# EVA-2311

## LoRaWAN Temperature PT1000 Round Head Probe Sensor

**NEW**

## Features

- LoRaWAN wireless connectivity
- -70°C to 200°C temperature detection range
- IP67 for PT1000 Round Head Probe Sensor
- Battery life up till 5 years@25°C, 15mins interval setting
- Easy to deploy and maintain

## Introduction

EVA-2311 is a LoRaWAN PT1000 round head probe sensor. The extended sensor itself has 2m length cable, IP67 rating design with -70°C to 200°C temperature detection range. It capable to measure temperature at different kinds of applications, such like refrigerator, freezer, cooling pipe, etc. With it's wide range, high penetration rate LoRa connectivity, the data transmission range can up till hundred or thousand meters away. EVA-2311 can be installed directly on the walls, metal box or poles. EVA-2311 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
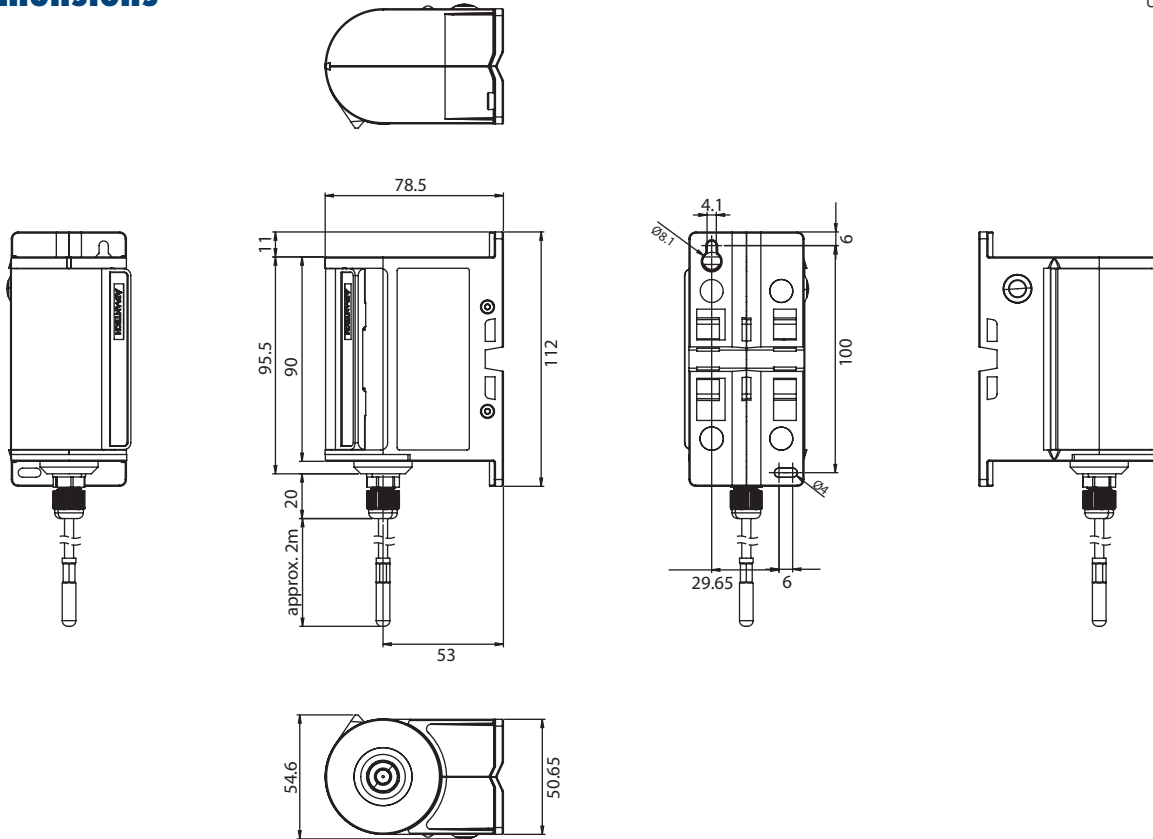
### Environment

- **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**       -70°C to 200°C
- **Accuracy (Host and Sensor are in same enlivenment)**
  ±0.8°C between 0°C and 55°C
- **Accuracy (Host and Sensor are in different enlivenment)**
  $\pm\{(0.15 + 0.002* \,|T2|)+1\}$°C between -70°C and 0°C
  $\pm\{(0.15 + 0.002* \,|T2|)+0.6\}$°C between 55°C and 200°C
- **Probe Dimension**         5 x 30 mm
- **IP Class**                IP67
- **Wire Length**             2000 mm

# Dimensions

Unit: mm



# Ordering Information

**LoRaWAN Temperature PT1000 Round Head Probe Sensor**

- **EVA-2311-NA**     LoRaWAN Temperature PT1000 Round Head Probe Sensor - US 902-928 (MHz)
- **EVA-2311-EA**     LoRaWAN Temperature PT1000 Round Head Probe Sensor - EU 863-870 (MHz)
- **EVA-2311-TA**     LoRaWAN Temperature PT1000 Round Head Probe Sensor - AS 919-924 (MHz)
- **EVA-2311-ZA**     LoRaWAN Temperature PT1000 Round Head Probe Sensor - AU 915-928 (MHz)

**LoRaWAN Gateway**

- **WISE-6610-NB**     LoRaWAN gateway with NA915 MHz
- **WISE-6610-EB**     LoRaWAN gateway with EU868 MHz
- **WISE-6610-TB**     LoRaWAN gateway with AS923 MHz
- **WISE-6610-JB**     LoRaWAN gateway with JP923 MHz
- **WISE-6610-EL-NB**     LoRaWAN gateway with NA915 MHz and Edgelink
- **WISE-6610-EL-EB**     LoRaWAN gateway with EU868 MHz and Edgelink
- **WISE-6610-EL-TB**     LoRaWAN gateway with AS923 MHz and Edgelink
- **WISE-6610-EL-JB**     LoRaWAN gateway with JP923 MHz and Edgelink

**Accessories**

- **\*1760002647-01**     Bat.Cylindrical 3.6V/2500mAh AA Li/SOCl2

*One EVA sensor need 2 batteries.