

MS-402 Pyranometer

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The MS-402 Pyranometer is a unique ISO First class pyranometer and best in its category. As the only first class sensor available on the market it has a built in electronic passive temperature compensating to linearize the detector temperature coefficient and make it accurate under all temperature conditions.

The design of the MS-402 First Class Pyranometer is very similar to the Secondary standard MS-802. Its robust brass mechanical construction makes it a durable sensor suitable to be used in harsh environments for routine global irradiance measurements. The MS-402 can be applied as multi purpose high quality monitoring sensor in the PV and Meteorological market. MS-402F is a MS-402 with 110VAC/12 VDC ventilation system to prevent any possible influence of frost, snow and dust.

Features

- Most accurate first Class Pyranometer
- Reponse time (95% < 8s)
- Temperature compensated <1% (for 50°C band)
- Near Secondary standard specifications



Specs

Specifications (typical)

ISO 9060 classification

Response time 95% (sec)

Zero offset - Thermal radiation (200W/m²)

Zero offset - Temperature change (5K/hr)

Non-stability (change/year)

Non-linearity (at 1000W/m²)

Directional response (at 1000W/m²)

Spectral selectivity (0.35-1.5μm)

Temp. response (for 50°C band)

Tilt response (at 1000W/m²)

Sensitivity (μV/W•m-2)

Impedance (Ω)

Operating temperature range (°C)

Cable length

Wavelength range

MS-402 / MS-402F

First Class

8

< 6 W/m²

< 2 W/m²

< 0.5 %

< 0.2 %

< 20 W/m²

< 1 %

< 1 %

< 0.2 %

Approx. 7

Approx. 500

- 40 to +80

10m

285 to 3000 nm