



MetSENS600

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



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 datalogger 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
Typical Current Drain @ 12 Vdc	<ul style="list-style-type: none"> › 25 mA (continuous high mode) › 0.7 mA (eco-power mode; 1 hour polled)

Weight	0.8 kg (1.8 lb)
--------	-----------------

Air Temperature Measurement

Measurement Range	-40° to +70°C
Resolution	0.1°C
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)

Barometric Pressure Measurement

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

Wind Speed Measurement

Measurement Range	0.1 to 60 m s ⁻¹
Accuracy	› $\pm 3\%$ (up to 40 m s ⁻¹) › $\pm 5\%$ (up to 60 m s ⁻¹)
Resolution	0.01 m s ⁻¹
Starting Speed	0.16 m s ⁻¹

Wind Direction Measurement

Measurement Range	0° to 359°
Accuracy	› $\pm 3^\circ$ (up to 40 m s ⁻¹) › $\pm 5^\circ$ (up to 60 m s ⁻¹)
Resolution	1°

Precipitation Measurement

Measurement Type	Optical
Measurement Range	0 to > 300 mm h ⁻¹
Precipitation Resolution	0.08 mm
Repeatability	3%

For comprehensive details, visit: www.campbellsci.com.au/metsens600 



Campbell Scientific Australia | 411 Baywater Road | Garbutt, QLD 4814 | +61 (0)7 4401 7700 | www.campbellsci.com.au
AUSTRALIA | BRAZIL | CANADA | CHINA | COSTA RICA | FRANCE | GERMANY | THAILAND | SOUTH AFRICA | SPAIN | UK | USA

© 2018 Campbell Scientific, Inc. | 10/24/2018