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Kipp & Zonen CMP11 Pyranometer

Product Images

Short Description

The CMP 11 pyranometer from Kipp & Zonen uses the same temperature compensated detector technology originally developed for the CMP 22 and offers a step up in performance from the CMP 6.

Description

The CMP 11 pyranometer from Kipp & Zonen uses the same temperature compensated detector technology originally developed for the CMP 22 and offers a step up in performance from the CMP 6. The reduced response time of 1.66 seconds (63%) meets the requirements for solar energy applications and is particularly suitable for meteorological networks.

A waterproof socket is fitted for the signature yellow signal cable, which is available in a range of lengths pre-wired to the waterproof plug.

The integral bubble level is raised to the top of the housing allowing it to be viewed without removing the redesigned snap-on sun shield, which also covers the connector. The connector has gold-plated contacts allowing for easy exchange and re-calibration. The screw-in drying cartridge is also easy to remove and the replacement desiccant is supplied in convenient refill packets.

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

Product Specification:

Spectral range 285 to 2800 nm
Sensitivity 7 to 14 µV/W/m²
Response time < 5 s
Zero offset A < 7 W/m²
Zero offset B < 2 W/m²
Directional error (up to 80 ° with 1000 W/m² beam) < 10 W/m²
Temperature dependence of sensitivity (-10 ºC to +40 ºC) < 1 %
Operating temperature range -40 °C to +80 °C
Maximum solar irradiance 4000 W/m²
Field of view 180 °

Additional Information

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