

## Contact

IGEN Tech Co., Ltd.

 Add: Block F4, China IoT International Innovation Park, No. 200,  
Linghu Avenue, Wuxi, Jiangsu, P. R. China

 Sales Inquiries: [info@solarmanpv.com](mailto:info@solarmanpv.com)

 After-sales Inquiries: [customerservice@solarmanpv.com](mailto:customerservice@solarmanpv.com)

 Website: [www.solarmanpv.com](http://www.solarmanpv.com)

# Weather Station

Product Model:

## WP-2S



## Introduction

SOLARMAN Weather Station, model WP-2S, is specially designed for PV system, which can provide a best environmental monitoring plan including pyranometer, ambient temperature, ambient humidity, wind direction, wind speed, module temperature.







Accurate real-time data, durable product along with powerful platform help users to evaluate the generation efficiency of PV system in a more convenient manner.


## Product Parameters

Devices	Technical Parameter
Pyranometer	ISO 9060:1990 Standard Classification: Secondary Standard Sensitivity: 7 ~ 14 $\mu\text{V}/\text{W}/\text{m}^2$ Measuring Range: 0 ~ 4000W/m <sup>2</sup> Spectral Range: 270 ~ 3000 nm Zero-excursion (No wind) (a) Thermal Radiation (200 W/m <sup>2</sup> ) : < 7 W/m <sup>2</sup> (b) Temperature Variation (5 K/h) : < 2 W/m <sup>2</sup> Instability(Variation/Year): < 0.5 % Nonlinear (100 ~ 1000 W/m <sup>2</sup> ): < 0.2 % Directional Response (Max. 80 °, 1000 W/m <sup>2</sup> ) : < 10 W/m <sup>2</sup> Spectral Selectivity (350 ~ 1500 nm): < 1 % Tilt Response(0 ° to 90 ° ~ 1000 W/m <sup>2</sup> ) : < 0.2 % Temperature Response: < 1 % (-10°C ~ +40°C) Visual Angle: 180° Working Condition: Temperature:-40°C-80°C Humidity: 0-100%RH

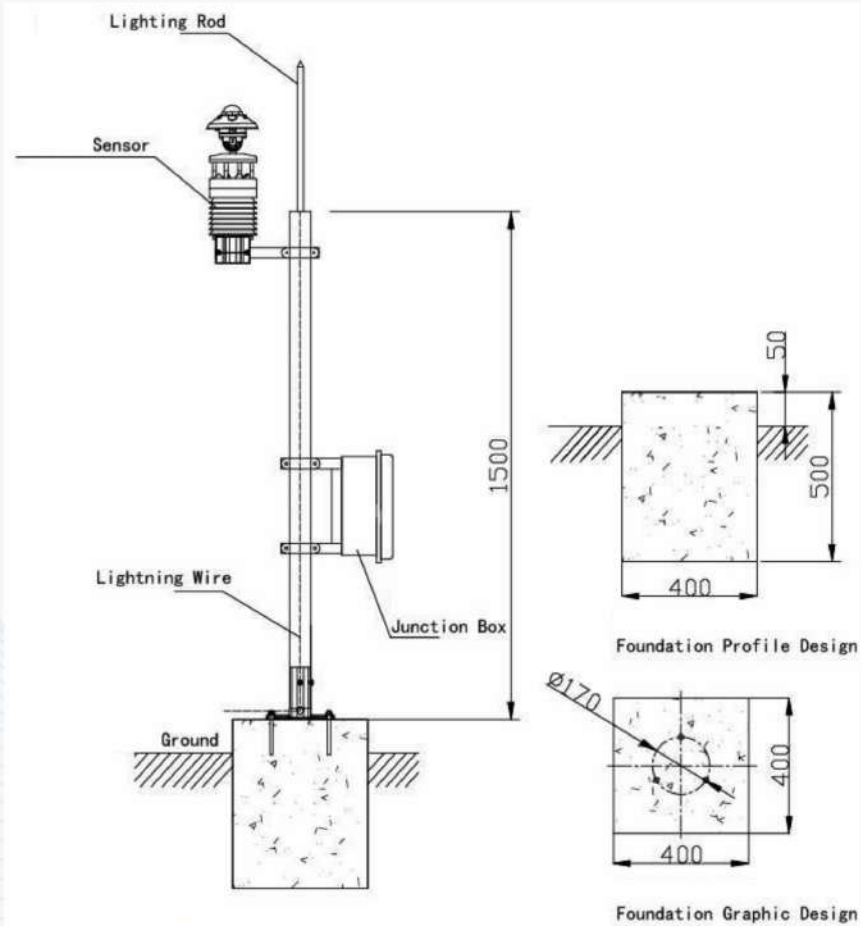
Ambient Temperature	Measuring Range: -50.0 ~ +80.0°C Resolution: 0.1°C Accuracy: $\pm 0.1^\circ\text{C}$ Working Condition: Temperature:-40°C-80°C Humidity: $\leq 100\%RH$
Ambient Humidity	Measuring Range: 0.0 ~ 100.0% RH Resolution: 0.1% RH Accuracy: $\pm 2\%(\leq 80\%)\pm 5\%(> 80\%)$ Working Condition: Temperature:-40°C-80°C Humidity: $\leq 100\%RH$
Wind Direction	Measuring Range: 0 ~ 360° Resolution: 3° Accuracy: $\pm 3^\circ$ Startup Wind Speed: $\leq 0.5\text{m/s}$ Working Condition: Temperature:-40°C-80°C Humidity: $\leq 100\%RH$
Wind Speed	Measuring Range: 0 ~ 70m/s Resolution: 0.1m/sAccuracy: $\pm(0.3+0.03V)\text{m/s}$ Startup Wind Speed: $\leq 0.5\text{m/s}$ Working Condition: Temperature:-40°C-80°C Humidity: $\leq 100\%RH$
Module Temperature	Measuring Range: -50°C ~ +80°C Resolution: 0.1°CAccuracy: $\pm 0.1^\circ\text{C}$ Working Condition: Temperature:-40°C-80°C Humidity: $\leq 100\%RH$
Stand	Height: 1.5m
Lighting Rod	Protection Diameter: 3m
Power Supply &Communication Junction Box	Power Supply: AC 230VCOM: RS485
IP Grade	IP65

# Product List

No.	Name	Description	Picture
1	Bracket	Bracket:1.5m; Expansion screwx3; Lightning arresterx1; Bakelitex1; Sensor holderx1	 1.5m Bracket  Expansion screw  Lightning arrester  Bakelite  Lightning line  Sensor holde

2	Irradiation sensor	Irradiation sensorx1	 Irradiation sensor  Certification
3	Integrated sensor	Integrated sensorx1 Junction box holderx2 Allen wrenchx1 CertificationX1 Introductionx1	 Integrated sensor  Junction box holde <small>(Wind speed, wind direction, temperature&amp;humidity)</small>  Allen wrench  Certification  Introduction
4	Connection box	Connection box+Chip temperature sensorx1 485 com linex1	 Connection Box+Chip temperature sensor  485 com line (20M)

# Installation Diagram



# Product Pictures

Irradiation sensor



Front View



Side View



Back View

Integrated sensor



Front View



Side View



Back View

Connection box



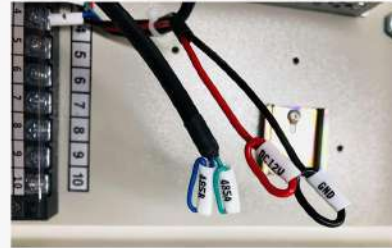
Front View



Back View



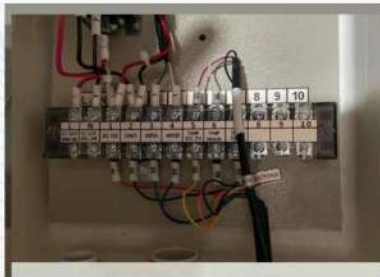
Internal View



DC12V with 485 com line



Connection box connector



Terminal Connection



Chip temperature sensor



Waterproof interface with a cut



Jam nut



Jam hole

Bracket



Side View



Front View

Accessory



Lightning line



Expansion screw M12x110mm



Junction box holder



Bakelite



Lightning arrester



Sensor holder



Allen wrench