

## Solarimeter SL 200



### TECHNICAL FEATURES

#### • SL 200 Instrument

Solar irradiation measuring range.....	from 1 W/m <sup>2</sup> to 1300 W/m <sup>2</sup>
Energetic exposure measuring range..	from 1 Wh/m <sup>2</sup> to 500 kWh/m <sup>2</sup>
Frequency of the measure.....	2 / s
Accuracy.....	5% of measurement
Calculation frequency (W/m <sup>2</sup> ).....	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 <sup>2</sup> *
Response in cosine.....	corrected until 80°
Coefficient in temperature.....	+0,1% /°C
Effective area.....	1 cm <sup>2</sup>
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/m<sup>2</sup>**  
(instantaneous, average, time-recording, min/max values, hold function)
- **Calculation of the energetic exposure in Wh/m<sup>2</sup>**  
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

**1. Measurement**

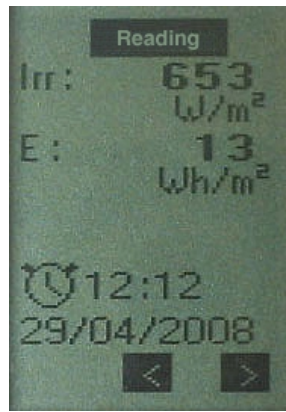


- ① ② ③ Functions keys
- ④ Delete and Back screen key
- ⑤ Screen key
- ⑥ On/Off key

**2. Reading**



Global values



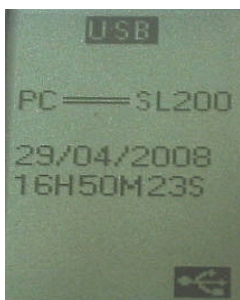
Time-recorded stored values



Graphic display 00H /24H

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, data transfer software.
- Calibration certificate

**OPTIONAL**

- Tripod
- Fixing kit for solar panels
- Extensions : (possibility to connect 2 extensions max)
- Power supply adapter



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**EXPORT DEPARTMENT**  
 Tel : + 33. 1. 60. 06. 69. 25 - Fax : + 33. 1. 60. 06. 69. 29  
 e-mail : [export@kimo.fr](mailto:export@kimo.fr)