

CMP 3



CMP 3 is an ISO Second Class pyranometer designed for shortwave global solar radiation measurements in the spectral range from 300 to 3000 nm. The thermopile detector measures irradiance up to 2000 W/m² with a response time less than 18 seconds and typical sensitivity of 10 µV/W/m², that varies less than 5 % from -10 °C to +40 °C.

CMP 3 is smaller and lighter than the other CMP Series pyranometers. It has a robust 4 mm thick glass dome to protect the thermopile detector from external influences. The small size and sealed construction make this instrument the ideal choice for horticulture, monitoring solar energy installations, industrial applications, and entry level weather stations.

Two CMP 3's can easily be mounted back-to-back and fitted with the accessory mounting rod to make a low-cost albedometer.

Specifications	
ISO CLASSIFICATION	Second 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)	< 5 W/m ²
Non-stability (change/year)	< 1 %
Non-linearity (0 to 1000 W/m ²)	< 2.5 %
Directional error (at 80 ° with 1000 W/m ² beam)	< 20 W/m ²
Temperature dependence of sensitivity	< 5 % (-10 °C to +40 °C)
Tilt error (at 1000 W/m ²)	< 3 %
Other specifications	
Sensitivity	7 to 20 µV/W/m ²
Impedance	20 to 200 Ω
Level accuracy	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
Maximum irradiance	2000 W/m ²

Article	Part number
CMP 3 Pyranometer • 10 m cable	0338920-002
Options for CMP 3	
CMP 3 Pyranometer • 25 m cable	0338920-004
CMP 3 Pyranometer • 50 m cable	0338920-005
CMP 3 Pyranometer • plug only, no cable	0338920-008
CMP 3 Pyranometer • AMPBOX • 10 m cable	0338920-802
CMP 3 Pyranometer • AMPBOX • 25 m cable	0338920-804
CMP 3 Pyranometer • AMPBOX • 50 m cable	0338920-805
CMP 3 Pyranometer • AMPBOX • plug only, no cable	0338920-808
100 m cable	On request
<i>Note: AMPBOX is adjusted so that 4 - 20 mA output = 0 - 1600 W/m²</i>	

CMP 3 Albedometer
CMP 3 Second Class Albedometer
An ISO Second Class Albedometer can be self-assembled by ordering: 2x CMP 3 Pyranometer + 1x Mounting Rod
<i>Note: CMP 3 Albedometer 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</i>

Accessories for CMP 3	Part number
Mounting Rod	0338720
Screw-in 300 mm long x 12 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
METEON + CMP 3 Pyranometer • 10 m cable	0338920-702
Manually adjusted device provides diffuse sky irradiance measurement	
Correction factors for latitude of location supplied	
<i>Note: CMP 3 cannot be used with CVF 3 ventilation unit</i>	