

PHOTON SMART PYRANOMETERS SMS-100

Smart Silicon Pyranometers



- India's first smart Pyranometers *
- Smart microcontroller based *
- Sun-Spec compliant RS485 Modbus output can be read in any computer *
- ISO 9060:2018 Class C
- Industrial grade Si-Pyranometer
- Measuring Range of 0 ~ 2000W/m²
- UV resistant diffuser gives a cosine response at low solar elevation angles.
- Low temperature dependency
- Level adjusting mounting plate
- Ambient temperature & humidity measurement *
- Fast accurate solution for PV (PR) performance monitoring
- Outdoor IP 56 Enclosure
- In-built level indicator for both GHI and inclined installations
- Operating voltage - 5-12 VDC

Unique features,
first time in Pyranometers



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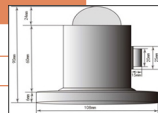
1. Irradiation Specifications

Operating temperature	-10°C~85°C (Humidity≤100%RH)
Measuring range	0~2000W/m ²
Spectral range	0.3~3μm
Resolution	1W/m ²
Humidity range	20% - 90%
Temperature & Humidity accuracy	<±1%
Response time	<2 s
Cosine response	<±10% (when the sun altitude angle 10°)



2. Electrical Specifications

Input	5-12V Dc
Max. allowed DC Voltage	14V DC
Max. Current	100mA
Output	RS 485 Modbus RTU Sun-Spec Compliant
Power consumption	0.55mW



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