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INDUSTRIAL PRODUCT DATASHEET

SenseCAP S2107 - LoRaWAN® Temperature Sensor with PT1000

A battery-powered IP66 wireless PT1000 temperature sensor, range from -50~300°C, expandable 3 PT1000 channels, equipped with built-in Bluetooth and APP service for OTA configuration and remote device management.

SKU	UPDATED	PRICE
114993078	2026-11-11 09:47:11	$79.00(Excl. VAT)



Overview



A battery-powered IP66 wireless PT1000 temperature sensor, range from -50~300°C, expandable 3 PT1000 channels, equipped with built-in Bluetooth and APP service for OTA configuration and remote device management. Used in liquid detection, food monitoring, storage cold chain, industrial boilers, aquaculture solutions.

Key Features

01 **Designed to Use in Harsh Environments**

-40℃ ~ 85℃ operating temperature(LoRa DTU) and IP66-rated enclosure, the PT1000 probe can detect -50~300℃, suitable for outdoor use, high UV exposure, heavy rain, dusty conditions, etc.

02 **Compatible with Worldwide LoRaWAN® Networks**

Compatible with different types of LoRaWAN® gateways to enable fast connection with LoRaWAN® networks (support the universal frequency plan from 863MHz ~928MHz).

03 **Long Range & Battery powered**

Ultra-wide-transmission range of 2km in urban scenes and 10km in line of sight scenes. Powered by easily replaceable standard Li-SOCl2 battery (type: ER34615) with Max.10 years of battery life.

04 **Simple Configuration and Calibration**

SenseCAP provides a no-code experience that enables users to finish configuration and calibration through SenseCAP Mate APP.

05 **High-performance Guarantee**

06 **High-Low Temperature Test - determine performance under adverse temperature conditions.**

07 **Conformance Test - whether the collected values of multiple devices are consistent**

08 **Waterproof Test**

09 **Freezing Test**

10 **Long-Range Communication Test - whether the device loses packets under long-distance transmission**

11 **R&D and Production Test - to test the pass rate of multiple devices under factory conditions**

Product Gallery





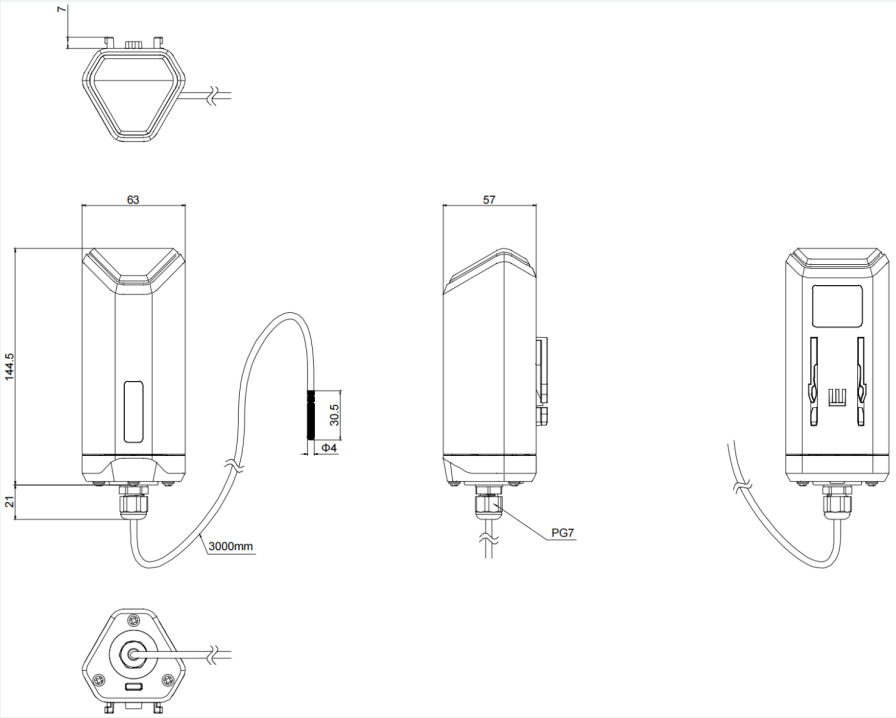






Hardware Overview





Applications

- **Liquid detection, Food monitoring, Storage cold chain, Aquaculture solutions**
- **How to add 3 PT1000 sensors to S2107:** The S2107 supports a three-wire circuit for PT1000 sensors and allows for the connection of up to three sensors simultaneously.
- **SenseCAP S210X is compatible with LoRaWAN® V1.0.3 protocol and can work with Gateway - LoRaWAN Device - SenseCAP.**
- **LoRaWAN® gateways can provide LoRaWAN® network coverage which is required when using such sensors. S210X can be connected to different LoRaWAN® gateways while what Seeed provides offers you a seamless user experience.**
- **Helium Network: Sensors work in areas covered by Helium Network (Check on Helium Explorer). You can check the SenseCAP M1 LoRaWAN Indoor Gateway - US915 - Seeed Studio and SenseCAP M2 Light Hotspot and Software License - Seeed Studio.**
- **LoRaWAN Network: Sensors work in LoRaWAN® networks, like The Things Network, Loriot, Chirpstack, etc. You can check the SenseCAP Gateway - LoRaWAN EU915 - Seeed Studio and the SenseCAP-Multi-Platform-LoRaWAN-Indoor-Gateway-SX1302-US915-p-5472 - Seeed Studio.**
- **We highly recommend that you use our SenseCAP M2 Multi-Platform LoRaWAN Gateway, which is a standard LoRaWAN® gateway that supports connection to different network servers. With its affordable price of $99, its cost-effectiveness becomes a standout advantage, especially when building your private LoRaWAN network.**
- **Seeed provides the SenseCAP Portal platform and SenseCAP Mate APP to help users better manage and check data remotely**
- **SenseCAP Portal, for Device, Data, and Access Key Management - Seeed Studio IIoT Solutions is a web service to enable users to manage SenseCAP devices and view data through the web.Bind and manage all devices in one account**
- **Includes Dashboard, Device Management, Data Management, and Access Key Management**
- **Provides MQTT and HTTP API to users for further development:** SenseCAP APP in iOS and Android Versions - Seeed Studio IIoT Solutions is a powerful APP for data visualization and remote device management.Save time - provides a scan-and-play experience to enable users to complete the whole configuration in 4 steps
- **Works for people with less or no technical background to get started with sensor data easily**

Resource Links

- https://www.seeedstudio.com/SenseCAP-S2107-Temperature-Sensor-p-5807.html
- SenseCAP S210X LoRaWAN Sensor Catalogue
- S210X Sensors User Guide
- S210X CE_FCC Certification Report
- Connect S210X Sensors to Azure IoT Central User Guide
- Battery Life Prediction Table
- SenseCAP S210X Decoder

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