



MS-402 Pyranometer

Technical Specifications

ISO 9060 First class

Low temperature dependency

5 years warranty

The MS-402 Pyranometer is a unique ISO First class pyranometer and best in its category. As the only first class sensor available on the market it has a built in electronic passive temperature compensating to linearize the detector temperature coefficient and make it accurate under all temperature conditions.

The two high-quality glass domes protect the detector efficiently from any thermal effects. The MS-402 is the only temperature-compensated First Class pyranometer on the market.

The design of the MS-402 First Class Pyranometer is very similar to the Secondary standard MS-802. Its robust brass mechanical construction makes it a durable sensor suitable to be used in harsh environments for routine global irradiance measurements. The MS-402 can be applied as multi purpose high quality monitoring sensor in the PV and Meteorological market. MS-402F is a MS-402 with 110VAC/12 VDC ventilation system to prevent any

possible influence of frost, snow and dust.

The MS-402 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/IEC9847.

	MS-402
ISO 9060:1990	First Class
Output	Analog (mV)
Response time 95%	< 8 Sec.
Zero off-set a) 200W/m²	< 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/m²	+/- 0.2 %
Directional response at 1000W/m²	< 20 W/m ²
Spectral selectivity 0.35-1.5µm	-
Temperature response -10°C to 40°C	+/- 1 %
Tilt response at 1000W/m²	+/- 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-402
Cable length	20 / 30 / 50 m

Specifications are subject to change without further notice.