

Pyranometer EKO MS-60



ISO 9060 Spectrally flat Class B + IEC 17025 calibrated

Description

- ISO 9060 Spectrally flat Class B + IEC 17025 calibrated
- 5-year warranty
- MS-60 with analog voltage output.

The new double dome constructions provides lower offsets and cosine errors. The MS-60 can be used with the optional MV-01 ventilator / heater.

The MS-60 pyranometers are manufactured in a consistent way followed by strict quality inspection and performance evaluation. EKO provides a unique calibration compliant to the international standards defined by ISO/IEC17025/9847.

The sensor has a 5 years warranty with a 2 years re-calibration interval recommended and it is no longer necessary to change the desiccant.

Specifications

Classification	ISO 9060 First Class
Output	Voltage (mV)
Sensitivity	7 ... 16 $\mu\text{V}/\text{W}/\text{m}^2$
Resolution	-
Wavelength range	285 ... 3000 nm
Max. irradiance	2000 W/m^2
Response time (95%)	< 18 s
Zero offset	
(a) thermal radiation (200 W/m^2)	< 5 W/m^2
(b) temperature change (5k/hr)	$\pm 2 \text{ W}/\text{m}^2$
Non-linearity @ 1000 W/m^2	$\pm 1 \%$

Classification	ISO 9060 First Class
Non-stability change/1 year	± 1.5 %
Direction response @ 1000 W/m ²	± 18 W/m ²
Temperature response (-10 ... +40°C)	< 3 %
Temperature response (-20 ... +50°C)	< 4 %
Tilt response @ 1000 W/m ²	± 1 %
Impedance @ 25°C	60 ... 100 Ω
Operating temperature	-40 ... +80 °C
Power supply	
Power consumption	
Cable length	10 m
Weight	0.35 kg
Protection class	IP67
Warranty	5 years
Manufacturer	EKO Instruments
Accessory	MV-01 ventilator / heater (Order-No. S64060)

Delivery includes IEC 17025 calibration certificate.

Sensor connection diagram

Connecting EKO MS-60 to Ammonit Meteo-40 data loggers

MS-60

Sensor	Wire Colour (EKO)	Meteo-40 Analog Voltage
Solar irradiance	brown (+)	Ax
Output voltage	white (-)	Bx
	shield	Earth

