

Megger PVM210 Solar Irradiance Meter

Product Images

Product Code: C72-2512



Short Description

The Megger PVM210 provides the solar / photovoltaic engineer a compact, pocket size instrument that is easy to use.

Single handed operation is possible because the solar detector and meter being housed in one neat unit. This feature is ideal when using the instrument on a sloping roof or at the top of a ladder.

With the easy to read display and measurement hold feature the meter gives fast, accurate readings of solar power for initially choosing optimum position for the photovoltaic panel. In addition the meter can provide the vital measurement for the calculation of short circuit current in conjunction with a suitable ammeter to verify the stated short circuit current provided by the manufacturer of the panel.

In addition to W/m^2 measurements, a selectable BTU (British Thermal Unit) measurement range is also featured.

To prolong battery life the PVM210 has an auto power off.

On the rear of the meter is a universal camera thread that allows mounting for precise readings if required. A protective pouch is included with each instrument.

Features

Optimal incident angle and positioning of solar panels
Measurement of solar power for panel short circuit calculation
3¾ digit LCD display with 1999 W/m^2 range
Single handed use
Mini pocket size
Standard camera mount fixing for accurate placement

Specifications

Display: 3¾ digits LCD with maximum reading 3999.
Range: 1999 W/m^2
/ 634 BTU / (ft²*h)
Accuracy: Typically within $\pm 10 \text{ W/m}^2$ ($\pm 3 \text{ BTU / (ft}^2\text{*h)}$) or $\pm 5\%$, whichever is greater in sunlight;
Additional temperature induced error $\pm 0.38 \text{ W/m}^2\text{/}^\circ\text{C}$ ($\pm 0.12 \text{ BTU/(ft}^2\text{*h)/}^\circ\text{C}$) from 25 °C
Angular accuracy: Cosine corrected <5% for angles <60 °C
Accuracy: < $\pm 3\%$ per year
Resolution: 0.1 W/m^2 / 0.1 BTU / (ft²*h).
Sampling time: Approx. 0.25 second
Over input: Display shows "OL"
Operating temperature: 5 °C~40 °C, below 80% RH
Storage temperature: -10 °C~60 °C, below 70% RH
Dimensions: 134 mm (H) x 48 mm (W) x 27 mm (D)
Weight: 90 g
EMC: EN61326
Battery life: 50 hr approx.
Auto off: 15 min.
Batteries: 2 x 1.5 V AAA / MN2400 / LR03

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