

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	$\pm 25 \text{ W/m}^2$
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 °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. Ø 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 0-Ball Level Set for tube and panel mounting

