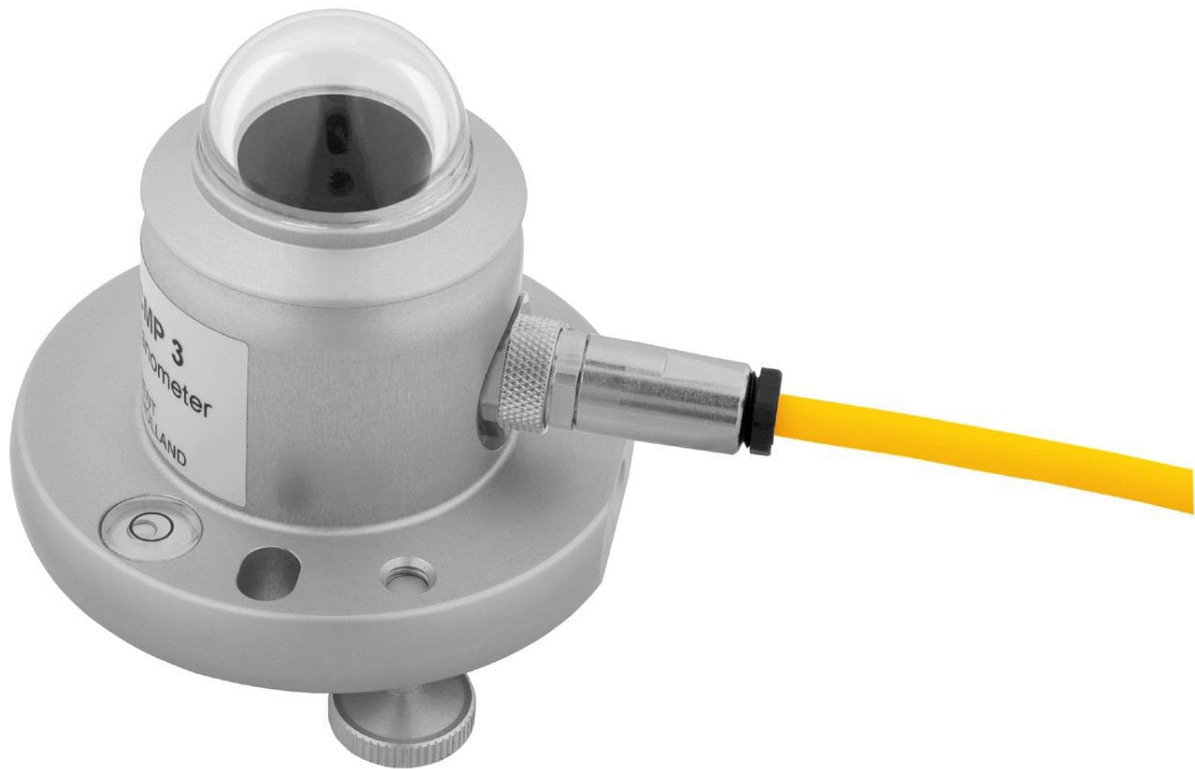




Kipp & Zonen CMP3 Pyranometer

Product Images



Short Description

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Description

The CMP 3 pyranometer is designed to be used continuously indoors or outdoors for measuring solar irradiance. The thermopile sensor construction measures solar energy received across the total solar spectrum and whole hemisphere (180 degrees field of view). Output is expressed in Watts per meter square.

The CMP 3 pyranometer (ISO 9060:1990 Second Class) is intended for shortwave global solar radiation measurements in the spectral range from 300 to 2800 nm. Its thermopile detector measures irradiance up to 2000 W/m² with a response time of <18 seconds and a typical sensitivity 10 μV/W/m² that varies less than 5 % from -10 °C to +40 °C.

Operating temperature range is -40 °C to +80 °C and the stability is better than 1 % per year.

Featuring a snap-on white sun shield, integrated leveling and a weatherproof connector, the CMP 3 pyranometer is supplied pre-wired with 10 m of signal cable for simple installation. Optional mounting rods and longer cable lengths are available. Two CMP 3s can easily be mounted back-to-back to make a low-cost albedometer.

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 300 to 2800 nm

Sensitivity 5 to 20 μV/W/m²

Response time 18 s

Zero offset A < 15 W/m²

Zero offset B < 5 W/m²

Directional error (up to 80 ° with 1000 W/m² beam) < 20 W/m²

Temperature dependence of sensitivity (-10 °C to +40 °C) < 5 %

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

Maximum solar irradiance 2000 W/m²

Field of view 180 °

Additional Information

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