seeed studio

INDUSTRIAL PRODUCT DATASHEET

SenseCAP S200 Wind Speed and Direction Sensor

SenseCAP S200 Wind Speed and Direction Sensor: industrial IP66 ultrasonic wind speed and direction sensor with heated operation, RS485/SDI-12 output, and applications in smart agriculture, smart city, power transmission, renewabl...

SKU	UPDATED	PRICE
101991044	2026-11-05 04:34:45	$299.00(Excl. VAT)



Overview



The SenseCAP S200 Wind Speed and Direction Sensor measures wind speed and wind direction using ultrasonic sensors without moving parts, featuring an IP66-rated industrial design for -40°C to +85°C outdoor environments and a thermostatically-controlled heating system for cold conditions. It supports RS485 (MODBUS-RTU)/SDI-12 output and is suitable for smart agriculture, smart city, power transmission, renewable energy, and transportation and traffic applications.

Key Features

01 **Measures wind speed and wind direction**

02 **Industrial-level design**

-40°C to +85°C operating temperature, IP66 rated: waterproof, and dustproof, suitable for outdoor scenarios

03 **Thermostatically-controlled heating system**

Independent heating power supply for use in extremely cold environments

04 **Output interface**

RS485 (MODBUS-RTU) / SDI-12

05 **Powerful Components Included**

A 3m cable for the pole mount; radiation shields are equipped to ensure accurate ambient measurement; ultrasonic wind speed & direction sensors without moving parts

06 **High-performance Guarantee**

07 **Wind tunnel for wind calibration**

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

09 **Structural Test - whether the collected values of multiple devices are consistent**

10 **x-y-z vibration test**

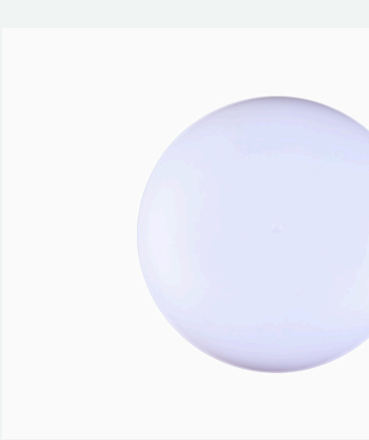
11 **Waterproof and air tightness test**

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

Product Gallery



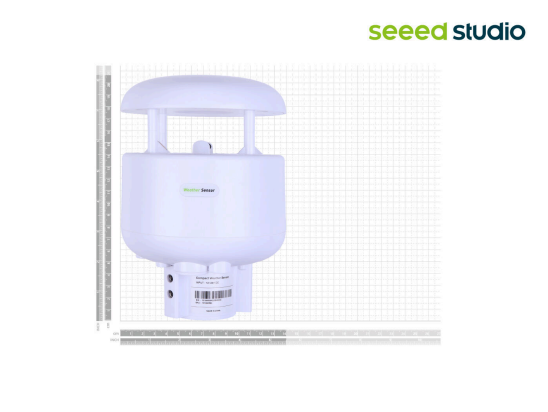


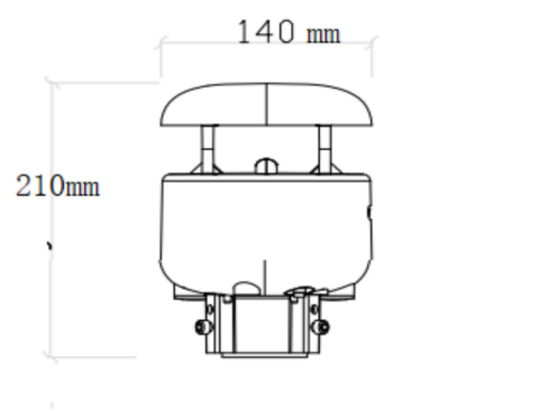




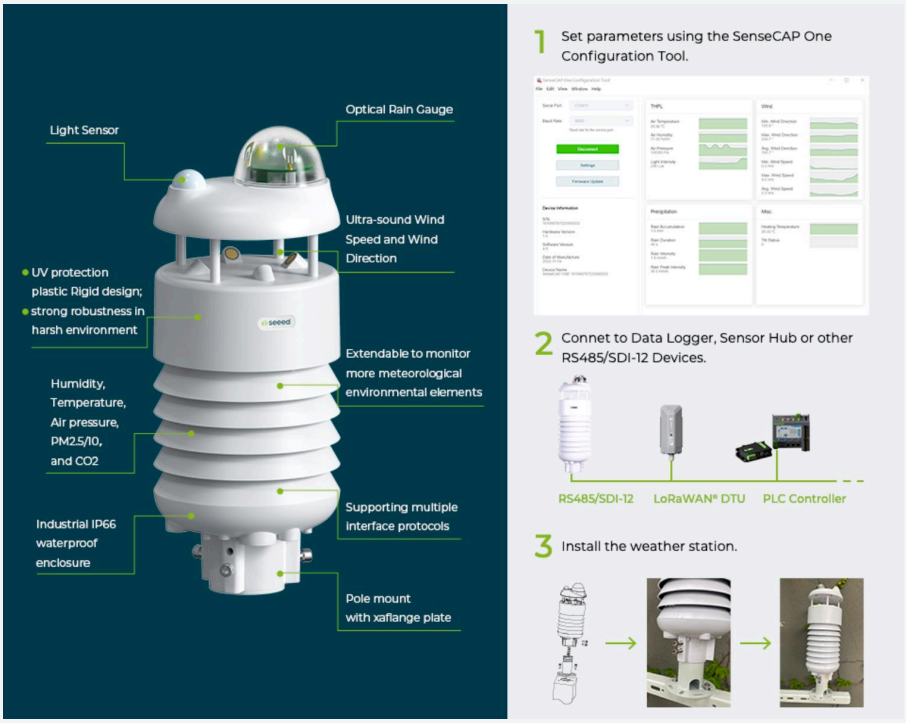








Hardware Overview



Applications

- **Smart Agriculture**
- **Smart City**
- **Power Transmission**
- **Renewable Energy**
- **Transportation and Traffic**

Resource Links

- https://www.seeedstudio.com/SenseCAP-S200-Wind-Speed-and-Direction-Sensor-p-5693.html
- SenseCAP ONE/SenseCAP ONE V2 Compact Weather Station User Guide
- SenseCAP Weather Sensor Catalogue
- SenseCAP Weather Station Power Consumption Table
- SenseCAP Sensor Hub Catalog (Data Logger & Sensor Probes)
- SenseCAP Document Center
- Resource

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