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

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)

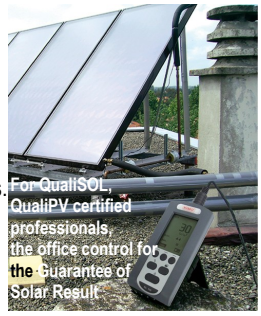
* SL100 is supplied with a calibration certificate in reference to the WRR (World Radiometric Reference).
** Timed : duration of dataset is expressed in DD/HH/MM/SS

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**

SL 100

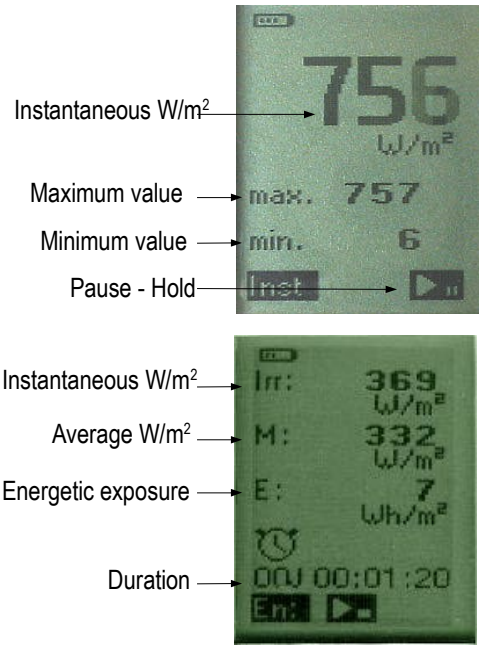
- Easy to use, for immediate information
- Evaluation of generated electric power, optimum orientation of solar panels, and performances follow-up.
- Choice and determination of thermal or photovoltaic generators features.



Presentation

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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