



MS-802 Pyranometer

Technical Specifications

ISO 9060:2018 Class A (Secondary standard)

Sub-category "Spectrally flat"

Temperature compensation

5 years warranty

MS-802F with ventilation

The MS-802 ISO 9060:2018 Class A (Secondary standard) pyranometer is a reliable reference sensor to measure global broad-band radiation with high precision. It is used as a standard in PV research and climatological studies around the world.

A high quality double-dome construction is adopted to improve the accuracy of the measurement and to minimize unwanted thermal offsets. The ventilation unit of the MS-802F model will reduce the deposition of dust, dew, frost, snow.

The MS-802 pyranometers are manufactured in a consistent way followed by strict quality inspection and performance evaluation. For each sensor the directional response and temperature dependency are measured and validated through a measurement report that comes with the sensor. EKO provides a unique calibration compliant to the international standards defined by ISO9847.

	MS-802
ISO 9060:2018	Class A
ISO 9060:1990	(Secondary Standard)
Sub-category "Spectrally flat"	Compliant
Sub-category "Fast response"	Not compliant
Output	Analog (mV)
Response time 95%	< 5 Sec.
Zero off-set a) 200W/m ²	< 6 W/m ²
Zero off-set b) 5K/hr	+/- 2 W/m ²
Non-stability change/1 year	+/- 0.5 %
Non-linearity at 1000W/m ²	+/- 0.2 %
Directional response at 1000W/m ²	+/- 10 W/m ²
Spectral error	+/- 0.23 %
Temperature response -10°C to 40°C	+/- 1 %
Temperature response -20°C to 50°C	+/- 1 %
Tilt response at 1000W/m ²	+/- 0.2 %
Sensitivity	Approx. 7 μV/W/m ²
Impedance	Approx. 500 Ω
Operating temperature range	-40 - 80 °C
Irradiance range	0 - 4000 W/m ²
Wavelength range	285 - 3000 nm
Ingress protection IP	67
Cable length	10 m

Options	MS-802
Cable length	20 / 30 / 50 m
Ventilation unit	MS-802F

Specifications are subject to change without further notice.



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