

## PYRANOMETER "sun[e] Modbus"

## **Global Radiation**

## Digital "Secondary Standard" **Pyranometer**

The sun[e] Modbus offers the highest accuracy and highest data availability: using new ventilation and heating technology, the sun[e] Modbus outperforms all pyranometers equipped with traditional ventilation systems.

sun[e] Modbus is the ideal instrument for use in PV system performance monitoring and meteorological networks.

It measures the solar radiation received by a plane surface, in W/m<sup>2</sup>, from a 180° field of view angle.

- · heated for best data availability
- new technology outperforms traditional pyranometer ventilation
- compliant in its standard configuration with the requirements for Class A PV monitoring systems of the IEC 61724-1:2017

professional meteorological applications • building automation • photovoltaic systems • industrial meteorology









Professional Line	Pyranometer sun[e] Modbus	Id-No. 00.16130.501 030
Meas. element/ -principle:	thermopile • thermal difference measurement	
Measuring range:	-4004000 W/m² • global radiation within a range of 2853000 nm	
Range of application:	temperatures -40+80 °C	
Spectral sensitivity:	$< \pm 3 \%$ (0.351.5 $\mu$ m) • tilt deviation $< \pm 2 \%$	
Non-linearity:	< ± 0.2 % (1001000 w/m²)	
Resolution:	0.05 W/m <sup>2</sup>	
Output:	Modbus RTU	
Power supply:	24 VDC (830 VDC)	
Power requirement:	approx. 2.3 W	
Response time:	3 s (95 %)	
Directional answer:	< ± 10 W/m <sup>2</sup>	
Dimensions/ Weight:	max. Ø 92 mm · approx. H 95 mm • approx. 0.64 kg	
Standards:	ISO 9060 "Secondary Standard" • IP67	

