

CMP 6



CMP 6 is an ISO First Class pyranometer. It has a similar detector to CMP 3, but has improved performance due to the increased thermal mass and the double glass dome construction. The tilt error and levelling accuracy are also improved. The bubble level is visible through the snap-on white sun shield. The drying cartridge keeps the instrument free of internal condensation and is easily removable.

CMP 6 is ideal for cost-effective, good quality, measurements in meteorological and hydrological networks and agriculture. Performance can be further improved by using the CVF 3 Ventilation Unit.

A range of mounting accessories is available.

Specifications

| | |
|---|--------------------------|
| ISO CLASSIFICATION | First Class |
| Response time (95 %) | < 18 s |
| Zero offsets | |
| (a) thermal radiation (200 W/m ²) | < 15 W/m ² |
| (b) temperature change (5 K/hr) | < 4 W/m ² |
| Non-stability (change/year) | < 1 % |
| Non-linearity (0 to 1000 W/m ²) | < 1 % |
| Directional error (at 80 ° with 1000 W/m ² beam) | < 20 W/m ² |
| Temperature dependence of sensitivity | < 4 % (-10 °C to +40 °C) |
| Tilt error (at 1000 W/m ²) | < 1 % |

Other specifications

| | |
|--|-----------------------------|
| Sensitivity | 7 to 20 µV/W/m ² |
| Impedance | 20 to 200 Ω |
| Level accuracy | 0.5 ° |
| 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 |
| Maximum irradiance | 2000 W/m ² |

| Article | Part number |
|---|--------------------|
| CMP 6 Pyranometer • 10 m cable | 0362900-002 |
| Options for CMP 6 | |
| CMP 6 Pyranometer • 25 m cable | 0362900-004 |
| CMP 6 Pyranometer • 50 m cable | 0362900-005 |
| CMP 6 Pyranometer • plug only, no cable | 0362900-008 |
| CMP 6 Pyranometer • AMPBOX • 10 m cable | 0362900-802 |
| CMP 6 Pyranometer • AMPBOX • 25 m cable | 0362900-804 |
| CMP 6 Pyranometer • AMPBOX • 50 m cable | 0362900-805 |
| CMP 6 Pyranometer • AMPBOX • plug only, no cable | 0362900-808 |
| 100 m cable | On request |
| <i>Note: AMPBOX is adjusted so that 4 - 20 mA output = 0 - 1600 W/m²</i> | |

| Accessories for CMP 6 | Part number |
|---|------------------------|
| Desiccant Refill Pack , minimum order 10 packs | 2643951 |
| CVF 3 Ventilation Unit | See accessories |
| Recommended to reduce offsets and frequency of dome cleaning | |
| CMF 1 Mounting Fixture | 0362700 |
| For 1 or 2 unventilated radiometers (1 upper / 1 lower) Diameter 88 mm. Mounting rod 350 mm long x 16 mm Ø | |
| CMF 2 Mounting Fixture | 0362701 |
| For 1 or 2 ventilated or unventilated radiometers (1 upper / 1 lower) Diameter 220 mm. Mounting rod 350 mm long x 16 mm Ø | |
| CMB 1 Mounting Bracket | 0369701 |
| In combination with mounting rod for easy attachment to a pole or a wall | |
| CM 121B Shadow Ring for unventilated radiometers | 0346900 |
| Manually adjusted device provides diffuse sky irradiance measurement <i>Note: CM 121B can not be used with CVF 3 ventilation unit</i> | |
| CM 121C Shadow Ring for ventilated radiometers | 0346901 |
| Manually adjusted device provides diffuse sky irradiance measurement Mounts the radiometer at the correct height when used with a CVF 3 <i>Note: AMPBOX is adjusted so that 4 - 20 mA output = 0 - 1600 W/m²</i> | |
| METEON + CMP 6 Pyranometer • 10 m cable | 0362900-702 |