LoRaWAN Humidity & Temperature Sensor

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

SKU: WSLRW-ATH

Safe Zone

Hazardous Zones



WSLRW-ATH-H1.PNG

LoRaWAN communication

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

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 02 x AA batteries

High Accuracy & Stable

Digital sensor with factory-calibration

Optional Rain Guard and Splash Guard For outdoor installation or place with water jets WSLRW-ATH is the LoRaWAN 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. With Ultra-low Power design and smart firmware allow the sensor can last up to 10 years with 02 x AA-type battery (depends on configuration). The sensor will transmit data in kilo-meters distance to LoRaWAN gateway, any brand on the market. 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

LoRaWAN Wireless Sensor for Monitoring Humidity and Temperature in Datacenter



WSLRW-ATH-H2.PNG

DAVITEQ TECHNOLOGIES INC

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

www.iot.daviteq.com

Sector State S

0

Created date: Dec-21-2022

daviteq



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°C
Sensor Filter	20µm Alloy sintered filter
COMMUNICATION	
SF Factors	SF7~SF12
Antenna	Internal Antenna 2.0 dbi
Battery	02 x AA size 1.5VDC, 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)
Vietnam Type Approval	TBA soon
Working temperature	-40~60°C (with AA L91 Energizer®)
Dimensions	H137xW73xD42
Net-weigh	250g
Housing	Polycarbonate & POM plastic, IP67

DAVITEQ TECHNOLOGIES INC Image: Organization of the state of the state

Created date: Dec-21-2022

daviteq

LoRaWAN Wireless Sensor for Monitoring Humidity and Temperature in Greenhouse





RECOMMENDED BATTERIES FOR LORAWAN SENSOR





-40 .. + 60 oC working temperature

-18 .. + 60 oC working temperature 10-year shelf life 3000 mAH Capacity

Price: 1X

20-year shelf life 3500 mAH Capacity Price: 3.5X

WSLRW-ATH-H7.PNG

DAVITEQ TECHNOLOGIES INC

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

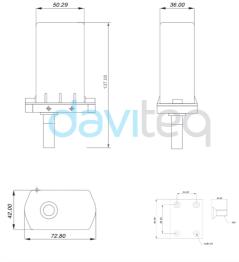
+84.28.6268.2523 / 6268.2524

📩 info@daviteq.com

LoRaWAN Wireless Sensor for Monitoring Humidity and Temperature in Warehouse



DIMENSION DRAWING OF WIRELESS SENSOR



WSLRW-ATH-H6.PNG



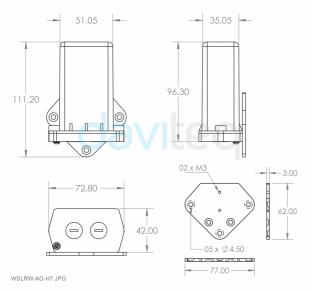
WSLRW-ATH-H8.PNG

INC

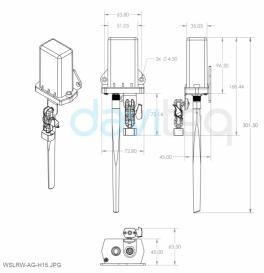
www.iot.daviteq.com Created date: Dec-21-2022



DIMENSION DRAWING OF WIRELESS SENSOR



DRAWING FOR TILT SENSOR WITH **EXTERNAL ANTENNA AND SOLAR BRACKET**



RECOMMENDED BATTERIES FOR LORaWAN SENSOR POWERED BY PRIMARY BATTERY



WSLRW-AG-H10.JPG

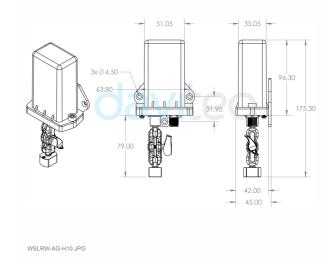
DAVITEQ TECHNOLOGIES INC

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

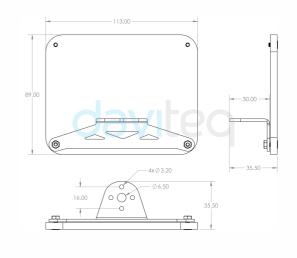
+84.28.6268.2523 / 6268.2524 😡 info@daviteq.com www.iot.daviteq.com

Created date: Dec-21-2022

DIMENSION DRAWINGS FOR WIRELESS SENSOR WITH SOLAR BRACKET



DIMENSION DRAWINGS FOR SOLAR PANEL



WSLRW-AG-H11.JPG

RECOMMENDED BATTERIES FOR LORaWAN SENSOR POWERED BY SOLAR PANEL



WSLRW-AG-H11.JPG

Updated date: Aug-28-2024

4/5



Ordering Information

ITEM CODE	DESCRIPTIONS
WSLRW-ATH-11	Wireless LoRaWAN Integral Humidity & temperature sensor with sintered metal protection filter, Internal antenna, Type AA battery 1.5VDC, IP67, 860-930MHz
WSLRW-ATH-12-300	Wireless LoRaWAN Humidity & temperature sensor with sintered metal protection filter, Remote type 300mm cable, Internal antenna, Type AA battery 1.5VDC, IP67, 860-930MHz

DAVITEQ TECHNOLOGIES INC O Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH +84.28.6268.2523 / 6268.2524 info@daviteq.com www.iot.daviteq.com Create

Created date: Dec-21-2022