

# TES-132 Solar Power Meter Datalogging)



## FEATURES

- 4 digit LCD reading.
- 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. (microSD CARD 2GB
- Manual Data Memory and Read function. (99 sets)
- Auto power off function.
- USB interface.



## APPLICATIONS

- Meteorology
- agriculture
- solar radiation measurement
- solar power research
- physics and optical laboratories
- solar transmission measurement
- identify high performance windows



## SPECIFICATION

Display	LCD display, 4 digit LCD reading
Measuring Range	2000W/m <sup>2</sup> 、 634Btu/ft <sup>2</sup> * h)
Resolution	0.1W/m <sup>2</sup> 、 1Btu/ft <sup>2</sup> *h)
Overrange Display	LCD will show "OL" symbol
Spectral Response	400 ~ 1000nm
Accuracy	Typically within ±10 W/m <sup>2</sup> [±3 Btu / (ft <sup>2</sup> x h)] or ±5%, whichever is the greatest in sunlight ; Additional temperature induced error ±0.38 W/m <sup>2</sup> / [±0.12 Btu / (ft <sup>2</sup> x h / ] from 25
Angular Accuracy	Cosine corrected <5% for angles < 60°
Drift	< ±2% per year
Sampling Rate	1 times / sec
Photo Detector	One silicon photovoltaic detector

Manual Data Memory Capacity	99 sets
Auto Data Memory Capacity	microSD CARD 2GB
Operating Temp / Humidity	0 to 50 32 to 122 / 0% to 80% RH
Storage Temp / Humidity	-10 to 60 14 to 140 / 0% to 70% RH
Power Source	6 pcs 1.5V size AAA battery
Battery Life (typical	30 hours (carbon zinc
Meter Dimensions / Weight	150(L x 72(W x 35(Hmm / 235g
Accessories	Instruction Manual, Battery, CD Software, Micro-USB Cable