LEO-S552-TP

LoRaWAN LCD Dual Temperature Probe Sensor

Features

- Food level PT100 temperature probes sensor
- IP65 waterproof enclosure with dust plug, suitable for harsh environment
- Support automated temperature monitoring and anti-tamper recording of data in compliance with HACCP, meeting the authenticity requirements of 21 CFR Part 11B electronic record
- Provide simplified PDF data export for easy documentation without complex paperwork
- Features low-consumption LCD display, enabling intuitive data reading
- Built-in 2 x 4000 mAh replaceable battery and long battery without replacement

Specifications

Frequency	US915/AU915/KR920/AS923/CN470
NFC	Y (Configuration)
Display	LCD Segment Code Screen
Button	1 x Reset Button (Internal) 1 x Power/Switch Button (External)
Power Supply	1. 2 x 4000 mAh battery (ER18505) 2. USB Type-C (5V/1A)
Battery Life	2 years (10 min interval, @25°C)*
Data Storage Capacity	10,000
Working Temperature	-30°C ~ 70°C
Working Humidity	0 ~ 95% (non-condensing) at 25°C (77°F)
Wireless Range	100 meters+ (Line of Sight)*
I/O	USB Type-C
Dimensions (W x D x H)	109.35 x 75 x 29 mm (4.31 x 2.95 x 0.79 in)
Weight	185g
IP	IP 65
Certifications	FCC, CE**
Connection Type	3-wire connection
Cable Length	1.5m
Probe Type	Stainless steel 316
Temperature	Measurement Range	-60°C ~ 250°C
	Accuracy Range	± 0.5 °C
	Resolution	0.1 °C

* Test under laboratory conditions and for guideline purposes only
**CE by project

Dimensions

Unit: mm

Ordering Information

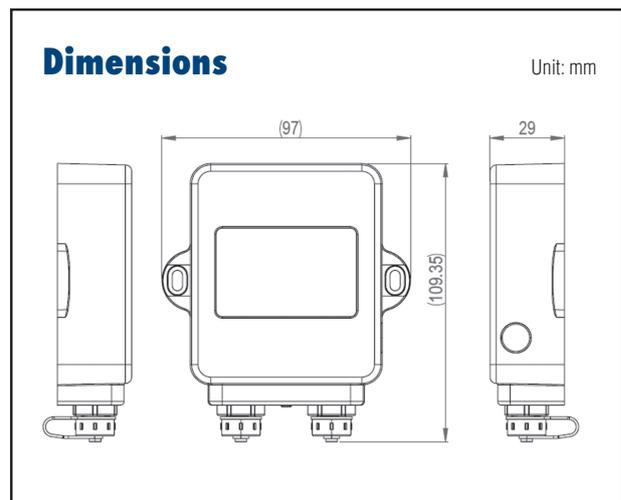| Part Number	Description
LEO-S552-TPG0	LEO-S LoRaWAN LCD Dual Temp Probe sensor 915
LEO-S552-TPC0	LEO-S LoRaWAN LCD Dual Temp Probe sensor 470

Packing List

- 2 x Mounting Kits
- 2 x Screw Caps
- 2 x PT100 Food Level Probe

USM-S67

LoRaWAN Gateway

Features

- Quad-core industrial processor with big memory
- Equip with SX1302 chip, handling a higher amount of traffic with lower consumption
- 8 half/full-duplex channels
- IP65 enclosure and industrial design for parts of outdoor environment applications like eaves
- Desktop, wall or pole mounting
- Multi backhaul backups with Ethernet and Wi-Fi
- Easy and centralized management of remote devices
- Enable security communication with multiple VPNs like IPsec/OpenVPN/L2TP/PPTP/DMVPN
- Built-in network server and MQTT/HTTP/HTTPS API for easily integration
- Embedded Python SDK for users secondary development
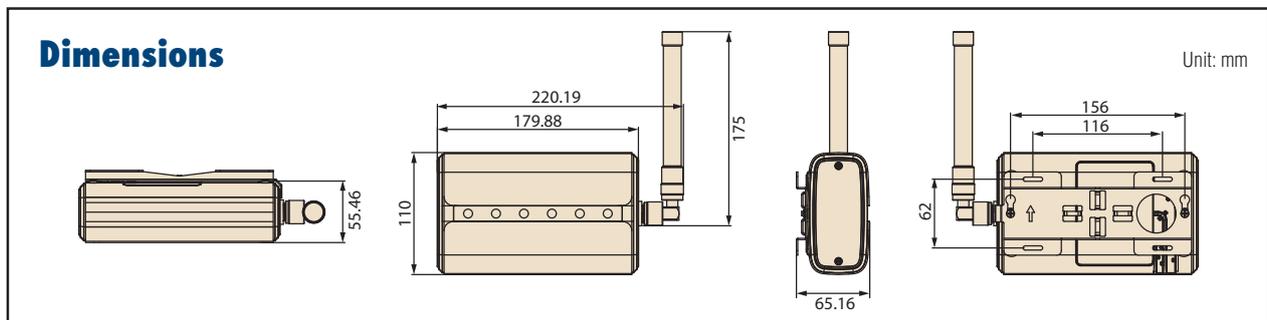- Fast and user-friendly programming by Node-RED development tool

Specifications

General	CPU	Quad-core 1.5 GHz, 64-bit ARM Cortex-A53
	Memory	512 MB DDR4
	Flash	8 GB eMMC
	LED Indicators	1 x POWER, 1 x STATUS, 1 x LoRa, 1 x Wi-Fi, 1 x Ethernet
LoRaWAN	Frequecny	US915/AU915/KR920/AS923/CN470
	Antenna	2 x Internal Antennas 1 x External Antenna
	Wireless Range	100 meters+ (Line of sight)**
	Connect Q'ty	Support up to 100 x LEO-S sensors*
Connectivity	Ethernet	10/100/1000 Base-T
	Wifi	IEEE 802.11 b/g/n, 2.4GHz
Others	Button	1 x Reset Button
	Power	1. DC Jack Connector for 9-24 V_{DC} power supply 2. 1 x 802.3 af PoE input
	Working Temperature	-40 ~ 70°C (-40 ~ 158°F)
	Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)
	Operating Humidity	0 ~ 95% (non-condensing) at 25°C (77°F)
	dimension	180 x 110 x 56.5 mm (7.09 x 4.33 x 2.22 in)
	IP	65
	Certification	FCC, TELEC, CE***, RCM, SIRIM, NBTC

* Dependent on usage scenario
** Test under laboratory conditions and for guideline purposes onl
***CE by project

Dimensions

Unit: mm

220.19
179.88
55.46
110
175
65.16
62
156
116

Ordering Information

Part Number	Description
USM-S67-G0WP0	USM-S67 LoRaWAN & WIFI Gateway 915
USM-S67-C0WP0	USM-S67 LoRaWAN & WIFI Gateway 470

Packing List

- 1 x LAN Cable(1.5M)
- 1 x Adapter
- 1 x Mounting Bracket
- 2 x Mounting Kits
- 1 x LoRaWAN Antenna

USM-S67

LoRaWAN Compact Gateway

Features

- Support 8 half/full-duplex channels
- Enable security communication with multiple VPNs(IPsec/OpenVPN/L2TP/ PPTP/DMVPN)
- Detect and analyze the noise level and provide intuitive diagram for deployment
- Built-in network server and MQTT/HTTP/HTTPS API for easily integration

Specifications

General	CPU	528 MHz, ARM Cortex-A7
	Memory	256 MB DDR4
	Flash	4 GB eMMC
	LED Indicators	1 x SYS, 1 x LoRa
LoRaWAN	Frequecny	US915/AU915/KR920/AS923/CN470
	Antenna	2 x Internal Antennas
	Wireless Range	100 meters+ (Line of sight)**
	Connect Q'ty	Support up to 20 x LEO-S sensors*
Connectivity	Ethernet	10/100 Base-T
Others	Button	1 x Reset Button
	Power	1.802.3 af PoE input 2.5V/1A by Type-C Port
	Working Temperature	-20 ~ 50°C (-4 ~ 122°F)
	Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)
	Operating Humidity	0 ~ 95% (non-condensing) at 25°C (77°F)
	dimension	Ø115 x 21 mm (Ø4.52 x 0.83 in)
	IP	30
	Certification	FCC, TELEC, CE***

* Dependent on usage scenario
** Test under laboratory conditions and for guideline purposes only
***CE by project

Dimensions

Unit: mm

24
21
87
n3.5
n115

Ordering Information

Part Number	Description
USM-S67-G00P0	USM-S67 LoRaWAN Gateway 915
USM-S67-C00P0	USM-S67 LoRaWAN Gateway 470

Packing List

- 2 x Mounting Kits