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 Ptot in W/m² or BTU/(ft² x h), while the device's auto data memory stores up to 43,000 data sets.

- Measuring range: 0 ... 2000 W/m² or 0 ... 634 BTU/(ft² x h)
- Resolution: 0.1 W/m² or 0.1 BTU/(ft² x h)
- Accuracy: ±10 W/m² or ±3 BTU/(ft² x h) or ±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

Specifications

Measurement range	0 ... 2000 W/m² or 0 ... 634 BTU/(ft² x h)
Resolution	0.1 W/m² or 0.1 BTU/(ft² x h)
Accuracy	±10 W/m² or ±3 BTU/(ft² x h) or ±5%; whichever is greatest in sunlight Additional temperature induced error ±0.38W/m²/C or ±0.12 BTU/(ft² x h)/ºC from 25ºC / 77ºF
Angular accuracy	Cosine corrected < 5% for angles < 60º
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 ... 50ºC / 32 ... 122ºF; < 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

Subject to change