

MS-410 Pyranometer

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The MS-410 pyranometer measures the broad-band global solar irradiance. The MS-410 is perfectly suited for sampling 10-minute averages of the solar radiative flux in horizontal or tilted configurations. It is fully compliant with the ISO9060 "First Class" norm. The flat sensor surface, coated with a special, highly absorbing black paint, is protected by two transparent hemispheric glass domes. The MS-410 has a practical light-weight anodized aluminum housing and a stable low TC detector. These features, together with the two, high quality machined hemispheric glass domes are the key to the excellent performance characteristics of the MS-410.

Features

- First Class Pyranometer
- Light weight Aluminium housing
- Double dome gives low zero offset
- Typical network sensor
- Perfect balance between cost-effectiveness and quality.



Specs

Specifications (Typical)	MS-410
ISO 9060 classification	First Class
Response time 95% (sec)	18
Zero offset - Thermal radiation (200W/m ²)	< 6 W/m ²
Zero offset - Temperature change (5K/hr)	< 2 W/m ²
Non-stability (change/year)	< 1.5 %
Non-linearity (at 1000W/m ²)	< 1 %
Directional response (at 1000W/m ²)	< 20 W/m ²
Spectral selectivity (0.35-1.5μm)	< 1 %
Temp. response (for 50°C band)	< 2 %
Tilt response (at 1000W/m ²)	< 2 %
Sensitivity (μV/W□m-2)	Approx. 7~14
Impedance (Ω)	Approx. 20~140
Operating temperature range (°C)	- 40 to +80
Irradiance range (W/m ²)	0 - 4000 W/m ²
Cable length	10m
Wavelength range	285 to 3000 nm