

Kipp & Zonen CMP3 Pyranometer

IM506D

IM507D

IM508D

CZ-LITE

CMP3

CMP6

CMA6

LP02


CMP3

The CMP 3 pyranometer is an instrument for measuring the solar irradiance. The thermopile sensor construction measures the solar energy that is received from the total solar spectrum and the whole hemisphere (180 degrees field of view). The output is expressed in W/m^2 . The CMP 3 pyranometer is designed for continuous indoor and outdoor use.

ISO 9060:1990 CLASSIFICATION	Second Class
Response time (95 %)	< 18 s
Zero offsets <i>(a) thermal radiation (200 W/m^2)</i> <i>(b) temperature change (5 K/hr)</i>	< 15 W/m^2 < 5 W/m^2
Non-stability (change/year)	< 1 %
Non-linearity (0 to 1000 W/m^2)	< 1 %
Directional error (up to 80 ° with 1000 W/m^2 beam)	< 20 W/m^2
Temperature dependence of sensitivity	< 5 % (-10 °C to +40 °C)
Tilt error (at 1000 W/m^2)	< 1 %
Sensitivity	5 to 20 $\mu V/W/m^2$
Impedance	20 to 200 Ω
Level accuracy	1°
Operating temperature	-40°C to +80°C
Spectral range (50 % points)	300 to 2800 nm
Typical signal output for atmospheric applications	0 to 20 mV
Maximum irradiance	2000 W/m^2
Part.no. CMP3	Kipp & Zonen Pyranometer with holder and 5 m cable