

16103-Modbus PYRANOMETER



ISO 9060 "Second Class"

Meets the requirements of ISO 9060 "Second Class". The 16103-Modbus pyranometer is ideal for solar radiation measurements in meteorological networks and PV monitoring systems. It measures solar radiation received by a plane surface, in W/m^2 , from a 180° field of view angle. The 16103-Modbus employs a thermopile sensor with black coated surface, one dome and an anodised aluminium body with visible bubble level.

- ISO 9060 "Second Class"
- With Modbus over RS485 and analogue 0-1 V output
- Easy mounting and levelling
- Ideal for PV power plant monitoring

APPLICATIONS

- Professional meteorological applications
- Building automation
- Photovoltaic systems
- Industrial meteorology

Professional Line	16103-Modbus
Id-No.	00.16103.501060
Measuring range	0...2000 W/m^2 ; global radiation within a range of 285...3000 nm
Directional answer	$< \pm 25 W/m^2$
Resolution	0.2 W/m^2
Response time	$< 18 s$ (95 %)
Non-linearity	$< \pm 1 \%$ (100...1000 W/m^2)
Output	Modbus RTU (RS485); analogue output 0-1 V
Range of application	$-40...+80^\circ C$
Supply voltage	24 V (5...30 VDC)
Power consumption	75 mW
Measuring elements	Thermopile with high-quality thermo-electric cells
Measuring principle	Thermal
Dimensions	Approx. $\varnothing 56$ mm (without plug); H 80 mm (without adapter)
Protection class	IP 67
Weight	Approx. 0.3 kg
Standards	ISO 9060 "Second Class"; Certificate of Sensitivity (included); ISO 9847
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 32.14627.006000 Ball Level for mounting on traverse system 14627 32.16103.500010 Ball Level Set for tube and panel mounting