

COMPACT WEATHER STATION



All in One Weather Sensors

The SS Series Compact Weather Sensors are designed for robust and maintenance-free measurements in hydrology, meteorology and weather-critical applications where durability, precision and operations in different climatic conditions are expected.








Features

- All-in-one weather measurements
- Compact design
- Made up of corrosion-resistant materials
- Multiple parameters options to suit required applications
- Built-in data pre-processing capability
- Options for analog outputs and heating
- Low power consumption
- Universal interface and selectable output protocols

Applications

Automatic Weather Stations, Road and traffic control systems, Bridges & tunnels, Photovoltaic farms, Chemical industrial area, Smart Cities, Building automation, Railway, Airport and Container terminals etc.

Models

	SS-CWS-01	SS-CWS-02	SS-CWS-03	SS-CWS-04	SS-CWS-05
					
Wind Speed	√	√	√	√	√
Wind Direction	√	√	√	√	√
Air Temperature	√	√	√	√	√
Relative Humidity	√	√	√	√	√
Air Pressure	√	√	√	√	√
Rainfall	-	√ (Piezoelectric)	√ (Photoelectric)	-	√ (Photoelectric)
Solar Radiation	-	-	-	√	√
Dimensions	208 (H) x 126mm (Ø)	218 (H) x 126mm (Ø)	266 (H) x 126mm (Ø)	233 (H) x 160mm (Ø)	350 (H) x 160mm (Ø)
Weight	0.6 Kg	0.7 Kg	0.8 Kg	0.7 Kg	1.5 Kg
Power	15 mA @ 12VDC	55 mA @ 12VDC	55 mA @ 12VDC	25 mA @ 12VDC	60 mA @ 12VDC

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Common Technical Specifications

Wind Speed	Principle	Ultrasonic
	Measurement Range	0 to 60 m/s
	Accuracy	± 0.3 m/s or 3% (whichever is higher)
	Resolution	0.1 m/s
Wind Direction	Principle	Ultrasonic
	Measurement Range	0 to 359.9°
	Accuracy	$\pm 3^\circ$
	Resolution	0.1°
Air Temperature	Principle	Diode Voltage
	Measurement Range	-40 to 80 °C
	Accuracy	± 0.5 °C
	Resolution	0.1 °C
Relative Humidity	Principle	Capacitive
	Measurement Range	0 to 100%
	Accuracy	$\pm 3\%$ RH
	Resolution	0.1% RH
Air Pressure	Principle	Piezoresistor
	Measurement Range	10 to 1100 hPa
	Accuracy	± 0.5 hPa
	Resolution	0.1 hPa
Rainfall	Principle	Piezoelectric
	Measurement Range	0 to 200 mm/h
	Accuracy	$\pm 5\%$
	Resolution	0.1 mm/h
Rainfall	Principle	Photoelectric
	Measurement Range	0 to 200 mm/h
	Accuracy	$\pm 5\%$
	Resolution	0.1 mm/h
Solar Radiation	Principle	Photoelectric
	Spectral Range	300 to 3000 nm
	Measurement Range	0 to 2000 W/m ²
	Non-Linear Error	$\leq 3\%$
	Accuracy	$\pm 5\%$
General Information	Resolution	1 W/m ²
	IP Class	IP65
	Analog Output (Options)	4 to 20 mA or 1 to 5 V
	Default Interface	RS485
	Optional interface (on order)	RS232/SDI-12/RS422
	Default Protocol	ASCII
	Optional protocols (on order)	Modbus/SDI-12/NMEA
	Operating Voltage	12 to 30 VDC
Operating Temperature	-40 to 70 °C	
Operating Humidity	5 to 100% RH	
Cable	5m Standard	