



MS-410 Pyranometer

Technical Specifications

ISO 9060 First class

Double dome for lower zero offset

Balance costs and quality

ISO 17025 certified calibration

5 years warranty

The MS-410 First class pyranometer made for routine global solar radiation measurements. The MS-410 is perfectly suited for sampling 10-minute averages of the solar radiative flux in horizontal or tilted configurations. It is fully compliant with the ISO9060 "First Class" norm. The flat sensor surface, coated with a special, highly absorbing black paint, is protected by two transparent hemispheric glass domes. The MS-410 has a practical light-weight anodized aluminum housing and a stable low TC detector. These features, together with the two, high quality machined hemispheric glass domes are the key to the excellent performance characteristics of the MS-410.

The MS-410 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.

	MS-410
ISO 9060:2018	First Class
Output	Analog (mV)
Response time 95%	< 18 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	+/- 1.5 %
Non-linearity at 1000W/m²	+/- 1 %
Directional response at 1000W/m²	< 20 W/m ²
Spectral selectivity 0.35-1.5µm	-
Temperature response -10°C to 40°C	+/- 2 %
Tilt response at 1000W/m²	< 2 %
Sensitivity	Approx. 10 µV/W/m ²
Impedance	140 Ω
Operating temperature range	-40 - 80 °C
Irradiance range	0 - 2000 W/m ²
Wavelength range	285 - 3000 nm (50% points)
Ingress protection IP	67
Cable length	10 m

Options	MS-410
Cable length	20 / 30 / 50 m

Specifications are subject to change without further notice.