

Sigfox Integrated Humidity & Temperature Sensor



Smart Agriculture, Smart Building, Smart Facility, Smart Farm, Smart Healthcare, Smart Retail, Smart Transportation

SKU: WSSFC-ATH

SIGFOX NODE INTEGRATED HUMIDITY & TEMPERATURE WSSFC-ATH



sigfox



WSSFC-ATH-H1.PNG



WSSFC-ATH is the Sigfox Integrated Ambient Humidity & Temperature Sensor, it utilises Digital capacitance humidity sensor to deliver high accuracy and stable measurement. The sensor probe comes with Integral type for the most applications, while the Remote type sensor with cable allows customer to install the sensor in applications where the sensor probe and wireless transmitter part need to be separated. The sensor will transmit data in kilo-meters distance to Sigfox basestation. WSSFC-ATH can support all regions of Sigfox network in over the World, RC1, RC2, RC3, RC4, RC5, RC6, RC7. Some typical applications are environment monitoring for office, warehouse, data-center, hospital, agriculture...

Applications

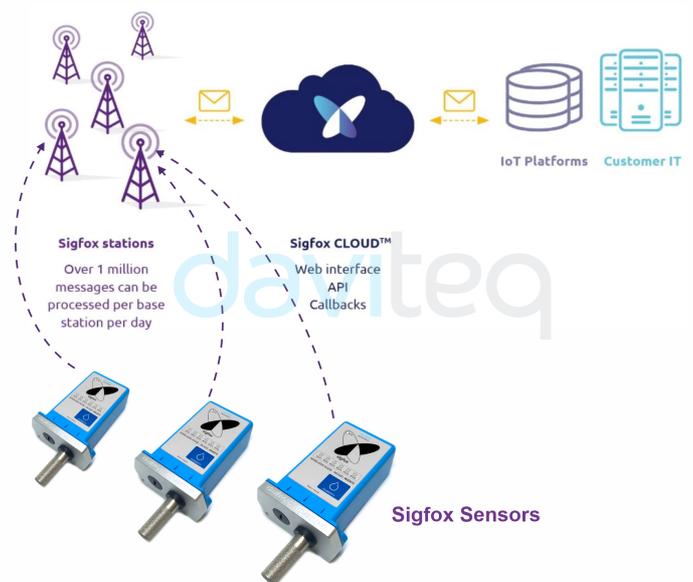
Automatic Ventilation System, Facility Monitoring, Indoor Air Quality Monitor, Warehouse Monitoring, Temperature Monitoring

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**
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 2 x AA Type battery.
- ✔ **High Accuracy & Stable**
Digital sensor with factory-calibration
- ✔ **Optional Rain guard and Splash guard**
For outdoor installation or place with water jets

SYSTEM ARCHITECTURE



WSSFC-ATH-H5.PNG

DAVITEQ TECHNOLOGIES INC

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Created date: Dec-21-2022

Updated date: Nov-08-2025

Specification

Sensor	Digital type, factory calibrated, output both Humidity & Temperature values
Sensor Type	Integral or Remote type with cable
Humidity measuring range & accuracy	0~100% RH, $\pm 2.0\%$
Humidity resolution	0.1%
Temperature measuring range & accuracy	-40~85°C, $\pm 0.2^\circ\text{C}$
Temperature resolution	0.1°C
Sensor Filter	20 μm Alloy sintered filter
COMMUNICATION	
Sigfox zones	select RC2-RC3-RC4-RC5 or RC1-RC6-RC7
Antenna	Internal Antenna 2.0 dBi
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	-40~60°C (using Energizer® Lithium Ultimate AA battery)
Dimensions	H137xW73xD42
Net-weight	250g
Housing	Polycarbonate & POM plastic, IP67

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Sigfox Wireless Sensor for Monitoring Humidity and Temperature in Datacenter



WSSFC-ATH-H2.PNG

Sigfox Wireless Sensor for Monitoring Humidity and Temperature in Greenhouse



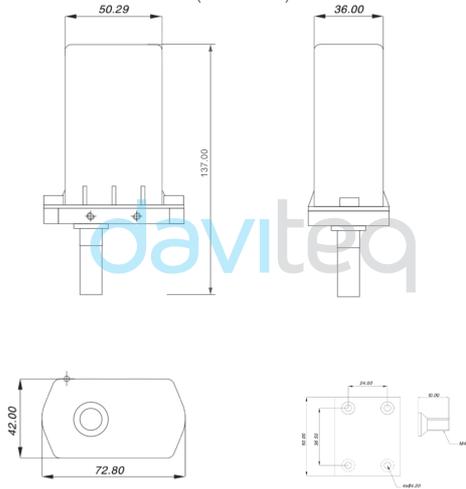
WSSFC-ATH-H3.PNG

Sigfox Wireless Sensor for Monitoring Humidity and Temperature in Warehouse



WSSFC-ATH-H4.PNG

DIMENSION DRAWING OF WIRELESS SENSOR (Unit: mm)



WSSFC-ATH-H6.PNG

RECOMMENDED BATTERIES

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

WSSFC-ATH-H7.PNG

OUTDOOR INSTALLATION WITH OPTIONAL SOLAR RADIATION SHIELD



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Ordering Information

ITEM CODE	DESCRIPTIONS
WSSFC-ATH-11	Sigfox sensor with Integral Humidity & Temperature sensor with sintered metal protection filter, Pre-Calibrated, Internal antenna, Type AA battery 1.5VDC, IP67, for all RC zones
WSSFC-ATH-12-300	Sigfox sensor with Integral Humidity & Temperature sensor with sintered metal protection filter, Remote type 300mm cable, Pre-Calibrated, Internal antenna, Type AA battery 1.5VDC, for all RC zones
WSSFC-ATH-12-900	Sigfox sensor with Integral Humidity & Temperature sensor with sintered metal protection filter, Remote type 900mm cable, Pre-Calibrated, Internal antenna, Type AA battery 1.5VDC, for all RC zones
SRADSHIELD-ATH-01	solar radiation shield for ATH sensor in outdoor application

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