SolarMAN Weather Station
SA-WS01

SolarMAN
Weather

SolarMAN Weather Station is specifically designed for solar PV systems, providing comprehensive environmental monitoring solution for users with a variety of sensors, including solar radiation, environmental temperature and humidity, wind direction, wind speed, and back-of-module temperature, etc. Weather Station is compatible with SolarMAN data loggers, and the collected data can be transmitted to SolarMAN Portal via Ethernet/WiFi/GPRS, so that users can easily get access to the environmental condition of PV systems anytime and anywhere.

With the help of accurate real-time data, durable products and powerful online portal, users can evaluate the efficiency of PV systems more conveniently and comprehensively.
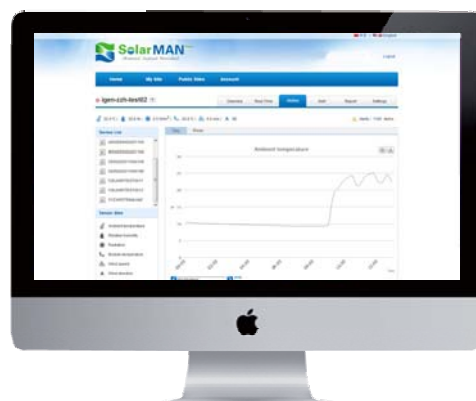
Features

- Accurate real-time and historical data enables more comprehensive evaluation of system performance

- Compatible with SolarMAN data acquisition devices with simple configuration, far reducing installation and maintenance costs

- Visualized sensor data via SolarMAN Portal for easy understanding

- Remote monitoring and management via online portal, immediate identification of defects and malfunctions

- Standard sensors for general demands, and optional higher-accuracy sensors for more demanding projects

- API Open API enables live weather data to be perfectly embedded in personal or corporate websites

![SolarMAN logo - Monitored Analyzed Networked]

Specifications

Sensors

Solar radiation	Range:0～2000W/m²	Wind speed	Range:0～45m/s
	Accuracy:±2%		Accuracy:±（0.3±0.03V）m/s（V:wind speed）
	Operating environment: Temperature -50℃～85℃ Humidity ≤100%RH		Threshold:0.5m/s
			Operating environment: Temperature -40℃～50℃ Humidity 0%～100%RH
Environmental humidity	Range:0%～100%RH	Wind direction	Range:0°～360°
	Accuracy:2%RH		Accuracy:±3°(Linearity)
	Storage environment: Temperature 10℃~60℃ Humidity 20%~90%RH		Threshold:0.5m/s
Environmental temperature	Range:-20℃~70℃		Operating environment: Temperature -40℃～50℃ Humidity 0%～100%RH
	Accuracy:±0.5℃	Module temperature	Range:-50℃～200℃
	Storage environment: Temperature 10℃~60℃ Humidity 20%~90%RH		Accuracy:±0.60℃
			Operating environment: Temperature -20 ℃~80℃ Humidity 0%-100%RH

Instrument tower

Dimension	Height: 2.5m
Wind resistance	≤40m/s
Material	Stainless steel
Mount	Tripod

Communication

Serial port	Ethernet,WiFi,GPRS(Optional) ,RS485 Modbus

Real-time data via SolarMAN Display

Historical sensor data shown in graphs