

# EX D APPROVED SUB-GHZ PROCESS PRESSURE SENSOR



SKU: WS433EX-PPS

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



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WS433EX-PPS is the Sub-GHz Integrated Process Pressure Sensor with Exd approval for installation in Zone 1, Zone 2, or Safe Zone. It has different measurements, such as Gage/Absolute/Sealed Gage, range -1 .. + 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.



### 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



### EXD DESIGNS

Exd approval for installation in Zone 1, Zone 2 or Safe Zone

## PRESSURE SENSOR INSTALLED ON THE GAS PIPE



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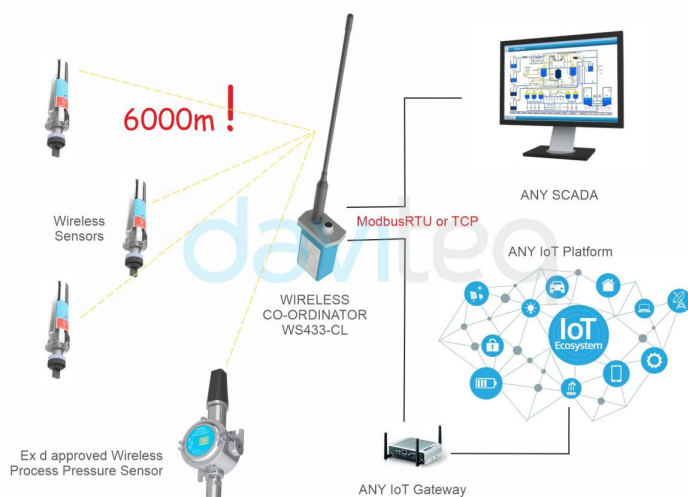
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## SPECIFICATION

Sensor	Advanced PIEZO technology
Measurement range	Select from -1 .. + 1000 bar Gage/Absolute/Sealed Gage (Over pressure protection: 1.5 x Span)
Accuracy & Stability	0.5% 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 oC
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 LiSOCI2, 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	-40oC..+85oC
Housing	Cast aluminium, powder coated, IP66, wall mounting
Product dimensions	H100xW100xD306 (included antenna)
Net weight	1.5 kgs
Packaging dimension	W150 x D150 x H250 mm
Gross weight	< 1.6 kgs

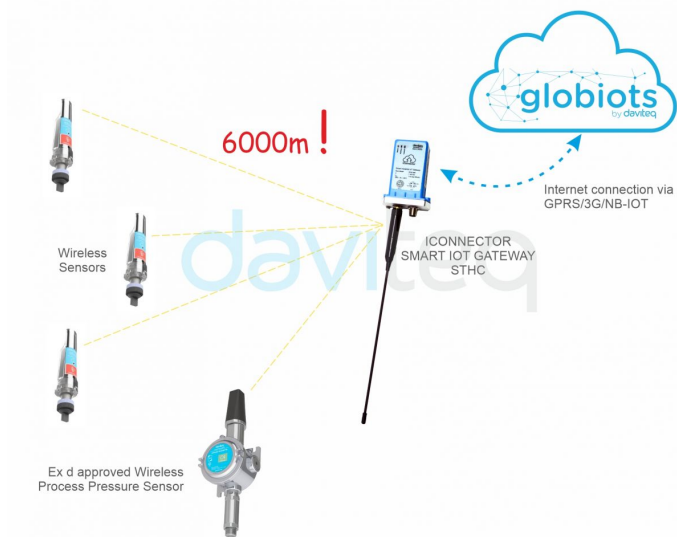
CONNECT WIRELESS SENSORS TO  
any PLC or HMI

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CONNECT WIRELESS SENSORS TO  
any SCADA or IoT Platform

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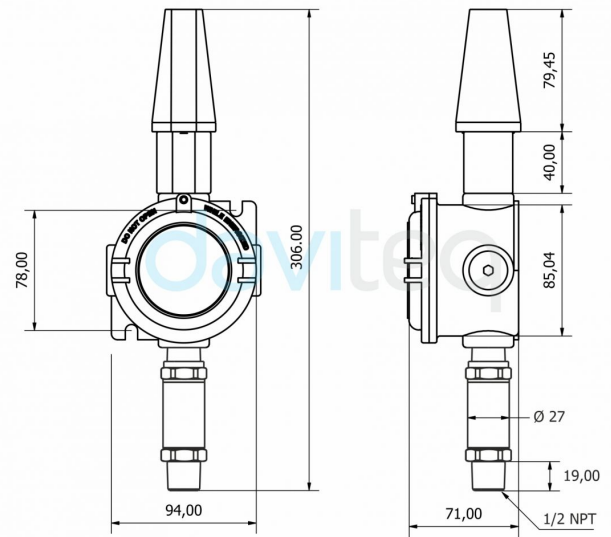
### CONNECT WIRELESS SENSORS TO GLOBIOTS Platform



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### DIMENSION DRAWING OF WIRELESS SENSOR

(Unit: mm)



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### RECOMMENDED BATTERIES FOR WS433EX-PPS

LS 26500 Lithium battery



-60°C..+85°C working temperature

Low self-discharge rate

7.7 Ah Capacity

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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.