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INDUSTRIAL PRODUCT DATASHEET

# SenseCAP S2108 Soil Moisture, Temperature and Pore EC Sensor

The SenseCAP S2108 Soil Moisture, Temperature and Pore EC Sensor is a LoRaWAN®-enabled, battery-powered soil monitoring solution for agriculture and environmental applications.

| SKU | UPDATED | PRICE |
| --- | --- | --- |
| 101070021 | 2026-11-05 04:36:49 | $259.00(Excl. VAT) |



# Overview



The SenseCAP S2108 Soil Moisture, Temperature and Pore EC Sensor is a LoRaWAN®-enabled, battery-powered sensor designed for soil monitoring in harsh outdoor environments. It offers long-range wireless transmission, up to 10 years of battery life, IP66 protection, and simple no-code configuration via the SenseCAP Mate APP, supporting applications such as agriculture irrigation, greenhouse, garden planting, drought monitoring, and turf and lawn management.

# Key Features

01 **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).

02 **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.

03 **Designed to Use in Harsh Environments**

-40℃ ~ 85℃ operating temperature and IP66-rated enclosure, suitable for outdoor use, high UV exposure, heavy rain, dusty conditions, etc.

04 **Simple Configuration**

SenseCAP provides a no-code experience that enables users to finish configuration with 4 steps 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





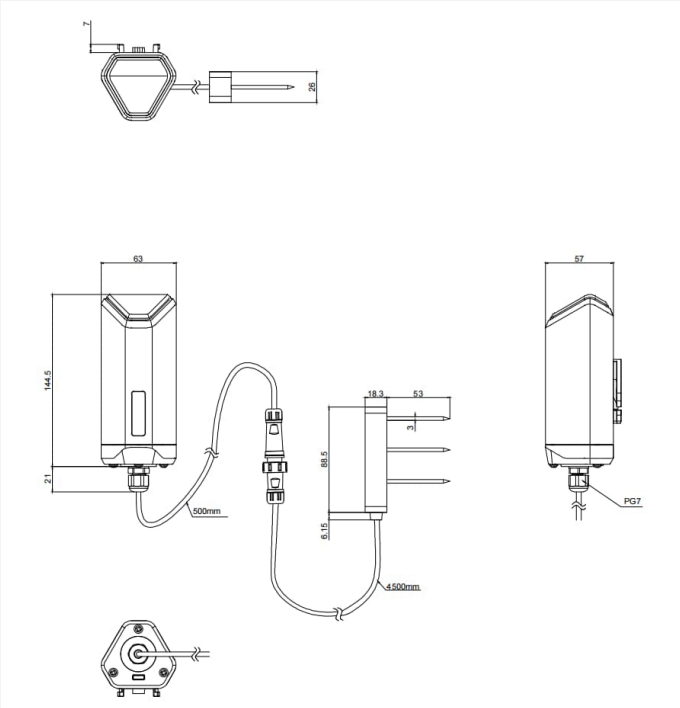







# Hardware Overview



# Applications

- Agriculture Irrigation
- Greenhouse
- Garden Planting
- Drought Monitoring
- Turf and Lawn Management

# Resource Links

- https://www.seeedstudio.com/SenseCAP-S2108-Soil-Moisture-Temperature-and-Pore-EC-Sensor-p-5825.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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