Weather Station

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SOLARMAN weather station is specifically designed for PV system. It provides a comprehensive environmental monitoring solution for users including irradiance, ambient temperature and humidity, wind direction and speed, and module temperature. With the combination of accurate real-time data, durable products and powerful online platform, SOLARMAN helps users evaluate yield efficiency in a more comprehensive and convenient way.





enabling a comprehensive evaluation of system performance;



SOLARMAN platform provides



high demands);



Compatible with SOLARMAN data logger, ensuring simple configuration and lower O&M cost;



Real-time alerts with timely notification, ensuring fast troubleshoot;

Product Model	WP-2S
Irradiance (Sub-reference Level)	ISO 9060:1990 (Sub-reference Level) Sensitivity: $7 \sim 14\mu$ V/W/m2 Instability (Year): <0.5% Measuring Range: $0 \sim 4000$ W/m2 Spectral Range: $270 \sim 3000\mu$ m Zero Offset (No ventilation) (a) Thermal Irradiance (200W/m2): <7W/m2 (b) Temperature Variation (5K/h): <2W/m2 Nonlinear: <0.2% Directional Response (80°, 1000W/m2 at max.): <10W/m2 Spectral Selectivity (350 ~ 1500nm): <1% Tilt Response (0°-90°, 1000W/m2): <0.2% Temperature Response (-10°C ~ +40°C): <1% Visual Angle: 180°
Irradiance (Level 1)	Sensitivity: 7~14µV/W/m2 Instability (Year): ±2% Measuring Range: 0~2000W/m2 Cosine (Deviation between solar altitude angle 10° in sunny day and ideal value): ≤±2% Spectral Range: 0.28~3.0µm Temperature Characteristic (-20°C ~+40°C): ±2% Nonlinear: ±2% Visual Angle: 180° Measurement Accuracy: 2%
Irradiance (Level 2)	Sensitivity: 7~14µV/W/m2 Instability (Year): <2% Measuring Range: 0~2000W/m2 Cosine (Deviation between solar altitude angle 10° in sunny day and ideal value): ≤±5% Spectral Range: 0.28~3.0µm Temperature Characteristic (-20℃~+40℃): ±5% Nonlinear: ±5% Visual Angle: 180° Measurement Accuracy: 5%
Ambient Temperature	Measuring Range: -50.0 °C ~+80.0 °C Resolution: 0.1 °C Accuracy: ±0.1 °C Working Environment: Temperature -40 °C ~+80 °C Humidity ≤100%RH
Ambient Humidity	Measuring Range: 0.0~100.0%RH Resolution: 0.1%RH Accuracy: ±2% (≤80%), ±5% (>80%) Working Environment: Temperature -40℃ ~+80℃ Humidity ≤100%RH
Wind Direction	Measuring Range: 0~360° Resolution: 3° Accuracy: ±3° Startup Wind Speed: ≤0.5m/s Working Environment: Temperature -40℃~+80℃ Humidity ≤100%RH
Wind Speed	Measuring Range: 0~70m/s Resolution: 0.1m/s Accuracy: ±(0.3+0.03V)m/s Startup Wind Speed: ≤0.5m/s Working Environment: Temperature -40℃ ~+80℃ Humidity ≤100%RH
Module Temperature	Measuring Range: -50℃ ~+80℃ Resolution: 0.1℃ Accuracy: ±0.1℃ Working Environment: Temperature -40℃ ~+80℃ Humidity ≤100%RH
Height	1.5m
Power Supply&Communication Junction Box	Power: AC 230V, COM: RS485
IP Grade	IP65