Sigfox-Ready Ex d approved Ambient Humidity and Temperature sensor

SKU: WSSFCEX-ATH



Sigfox Ready

Support RC1-RC2-RC3-RC4-RC5-RC6-RC7.

High performance Sensor High accuracy 1.5%RH and 0.1℃

More than 5 years Battery life

Ultra low power sensor technology allow 5-year battery life with a single battery 3.6V

Plug & Play

The sensor is tested and pre-configured in factory before shipping.

Safe Zone

Hazardous Zones

WSSFCEX-ATH is a Sigfox-ready sensor with Ex d explosion-proof approval, comes with a built-in high-performance ambient humidity and temperature sensor. With Ultra-low-power design and smart firmware allow the complete Wireless and Sensor package to run on a single battery 3.6V for 5 years or more with 15 minutes update. It supports all Sigfox zones like RC1-RC2-RC3-RC4-RC5-RC6-RC7.

Typical applications: Ambient humidity and temperature monitoring for warehouse or area with flammable gases or dust.

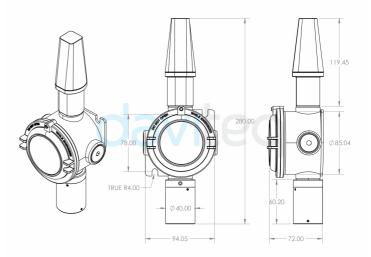
Applications

Automatic Ventilation System, Facility Monitoring, Indoor Air Quality Monitor, Warehouse Monitoring, Temperature Monitoring

Notes For Applications

- · Accuracy: Determine the required accuracy level.
- Operating Temperature Range: Ensure within your application's temperature range.
- Response Time: Select a sensor with an appropriate response time.
- Size and Power Consumption: Opt for small form factors and power consumption for portable or battery powered low applications.
- Environmental Compatibility: Assess compatibility with the operating environment, including exposure to chemicals and contaminants.

DIMENSION DRAWING OF WIRELESS SENSOR (Unit: mm)



WSSFCEX-ATH-H2.JPEG

DAVITEQ TECHNOLOGIES INC

Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH

www.iot.daviteq.com

+84.28.6268.2523 / 6268.2524

🔊 info@daviteg.com

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Specification

Sensor	Digital type, factory calibrated, output both Humidity & Temperature values
Humidity measuring range & accuracy	0~100 %RH, ±1.5% highest
Humidity resolution	0.1%
Temperature measuring range & accuracy	-40~85°C, ±0.1°C highest
Temperature resolution	0.1°C
Sigfox zones	select RC2-RC3-RC4-RC5 or RC1-RC6-RC7
Antenna	N-male type external Antenna
Battery	LiSOCI2 3.6V, working time up to 10 years (depends on configuration)
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 T4 Gb and ATEX II 2D Ex tb IIIC T135°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
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

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WIRELESS GAS SENSOR MOUNTING ON THE CEILING



RECOMMENDED BATTERY

Saft LS33600 D Type 3.6V Li-SOCI2 battery

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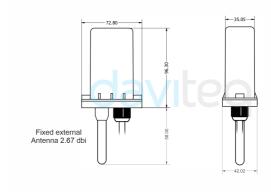
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DIMENSION DRAWINGS FOR SIGFOX SENSOR WITH ANALOG INPUT

DIMENSION DRAWING OF WIRELESS SENSOR

(Unit: mm)



WSSFC-AI-H6.PNG

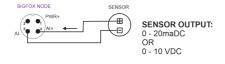
UNIT: mm

RECOMMENDED BATTERIES FOR SIGFOX SENSOR



-60°C/+85°C (-76°F/+185°F) Working Temperature G1.200 mWh Capacity WSFC-G4H-H5.PNG WIRING FOR SIGFOX SENSOR WITH ANALOG INPUT CASE 1 - WORK WITH LOOP POWERED SENSOR SENSOR IS POWERED BY SIGFOX NODE SENSOR IS POWERED BY SIGFOX NODE SENSOR IS POWERED BY SIGFOX NODE SENSOR IS POWERED BY SIGFOX NODE

CASE 2 - WORK WITH NON - LOOP POWERED SENSOR



WSSFC-AI-H7.PNG

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💿 Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH

www.iot.daviteq.com

C +84.28.6268.2523 / 6268.2524

info@daviteq.com

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Ordering Information

ITEM CODES	DESCRIPTIONS
WSSFCEX-ATH-15	SIGFOX-READY AMBIENT HUMIDITY AND TEMPERATURE SENSOR, EX D APPROVAL, ZONE 1/2/21/22, IP66, 3.6V BATTERY, RC1-RC2-RC4 ZONES