



Compact Weather Sensor for Temperature, RH, Barometric Pressure, Wind, and Precipitation with Compass



## Measures 6 Common Meteorological Parameters

## Overview

The MetSENS600 compact weather sensor measures wind speed and direction via an ultrasonic sensor, as well as air temperature, relative humidity, and barometric pressure, in a single, combined instrument mounted inside three double-louvered, naturally aspirated radiation shields with no moving parts. An optical precipitation sensing element senses fine amounts of water. An integrated electronic compass provides apparent wind measurements. WMO average wind speed and

direction and gust, temperature, relative humidity, barometric pressure, absolute humidity, air density, wet bulb temperature, rainfall total, and rainfall intensity data are provided. The MetSENS600 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
- > Two-year warranty

## **Specifications**

Sampling Rate	1 Hz
Digital Communication Modes	Serial RS-232, RS-422, RS-485, SDI-12, NMEA, Modbus, ASCII
IP Rating	66
Compliance	CE, RoHS
Operating Temperature Range	-40° to +70°C
Operating Voltage	5 to 30 Vdc

Air Temperature Measurement	
Measurement Range	-40° to +70°C
Resolution	0.1℃
Accuracy	±0.3°C (@ 20°C)



Relative Humidity Measurement	
Measurement Range	0 to 100%
Resolution	0.1
Accuracy	±2% @ 20°C (10 to 90% RH)

Measurement Range	300 to 1100 hPa	
Resolution	0.1 hPa	
Accuracy	±0.5 hPa (@ 25°C)	

Wind Speed Measurement		
Measurement Range	0.01 to 60 m s <sup>-1</sup>	
Accuracy	±3% (up to 40 m s <sup>-1</sup> )	

Resolution	0.01 m s <sup>-1</sup>
Starting Threshold	0.01 m s <sup>-1</sup>

Measurement Range	0° to 359°	
Accuracy	±3° (up to 40 m s <sup>-1</sup> ) ±5° (up to 60 m s <sup>-1</sup> )	
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Resolution

Precipitation Measurement	
Measurement Type	Optical
Measurement Range	$0 \text{ to} > 300 \text{ mm h}^{-1}$
Precipitation Resolution	0.08 mm
Repeatability	3%













