



## CMP3-L

Pyranometer with Sun Shield



## Protective Glass Dome and Solar Shield

Compatible with most Campbell Scientific dataloggers

### Overview

The CMP3-L, manufactured by Kipp & Zonen, is an ISO-second-class pyranometer that monitors solar radiation for the full solar spectrum range. It produces a millivolt signal that is measured

directly by a Campbell Scientific datalogger. The CMP3-L can provide solar radiation measurements for a variety of 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
- › Compatible with the CWS900-series interfaces, allowing it to be used in a wireless sensor network
- › Acceptable for providing the solar radiation data used in stability estimations
- › Dome protects thermopile and allows water to roll off of it

### Detailed Description

The CMP3-L 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-L to be used under plant canopies or lamps, when the sky is cloudy, and for reflected radiation measurements.

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

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



## Specifications

|                             |  |
|-----------------------------|--|
| Light Spectrum Waveband     | 300 to 2800 nm                             |
| Maximum Irradiance          | 2000 W/m <sup>2</sup>                      |
| Sensitivity Range           | 5 to 20 $\mu$ V/W/m <sup>2</sup>           |
| Operating Temperature Range | -40° to +80°C                              |
| Temperature Dependence      | $\pm$ 5% (-10° to +40°C)                   |
| Non-Linearity               | < $\pm$ 2.5% (0 to 1000 W/m <sup>2</sup> ) |

|                    |  |
|--------------------|--|
| Tilt Response      | < $\pm$ 2% at 1000 W/m <sup>2</sup> ( $\pm$ 80°) |
| ISO Classification | 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.com.au/cmp3-l](http://www.campbellsci.com.au/cmp3-l)



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