

Pyranometer EKO MS-60S



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 9060:2018 Class A + IEC 17025 calibration		
	ISO 9060:1990 Secondary Standard		
	Current Output 0 ... 10 mA	Current Output 4 ... 20 mA	Modbus RTU via RS485
Typical Sensitivity	10 $\mu\text{V}/\text{W}/\text{m}^2$		
Wavelength range	285 ... 3 000 nm		
Max. operational irradiance	2 000 W/m^2		
Measurement range of irradiance	0 ... 1 600 W/m^2		
Response time (95%)	< 18 s		

Classification	ISO 9060:2018 Class A + IEC 17025 calibration ISO 9060:1990 Secondary Standard		
Zero offset			
(a) 200 W/m ²	± 5 W/m ²		
(b) 5 k/hr	± 2 W/m ²		
(c) complete	± 7 W/m ²		
Non-linearity at 1 000 W/m ²	± 1 %		
Non-stability change/1 year	± 1.5 %		
Directional response at 1 000 W/m ²	± 18 W/m ²		
Spectral error	± 0.2%		
Temperature response (-10 ... +40°C)	± 2 %		
Temperature response (-20 ... +50°C)	± 4 %		
Tilt response @ 1000 W/m ²	± 1 %		
Operating temperature	-40 ... +80 °C		
Power supply	5 ... 30 VDC	5 ... 30 VDC	5 ... 30 VDC
Power consumption	<0.2 W	<0.2 W	<0.2 W
Cable length	10 m		
Protection class	IP67		
Warranty	5 years		
Manufacturer	EKO Instruments		
Accessory	MS Albedo Mounting Kit		
	M83570		
	M83750		
	Precision Shunt 100 Ω		
	MV-01 ventilator / heater (Order-No. S64060)		

Delivery includes IEC 17025 calibration certificate.

Sensor connection diagram

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

Analog Current (0 ... 10 mA or 4 ... 20 mA)

