

RT1

Rooftop PV Monitoring Sensor

RT1 is a small, fully weatherproof duo-sensor that independently measures the incoming solar irradiance and the back panel temperature. Thanks to this included back panel temperature sensor you collect all the data you need to monitor the performance of your installation - all in digital Modbus® format. Thanks to the unique design you can easily fix it to your PV panel without the need for any tools.





Designed especially for commercial rooftop PV installations



Measures incoming solar irradiance and back panel temperature



Soiling resistant design, low maintenance



Simple to mount and easy to remove for recalibration

Technical specifications

Irradiance	0 to 2000 W/m ²
Precision / resolution	1 W/m ²
Spectral range	400 to 1100 nm
Non-stability (change / year)	< 1 %
Non-linearity (0 to 1000 W/m²)	< 1 %
PV panel temperature	-20 to +100 °C, ± 1 °C
Calibration	against traceable reference pyranometer
Signal connections	1 - RS-485 Modbus® to host 2 - PV panel temperature sensor
Voltage range	5 to 30 V DC
Power consumption maximum	60 mW
Ambient operating temperature	-40 to +80 °C
Recommended calibration interval	2 years
Standard warranty	2 years



ISO Quality Certified Company

All specifications are subject to change without prior notice.
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