

sun[e] Modbus Pyranometer

POSSIBLE APPLICATIONS

- Meteorology
- Building automation
- Solar power systems
- Industry

Digital "Secondary Standard" pyranometer

The sun[e] Modbus offers maximum accuracy and maximum data availability: With new ventilation and heating technology, the sun[e] Modbus outperforms all pyranometers equipped with conventional ventilation systems. sun[e] Modbus is the ideal instrument for use in performance monitoring of PV systems and in meteorological networks. It measures the solar radiation received by a flat surface in W/m^2 from a viewing angle of 180° .

- Heated for optimal data availability
- New technology surpasses conventional pyranometer ventilation
- In the standard configuration, compliant with the requirements for Class A PV monitoring systems of IEC 61724-1:2017



PRODUCT OVERVIEW

sun[e] Modbus Pyranometer

Professional Line	sun[e] Modbus
Ident-No.	00.16130.501030
Measuring ranges	-400...4000 W/m ² global radiation in the spectral range 285...3000 nm
Directional response	< ± 10 W/m ²
Resolution	0.05 W/m ²
Spectral sensitivity	< ± 3% (0.35...1.5 µm); slope error < ± 0.2 %
Response time	3 s (95%)
Nonlinearity	< ± 0.2% (100...1000 W/m ²)
Output	Modbus RTU
Areas of application	Temperatures -40...+80 °C
Supply voltage	24 VDC (8...30 VDC)
Power consumption	Approx. 2.3 W
Measuring elements	Thermos flask
Measuring principle	Thermal differential measurement
Dimensions	Max. Ø 92 mm; approx. H 95 mm
Protection class	IP67
Weight	Approx. 0.64 kg
Standards and norms	ISO 9060 "Secondary Standard"
Accessories (order separately)	32.14567.060010 Sensor cable, 15 m, 4-pin, M12 plug 32.14567.060000 Sensor cable, 12 m, 4-pin, M12 plug

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