

Solarimeter SL 100

TECHNICAL FEATURES

SL100 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 measurement	2 / s
Accuracy	5% of measurement
Calculation frequency (W/m²)	1 / min (average on 60 seconds)
Capacity of measurement (Wh/m²)	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 72 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



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

- Measurement and spot check of solar power in W/m²
 - instantaneous,
 - average,
 - min./max. values,
 - hold function
- Calculation of energetic exposure in Wh/m² during timed dataset *
- Results (Wh/m²) saved when instrument is switched off

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)

SL 100

- 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.

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

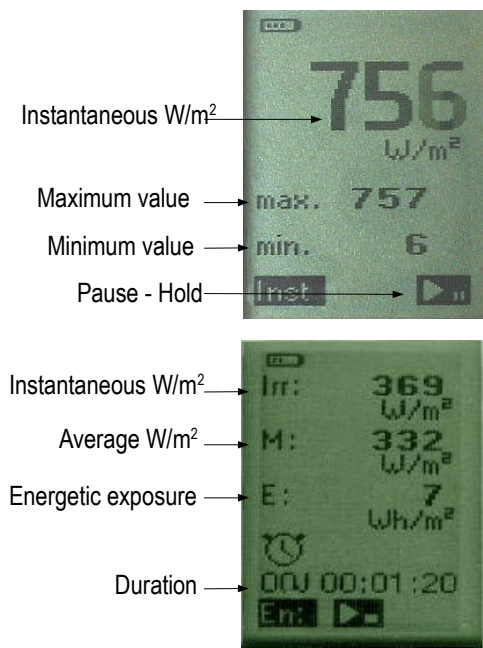
* SL100 is supplied with a calibration certificate in reference to the WRR (World Radiometric Reference).

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



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

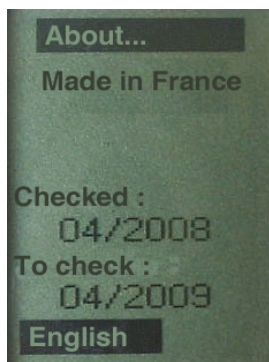
Measurement



Settings



Adjust contrast and activate backlight



Remind last checking date



SUPPLIED WITH...

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

OPTIONAL

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



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 Tel : + 33. 1. 60. 06. 69. 25 - Fax : + 33. 1. 60. 06. 69. 29
 e-mail : export@kimo.fr