

Mini Solar Power Meter



Description:

The M140 measures solar irradiance in units of W/m^2 or $BTU/(ft^2 \cdot h)$. Durable, reliable, and easy to use, use the M140 features:

Features:

- Super low price, high precision
- Measurable light sources, including all visible light
- Overload display OL
- Select either W/m^2 or $[BTU/(ft^2 \cdot h)]$ units
- Stable for long use
- Power off: Manual on/off by push button, or auto shut off after 15 minutes

Applications:

- Solar power evaluations
- Finding the optimal incident angle for solar panels
- Measurement of the sun's transmission through transparent and opaque materials



WARRANTY



Technical Specifications

Accuracy	Typically within $\pm 10\text{W/m}^2$ [$\pm 3\text{ BTU}/(\text{ft}^2\cdot\text{h})$] or $\pm 5\%$, whichever is greater in sunlight; Additional temperature induced error $\pm 0.38\text{ W/m}^2/^\circ\text{C}$ [$\pm 0.12\text{ [BTU}/(\text{ft}^2\cdot\text{h})]/^\circ\text{C}$] from 25°C
Resolution	0.1W/m^2 or $0.1\text{ [BTU}/(\text{ft}^2\cdot\text{h})]$
Range	1999W/m^2 or $634\text{ [BTU}/(\text{ft}^2\cdot\text{h})]$
Accuracy Attenuation	$< \pm 3\%$ /year
Display	$3\frac{3}{4}$ digits LCD with maximum reading 3999
Sampling Rate	About .25 seconds
Power Supply	2 batteries 1.5V AAA
Battery life	50 hours during consecutive use
Operating Conditions	$5^\circ\text{C} \sim 40^\circ\text{C}$, $< 80\%$ RH, $\leq 2\text{km}$ altitude
Storage Conditions	-10 to 60°C , $< 70\%$ RH
Dimensions	$134 \times 48 \times 27\text{ mm}$ (H \times W \times D)
Weight	90g
Accessories	User manual, 2x 1.5 AAA battery, and carrying case
Warranty	Limited two-year warranty

Includes:

- Meter
- User Manual
- Carrying Case
- 2x 1.5V AAA Batteries

This instrument conforms to:

- This meter is EMC compliant and has undergone tests according to EN61326 (1997) + A1 (1998) + A2 (2001)
- CE



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