

# EVA-2310

## LoRaWAN Temperature and Humidity Sensor

Preliminary



CE FCC RoHS COMPLIANT PRODUCT

### Features

- LoRaWAN wireless connectivity
- -40 °C to 55 °C temperature detection range
- 0%RH to 100%RH humidity detection range
- Battery life up to 5 years @ 25 °C, 15mins interval setting
- Easy to deploy and maintain

### Introduction

EVA-2310 is capable to measure temperature and humidity at different kinds of application, such like office, hospital, classroom, warehouse, etc. With its wide range, high penetration rate LoRa connectivity, the data transmission range can be up to hundreds or thousands of meters away. EVA-2310 can be installed directly on the walls, metal boxes or poles. EVA-2310 is powered by 2 AA 3.6V Li-ion batteries, battery life can be up to 5 years based on certain conditions.

### Common Specification

#### Wireless Communication

- **Frequency Band** EU 863-870 (MHz) / US 902-928 (MHz) / AU 915-928 (MHz) / AS 919-924 (MHz)
- **Spreading Factor** 7-12
- **Transmit Power** Up to 20dBm
- **Topology** Star (LoRa/LoRaWAN)
- **Sensitivity** -148dB

#### General

- **Power Input** 3.6V AA Battery \*2pcs (Not included)
- **Battery Life** 5 years @ 25 °C, 15mins interval setting
- **LED Indicator** Power on, TX, reset to default
- **Configuration Interface** Wireless downlink commands
- **IP Class** IP30
- **Mounting** Wall, Magnetic, Pole
- **Dimension (H x W x D)** 112 x 51 x 71.5 mm
- **Certification** CE (RED), FCC, TELEC, RCM

#### Environment

- **Operating Temperature** -40°C to 55 °C
- **Operating Humidity** 0% ~ 90% RH
- **Storage Temperature** -40°C ~ 85°C
- **Storage Humidity** 0% ~ 90% RH

### Temperature Sensor

- **Measurement Range** -40°C ~ 50°C
- **Accuracy** ±0.5°C @ 25°C

### Humidity Sensor

- **Measurement Range** 0%RH to 90%RH
- **Accuracy** ±3%RH @ 25°C

### Ordering Information

#### LoRaWAN Temperature and Humidity Sensor

- **EVA-2310-NA** LoRaWAN Temperature and Humidity Sensor - US 902-928 (MHz)
- **EVA-2310-EA** LoRaWAN Temperature and Humidity Sensor - EU 863-870 (MHz)
- **EVA-2310-TA** LoRaWAN Temperature and Humidity Sensor - AS 919-924 (MHz)
- **EVA-2310-ZA** LoRaWAN Temperature and Humidity Sensor - AU 915-928 (MHz)

#### LoRaWAN Gateway

- **WISE-6610-N100-A** LoRaWAN gateway supports up to 100 nodes with 915 MHz
- **WISE-6610-E100-A** LoRaWAN gateway supports up to 100 nodes with 868 MHz
- **WISE-6610-A100-A** LoRaWAN gateway supports up to 100 nodes with 923 MHz

#### Accessories

- **\*1760002647-01** Bat. Cylindrical 3.6V/2500mAh AA Li/SOCI2

\*One EVA sensor needs 2 batteries.