



Photovoltaic Meter PCE-SPM 1



PCE-SPM 1 is a photovoltaic (PV) light meter used to measure solar radiation, solar energy or solar power. The meter's easy-to-read 4-digit LCD screen clearly displays P_{tot} in W/m^2 or $BTU/(ft^2 \times h)$, while the device's auto data memory stores up to 43,000 data sets.

- ▶ Measuring range: 0 ... 2000 W/m^2 or 0 ... 634 $BTU/(ft^2 \times h)$
- ▶ Resolution: 0.1 W/m^2 or 0.1 $BTU/(ft^2 \times h)$
- ▶ Accuracy: $\pm 10 W/m^2$ or $\pm 3 BTU/(ft^2 \times h)$ or $\pm 5\%$; whichever is greatest in sunlight
- ▶ Minimum, maximum and data hold functions
- ▶ Built-in datalogging capability allows for long-term recording of measurements over time
- ▶ Powered by 4 x AAA Li-ion batteries for approx. 16 days of continuous use at full charge
- ▶ RS-232 data port for downloading measurement data to PC
- ▶ Includes CD-ROM with Windows-compatible software for detailed data analysis
- ▶ Ideal for solar panel site surveying, installation, inspection and monitoring as well as for solar energy research and product development

Subject to change



Specifications

Measurement range	0 ... 2000 W/m ² or 0 ... 634 BTU/(ft ² x h)
Resolution	0.1 W/m ² or 0.1 BTU/(ft ² x h)
	±10 W/m ² or ±3 BTU/(ft ² x h) or ±5%; whichever is greatest in sunlight
Accuracy	Additional temperature induced error ±0.38W/m ² /C or ±0.12 BTU/(ft ² x h)/°C from 25°C / 77°F
Angular accuracy	Cosine corrected < 5% for angles < 60°
Drift	<± 2% per year
Sampling rate	4 times per second
Detector	1 x silicon photovoltaic sensor
Internal memory	Auto data memory capacity: 43,000 sets Manual data memory capacity: 99 sets
Operating conditions	0 ... 50°C / 32 ... 122°F; < 80% RH
Power supply	4 x AAA Li-ion batteries (approx. 16 days of continuous use at full charge)
Dimensions	111 x 64 x 34 mm or 4.37 x 2.52 x 1.34 in
Weight	158 g / < 1 lb

More information

Manual



More product info



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