



ENGLISH

Datasheet

Stock No. 123-2219

ISM 410

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.
- Data Memory and Read function. (99 sets)
- Auto Data Memory and RS232 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 x h)
Resolution	0.1 W/m ² 0.1 Btu / (ft ² x h)
Spectral response	400-1100nm
Accuracy	Typically within ± 10 W/m ² [± 3 Btu / (ft ² x h)] or $\pm 5\%$, whichever is greater in sunlight ; Additional temperature induced error ± 0.38 W/m ² /°C [± 0.12 Btu / (ft ² x h)/°C] from 25°C
Angular accuracy	Cosine corrected <5% for angles < 60°
Drift	< $\pm 2\%$ per year
Calibration	User recalibration available
Over-Input	Display shows "OL"
Sampling Rate	4 times/sec
Manual Data Memory Capacity	99 sets
Auto Data Memory Capacity	43000 sets
Battery	4 pcs size AAA
Battery Life	Approx. 100 hours
Operating Temp and Humidity	0°C to 50°C (32°F to 122°F) below 80%RH
Storage Temp and Humidity	-10°C to 60°C below 70%RH
Weight	Approx. 158g
Dimension	110(L) x 64 (W) x 34(H) mm
Accessories Included	Operation Manual , 4 pcs size AAA, RS232 Cable, CD software