

# Vaisala Pyranometers CM6B and CM11



#### CM6B — FIRST CLASS PYRANOMETER

The CM6B is a first class pyranometer as defined by the World Meteorological Organization. It is suitable for the measurement of solar irradiance on a plane surface (W/m2).

It incorporates a 64-thermocouple sensor, which is rotationally symmetrical, housed under K5 domes. A white screen prevents the body of the pyranometer from heating up. The pyranometer is supplied with a spirit level and screws for accurate levelling. A drying cartridge keeps the interior free from humidity. All the pyranometers are supplied with a calibration certificate.

# CM11—SECONDARY STANDARD PYRANOMETER

The CM11 is a secondary standard pyrano-meter as defined by the World Meteorological Organization. It is suitable for the measurement of solar irradiance on a plane surface (W/m2).

It incorporates a 100-thermocouple sensor, imprinted on a thick-film substrate, housed under K5 glass domes. The sensor is rotation-ally symmetrical. A white screen prevents the body of the pyranometer from heating up. The pyranometer is supplied with a spirit level and screws for accurate levelling.

A drying cartridge keeps the interior free from humidity. All the pyranometers are supplied with a calibration certificate which also shows the level of directional error.

#### CM6B

Spectral range	3052800 nm (50% points)
Sensitivity	915μV/Wm-2
Impedance	70100 Ohm
Response time	1/e 5 s, 99 % 55 s
Non-linearity	<1.5% ( $<1000$ W/m 2)
Tilterror	<1.5 % at 1000 W/m 2
Operatingtemperature	-40+90°C
Temperature dependen	ce of sensitivity ±2 %
(-10+40°C)	
Maximum irradiance	2000 W/m2
Directional error	$< \pm 20  \text{W/m} $ 2 at $1000  \text{W/m} $ 2
Weight	0.85 kg
Cable length	10 m

#### **CM11**

Spectralrange	3052800 nm (50 % points)
Sensitivity	46 μV/Wm-2
Impedance	7001500 Ohm
Response time	1/e 4 s, 99 % 24 s
Non-linearity	±0.6 % (<1000 W/m 2)
Tilterror	none
Operating temperature	-40+90°C
Temperature dependen	ce of sensitivity ±1%
(-10+40°C)	<u> </u>
Maximum irradiance	4000 W/m2
Directional error	$< \pm 10  \text{W/m2}$ at $1000  \text{W/m2}$
Weight	0.85 kg
Cable length	10 m



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