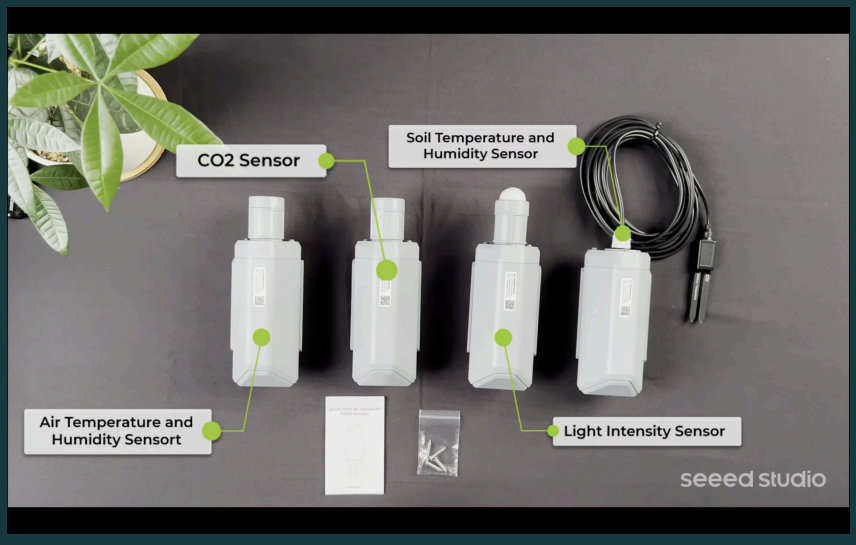
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INDUSTRIAL PRODUCT DATASHEET

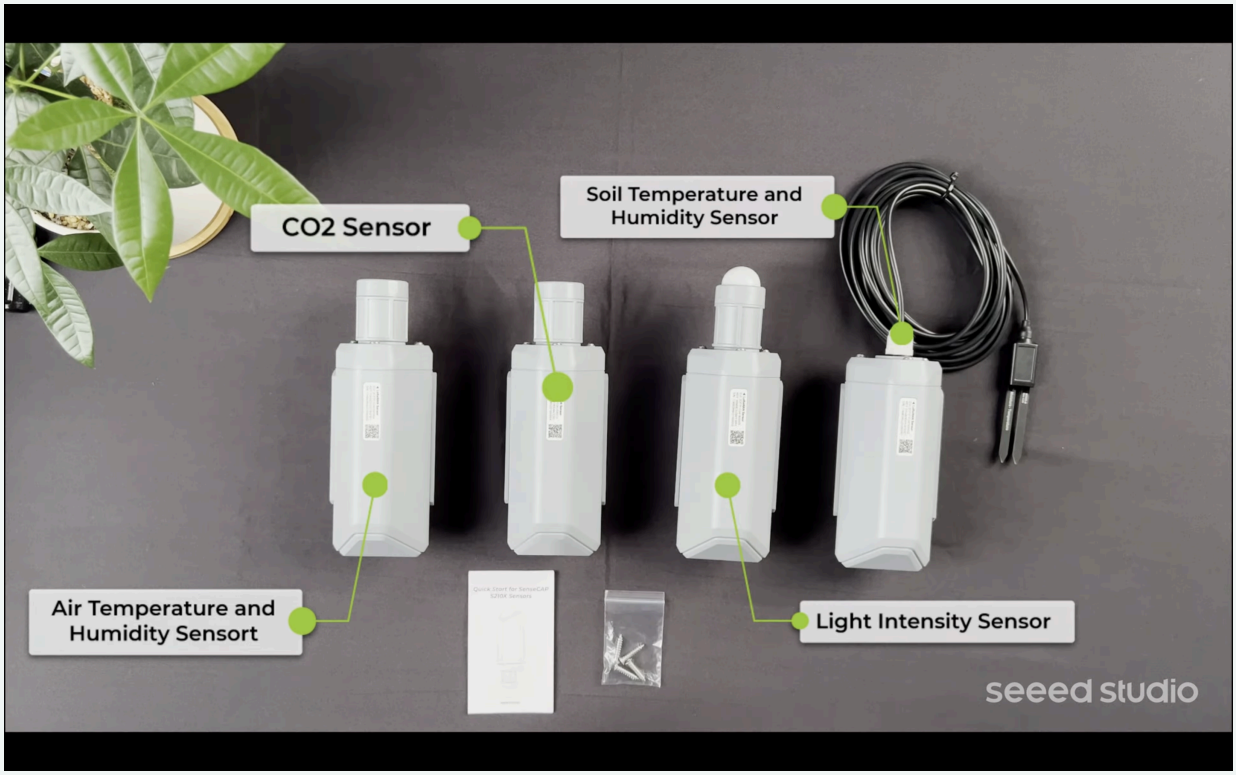
SenseCAP S2103 LoRaWAN® CO2, Temperature, and Humidity Sensor for Outdoor&Indoor Air Quality, CO2 Meter, Carbon Emission

SenseCAP S2103 LoRaWAN® CO2, Temperature, and Humidity Sensor: long-range, battery-powered air quality monitoring for harsh environments with no-code configuration via SenseCAP Mate APP.

SKU	UPDATED	PRICE
114992869	2026-11-05 04:36:38	$135.50(Excl. VAT)



Overview



The SenseCAP S2103 LoRaWAN® CO2, Temperature, and Humidity Sensor is designed for outdoor and indoor air quality monitoring, including CO2, temperature, and humidity measurement. It supports worldwide LoRaWAN® networks (863MHz ~ 928MHz), offers up to 2 km urban and 10 km line-of-sight range, operates in -40℃ ~ 85℃ with an IP66 enclosure, and runs on a replaceable ER34615 Li-SOCl2 battery with Max. 10 years battery life.

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**

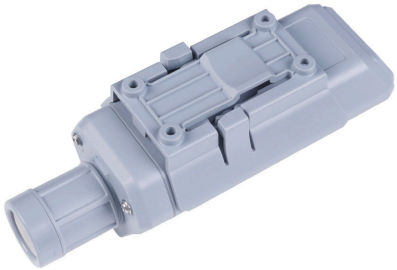
09 **Freezing Test**

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







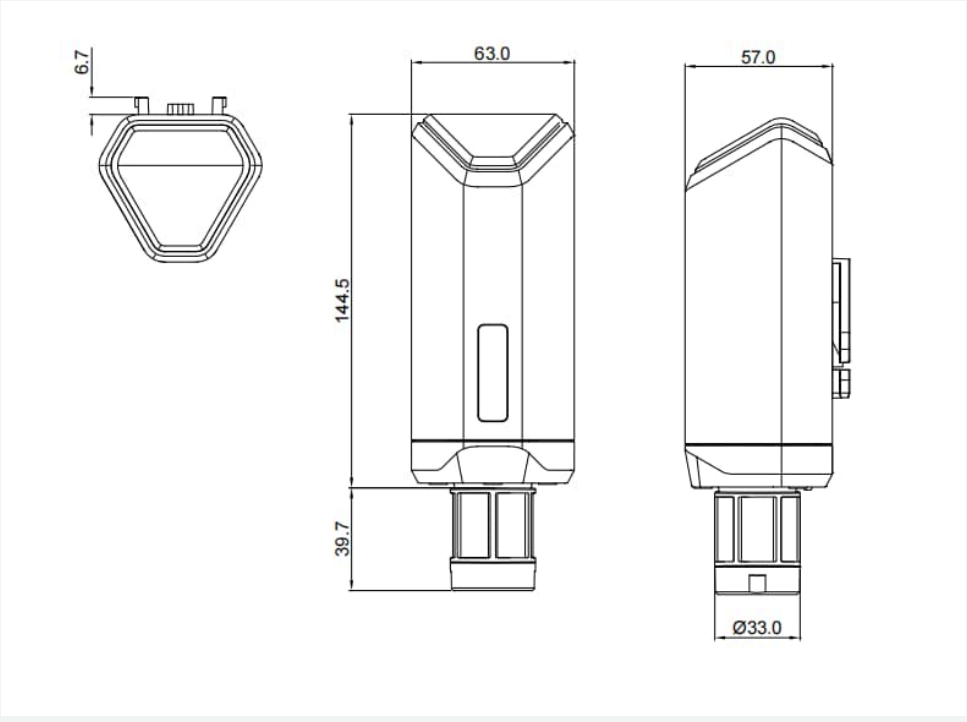






Hardware Overview





Applications

- **Poultry Farm**
- **Livestock Shed**
- **Greenhouse**
- **Office**
- **Home**
- **Cold Chain**
- **Warehouse**

Resource Links

- https://www.seeedstudio.com/SenseCAP-S2103-LoRaWAN-CO2-Temperature-and-Humidity-Sensor-p-5356.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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