

EX D APPROVED NBIOT PROCESS PRESSURE SENSOR



SKU: WSNBEX-PPS

Ex d approved **NB-IoT** Process Pressure Sensor
WSNBEX-PPS-G10



WSNBEX-PPS-G10-H1.JPG



WSNBEX-PPS is the LTE Cat M1 / NB1 Integrated Process Pressure Sensor with Exd approval for installation in Zone 1, Zone 2 or Safe Zone, 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 a single D battery (depends on configuration). It can support all frequency bands in the World.

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



CONNECTED BY LTE CAT M1/NB1

Support Global bands for LTE Cat M1 and NB1



10 YEAR BATTERY

Ultra-low power sensing technology from Daviteq with Ultra-low power wireless technology allows the sensor can last up to 10 years with a single battery D



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



WSNBEX-PPS-G10-H2.JPG

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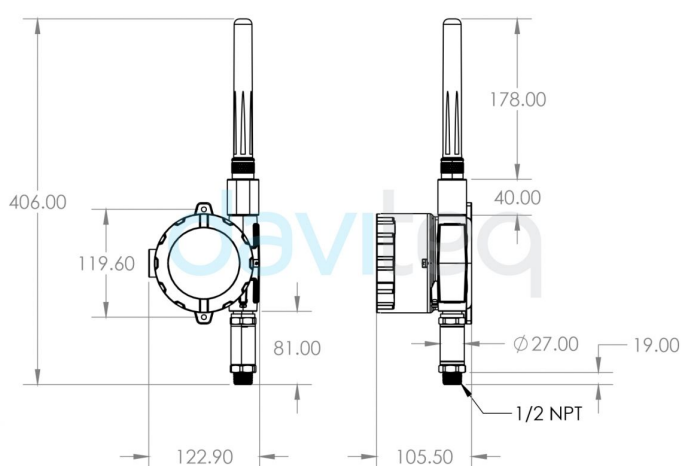
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SPECIFICATION

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	LTE Cat M1 / NB1 for B1, B2, B3, B4, B5, B8, B9, B10, B12, B13, B17, B18, B19, B20, B25, B26, B27, B28, B66 Fall back Quad-band GPRS/GSM 850, 900, 1800, 1900
Antenna	N-male type external Antenna
Battery	1 x D Type LiSOC12, working time up to 10 years (depends on configuration). The battery is not included.
ATEX Certificates	FTZU 03 ATEX 0207U and IECEx DEK 15.0048X
Marking	ATEX II2G Ex db IIC Gb T4 and ATEX II2D Ex tb IIIC Db 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, IP67, wall mounting holes
Product dimensions	W123 x D106 x H406 mm (with antenna)
Net weight	< 2.5 kgs
Packaging dimension	W150 x D150 x H250 mm
Gross weight	< 2.6 kgs

DIMENSION DRAWING OF WSNBEX-PPS
(Unit: mm)



WSNBEX-PPS-G10-H3.JPG

RECOMMENDED BATTERIES FOR WSNBEX-PPS

LS 33600 Lithium battery



-60°C..+85°C working temperature

Low self-discharge rate

17.0 Ah Capacity

WSNBEX-PPS-G10-H4.JPG

ORDERING INFORMATION

ITEM CODE	DESCRIPTIONS
WSNBEX-PPS-G10-01	LTE Cat M1, NB1 Process Pressure Sensor, Ex d, IP66, 0-10 barg, 316SS 1/2"NPT
WSNBEX-PPS-G10-02	LTE Cat M1, NB1 Process Pressure Sensor, 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.