

Silicon Pyranometer EKO ML-01

ISO 9060 Class C, fast response



Description

- ML-01 Si-pyranometer complies to ISO 9060-2018 "Fast response class C" and is made for high quality irradiance measurements.
- The ML-01 is an industrial grade solar sensor specially made for irradiance measurement applications for meteorological and environmental studies.

For global horizontal measurement applications, the sensor can be mounted in the horizontal position with a standard removable mounting plate with a spirit level and leveling feet.

The Mono-Silicon detector with UV resistant diffuser gives a cosine response also at low solar elevation angles. Besides the effects of soiling or water deposition on top of the diffuser will be minimized due to the cone shape geometry.

EKO provides a unique calibration compliant to the international standards defined by ISO/IEC17025/9847. The sensor has 2 years warranty with 2 years re-calibration interval are recommended

Specifications

Measurement Range	0 ☐ 2000 W/m ²
Spectral range	400 ☐ 1100 nm
Response time	<1 ms
Sensitivity (approx.)	50 μV/W☐m ⁻²
Output (0 to 100mV Range)	0 ☐ 100 mV
Internal Resistance (approx.)	48 Ω
Operating Temperature	-30 ☐ +70 °C
Temperature Dependency	< 0.15 %/°C
Directional Response (0 to 80°)	<± 5 %
Field of view	180°

Stability	<± 2 %/year
Dimension	ø22 x 28.5 mm
Weight	30 g