

EX D APPROVED SIGFOX PROCESS PRESSURE SENSOR

SKU: WSSFCEX-PPS

Ex d approved SIGFOX Process Pressure Sensor WSSFCEX-PPS



WSSFCEX-PPS-H1.JPG



WSSFCEX-PPS is the Sigfox 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 .. + 700 bar, high accuracy, and stability. With Ultra-low-power design and smart firmware allow the sensor can last up to 10 years with single C battery (depends on configuration). It can supports all regions of Sigfox network in over the World, RC1, RC2, RC3, RC4, RC5, RC6, RC7. Typical applications are pressure monitoring of oil pipeline, gas pipeline, LPG tank, CNG tank, etc.

- SIGFOX READY**
Device are best operating performance on the SIGFOX network
- 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



WSSFCEX-PPS-H2.JPG

DAVITEQ TECHNOLOGIES INC

No.11 Street 2G, Nam Hung Vuong Res., An Lac Ward, Binh Tan Dist., Ho Chi Minh City, Vietnam

+84.28.6268.2523 / 6268.2524

info@daviteq.com

www.daviteq.com

FEB-2022 | Doc No: WSSFCEX-PPS-DS-EN-11

SPECIFICATION

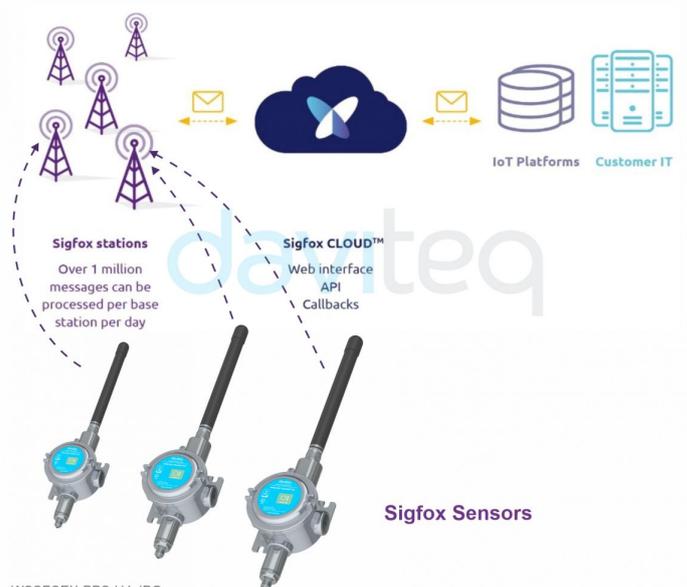
Sensor	Advanced PIEZO technology
Measurement range	Select from -1 .. + 1000 bar Gage/Absolute/Sealed Gage
Over pressure protection	1.5 x Span
Accuracy & Stability	0.5% of span, < 0.3% span/year
Wetted parts & Measuring Fluids	304SS/316SS, Any fluid which is workable with materials 304SS/316SS
Fluid Working temperature	0 .. + 80 oC
Process connection	1/2" NPT-male as standard, others please consult factory
Sigfox zones	select RC2-RC3-RC4-RC5 or RC1-RC6-RC7
Antenna	N-male type external Antenna
Battery	02 x AA Type 1.5VDC as standard, working time up to 10 years (depends on configuration). 02 x Battery AA 3.6V is also available as optional.
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
Mounting	wall mounting holes
Product dimensions	H100xW100xD80 (excluded antenna)
Net weight	1.5 kgs
Packaging dimension	W160 x D150 x H250 mm
Gross weight	< 1.6 kgs

Ex d approved SIGFOX Dual Pressure Sensor



WSSFCEX-PPS-H3.JPG

SYSTEM ARCHITECTURE



WSSFCEX-PPS-H4.JPG

DAVITEQ TECHNOLOGIES INC

No.11 Street 2G, Nam Hung Vuong Res., An Lac Ward, Binh Tan Dist., Ho Chi Minh City, Vietnam

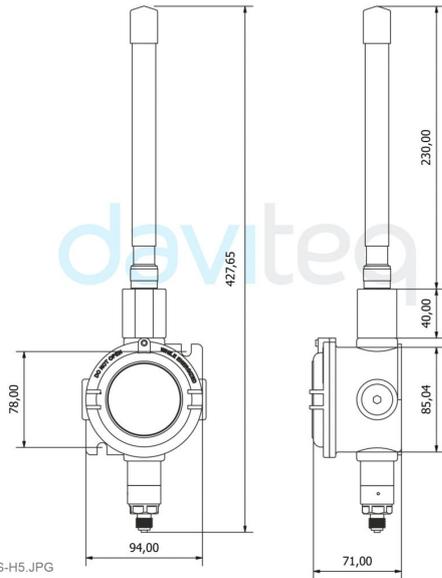
+84.28.6268.2523 / 6268.2524

info@daviteq.com

www.daviteq.com

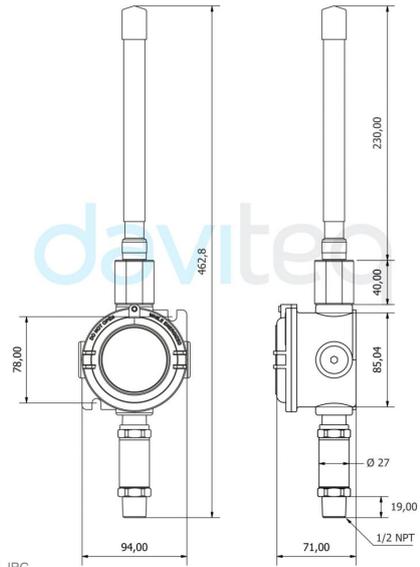
FEB-2022 | Doc No: WSSFCEX-PPS-DS-EN-11

DIMENSION DRAWING OF WSSFCEX-PPS
(Unit: mm)



WSSFCEX-PPS-H5.JPG

DIMENSION DRAWING OF WSSFCEX-PPS-G-1000
(Unit: mm)



WSSFCEX-PPS-H6.JPG

HEAVY DUTY ANTENNAS



WSSFCEX-PPS-H7.JPG

RECOMMENDED BATTERIES FOR SIGFOX SENSOR

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

WSSFCEX-PPS-H8.JPG

ORDERING INFORMATION

ITEM CODE	DESCRIPTIONS
WSSFCEX-PPS-9-10	SIGFOX GAGE PROCESS PRESSURE SENSOR, ATEX EXD APPROVAL ZONE 1/2, RANGE 0-10 BARG, ACCURACY 0.5%, PROCESS CONNECTION 1/2" NPT-MALE, 316SS, TYPE AA BATTERY 1.5VDC, RC2-RC3-RC4-RC5 ZONES
WSSFCEX-PPS-8-10	SIGFOX GAGE PROCESS PRESSURE SENSOR, ATEX EXD APPROVAL ZONE 1/2, RANGE 0-10 BARG, ACCURACY 0.5%, PROCESS CONNECTION 1/2" NPT-MALE, 316SS, TYPE AA BATTERY 1.5VDC, RC1-RC6-RC7 ZONES
WSSFCEX-PPS-9-10-2	SIGFOX DUAL GAGE PROCESS PRESSURE SENSOR, ATEX EXD APPROVAL ZONE 1/2, RANGE 0-10 BARG, ACCURACY 0.5%, PROCESS CONNECTION 1/2" NPT-MALE, 316SS, TYPE C-D BATTERY 3.6VDC, RC2-RC3-RC4-RC5 ZONES
WSSFCEX-PPS-8-10-2	SIGFOX DUAL GAGE PROCESS PRESSURE SENSOR, ATEX EXD APPROVAL ZONE 1/2, RANGE 0-10 BARG, ACCURACY 0.5%, PROCESS CONNECTION 1/2" NPT-MALE, 316SS, TYPE C-D BATTERY 3.6VDC, RC1-RC6-RC7 ZONES
WSSFCEX-PPS-G-1000	SIGFOX GAGE PROCESS PRESSURE SENSOR, ATEX EXD APPROVAL ZONE 1/2, RANGE 0-1000 BARG, ACCURACY 0.5%, PROCESS CONNECTION 1/2"NPT-MALE, 316LSS, TYPE AA BATTERY 1.5VDC, RC1-RC2-RC3-RC4 ZONES
NOTES:	THE GAGE PRESSURE RANGE CAN BE CHANGED TO OTHERS: 1, 1.6, 2.5, 4, 6, 10, 16, 25, 40, 60, 100, 160, 250, 400, 600, 1000 BARG.

DAVITEQ TECHNOLOGIES INC

No.11 Street 2G, Nam Hung Vuong Res., An Lac Ward, Binh Tan Dist., Ho Chi Minh City, Vietnam

+84.28.6268.2523 / 6268.2524

info@daviteq.com

www.daviteq.com

FEB-2022 | Doc No: WSSFCEX-PPS-DS-EN-11