

Solar Radiation Sensor

Model CMP3

Kipp & Zonen's CMP3 pyranometer is an ISO second class pyranometer that 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 produces a millivolt signal that is measured directly by a Campbell Scientific datalogger. Please note that the CMP3 is not compatible with our CR200-series dataloggers.

Mounting

The CMP3 includes a bubble level and three adjusting leveling screws, which allows the sensor to be leveled without using a leveling base. The CM225 mount is used to attach the sensor to a CM202, CM204, or CM206 crossarm, or to a tripod or tower mast. If the CM225 is attached to a mast, place the u-bolt in the holes in the side of the bracket. To attach the CM225 to a crossarm, place the u-bolt in the holes on the bottom of the bracket.

Ordering Information

CMP3	Pyranometer, includes 34' lead length.
CM225	Mount for attaching to the sensor to a tripod or tower mast or crossarm.

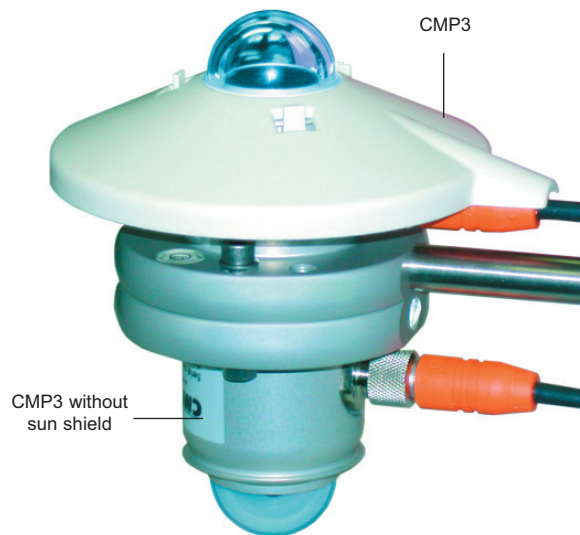
Specifications

Light Spectrum Waveband:	310 to 2800 nm
Maximum Irradiance:	2000 W m ⁻²
Sensitivity:	5 to 15 μ V W ⁻¹ m ²
Operating Temperature:	-40° to +80°C
Temperature Dependence:	\pm 5% (-10° to +40°C)
Non-linearity (0 to 1000 W m ⁻²):	< \pm 2.5%
Tilt Response (\pm 80°):	< \pm 2% at 1000 W m ⁻²
Dimensions:	3.1" (7.9 cm) width, 2.6" (6.7 cm) height 1.3" (3.2 cm) dome diameter
Weight (with cable):	1.2 lbs (600 g)
ISO Classification:	Second Class

Note: Second class pyranometers are acceptable for providing the solar radiation data used in stability estimations (EPA Meteorological Monitoring Guidance for Regulatory Modeling Applications, pages 2-10).



The CMP3 includes a white snap-on sun shield that reduces the sensor's temperature.



Customers can mount two CMP3s back-to-back to make a low cost albedometer. Contact Campbell Scientific for more information.



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