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

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-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.

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