

Meteo M&R

radiation & light



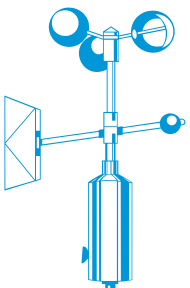
CMP11 pyranometer

EXCELLENT LINEARITY

FAST RESPONSE TIME

LOW TILT ERROR

The CMP11 pyranometer is particularly suitable for meteorological networks and the reduced response time of 1.66 seconds (63%) meets the requirements for solar energy applications.



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CMP11 pyranometer

CMP 11 uses higher quality glass domes and a version of the detector technology originally developed for the CM 22 and is a step up in performance from the CMP 6. It is particularly suitable for meteorological networks and the reduced response time of 1.66 seconds (63%) meets the requirements for solar energy applications.

A waterproof socket is fitted for the signature yellow signal cable, which is available in a range of lengths pre-wired to the waterproof plug.

The integral bubble level is raised to the top of the housing and can be viewed without removing the redesigned snap-on sun shield, which also covers the connector. The connector with gold-plated contacts allows for easy exchange and re-calibration. The drying cartridge is now a screw-in type that can be simply removed using a coin, for changing the desiccant that is supplied in convenient refill packets.

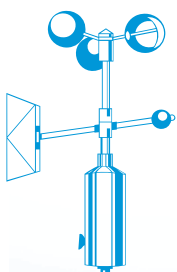


Features

- Secondary standard pyranometer
- Excellent linearity
- Fast response time
- Low tilt error

TECHNICAL SPECIFICATIONS

Spectral range	310 to 2800 nm
Sensitivity	7 to 14 $\mu\text{V}/\text{W}/\text{m}^2$
Response time	± 5 s
Zero offset A	± 7 W/m^2
Zero offset B	± 2 W/m^2
Directional error (Upto 80 ° with 1000 W/m^2 beam)	± 10 W/m^2
Temperature dependence of sensitivity (-10 °C to +40 °C)	± 1 %
Operating temperature range	-40 °C to +80 °C
Maximum solar irradiance	4000 W/m^2
Field of view	180 °



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handelskade 76
2288 bg rijswijk
the netherlands

p.o.box 1111
2280 cc rijswijk
the netherlands

tel. +31 70 3070706
fax +31 70 3070938

www.wittich.nl
info@wittich.nl