

## 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

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

