EVA-2311

LoRaWAN Temperature PT1000 Round Head Probe Sensor



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

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)

 $\pm \{(0.15 + 0.002* |T2|)+1\}^{\circ}C \text{ between -70°C and 0°C}$ $\pm \{(0.15 + 0.002 \times |T2|) + 0.6\}$ °C between 55°C and 200°C

 Probe Dimension 5 x 30 mm IP Class IP67 Wire Length 2000 mm

Ordering Information

LoRaWAN Temperature and Humidity 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-N100-A LoRaWAN gateway supports up to 100 nodes with

915 MHz

WISE-6610-E100-A LoRaWAN gateway supports up to 100 nodes with

 WISE-6610-A100-A LoRaWAN gateway supports up to 100 nodes with 923

Accessories

*1760002647-01 Bat.Cylindrical 3.6V/2500mAh AA Li/SOCI2 *One EVA sensor need 2 batteries.