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INDUSTRIAL PRODUCT DATASHEET

SenseCAP S1000 10-in-1 Compact Weather Sensor with CO2 Measurement

SenseCAP S1000 10-in-1 Compact Weather Sensor with CO2 Measurement: high-precision 10-in-1 weather monitoring for smart agriculture, smart city, smart buildings, transportation and traffic, smart industry, and weather monitoring.

SKU	UPDATED	PRICE
101990902	2026-09-18 07:36:34	$2199.00(Excl. VAT)



Overview



The SenseCAP S1000 10-in-1 Compact Weather Sensor with CO2 Measurement is a high-precision 10-in-1 weather sensor that accurately measures Temperature, Humidity, Barometric, Wind Speed & Direction, Light, PM2.5, PM10, Rain and CO2. It is designed for Smart Agriculture, Smart City, Smart Buildings, Transportation and Traffic, Smart Industry, and Weather Monitoring applications.

Key Features

Key Features:

- High-Precision 10-in-1 weather sensor accurately measures the Temperature, Humidity, Barometric, Wind Speed & Direction, Light, PM2.5, PM10, Rain and CO2

Product Gallery



Specification

General Parameters	
Parameters Measured	air temperature, relative humidity, barometric pressure, light intensity, precipitation intensity, PM2.5, PM10, wind speed, wind direction and CO2
Protocol	RS 485 (MODBUS-RTU)
Cable Length	3m
Operating Temperature & Humidity	-40 °C ~ + 85 °C (The effective range of CO2 is 0~50°C), 0 ~ 100%RH
IP Rating	IP66
Device Weight	2.45kg

Air Temperature	
Range	- 40 °C ~ + 85 °C
Accuracy	± 0.1℃
Resolution	0.01 ℃

Air Humidity	
Range	0 ~ 100% RH
Accuracy	± 1.5% RH
Resolution	0.01% RH

Barometric Pressure	
Range	300 ~ 1250 hPa
Accuracy	± 50 Pa
Resolution	10 Pa

Light Intensity	
Range	0 ~ 188000 Lux
Accuracy	± 5% x (measurement value)

Resolution	5 Lux

Wind Speed (Ultrasonic)	
Range	0 ~ 60 m/s
Accuracy	± 3%
Resolution	0.1 m/s

Wind Direction (Ultrasonic)	
Range	0 ~ 360 °
Accuracy	± 3°
Resolution	0.1°

Rainfall Intensity (Optical)	
Range	0 ~ 200 mm/h
Accuracy	± 10%
Resolution	0.02 mm/h

PM 2.5	
Range	0-1000μg per m3
Accuracy	± 10μg/m3 at 0-100μg/m3 ±10± at 0-100
Resolution	1μg/m3

PM 10	
Range	0-1000μg per m3
Accuracy	± 15μg/m3 at 0-100μg/m3 ±15± at 0-100μg/m3
Resolution	1μg/m3

CO2	
Range	400 to 10000 ppm
Standard Accuracy	400 to 5000 ppm: ±(30+3%MV) 5000 to 10000 ppm: ±10%MV
High Accuracy*	1% of Measured Value
Resolution	1 ppm

Applications

- **Smart Agriculture**
- **Smart City**
- **Smart Buildings**
- **Transportation and Traffic**
- **Smart Industry**
- **Weather Monitoring**

Part List

SenseCAP ONE All-in-one Compact Weather Sensor	x1
M12 8-pin communication cable (default length 3-meter hook-up wire and there is a waterproof aviation connector type to choose from when working with SenseCAP SensorHub datalogger. If the aviation connector is not needed, cut it off by yourself)	x1
USB Type-C cable, for configuring devices	x1
Screw	x6
Flat washer (to open the configuration port)	x1

Compliance & Logistics

HSCODE	9031809090
UPC	
EUHSCODE	8517180000
COO	CHINA

Resource Links

- https://www.seeedstudio.com/SenseCAP-S1000-10-in-1-Compact-Weather-Sensor-with-CO2-Measurement-p-5362.html
- SenseCAP ONE/SenseCAP ONE V2 Compact Weather Station User Guide
- SenseCAP Weather Sensor Catalogue
- SenseCAp Sensor Hub Catalog (Data Logger & Sensor Probes)
- SenseCAP Document Center
- Resource

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