

# CM3 Pyranometer



## For economical and reliable routine solar radiation measurements

The CM3 pyranometer is intended for routine total global solar irradiance measurements. Offering comparable performance and features to other ISO Class pyranometers costing significantly more, the CM3 is an incredible value.

An optional levelling fixture is available for use with the CM3 pyranometer, the CLF1 Levelling Fixture.

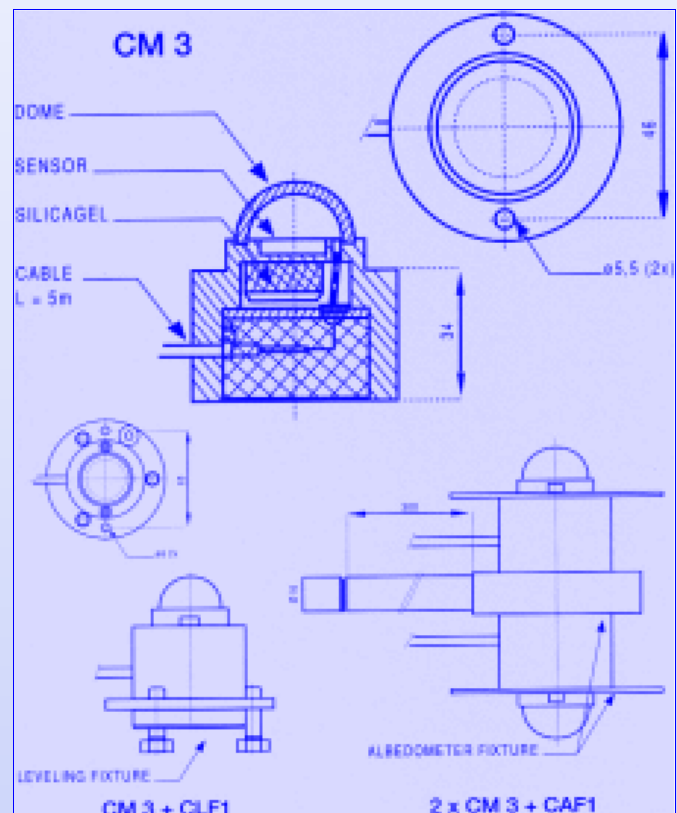
Two CM3 pyranometers can be used in conjunction with the optional CAF1 Albedometer Fixture, for performing net short-wave (incoming and surface reflected) solar radiation measurement research.

### CM3 Features & Benefits

- ISO and WMO compliance
- sealed and potted low maintenance design
- excellent long term stability of sensitivity
- good cosine/directional response

### CM3 Pyranometer Specifications:

Maximum irradiance	2000 W/m <sup>2</sup>
Spectral range	305 - 2800 nm (50% points)
Sensitivity	10 - 35 $\mu$ V/W/m <sup>2</sup>
Impedance	79 - 200 $\Omega$
Response time,	95% 18 sec.
Non-linearity	< $\pm$ 2.5% (<1000 W/m <sup>2</sup> )
Temp. dependence of sensitivity	6.0% (-10 to +40 ° C)
Operating Temperature	-40 to +80 ° C
Zero-offset due to temp. changes	< 4 W/m <sup>2</sup> at 5 K/h temp. changes
Tilt response	< $\pm$ 2%
Signal output (atmospheric cond.)	0 - 50 mV
Field of view	180°
ISO Class	second class
Weight (with cable)	343 grams
Cable length	5 m



Every CM3 is calibrated upon manufacture, and is supplied standard with a WRR (World Radiometric Reference) traceable calibration certificate.