



# Solar Power Meter

Model R8180

## TECHNICAL DATA



### Features

- Measures the solar power and transmission up to 2000W/m<sup>2</sup>, 634BTU/(ft<sup>2</sup>xh)
- Easy-to-read display with remote sensor technology
- User Selectable W/m<sup>2</sup> or BTU/(ft<sup>2</sup>xh)
- Max/Min and Data Hold functions
- Overrange indicator
- Low battery indicator and auto shut-off
- Includes sensor cap, carrying case and battery

### Specifications

Solar Power Meter

Measuring Range:

0 to 1999W/m<sup>2</sup>  
0 to 634BTU/(ft<sup>2</sup>xh)

Accuracy:

±10W/m<sup>2</sup>  
±3BTU/(ft<sup>2</sup>xh)  
or ±5%  
whichever is greater in sunlight  
Additional temperature  
included error  
± 0.38W/m<sup>2</sup>/°C  
±0.12BTU/(ft<sup>2</sup>xh)/°F (°C)  
from 77°F (25°C)

Angular Accuracy:

Cosine corrected <5%  
for angles <60°

Resolution:

0.1, 1

Response Time:

250mS

Display:

3½-Digit, LCD

Data Hold:

Yes

Min:

Yes

Max:

Yes

Auto Zero:

Yes (Adjustment Screw)

Overrange Indicator:

Yes ("OL")

Tripod Mountable:

Yes

Power Supply:

9V Battery

Product Certifications:

CE, EMC Compliant,  
Conforms to EN61326-1

Operating Temperature:

41 to 104°F (5 to 40°C)

Storage Temperature:

14 to 140°F (-10 to 60°C)

Operating Humidity Range:

10 to 80%

Dimensions:

5.2 x 2.4 x 1.5"  
(132 x 60 x 38mm)

Weight:

5.3oz (150g)

Model	Description
R8180	Solar Power Meter
CA-05A	Medium Soft Carrying Case