 X and IECEx DEK 15.0048X
Marking	ATEX II 2G Ex db IIC T5/T6 Gb and ATEX II 2D Ex tb IIIC T100/T85°C Db
Directive	ATEX 2014/34/EU
Standards	IEC-EN60079-0 IEC-EN60079-1 IEC-EN60079-31
Applicable zones	Zone 1 - 21 (gas) and Zone 2 - 22 (dust)
Ambient working temperature	-40∼85°C
Housing	Cast aluminium, powder coated, IP66, wall mounting
Product dimensions	H100xW100xD306 (included antenna)
Net weight	1.5kg
Packaging dimension	W150 x D150 x H250 mm
Gross weight	< 1.6kg

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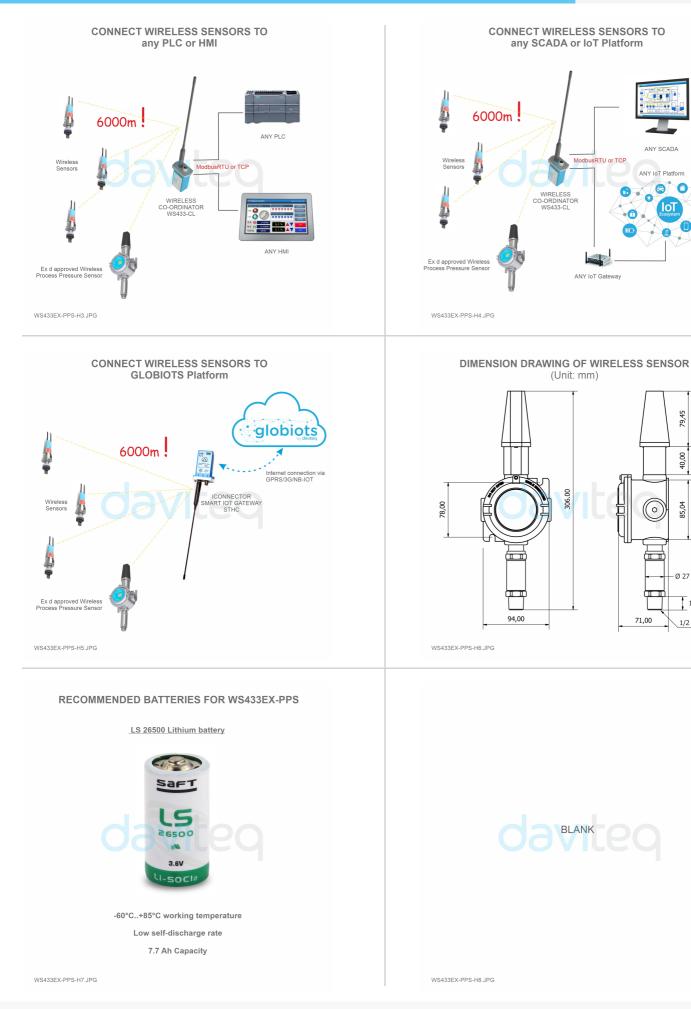
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### **Ordering Information**

ITEM CODE	DESCRIPTIONS
WS433EX-PPS-G10-01	Process Pressure Sensor with Sub-GHz 433MHz, Ex d, IP66, 0-10 barg, 316SS 1/2"NPT
WS433EX-PPS-G10-02	Process Pressure Sensor with Sub-GHz 433MHz, Ex d, IP66, 0-10 barg, 316SS 1/4"NPT
Notes	Select other pressure ranges: 1, 1.6, 2.5, 4, 6, 10, 16, 25, 40, 60, 100, 160, 250, 400, 600, 1000 BARG.

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