

Pyranometer CMP-3

The CMP-3 pyranometer measures solar irradiance and meets the WMO requirements for second class pyranometers. The thermopile sensor construction and high quality optics give the sensor a linear response over the full solar spectrum and the whole hemisphere (180 degree field of view).

The CMP-3 is designed for continuous indoor and outdoor use. To ensure accurate readings the CMP-3 is fitted with a sunscreen, a set of levelling feet and an integrated spirit level. The low drift and uniform directional response make this instrument the ideal choice for demanding applications.

Adcon delivers the sensor with an integrated amplifier that converts the sensor's μV output into a linear 0 - 2.5V signal. The CMP3 is supplied with a 2m cable and 7pin connector for easy connection to Adcon's RTUs.



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Applications

- Professional weather stations
- Agricultural weather stations
(Evapotranspiration calculation - ETo)
- Photo Voltaic Module monitoring

Technical data

Dimensions (incl. mounting bracket)	420 x 355 x 120mm (L x H x W)	Field of View	180°
Weight	1,310 g (incl. bracket & cable)	Output Signal	0 ... 2,5VDC, linear
Spectral Range	310 ... 2800 nm	Power Supply	5,5 VDC ... 7,2 VDC
Sensitivity (nominal)	5 ... 15 $\mu\text{V} / \text{W} / \text{m}^2$	Operating Temperature	-30°C ... +80°C
Response Time	< 18s (93%); < 6s (63%)	Cable & Connector	200cm, 7-pin M9 Binder male
Max. Irradiance	1400 W/m ²	Mounting	mast mounting holder for poles with 35-45mm Ø; clamps included
Temperature Dependence	$\pm 5\%$ (from -10° ... +40°C)	Ordering Information:	
Non stability change/year	< 1%	200.733.022	CMP-3 Pyranometer