Sigfox Air Differential Pressure Sensor WSSFC-APS-D

SKU: WSSFC-APS-D

Doc No: WSSFC-APS-D-DS-EN-10

Introduction

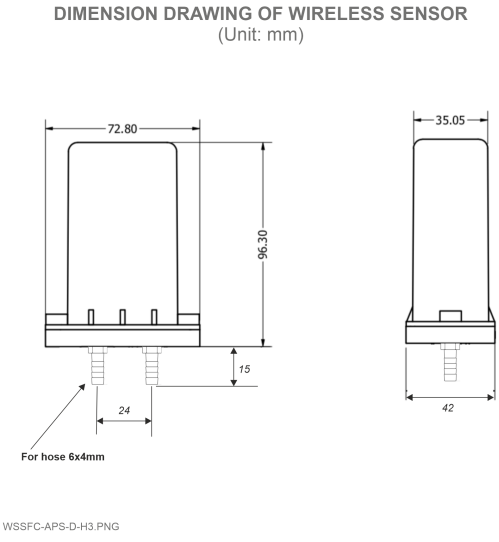
WSSFC-APS-D is a Sigfox Air Differential Pressure Sensor utilizes the advanced Piezo pressure sensor technology from Germany allows high accuracy, stable and ultra-low power consumption. With Ultra-low power design and smart firmware allow the complete Wireless and Sensor package run on 2 x AA battery up to 10 years. It can support all regions of Sigfox network in over the World, RC1, RC2, RC3, RC4, RC5, RC6, RC7.

- German Piezo Technology;
- Sigfox Ready;
- 10-year battery;
- Plug & Play.

Typical Applications

- HVAC - Air Filter Clogging Monitoring;
- Air Compressor - Air Intake Filter Clogging Monitoring;
- Air Flow Monitoring;
- Positive Pressure Clean Room Monitoring;
- Negative Pressure Clean Room Monitoring;
- ...





Specification

SENSOR SPECIFICATION	
Sensing Technology	Advanced CMOS technology from Germany
Measuring range & accuracy	+/-125 Pa, +/- 500 Pa, +/- 1500 Pa 3% reading
Zero accuracy & repeatibility	0.08 Pa, 0.04 Pa
Temperature drift & Offset stability	< 0.5% reading per 10 oC, < 0.05 Pa/year
Measureable Gases	AIR, O2, N2 (No condensation)
Working temperature	-20 .. + 85 oC
Wetted parts	PBT, glass (silicon nitride, silicon oxide), silicon, gold, FR4, silicone as static sealing, epoxy, copper alloy, lead-free solder
Process connection	Barb fittings for gas tube 6x4mm
SIGFOX SPECIFICATION	
Sigfox zones	select RC2-RC3-RC4-RC5 or RC1-RC6-RC7

Antenna	Internal Antenna 2 dbi
Configuration	via offline USB cable (PC software is supplied at free)
Battery	02 x AA Type 1.5VDC, working time up to 10 years (depends on configuration)
RF Module complies to	CE, FCC, ARIB
Working temperature	-40oC..+60oC (using Energizer Lithium Ultimate AA battery)
Dimensions	H106xW73xD42
Net-weight	190 grams
Housing	Aluminum+Polycarbonate, IP67
Mounting	Wall mount bracket

Ordering Code

Item code	**Descriptions**
WSSFC-APS-D-1500-9	SIGFOX AIR DIFFERENTIAL PRESSURE SENSOR, 0-1500 PA, -20 TO +85 OC PROCESS, G1/4"-F PORT WITH BARB FITTING 6X4MM, 304SS, INTERNAL ANTENNA, TYPE AA BATTERY 1.5VDC, IP67, RC2-RC3-RC4-RC5 ZONES
WSSFC-APS-D-1500-8	SIGFOX AIR DIFFERENTIAL PRESSURE SENSOR, 0-1500 PA, -20 TO +85 OC PROCESS, G1/4"-F PORT WITH BARB FITTING 6X4MM, 304SS, INTERNAL ANTENNA, TYPE AA BATTERY 1.5VDC, IP67, RC1-RC6-RC7 ZONES
WSSFC-APS-D-500-9	SIGFOX AIR DIFFERENTIAL PRESSURE SENSOR, 0-500 PA, -20 TO +85 OC PROCESS, G1/4"-F PORT WITH BARB FITTING 6X4MM, 304SS, INTERNAL ANTENNA, TYPE AA BATTERY 1.5VDC, IP67, RC2-RC3-RC4-RC5 ZONES
WSSFC-APS-D-500-8	SIGFOX AIR DIFFERENTIAL PRESSURE SENSOR, 0-500 PA, -20 TO +85 OC PROCESS, G1/4"-F PORT WITH BARB FITTING 6X4MM, 304SS, INTERNAL ANTENNA, TYPE AA BATTERY 1.5VDC, IP67, RC1-RC6-RC7 ZONES
WSSFC-APS-D-125-9	SIGFOX AIR DIFFERENTIAL PRESSURE SENSOR, 0-125 PA, -20 TO +85 OC PROCESS, G1/4"-F PORT WITH BARB FITTING 6X4MM, 304SS, INTERNAL ANTENNA, TYPE AA BATTERY 1.5VDC, IP67, RC2-RC3-RC4-RC5 ZONES
WSSFC-APS-D-125-8	SIGFOX AIR DIFFERENTIAL PRESSURE SENSOR, 0-125 PA, -20 TO +85 OC PROCESS, G1/4"-F PORT WITH BARB FITTING 6X4MM, 304SS, INTERNAL ANTENNA, TYPE AA BATTERY 1.5VDC, IP67, RC1-RC6-RC7 ZONES

⚠ Link for full datasheet:

⚠ Link for manual:

daviteq

Daviteq Technologies Inc

www.daviteq.com | info@daviteq.com

Revision #5
★ Created Thu, Sep 10, 2020 9:01 PM by Lộc Vĩnh Nguyễn
Updated Fri, Sep 11, 2020 2:27 AM by Kiệt Anh Nguyễn