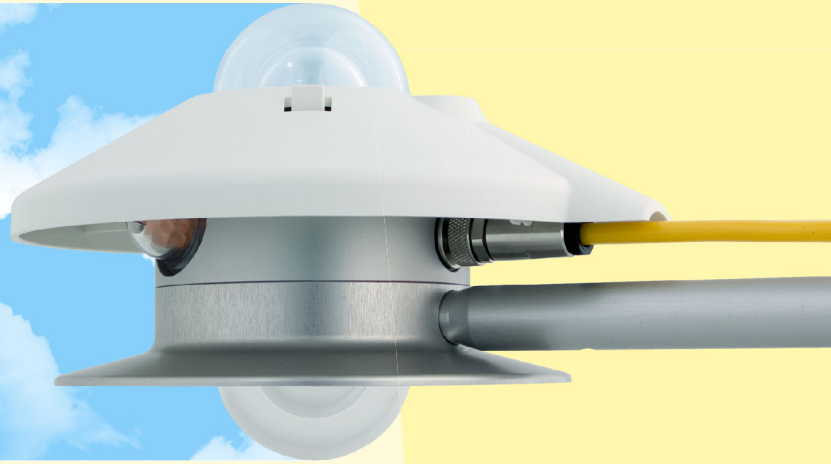


CMA 11 complies with the highest level of ISO classification, Secondary Standard. CMA 6 complies with the second highest level, First Class. CMA albedometers are constructed around two pyranometer sensors in one convenient housing with an integral mounting rod for attachment to a mast. CMA 6 uses two CMP 6 sensors, CMA 11 is a double CMP 11.



CMA albedometers are suitable for measuring global radiation and/or albedo over many differing types of surface. The upper pyranometer measure incoming global solar radiation and the lower sensor measures solar radiation reflected from the surface below. From the two measurements the Albedo can be simply calculated.

CMA 6 is recommended for routine meteorological applications, CMA 11 is recommended for scientific applications, for which accuracy needs to be according to the highest standards. The lightweight design makes CMA ideal for portable applications such as on snow and ice fields

The white sun shield prevents the body of the albedometer from heating up. The conical lower glare screen prevents direct illumination of the lower glass dome at sunrise and sunset. A bubble level is fitted and a screw-in drying cartridge keeps the interior free from humidity. The signal cable has a waterproof connector for ease of installation.



All albedometers are supplied with a calibration certificate traceable to the World Radiation Centre.

### SPECIFICATIONS

	<b>CMA 11</b>	<b>CMA 6</b>
<b>ISO CLASSIFICATION</b>	Secondary Standard	First Class
Spectral range (50% points)	310 – 2800 nm	310 – 2800 nm
Sensitivity	7 – 14 $\mu\text{V}/\text{W}/\text{m}^2$	5 – 16 $\mu\text{V}/\text{W}/\text{m}^2$
Impedance	10 – 100 $\Omega$	20 – 200 $\Omega$
Response time (95%)	< 5 s	< 18 s
Non-linearity (0-1000 $\text{W}/\text{m}^2$ )	< 0.2 %	< 1 %
Tilt error (at 1000 $\text{W}/\text{m}^2$ )	< 0.2 %	< 1 %
Operating temperature	-40 to +80 $^{\circ}\text{C}$	-40 to +80 $^{\circ}\text{C}$
Temperature dependence of sensitivity	< 1 % (-10 to +40 $^{\circ}\text{C}$ )	< 4 % (-10 to +40 $^{\circ}\text{C}$ )
Maximum irradiance	4000 $\text{W}/\text{m}^2$	2000 $\text{W}/\text{m}^2$
Directional error (at 80° with 1000 $\text{W}/\text{m}^2$ )	< 10 $\text{W}/\text{m}^2$	< 20 $\text{W}/\text{m}^2$
Weight (inc. rod & cable)	1.2 kg	1.2 kg
Standard cable length	10 m	10 m
Optional cable lengths	25 m and 50 m	25 m and 50 m

Dimensions in mm

