PRODUCT-VIEW

LAMBRECHT meteo

AN aem BRAND

16131.5-Modbus PYRANOMETER

"First Class" Pyranometer

16131.5 digital pyranometer series is a range of high-accuracy digital solar radiation sensors.

It is "First Class" according to the WMO guide and ISO 9060:1990 standard and "Spectrally Flat Class B" in the 2018 revision.

Version 00.16131.501030, equipped with an on-board heater, is compliant in its standard confi guration with the requirements for "Class B" PV monitoring systems of the IEC 61724-1:2017 standard.

The 16131.5 measures the solar radiation received by a plane surface, in W/m^2, from a 180° field of view angle. Various outputs are available, both digital and analogue, for ease of integration.

- best measurement accuracy in "First Class"
- improved response time
- with 00.16131.501030's on-board heater: compliant with IEC 61724-1 Class B in its standard configuration

APPLICATIONS

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

Professional Line	16131.5-Modbus
Id-No.	00.16131.501030
Measuring range	0...3000 W/m^2 · global radiation within a range of 285...3000 nm
Directional answer	< ± 20 W/m^2
Resolution	0.01 W/m^2
Spectral sensitivity	< ± 3 % (0.35...1.5 µm)
Response time	< 10 s (95 %)
Inclination error	< ± 2 %
Non-linearity	< ± 1 % (100...1000 w/m^2)
Output	Modbus RTU
Range of application	-40...+80 °C
Power supply	24 VDC (8...30 VDC)
Power consumption	< 48 mW (at 12 VDC)
Measuring elements	thermopile
Measuring principle	thermal difference measurement
Dimensions	max. Ø 92 mm · approx. H 95 mm
Protection class	IP67
Weight	approx. 0.64 kg
Standards	ISO 9060 „First Class"
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

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