

Pyranometer (Global Radiation) Second Class CM 9



Description

The CM3 Pyranometer is intended for routine total global solar irradiance measurements. Offering comparable performance and features as compared to other ISO Second Class Pyranometer 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 Pyranometer can be used in conjunction with the optional CAF1 Albedometer Fixture, for performing net short-wave (incoming and surface reflected) solar radiation measurements. Delivery includes calibration certificate.

Technical Data

specifications:

• Maximum irradiance:	2000 W/m ²
• Spectral range: (50% points nm)	305 - 2800 nm
• Sensitivity:	10 - 35 μ V/W/m ²
• Impedance:	79 - 200 W
• Response time:	95% 18 sec.
• Non-linearity:	< \pm 2.5% (<1000 W/m ²)
• Temp. Dependence of sensitivity:	6.0% (-10 to +40°C)
• Operating Temperature:	-40°C to +80°C
• Zero-offset due to temp.changes:	< 4 W/m ² at 5 K/h temp. change
• 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