



Protective Glass Dome and Solar Shield

Compatible with most Campbell Scientific dataloggers

Overview

The CMP3, manufactured by Kipp & Zonen, is an ISO-second-class pyranometer that monitors solar radiation for the full solar spectrum range. It connects directly to a Campbell

Scientific datalogger and is used for many meteorological applications.

Benefits and Features

- › Includes a white snap-on sun shield that reduces the sensor's temperature
- › Measures reflected solar radiation when inverted
- › Provides measurements in direct sunlight, under plant canopies, when the sky is cloudy, and in artificial light
- › Includes bubble level and leveling screws, eliminating the need for a separate leveling base and simplifying installation
- › Acceptable for providing the solar radiation data used in stability estimations
- › Dome protects thermopile and allows water to roll off of it
- › Designed for continuous indoor and outdoor use

Technical Description

The CMP3 measures solar radiation with a high-quality blackened thermopile protected by a dome. The blackened thermopile provides a flat spectral response for the full solar spectrum range, which allows the CMP3 to be used under plant canopies or lamps, when the sky is cloudy, and for reflected radiation measurements.

The CMP3 includes a white snap-on sun shield that reduces the sensor's temperature. It also has a bubble level and

adjusting leveling screws, which enable the sensor to be leveled without using a leveling base.

The CMP3 produces a millivolt signal that is measured directly by a Campbell Scientific datalogger.

Two CMP3 pyranometers can be mounted back-to-back to make a low cost albedometer. Contact Campbell Scientific for more information.

Specifications

Sensor	Blackened thermopile protected by a dome	Measurement Description	Monitors solar radiation for the full solar spectrum range
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Spectral Range	300 to 2800 nm
Maximum Irradiance	2000 W/m ²
Sensitivity	5 to 20 μV/W/m ²
Operating Temperature Range	-40° to +80°C
Temperature Dependence	±5% (-10° to +40°C)
Non-Linearity	< ±2.5% (0 to 1000 W/m ²)

Tilt Response	< ±2% at 1000 W/m ² (±80°)
ISO Classification	Class C (second class)
Dome Diameter	3.2 cm (1.3 in.)
Width	7.9 cm (3.1 in.)
Height	6.7 cm (2.6 in.)
Weight	600 g (1.2 lb) with 10 m (32.8 ft) cable

For comprehensive details, visit: www.campbellsci.eu/cmp3-l 



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