

THERMOPILE PYRANOMETER



3S-TP-MB-A | Accurate GHI & POA Measurement | Class A Thermopile Pyranometer

High-precision thermopile pyranometer compliant with ISO 9060:2018 Class A and IEC 61724-1:2021 Class A, with Modbus RTU output.



ISO 9060:2018 Class A

High accuracy solar irradiance measurement.



IEC 61724-1:2021 Class A

Suitable for professional PV monitoring systems.



Status LED Indicators

Power, Rx and Tx LEDs for quick device status and communication monitoring.



0.5 s Fast Response

Rapid detection of solar irradiance changes.



RS485 Modbus RTU

Easy integration with data loggers and SCADA systems.



IP68 Outdoor Design

Designed for harsh environmental conditions.



Smart Internal Monitoring

Internal humidity, temperature, pressure and tilt angle measurement.



SunSpec Compliance

Compatible with SunSpec-based PV monitoring and data acquisition systems.

Technical Specifications

	3S-TP-MB-A
Sensor Type	Thermopile
Measured Irradiance	GHI / POA
Spectral Range	280 – 3000 nm
Irradiance Range	-20 ... +4000 W/m ²
Response Time	0,5 s
Resolution	0,1 W/m ²
Output	RS485 Modbus RTU
Supply Voltage	12 ... 30 V DC
Operating Temperature	-40°C to +85°C
IP Rating	IP68



Applications | PV Power Plants | Meteorological Stations | Environmental Monitoring

Reliable Field Operation

Built for accurate and stable solar irradiance measurement in demanding outdoor conditions.

- Low zero-offset performance
- Stable Class A measurement
- Anodized aluminum housing
- UV & weather-resistant PUR cable
- Internal humidity monitoring
- Easy integration with PV monitoring systems



Related Products

Thermopile Albedometer **3S-TP-ALBEDO-A**



For simultaneous incoming and reflected solar irradiance measurement. Ideal for albedo analysis in PV power plants, meteorological stations and environmental monitoring applications.

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