# **MS-802** Pyranometer

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The MS-802 Secondary Standard Pyranometer is the ultimate reference sensor to measure global solar irradiance with the highest precision. Its robust brass mechanical construction makes it a durable sensor suitable to be used in harsh environments. The MS-802 is used as standard for PV research and climatol-ogy studies around the world.

In combination with a Sun tracker (STR-series) or manual shading ring (RSR-01), respectively the Global Normal Incidence (GNI) and Diffuse (DHI) irradiance can be measured. The MS-802F is a MS-802 with integrated ventilator unit to improve the performance under various environmental conditions (prevents or minimizes the effect of dew, rain, snow, ice and dust).

## **Features**

- Secondary Standard Pyranometer
- Fast Response Time (95% < 5S)
- Temperature Compensated In A
  Wide Temperature Range
- High Quality Optical Glass Domes
  For Proper Cosine Response
- MS-802F is an MS-802 with a 110 VAC/12 VDC Ventilation System To Prevent Any Possible Influince Of Frost, Snow And Dust



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## **Specs**

Specifications (typical) ISO 9060 classification Response time 95% (sec) Zero offset - Thermal radiation (200W/m<sup>2</sup>) Zero offset - Temperature change (5K/hr) Non-stability (change/year) Non-linearity (at 1000W/m<sup>2</sup>) Directional response (at 1000W/m<sup>2</sup>) Spectral selectivity (0.35-1.5µm) Temp. response (for 50°C band) Tilt response (at 1000W/m<sup>2</sup>) Sensitivity (µV/W • m-2) Impedance ( $\Omega$ ) Operating temperature range (°C) Irradiance range (W/m2) Cable length Wavelength range

## MS-802 / MS-802F Secondary Standard < 5 $< 6 W/m^{2}$ $< 2 W/m^{2}$ < 0.5 % < 0.2 % < 10 W/m<sup>2</sup> < 1 % < 1 % < 0.2 % Approx. 7 Approx. 500 - 40 to +80 0 - 4000 W/m2 10m 285 to 3000 nm

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