

Solarimeter SL 200



Technical features

• SL 200 Instrument

Solar irradiation 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 the measure.....	2 / s
Accuracy.....	5% of measurement
Calculation frequency (W/m ²).....	1 / min (average on 60 seconds)
Storage capacity.....	31 days, 44640 saved recording points
Fast datas download.....	1000 values/second
Detection.....	out of range and sensor default
Operating temperature.....	from -10°C to +50°C
Storage temperature.....	from -10°C to +55°C
Package dimensions.....	58 x 120 x 33 mm
Autonomy.....	more than 72 hours in continuous mode Unlimited with power supply adapter
Power supply.....	3 LR3-AAA batteries
Electronic.....	Digital
Electronic card.....	Varnish
Conformity.....	in accordance with RoHS directives



• Solar cell

Spectral response.....	from 400 to 1100 nm
Nominal sensitivity.....	100mv for 1000W/m ² *
Response in cosine.....	corrected until 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
Cell weight.....	60g
Cell dimensions.....	30 x 32 mm
Cable length.....	1,25 m (can be unplugged)

* SL200 is supplied with a calibration certificate in reference to the WRR (World Radiometric Reference).

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



The portable autonomous solarimeter measures the solar irradiation for the control of photovoltaic and thermal installations on test or on site:

- **Measurement and spot check of the solar irradiation in W/m²**
(instantaneous, average, time-recording, min/max values, hold function)
- **Calculation of the energetic exposure in Wh/m²**
during the timed measures campaign*
- **Storage and saving of average values**
of power and updating the energetic exposure calculation every minutes
- **Recorded datas can be read on the display, and the graphic function allows a fast interpretation of the measure file**

■ SL 200

- Easy to use, for immediate informations
- Evaluation of the produced electric powers, optimum orientation of solar panels and performances follow-up.
- Analysis of sunshine on site, on short and long-term period.
- Choice and determination of the thermal or photovoltaic generators features
- Storage and saving of average values of power; update of energetic exposure calculation every minute
- Easy use of datas stored in memory,
- Reading and graphical approximation of datas by 24 hours via transfer data software.

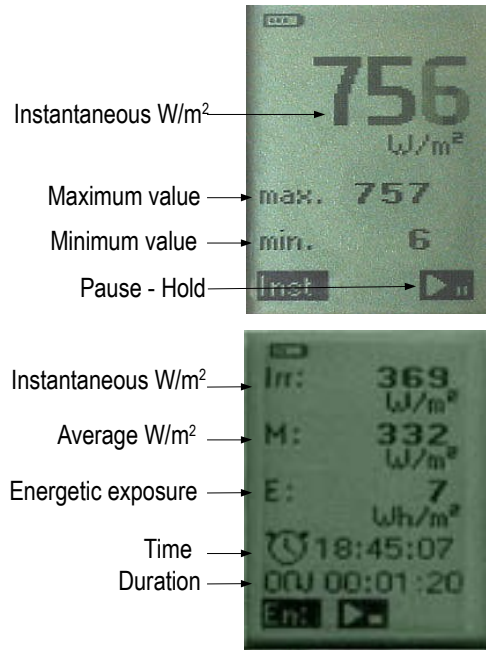


For the QualiSOL,
QualiPV certificated
professionals,
the office control for
the Guarantee of
Solar Result

Presentation



1. Measurement

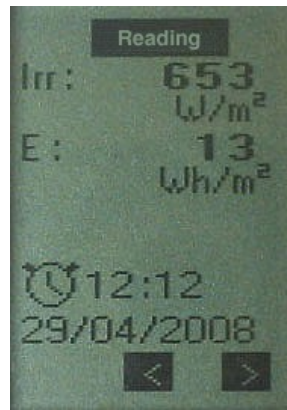


- ① ② ③ Functions keys
- ④ Delete and Back screen key
- ⑤ Screen key
- ⑥ On/Off key

2. Reading



Global values

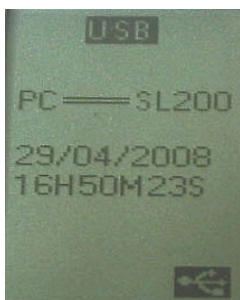


Time-recorded stored values



Scrolling of the successive graphs 00H-24H

3. Transfer



Supplied with ...

- Transport case with protective foam
- Mini-USB connection cable
- 3 LR3-AAA batteries
- CD-ROM with the Instructions for use, setup software for USB driver, datas transfer software.
- Calibration certificate

Optional

- Tripod
- Fixing kit for solar panels
Extensions : 5m, 10m and on demand
- Power supply adapter



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