

NEW**EKO**ISO9001
CERTIFIED
JQA 2471

UPGRADED PYRANOMETERS

MS-802 / MS-64

ISO Secondary Standard

ISO First Class

Newly developed, the MS-802 and MS-64 are high precision pyranometers designed to measure global (horizontal) and hemispherical (at any incident angle) solar irradiance in conformity with the requirements a Secondary Standard and a First Class pyranometer, respectively, as specified in ISO 9060.

These pyranometers are upgraded models of the current MS-801 and MS-63 instruments, and provide high performance measurements never before possible.



We are pleased to introduce the following improvements:

- Minimized temperature response by employing a new type of thermopile.
- We have achieved stable, high-quality products at low prices by simplifying the thermal design, including the thermopile.
- A sun shade has been added to both instruments to prevent excessive heat build-up in the instruments' bodies.
- Using a newly developed manufacturing process, we have achieved improved thickness control of the instrument's domes, which contributes to more stable angular response characteristics in both instruments.
- Light-weight bodies for greater user friendliness.

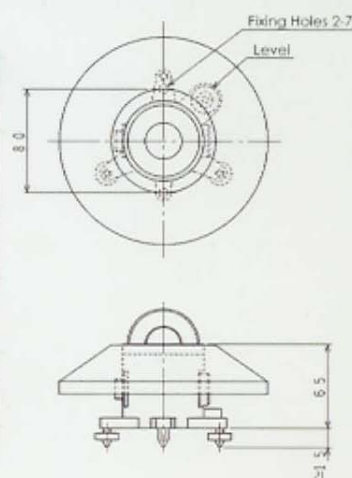
SPECIFICATIONS

Calibration Constant: about 7.0 mV/kW/m²
Internal Resistance: about 500Ω

	MS-802	ISO Secondary Standard	MS-64	ISO First Class
Response Time (95%)	5 sec	< 15 sec	8 sec	< 30 sec
Zero Off-set				
a) Response to 200 W/m ² net thermal radiation (ventilated)	+ 4 ~ 5 W/m ²	+ 7 W/m ²	+ 6 W/m ²	+15 W/m ²
b) Response to 5Kh ⁻¹ change in ambient temperature	± 2 W/m ²	± 2 W/m ²	± 2 W/m ²	± 4 W/m ²
Non-Stability				
Percentage change in responsivity per year	± 0.5 %	± 0.8 %	± 0.5 %	± 1.5 %
Non-Linearity (100 ~ 1000 W/m ²)	± 0.2 %	± 0.5 %	± 0.2 %	± 1 %
Directional Response (1000 W/m ²)	± 10 W/m ²	± 10 W/m ²	± 20 W/m ²	± 20 W/m ²
Spectral Response (0.35 ~ 1.5 μm)	± 2.1 %	± 3 %	± 2.1 %	± 5 %
Temperature Response (for 50 °C band)	< 1 %	2 %	< 1 %	4 %
Tilt Response (0 ~ 90° at 1000 W/m ²)	<± 0.2 %	± 0.5 %	<± 0.2 %	± 2 %

Specifications are subject to change without notice.

OUTER FIGURES

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