

SenseCAP S200 Wind Speed and Direction Sensor



Features

- **Measures wind speed and wind direction**
- **Industrial-level design:** -40°C to +85°C operating temperature, IP66 rated: waterproof, and dustproof, suitable for outdoor scenarios
- **Output interface:** RS485 (MODBUS-RTU) / SDI-12
- **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
- Wind tunnel for wind calibration
- High-Low Temperature Test - determine performance under adverse temperature conditions.
- Structural Test - whether the collected values of multiple devices are consistent
- x-y-z vibration test
- Waterproof and air tightness test
- R&D and Production Test - to test the pass rate of multiple devices under factory conditions

Specifications

General Parameters

Parameters Measured	wind speed, wind direction
Protocol	RS485 (MODBUS-RTU) / SDI-12
Power Supply	12V~24V 24V(Heating power supply)
Cable Length	3m
Operating Temperature & Humidity	-40 °C ~ + 85 °C, 0 ~ 100%RH
IP Rating	IP66
Device Weight	2kg

Wind Speed (Ultrasonic)

Range	0~60 m/s standard range 0~75m/s extended range Up to 80m/s withstand range
Accuracy	±0.3m/s(≤10m/s); ±3% (10m/s ~ 50m/s) ±5% (>50m/s)
Resolution	0.1 m/s

Wind Direction (Ultrasonic)

Range	0 ~ 360 °
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Accuracy	$\pm 3.0^\circ$
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Resolution	0.1°
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