

# Sigfox-Ready Ex d Ambient Humidity and Temperature sensor



Smart Facility

SKU: WSSFCEX-ATH

## SIGFOX-READY Ex d AMBIENT HUMIDITY AND TEMPERATURE SENSOR WSSFCEX-ATH



sigfox



WSSFCEX-ATH-H1.JPEG



○ 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 low power consumption for portable or battery powered applications. Environmental Compatibility: Assess compatibility with the operating environment, including exposure to chemicals and contaminants.

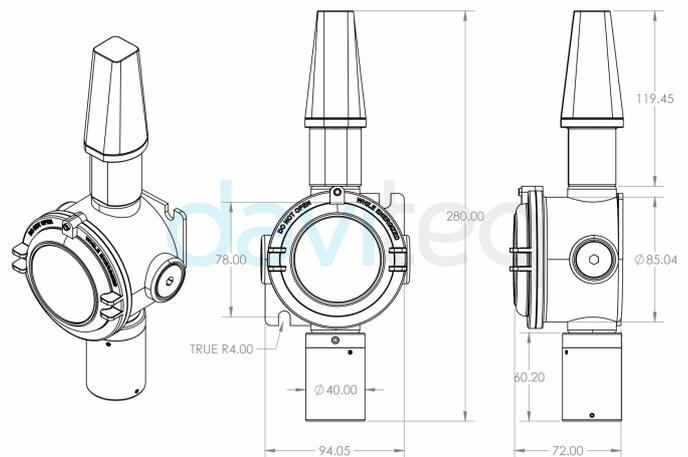
✓ **Sigfox Ready**  
Support RC1-RC2-RC3-RC4-RC5-RC6-RC7.

✓ **High performance Sensor**  
High accuracy 1.5%RH and 0.1°C

✓ **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.

### 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

+84.28.6268.2523 / 6268.2524

info@daviteq.com

www.iot.daviteq.com

Created date: May-27-2024

Updated date: Nov-08-2025

## Specification

Sensor	Digital type, factory calibrated, output both Humidity & Temperature values
Humidity measuring range & accuracy	0~100 %RH, $\pm 1.5\%$ highest
Humidity resolution	0.1%
Temperature measuring range & accuracy	-40~85°C, $\pm 0.1^\circ\text{C}$ highest
Temperature resolution	0.1°C
Sigfox zones	select RC2-RC3-RC4-RC5 or RC1-RC6-RC7
Antenna	N-male type external Antenna
Battery	LiSOCl <sub>2</sub> 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

### DAVITEQ TECHNOLOGIES INC

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

 +84.28.6268.2523 / 6268.2524

 info@daviteq.com

[www.iot.daviteq.com](http://www.iot.daviteq.com)

Created date: May-27-2024

Updated date: Nov-08-2025

TEMPERATURE MEASUREMENT HELP PREVENT OVERHEATING IN OIL REFINERIES



WSLRWAL-TC-H2.JPG

CONNECT WITH THERMOCOUPLE TEMPERATURE SENSOR



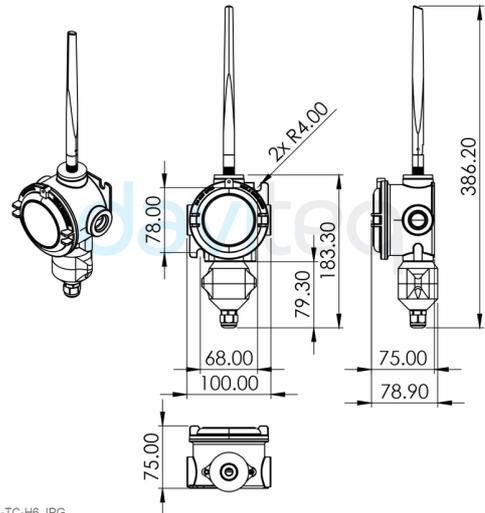
WSLRWAL-TC-H3.JPG

LoRaWAN SENSOR CONNECT WITH THERMOCOUPLE SENSOR VIA PG9 CONNECTOR



WSLRWAL-TC-H4.JPG

DIMENSION DRAWING OF WIRELESS NODE (Unit: mm)



WSLRWAL-TC-H6.JPG

RECOMMENDED BATTERIES FOR LoRaWAN NODE

LS 26500 Lithium battery



-60°C..+85°C working temperature  
Low self-discharge rate  
7.7 Ah Capacity

WSLRWAL-TC-H7.JPG

WHAT'S IN THE PACKAGE?



Main Device      Antenna      Accessories

DAVITEQ TECHNOLOGIES INC

## 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

### DAVITEQ TECHNOLOGIES INC

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

 +84.28.6268.2523 / 6268.2524

 info@daviteq.com

[www.iot.daviteq.com](http://www.iot.daviteq.com)

Created date: May-27-2024

Updated date: Nov-08-2025