

# EVA-2310

## LoRaWAN Temperature and Humidity Sensor

Preliminary



### Features

- LoRaWAN wireless connectivity
- -20 °C to 55 °C temperature detection range
- 0%RH to 100%RH humidity detection range
- Battery life up till 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 up till hundred or thousand meters away. EVA-2310 can be installed directly on the walls, metal box or poles. EVA-2310 is powered by 2 AA 3.6v Li-ion batteries, battery life can up till 5 years basing on certain condition.

### 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, NCC

#### Environment

- **Operating Temperature** -20°C to 55 °C
- **Operating Humidity** 0% ~ 90% RH
- **Storage Temperature** -40°C ~ 85°C
- **Storage Humidity** 0% ~ 90% RH

### Temperature Sensor

- **Measurement Range** -20°C ~ 50°C
- **Accuracy** ±1°C @25°C

### Humidity Sensor

- **Measurement Range** 0%RH to 90%RH
- **Accuracy** ±4%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 need 2 batteries.