

CMP6 Solar Radiation Sensor



Features/Benefits

- First Class standard (ISO 9060/WMO)
- Reliable all weather performance
- For atmospheric research and meteorology

The CMP6 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 CMP6 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.

CMP6 has improved performance due to the increased thermal mass and the double glass dome construction. It is ideal for good quality measurements in meteorological networks.

The integral bubble level is raised to the top of the housing and can be viewed without removing the redesigned 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 is easy to remove and the replacement desiccant is supplied in convenient refill packets.

Technical data

General

Spectral range	285 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	$\pm 4 \text{ W}/\text{m}^2$
Directional error (up to 80 ° with 1000 W/m^2 beam)	$< 20 \text{ W}/\text{m}^2$
Temperature dependence of sensitivity (-10 °C to +40 °C)	$\pm 4 \%$
Operating temperature range	-40 °C to +80 °C
Maximum solar irradiance	2000 W/m^2
Field of view	180 °