

Silicon Pyranometer EKO ML-01

S64350



Silicon Pyranometer EKO ML-01

Order number	Availability
S64350	On request

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

Silicon Pyranometer EKO ML-01

General Information

Order Number	S64350
--------------	--------

Specifications

Measurement Range	0 ~ 2000 W/m ²
-------------------	---------------------------

Spectral Range	400 ~ 1100 nm
----------------	---------------

Response Time	<1 ms
---------------	-------

Sensitivity (approx.)	50 μ V/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°)	$\pm$ 5 %
---------------------------------	-----------

Field of View	180°
---------------	------

Stability	$\pm$ 2 %/year
-----------	----------------

Dimension	$\varnothing$ 22 x 28.5 mm
-----------	----------------------------

Weight	30 g
--------	------

Sensor connection diagram

Sensor connection diagram to Ammonit Meteo-42 Data Logger

