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RD455Solarimeter

Technical features

SL 200 Instrument

Solar irrigation measuring range	from 1 W/m² to 1300 W/m²
Energetic exposure measuring rangefrom 1 Wh/m² to 500 kWh/m²	
Frequency of the measure	2 / s
Accuracy	5% of measurement
Calculation frequency (W/m²)	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	polycristallin silicon
Front face	translucent PMMA
Tightness	Polyurethane resin and housing in PMM/ 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).



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

- Measurement and spot check of the solar irrigation 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.

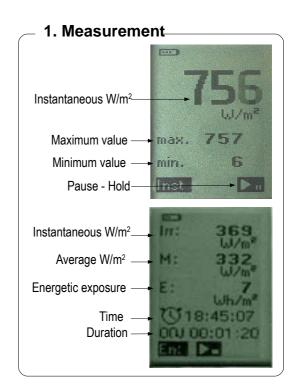


^{**} Timed : duration of dataset is expressed in DD/HH/MM/SS

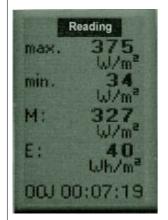
Presentation

- 123 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, datas transfer software.
- Calibration certificate

Optional

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

