KIMO INSTRUMENTS

Technical Data Sheet

Pressure / Temperature / Humidity / Air Velocity / Airflow / Sound level

Solarimeter
SL 100

CE

TECHNICAL FEATURES

SL100 instrument

Solar irrigation measuring range..... from 1 W/m² to 1300 W/m²
Energetic exposure measuring range.. from 1 Wh/m² to 500 kWh/m²
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 irrigation 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/m² *
Response in cosine..... corrected until 80°
Coefficient in temperature..... +0,1%/°C
Effective area..... 1 cm2
Operating temperature..... from -30°C to +60°C
Humidity dependence..... 100% RH
UV performance..... excellent (PMMA filter)
Mode..... photovoltaic
Material..... polycristallin 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)

* 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

SL 100

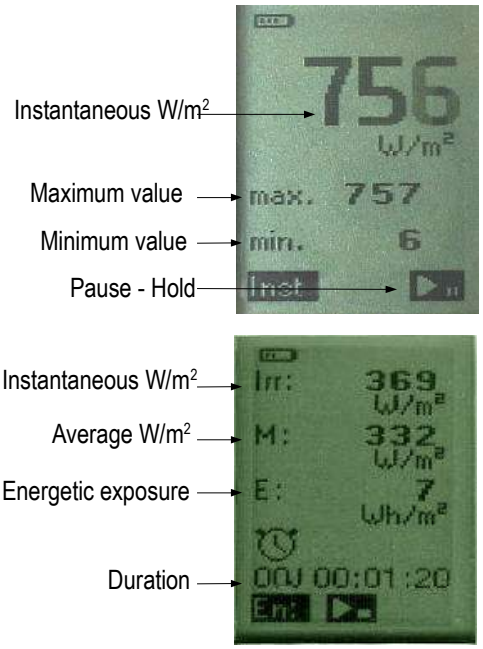
- Easy to use, for immediate information
- Evaluation of generated electric power, optimum orientation of solar panels, and performances follow-up.
- Choice and determination of thermal or photovoltaic generators features.

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

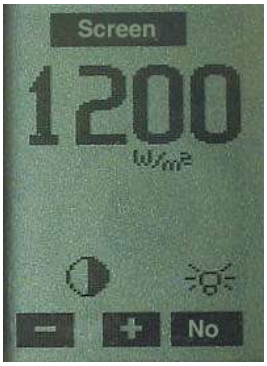


① ② ③ **Functions** keys
④ **Delete and Back screen** key
⑤ **Screen** key
⑥ **On/Off** key

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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