

CA 2



CA 2 is based on the same type of thermopile detector as our CMP 3 and CMP 6 pyranometers. Because it has a limited field of view it can be used to measure the amount of radiant fluxes coming from a specific location or a specific source.

CA 2 is sensitive to radiation from 0.2 to 50 μm , and has a field of view of 20° for 90% of the received radiation. This is determined by cylindrical brass housing that contains a conical reflector. The removable glass window reduces convection effects and radiation losses but restricts the spectral range to 0.3 to 3 μm .

The thermopile is ideal for control (ovens), demonstration purposes in schools and technical institutes or to be used for reference measurements. The mounting rod allows easy fixing to standard optical bench mountings. The terminals allow simple connection of bare wires or banana plugs.

Specifications

Spectral range	
- Without window	0.2 to 50 μm
- With window	0.3 to 3 μm
Sensitivity (Parallel beam on front window)	7 to 20 $\mu\text{V}/\text{W}/\text{m}^2$
Response time (95%)	18 s
Field of view	20° (90%)
Non-linearity	< 3 %
Impedance	20 - 200 Ω
Maximum irradiance	2000 W/m^2
Mounting rod	170 mm long x 10 mm \emptyset

Article

Part number

CA 2 Laboratory Thermopile

1311907