



DATA SHEET

SL 100



Solarimeter



Easy to use, for immediate information



Evaluation of generated electric power



Optimum orientation of solar panels, and performances follow-up



Choice and determination of thermal or photovoltaic generators features

Portable autonomous solarimeter can measure solar irrigation for the control of photovoltaic and thermal installations on test or on site.

For QualiSOL, QualiPV certified professionals, the office control for the Guarantee of Solar Result

Features

- Measurement and spot check of solar power in W/m^2
 - instantaneous
 - average
 - min./max. values
 - hold function
- Calculation of energetic exposure in Wh/m^2 during timed dataset*
- Results (Wh/m^2) saved when instrument is switched off

Technical specifications

SL 100 instrument

Solar irrigation measuring range	From 1 W/m^2 to 1300 W/m^2
Energetic exposure measuring range	From 1 Wh/m^2 to 500 kWh/m^2 **
Frequency of measurement	2 / s
Accuracy	5% of measurement
Calculation frequency (W/m^2)	1 / min (average on 60 seconds)
Capacity of measurement (Wh/m^2)	3 days – Results saved when instrument is switched off
Operating temperature	From -10 °C to +50 °C
Storage temperature	From -10 °C to +55 °C
Housing dimensions	58 x 120 x 33 mm
Autonomy	More than 48 hours in continuous mode when using a power supply adapter
Power supply	3 LR3-AAA batteries
Electronic	Digital
Electronic board	Varnish
Conformity	In accordance with RoHS directives

Solar cell



Spectral response	From 400 to 1100 nm
Nominal sensitivity	100 mv for 1000 W/m^2 **
Response in cosine	Corrected up to 80°
Coefficient in temperature	+0,1% / °C
Effective area	1 cm^2
Operating temperature	From -30 °C to +60 °C
Humidity dependence	100% RH
UV performance	Excellent (PMMA filter)
Mode	Photovoltaic
Material	Polycrystallin silicon
Front face	Translucent PMMA
Tightness	Polyurethane resin and housing in PMMA and polyacetol
Weight and dimensions	60 g. 30 x 32 mm
Cable length	1.25 m

*Timed : duration of dataset is expressed in DD/HH/MM/SS.

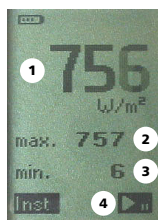
**SL 100 is supplied with a calibration certificate in reference to the WRR (World Radiometric Reference).

Presentation



Measurement

1. Instantaneous W/m^2
2. Maximum value
3. Minimum value
4. Pause - Hold



1. Instantaneous W/m^2
2. Average W/m^2
3. Energetic exposure
4. Duration



Settings

Adjust contrast and activate backlight



Remind last checking date



1. 2. 3. Functions keys
4. Delete and backscreen key
5. Screen key
6. ON/OFF key

Kit content

- Transport case
- 3 LR3-AAA batteries
- Instructions for use
- Calibration certificate

Accessories

- Tripode
- Fixing kit for solar panels
- Extensions: 4 m (possibility to connect 2 extensions max.)
- Power supply adapter

