

SMALL SENSOR ML-01



Small sensor, great performance

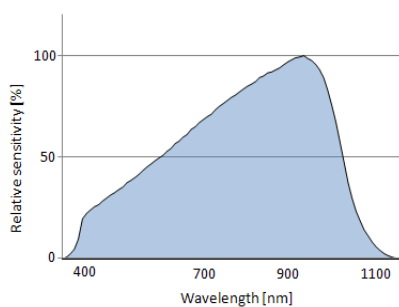
The ML-01 is an industrial grade solar sensor made for PV performance ratio measurements. Due to the compact dimensions of the sensor it can be easily integrated into any application.



The Si-photodiode sensor ML-01 is the link between reference cells and broadband thermopile pyranometers. Compared to the reference cells it has a proper cosine response and it is more compact. Moreover, it also benefits from the same characteristics as a PV module (response time, spectral and temperature response).

Due to its cone shaped diffuser, the ML-01 has a proper response to the incoming radiation at low solar elevation angles. This shape also minimizes soiling effects which could alter the quality of the measurement.

ML-01 is calibrated according to the international calibration method applied to PV reference cells (25°C / AM1.5G / 1000W/m², AAA Solar Simulator IEC 60904-3 Spectral distribution).



Spectral characteristics

Features

- Same spectral response as a PV module
- Low temperature dependency
- Fast response photodiode detector
- Small and lightweight
- Optimized directional response function
- Mounting plate with spirit level

Specifications

	ML-01
Spectral response	400 - 1100nm (Mono-Crystalline)
Measuring range	0~2000 W/m ²
Output (0~100mV Range)	0~100mV
Response time	< 1ms
Operating temperature	-30~+70°C
Temperature dependency (-10~+40°C)	< 3%
Directional response (0~80°)	< ±5%
Field of View	180°
Non-stability	< 2%/year
Output cable	5m for standard version (10m, 30m, or 50m also available)