



# 510 Solar Irradiance Meter

510  
Solar Meter  
0212

## Test the TPI Advantage

Value • Performance • Service • Safety

### Applications

- Use to find the optimal angle of inclination for installing solar panels
- Measure light intensity through windows
- Determine the effectiveness of solar film / window tint.



### Features and Benefits

- Measure solar radiation (irradiance).
- Displays results in W/m<sup>2</sup> or BTU
- 0 to 1999 W/m<sup>2</sup> (0 to 634 BTU) range
- Min / Max and Data hold functions

### Specifications

<b>Range:</b>	1999W/m <sup>2</sup> / 634BTU/(ft <sup>2</sup> *h)
<b>Accuracy:</b>	typically within +/-10W/m <sup>2</sup> [ +/-3BTU/(ft <sup>2</sup> *h)] or +/-5%, whichever is greater in sunlight; additional temperature induced error +/-0.38W/m <sup>2</sup> /°C [ +/-0.12BTU/(ft <sup>2</sup> *h)/°C] from 25°C
<b>Display:</b>	3-1/2 digits LCD with maximum reading 1999
<b>Sampling Time:</b>	approx. 0.25 second
<b>Resolution:</b>	0.1W/m <sup>2</sup> / 0.1BTU/(ft <sup>2</sup> *h)
<b>Operating Temp. &amp; RH:</b>	41°F~104°F (5°C~40°C), below 80%RH.
<b>Storage Temp. &amp; RH:</b>	14°F~140°F (-10°C~60°C), below 70% RH.
<b>Dimensions &amp; Weight:</b>	5.1 x 2.4 x 1.5" 5.3oz (132 x 60 x38 mm, approx. 150g)

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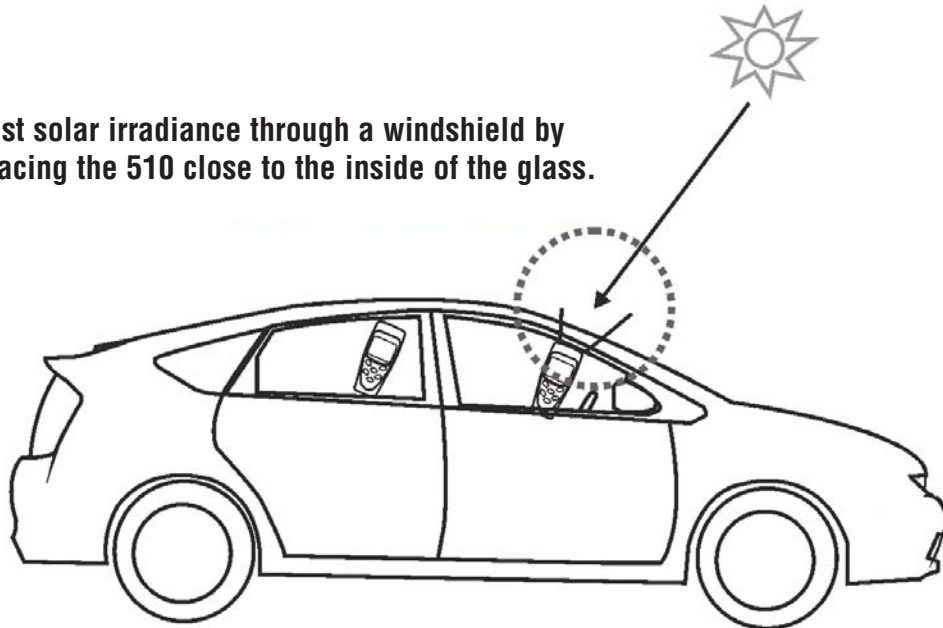
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## TPI 510 Applications

### Measuring Solar Irradiance

Test solar irradiance through a windshield by placing the 510 close to the inside of the glass.



### Measuring Headlight Intensity

Turn on the headlights and place the 510 close to the headlight lens to test light intensity

