



Applications

- Solar Power Plant
- Solar Radiation Measurements
- Solar Power Research for Location of the Solar Panels or Solar Water Heaters
- Physics and Optical Laboratories
- Meteorology
- Agriculture
- Windows Performance Calculate the Rate of Daylight Penetration

Features

- Solar Power Measurement with Orientation and Tilt Angle
- Measurement : Solar Power (illuminance), Orientation, Tilt Angle
- Solar Power Measurement Range : 2000 W/m² or 634 BTU / (ft².h).
- Easy Measurement for Rate of Daylight Penetration
- Auto Change for Measuring Range
- Auto Power off with Disable Function
- Instantaneous, Average, Min/Max Values, Data Hold
- 20 Points Memory, Low Battery Indicator
- Socket for Tripod Mounting
- Operation with 9V Battery
- Magnetic Mount
- Backlight LCD and 4 Digits Triple Display

Specifications

Sensor	High Sensitivity Silicon Photodiode
Spectral Response	400 ~ 1100 nm
Range	0 ~ 2000 W/m ² (0 ~ 634 BTU / ft ² .h)
Accuracy (at 23°C, 60% RH)	± 10W/m ² (± 3 BTU / ft ² .h) or ± 5% (whichever is greater)
Resolution	0.00 ~ 99.99 W / m ² : 0.01 W / m ² ,
	100.0 ~ 999.9 W / m ² : 0.1 W / m ² , 1000 ~ 2000 W / m ² : 1 W/m ²
	0.00 ~ 99.99 BTU / ft ² .h : 0.01 BTU / ft ² .h, 100.0 ~ 634.0 BTU / ft ² .h : 0.1 BTU / ft ² .h
Angular Accuracy	Cosine Corrected < 7% (angle < 60°)
Tilt Angle Range	0 ~ 90°
Tilt Angle Accuracy (at 23°C, 60% RH)	± 1.2° (< 60°), Additional Temperature Induced Error ± 0.1° / °C from 23°C
Sample Time	Approx. 0.4 Second
Operation Temp. & Relative Humidity	0°C ~ 50°C (32°F ~ 122°F) Less than 80% RH
Store Temp. & Relative Humidity	-10°C ~ 60°C (14°F ~ 140°F) Less than 85% RH
Auto Power Off	Enable or Disable (Auto Power off after approx. 10 minutes)
Battery Life	Approx. 30 Hours for Continuous Use
Max / Min / Avg	Yes
Data Hold	Yes
Low Battery Indication	Yes
Backlight Function	Yes
Zero Adjustment	Yes
Over Range Indication	Yes ("--HI--")
Memory	Yes (20 Points Memory)
Compass	Yes
Solar Transmission Measurement	Yes
Tripod Socket	Yes
Weight	220gms Including Battery (approx.)
Dimensions	Main Instrument : 140 x 49 x 29 mm (approx.)
	Sensor Probe : 83 x 54 x 26 mm (approx.)
Accessories	9V Battery, Instruction Manual, Carrying Case