

Solar Radiation Sensor

Model LP02

Hukseflux's LP02 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 LP02 to be used under plant canopies or lamps, when the sky is cloudy, and for reflected radiation measurements. The LP02 produces a millivolt signal that is measured directly by a Campbell Scientific datalogger. Please note that the LP02 is not compatible with the CR200-series dataloggers.

Mounting

The LP02 is leveled using its bubble level and three adjusting screws. The CM225 mount attaches the sensor to a CM202, CM204, or CM206 crossarm, or to a tripod or tower mast. Customers can mount two LP02s back-to-back to make a low-cost albedometer; contact Campbell Scientific for more information.

Ordering Information

LP02 Pyranometer, includes 15' lead length.

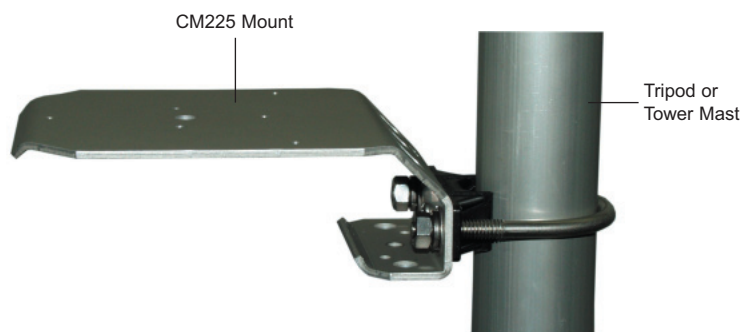
CM225 Mount for attaching to the sensor to a tripod or tower mast or crossarm.

Specifications

Light Spectrum Waveband:	305 to 2800 nm
Maximum Irradiance:	2000 W m ⁻²
Sensitivity (nominal):	15 μV W ⁻¹ m ²
Operating Temperature:	-40° to +80°C
Temperature Dependence:	<0.15%/°C
Dimensions:	3.1" (7.8 cm) width, 2.3" (5.9 cm) height 1.2" (3.0 cm) dome diameter
ISO Classification:	Second Class



The LP02 includes a bubble level, three adjusting screws, and a cable gland. The bubble level and adjusting screws allow the sensor to be leveled without the use of a leveling base. The gland allows the user to change cables.



If the CM225 is attached to a mast, place the u-bolt in the holes in the side of the bracket (shown). To attach the CM225 to a CM202, CM204, or CM206 crossarm, place the u-bolt in the holes on the bottom of the bracket.

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).



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