

## sun[e] Modbus PYRANOMETER



### 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  $W/m^2$ , from a  $180^\circ$  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

### APPLICATIONS

- Meteorology
- Building automation
- Photovoltaic systems
- Industry

Professional Line	sun[e] Modbus
Id-No.	00.16130.501030
Measuring range	-400...4000 $W/m^2$ ; global radiation within a range of 285...3000 nm
Directional answer	$< \pm 10 W/m^2$
Resolution	0.05 $W/m^2$
Spectral sensitivity	$< \pm 3\%$ (0.35...1.5 $\mu m$ ); tilt deviation $< \pm 2\%$
Response time	3 s (95 %)
Non-linearity	$< \pm 0.2\%$ (100...1000 $w/m^2$ )
Output	Modbus RTU
Range of application	Temperatures -40...+80 °C
Supply voltage	24 VDC (8...30 VDC)
Power consumption	Approx. 2.3 W
Measuring elements	Thermopile
Measuring principle	Thermal difference measurement
Dimensions	Max. $\varnothing$ 92 mm; approx. H 95 mm
Protection class	IP67
Weight	Approx. 0.64 kg
Standards	ISO 9060 "Secondary Standard"
Accessories (order separately)	32.14567.060010 Sensor cable, 15 m, 4 pole, M12 plug 32.14567.060000 Sensor cable, 12 m, 4 pole, M12 plug