LoRaWAN Ex d Ambient Humidity & Temperature Sensor

daviteq

Smart Facility

SKU: WSLRWEX-ATH





LoRaWAN communication standard to allow sensor connect to any LoRaWAN Gateway on the market $\,$

5-10 Years battery

Ultra-low power sensing technology from Daviteq with Ultra-low power wireless technology allow the sensor can last up to 5-10 years with a single battery

- High Accuracy & Stable
 Digital sensor with factory-calibration
- Optional Rain Guard and Splash Guard For outdoor installation or place with water jets





WSLRWEX-ATH is a LoRaWAN 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 frequency zones.

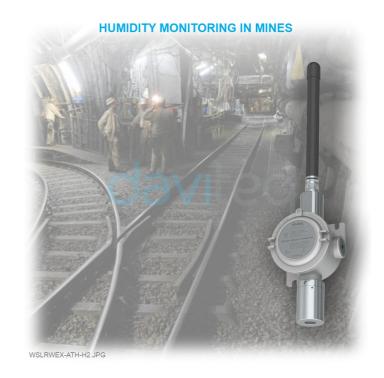
Typical applications: Ambient humidity and temperature monitoring for warehouse or area with flammable gases or dust.

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.



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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, ±2.0%
Humidity resolution	0.1%
Temperature measuring range & accuracy	-40~85°C, ±0.2°C
Temperature resolution	0.1℃
COMMUNICATION	
SF Factors	SF7~SF12
Antenna	External Antenna 2.0 dbi
Battery	01 x C size 3.6VDC, battery not included
RF Frequency and Power	860~930MHz, 14~20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
Protocol	LoRaWAN®, class A
Data sending modes	Interval time and when alarm occurred
RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
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℃ 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℃
Housing	Cast aluminium, powder coated, IP66
Mounting	wall mounting holes
Product dimensions	H100 × W100 × D80 (excluded antenna)
Net weight	1.5 kg
Packaging dimension	W160 × D150 × H250 mm
Gross weight	<1.6kg

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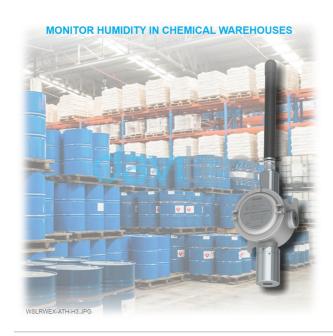
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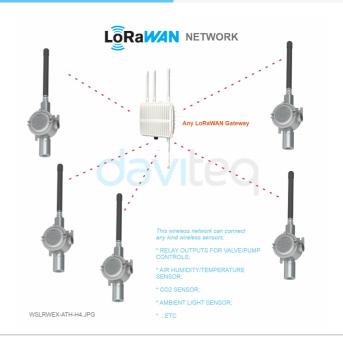
Created date: Oct-02-2023

Updated date: Aug-28-2024

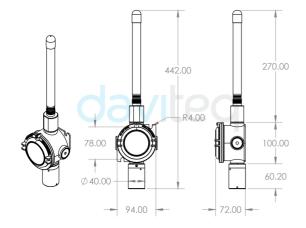
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DIMENSION DRAWING OF SENSOR NODE (Unit: mm)



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RECOMMENDED BATTERIES FOR LORAWAN SENSOR

LS 26500 Lithium battery



-60°C..+85°C working temperature

Low self-discharge rate

7.7 Ah Capacity

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Ordering Information

ITEM CODE	DESCRIPTIONS
WSLRWEX-ATH-15	LORAWAN AMBIENT HUMIDITY AND TEMPERATURE SENSOR, EX D APPROVAL, ZONE 1/2/21/22, IP66, 3.6V BATTERY

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