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	V		\checkmark		\checkmark
Wind Direction	\checkmark				\checkmark
Air Temperature	\checkmark				\checkmark
Relative Humidity	V	\checkmark	\checkmark	\checkmark	\checkmark
Air Pressure	\sim				
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

	Principle	Ultrasonic		
Wind Const	Measurement Range	0 to 60 m/s		
wind Speed	Accuracy	± 0.3 m/s or 3% (whichever is higher)		
	Resolution	0.1 m/s		
	Principle	Ultrasonic		
Wind Dimention	Measurement Range	0 to 359.9°		
wind Direction	Accuracy	$\pm 3^{\circ}$		
	Resolution	0.1°		
	Principle	Diode Voltage		
A in The second second	Measurement Range	-40 to 80 °C		
Air Temperature	Accuracy	± 0.5 °C (± 0.3 °C @ 20 °C)		
	Resolution	0.1 °C		
	Principle	Capacitive		
	Measurement Range	0 to 100%		
Relative Humidity	Accuracy	± 3% RH		
	Resolution	0.1% RH		
	Principle	Piezoresistor		
	Measurement Range	10 to 1100 hPa		
Air Pressure	Accuracy	± 0.5 hPa		
	Resolution	0.1 hPa		
	Principle	Piezoelectric		
D : C 11	Measurement Range	0 to 200 mm/h		
Rainfall	Accuracy	± 5%		
	Resolution	0.1 mm/h		
	Principle	Photoelectric		
D : C 11	Measurement Range	0 to 200 mm/h		
Rainfall	Accuracy	± 5%		
	Resolution	0.1 mm/h		
	Principle	Photoelectric		
	Spectral Range	300 to 3000 nm		
Calan Dadiatian	Measurement Range	0 to 2000 W/m ²		
Solar Radiation	Non-Linear Error	\leq 3%		
	Accuracy	± 5%		
	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		
General Information	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		

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