



An ISO 9001:2008 Company

DIGITAL SOLAR POWER METER

Model KM-SPM-530

APPLICATIONS :

- Solar radiation measurements
- Solar power research for locating the right site of the solar panels or solar water heater .
- Physics and optical laboratories
- Meteorology
- Agriculture
- Windows performance - calculate the rate of daylight penetration

11 Functions 1 Ranges

FEATURES :

- Solar power measurement with Orientation and Tilt angle
- Easy measurement for rate of daylight penetration
- Auto change for measuring range
- Auto power off with disable function
- Instantaneous display Avg/Min/Max values
- 20 points memory
- Socket of tripod mounting
- Magnetic mount
- Backlit LCD and 4 digits triple display

GENERAL SPECIFICATIONS :

- * Display : Back-lighted LCD & 4 digits triple display.
- * Sensor : High sensitive silicon photodiode.
- * Measuring Range : 0 ~ 2000W/m² (0 ~ 634 BTU (ft²* h) .
- * Spectral Response : 400~1100nm
- * Operating Temperature : 0~50°C (32~122°F)
- * Relative Humidity : Maximum 85%R.H. at 60°C
decreasing linearly to 80% R.H. at 50°C
- * Storage Temperature : -10~60°C (14~140°F)
- * Power Supply : 9V Battery
- * Angular Accuracy : Cosine calibration < 5% (angle < 60°)
- * Low Battery Indication.
- * Accuracy : at 25°C 60%RH
- * Dimension : 140 x 49 x 29mm For Main Instrument & 83 x 54 x 26mm For Sensor Probe.
- * Weight : approx 210 g without battery.

ACCESSORIES : Users Manual, 9V Battery, Carrying case.



Preliminary Data

RELATED PRODUCT :

DIGITAL BTU SOLAR POWER METER

Model - KM-SPM-11



* Display : 3½ Digits 1999 counts LCD Backlight display.

* FUNCTIONS :

- Measuring Range : 1999W/m², 634 BTU (ft²h) .
- Resolution : 1W/m², 1BTU (ft²h) ..
- Accuracy : <±3/ year
- Accuracy : Typically within ±10W / m² { ± 3BTU / (ft²h)}
or ±5%, whichever is greater in sunlight; Additional
temperature induced error ± 0.38 W / m² / °C {±0.12BTU/
(ft²h)/°C} from 25°C.
- Angular Accuracy : Cosine corrected <5% for angles <60°
- Drift : <±2% / per year
- Sampling time : Approx. 0.25second

* SAFETY :

- EMC : This instrument is EMC-compliant & has undergone compatibility tests according to EN61326 (1997)+A1(1998)+A2(2001).

* ADDITIONAL FUNCTIONS :

- End-mount light sensor.
- Select either power or transmission.
- Select either W/m² or BTU / (ft²h) units
- Data Hold / MAX / Min modes.
- Stable for long use long time stability.
- Measurable light sources, including all visible light.
- Low Battery Indication & Auto Power Off.
- * Power supply : Standard 9V battery.
- * Dimension : 132(L) x 60(W) x 38(H)mm
- * Accessories : User Manual, Battery & Carrying case.

All Specifications are subject to change without prior notice



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