



MetSens200

Compact Weather Sensor for Wind with Compass



Sales & Support:
 (435) 755-0774
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Measures Wind Speed and Direction

IEC 61724-1 Compliant

Overview

The MetSens200 compact weather sensor measures wind speed and direction via an ultrasonic sensor. An integrated electronic compass allows the MetSens200 to provide accurate, relative wind direction measurements without being oriented in a particular way, making installation easier. WMO

average wind speed and direction and gust data are provided. The MetSens200 is compatible and easily integrated with the [MeteoPV Solar Resource Platform](#) and any Campbell Scientific data logger using SDI-12, RS-485, ModbusRS-485, or NMEA RS-232.

Benefits and Features

- › Quality measurements
- › Fast and simple to install
- › Compact, integrated design
- › Lightweight and robust

Specifications

Measurements Made	Wind direction and wind speed.
Sampling Rate	1 Hz
Digital Communication Modes	Serial RS-232, RS-485, SDI-12, NMEA, Modbus, ASCII
IP Rating	66
Compliance	› CE, RoHS › Where applicable, all individual parameters meet or exceed specifications of IEC 61724-1 (2017, 2021).
Operating Temperature Range	-40° to +70°C
Operating Voltage	5 to 30 Vdc

Typical Current Drain @ 12 Vdc	› 0.7 mA (eco-power mode; 1 hour polled) › 25 mA (continuous high mode)
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Weight	0.5 kg (1.1 lb)
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Wind Speed Measurement

Measurement Range	0.01 to 60 m s ⁻¹
Accuracy	› ±3% (up to 40 m s ⁻¹) › ±5% (up to 60 m s ⁻¹)
Resolution	0.01 m s ⁻¹
Starting Threshold	0.01 m s ⁻¹

Wind Direction Measurement

Measurement Range	0° to 359°
Accuracy	±3° (up to 60 m s ⁻¹)
Resolution	1°

Compass

Measurement Range	0 to 359°
Resolution	1°
Units of Measure	Degrees
Accuracy	±3°



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