

240-CMP3 Pyranometer

The **240-CMP3 Pyranometer** is an instrument for measuring the solar irradiance. The thermopile sensor construction measures the solar energy that is received from the total solar spectrum and the whole hemisphere (180 degrees field of view). The output is expressed in Watts per meter square. The CMP3 pyranometer is designed for continuous indoor and outdoor use.

The CMP3 Pyranometer (ISO Second Class) is intended for shortwave global solar radiation measurements in the spectral range from 310 to 2800 nm. The thermopile detector measures irradiance up to 2000 W/m² with response time < 18 seconds and typical sensitivity 10 μV/W/m² that varies < 5% from -10 to +40 °C. Operating temperature range is -40 to +80 °C and the stability is better than 1% per year.

The CMP3 Pyranometer features a snap-on white sun shield, integrated leveling, and a weatherproof connector which is supplied pre-wired with 10 m of signal cable for simple installation. An optional mounting rod and longer cable lengths are available. Two CMP3s can easily be mounted back-to-back to make a low cost albedometer.

Specifications

Spectral range (50% points): 310 to 2800 nm
 Sensitivity (μV/W/m²): 5 to 15
 Response time (95 %): < 18 s
 Non-linearity (0-1000 W/m²): 2.5%
 Non-stability (change/year): < 1%
 Max irradiance: 2000 W/m²
 Field of view (degrees): 180
 Housing material: Anodized aluminum body
 Dimensions: 79 x 67 mm
 Weight: 300g and 600g with cable

Ordering Information

240-CMP3 Pyranometer, includes 10 meters cable
 240-CMP3-MR Mounting Rod, 300 mm long x 12 mm dia



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Two 240-CMP3 Pyranometers in albedometer configuration. Shown with optional 240-CMP3-MR Mounting Rod.