



Kipp & Zonen CMP6 Pyranometer

Product Images



Short Description

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

Description

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

The CMP 6 features a sixty-four thermocouple junction (series connected) sensing element and is fully compliant with the ISO 9060:1990 specification for a First Class pyranometer. The sensing element is coated with a highly stable carbon based non organic coating, which delivers excellent spectral absorption and long term stability characteristics.

The CMP 6 has a similar detector to the CMP 3, but benefits from 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 screw-in drying cartridge is easy to remove and the replacement desiccant is supplied in convenient refill packets.

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 Pyranometer does not require any power, it supplies a low voltage of 0-20mV in relation to the amount of incoming radiation. When a higher voltage level or a 4-20mA signal is required, the AMPBOX is the perfect solution.

Product Specification:

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 < 12 W/m^2

Zero offset B < 4 W/m^2

Directional error (up to 80 ° with 1000 W/m^2 beam) < 20 W/m^2

Temperature dependence of sensitivity (-10 °C to +40 °C) < 4 %

Operating temperature range -40 °C to +80 °C

Maximum solar irradiance 2000 W/m^2

Field of view 180 °

Additional Information

Brand	Kipp & Zonen
Typical applications	Energy, Environmental (Outdoor), Non Specific, Weather Monitoring
Measurements	Solar Radiation