CAMPBELL SCIENTIFIC
WHEN MEASUREMENTS MATTER

MetSens300

Compact Weather Sensor for Temperature, RH, and Barometric Pressure

Measures 3 Common Meteorological Parameters

IEC 61724-1 Compliant

Overview

The MetSens300 compact weather sensor measures 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. Temperature, relative humidity, barometric pressure, absolute humidity, air density, and wet bulb temperature data are provided. The MetSens300 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	Air temperature, barometric pressure, and relative humidity.
Sampling Rate	1 Hz
Digital Communication Modes	Serial RS-232, RS-485, SDI-12, NMEA, Modbus, ASCII
IP Rating	66
Compliance	Where applicable, all individual parameters meet or exceed specifications of IEC 61724-1 (2017, 2021). CE, RoHS
Operating Temperature Range	-40° to +70°C
Operating Voltage	5 to 30 Vdc
Typical Current Drain @ 12 Vdc	25 mA (continuous high mode) 0.7 mA (eco-power mode; 1 hour polled)
Weight	0.5 kg (1.1 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%

For comprehensive details, visit: www.campbellsci.com/metsens300

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)

For comprehensive details, visit: www.campbellsci.com/metsens300

Campbell Scientific, Inc. | 815 W 1800 N | Logan, UT 84321-1784 | (435) 227-9120 | www.campbellsci.com
AUSTRALIA | BRAZIL | CANADA | CHINA | COSTA RICA | FRANCE | GERMANY | INDIA | SOUTH AFRICA | SPAIN | THAILAND | UK | USA