

# TES

Reliable in Quality

## TES-132 Solar Power Meter (Datalogging)

- Wide spectral range.
- Excellent long term stability / Cosine corrected.
- Automatic transmission measurements.
- Select either power or transmission.
- Solar energy measurement.
- User calibration factor setting function.
- Select either  $W/m^2$  or Btu / (ft<sup>2</sup> x h) units.
- Data Hold/MAX/MIN/AVG modes.
- Auto Data Memory function. (43000 sets)
- Manual Data Memory function. (99 sets)
- Software and USB interface to PC.





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# 132 Datalogging Solar Power Meter

## FEATURES

- Wide spectral range.
- Excellent long term stability.
- Cosine corrected.
- Automatic transmission measurements.
- Select either power or transmission.
- Solar energy measurement.
- Current time setting function.
- User calibration factor setting function.
- End-mount light sensor.
- Select either W/m<sup>2</sup> or Btu / (ft<sup>2</sup> x h) units.
- Data Hold/MAX/MIN/AVG modes.
- Auto Data Memory function. (43000 sets)
- Manual Data Memory function. (99 sets)
- Software and USB interface to PC.

## APPLICATIONS

- Meteorology.
- Agriculture.
- Solar radiation measurement.
- Solar power research.
- Physics and optical laboratories.
- Solar transmission measurement.
- Identify high performance windows.

## SPECIFICATIONS

Display	LCD display, 4 digit LCD reading
Range	2000 W/m <sup>2</sup> 634 Btu / (ft <sup>2</sup> x h)
Resolution	0.1 W/m <sup>2</sup> 0.1 Btu / (ft <sup>2</sup> x h)
Spectral response	400 to 1000nm
Accuracy	Typically within $\pm 10$ W/m <sup>2</sup> [ $\pm 3$ Btu / (ft <sup>2</sup> x h)] or $\pm 5\%$ , whichever is greater in sunlight ; Additional temperature induced error $\pm 0.38$ W/m <sup>2</sup> /°C [ $\pm 0.12$ Btu / (ft <sup>2</sup> x h)/°C] from 25°C
Angular accuracy	Cosine corrected <5% for angles < 60°
Drift	< $\pm 2\%$ per year
Calibration	User recalibration available
Over-Input	Display shows "OL"
Sampling Rate	4 times/sec
Manual Data Memory and Read	99 sets
Auto Data Memory	43000 sets
Battery	6 pcs 1.5V size AAA
Battery Life	Approx. 200 hours
Operating Temp and Humidity	0°C to 50°C (32°F to 122°F) below 80%RH
Storage Temp and Humidity	-10°C to 60°C below 70%RH
Dimension & Weight	150(L)x72(W)x35(H) mm / Approx. 320g
Accessories Included	Operation Manual, 6 pcs 1.5V size AAA, USB Cable, CD software



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