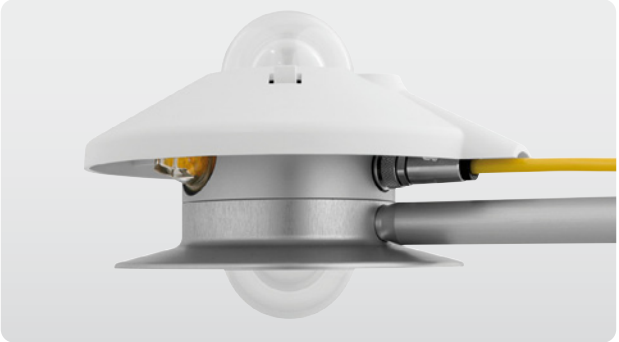
CMA 11



CMA 11 is a double CMP 11 pyranometer that complies with the highest level of ISO classification, Secondary Standard. It has all the features of the CMA 6 but uses higher quality glass domes and a faster response detector design with temperature compensation. The tilt error and levelling accuracy are also improved.

CMA 11 is a step up in performance from CMA 6 and is recommended for scientific applications, for which accuracy needs to be according to the highest standards.

Specifications	
ISO CLASSIFICATION	Secondary Standard
Response time (95 %)	< 5 s
Zero offsets (a) thermal radiation (200 W/m²) (b) temperature change (5 K/hr)	 < 7 W/m² < 2 W/m²
Non-stability (change/year)	< 0.5 %
Non-linearity (0 to 1000 W/m²)	< 0.2 %
Directional error (at 80 ° with 1000 W/m² beam)	< 10 W/m²
Temperature dependence of sensitivity	< 1 % (-10 °C to +40 °C)
Tilt error (at 1000 W/m²)	< 0.2 %
Other specifications	
Sensitivity	7 to 14 µV/W/m²
Impedance	10 to 100 Ω
Level accuracy	0.1 °
Operating temperature	-40 °C to +80 °C
Spectral range (50 % points)	310 to 2800 nm
Typical signal output for atmospheric applications	0 to 15 mV (upper) 0 to 10 mV (lower)
Maximum irradiance	4000 W/m²
Mounting rod (fixed)	350 mm long x 16 mm Ø

Article	Part number
CMA 11 Albedometer • 10 m cable	**0362960-002**
Options for CMA 11	
CMA 11 Albedometer • 25 m cable	0362960-004
CMA 11 Albedometer • 50 m cable	0362960-005
CMA 11 Albedometer • plug only, no cable	0362960-008
100 m cable	On request

Note: CMA 11 can be used with the AMPBOX but it has two individual outputs, so 2 x AMPBOX are required.
Each AMPBOX is adjusted so that 4-20 mA output = 0-1600 W/m²

Accessories for CMA 11	Part number
Desiccant Refill Pack, minimum order 10 packs	**2643951**
CMB 1 Mounting Bracket To enable easy attachment of the mounting rod to a pole or a wall	**0369701**

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