

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 $Btu / (ft^2 \times h)$ 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.



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^2 or $Btu / (ft^2 \times h)$ 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^2 634 $Btu / (ft^2 \times h)$
Resolution	0.1 W/m^2 0.1 $Btu / (ft^2 \times h)$
Spectral response	400 to 1000nm
Accuracy	Typically within $\pm 10 W/m^2$ [$\pm 3 Btu / (ft^2 \times h)$] or $\pm 5\%$, whichever is greater in sunlight ; Additional temperature induced error $\pm 0.38 W/m^2/^\circ C$ [$\pm 0.12 Btu / (ft^2 \times h)/^\circ C$] from $25^\circ C$
Angular accuracy	Cosine corrected $< 5\%$ for angles $< 60^\circ$
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	$0^\circ C$ to $50^\circ C$ ($32^\circ F$ to $122^\circ F$) below 80%RH
Storage Temp and Humidity	$-10^\circ C$ to $60^\circ C$ 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