

**TES**

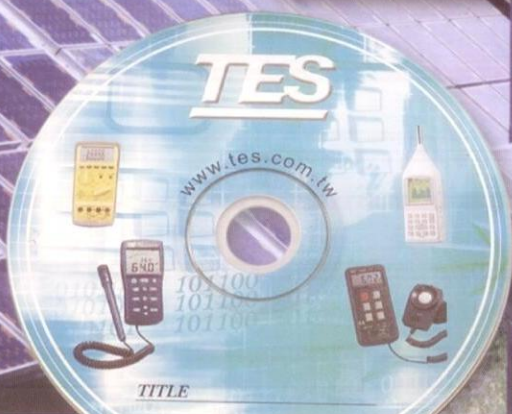
Reliable in Quality

 $W/m^2$   
 $Btu / (ft^2 \times h)$ 

# TES-1333 Solar Power Meter

Sourcing the best efficiency of Solar Energy Reception

- Wide spectral range
- $W/m^2$  and  $Btu / (ft^2 \times h)$  units display
- MAX / MIN / AVG mode
- Solar energy measurement
- Current time setting function





# 1333/1333R SOLAR POWER METER

## FEATURE:

- 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.
- Data Memory and Read function. (99 sets)
- Auto Data Memory and RS232 interface to PC. (TES-1333R)

## APPLICATIONS

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

## SPECIFICATIONS

Display	3-1/2 digits. Max. indication 1999
Range	2000 $W/m^2$ 634 Btu / ( $ft^2 \times h$ )
Resolution	1 $W/m^2$ 1 Btu / ( $ft^2 \times h$ )
Spectral response	400-1100nm
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 Time	Approx. 0.4 second
Manu Data Memory and Read	99 sets
Auto Data Memory	32000 sets (TES-1333R)
Battery	4 pcs size AAA
Battery Life	Approx. 100 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
Weight	Approx. 165g
Dimension	111(L) x 64 (W) x 34(H) mm
Accessories	Carrying Case, Operation Manual, 4 pcs size AAA, RS232 cable (for TES-1333R), CD software (for TES-1333R)



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