

Meteo M&R

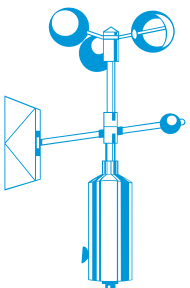
radiation & light



CMP6 pyranometer

FOR ROUTINE GLOBAL SOLAR RADIATION
MEASUREMENT RESEARCH
ON A PLANE/LEVEL SURFACE

Fully compliant with ISO-9060 specification for a First Class pyranometer, the CMP 6 features a sixty-four thermocouple junction (series connected) sensing element.



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The CMP 6 pyranometer is intended for routine global solar radiation measurement research on a plane/level surface.

Fully compliant with ISO-9060 specification for a First Class pyranometer, the CMP 6 features a sixty-four thermocouple junction (series connected) sensing element. The sensing element is coated with a highly stable carbon based non organic coating, which delivers excellent spectral absorption and long term stability characteristics.

CMP 6 has a similar detector to the CMP 3, but has improved performance due to the increased thermal mass and the double glass dome construction. It is ideal for cost-effective, good quality, measurements in hydrological networks and agriculture.

The integral bubble level is raised to the top of the housing and can be viewed without removing the re-designed snap-on sun shield, which also covers the connector. The connector with gold-plated contacts allows for easy exchange and re-calibration. The screw-in drying cartridge can be removed by simply using a coin, for replacement of the desiccant that is supplied in convenient refill packets.

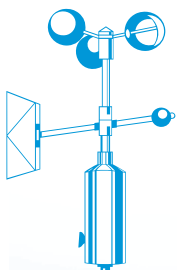


Features

- Low dome thermal offset error
- Good cosine/ directional response
- Excellent long term stability
- Good linearity performance

TECHNICAL SPECIFICATIONS

Spectral range	310 to 2800 nm
Sensitivity	5 to 20 $\mu\text{V}/\text{W}/\text{m}^2$
Response time	18 s
Zero offset A	$\pm 15 \text{ W}/\text{m}^2$
Zero offset B	$\pm 5 \text{ W}/\text{m}^2$
Directional error (Upto 80 ° with 1000 W/m^2 beam)	$\pm 20 \text{ W}/\text{m}^2$
Temperature dependence of sensitivity (-10 °C to +40 °C)	$\pm 5 \%$
Operating temperature range	-40 °C to +80 °C
Maximum solar irradiance	4000 W/m^2
Field of view	180 °



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