



SOLAR02 Remote unit for irradiation and temperature measurements on PV plants





SOLAR-02

Rel. 1.00 of 24/03/10

Remote unit for connection to master PV instruments

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1. TECHNICAL SPECIFICATIONS

Accuracy is defined to reference conditions: temperature 23°C, humidity <80%RH

Irradiation		
Range [W/m²]	Resolution [W/m²]	Accuracy
0 ÷ 1400	1 + INT (100 * 0.1/K)	±(1.0%rdg + INT(1000 * 0.1/K)

K = sensitivity of the probe used to measure irradiation (expressed in mV/kW/m² or in μ V/W/m²)

Probe sensitivity	Range [mV]	Resolution [mV]	Uncertainty
K<10	0.00 ÷ 15.00	0.01	. (4.00/ rda . 0.4 m) /\
K≥10	0.00 ÷ 65.00	0.02	±(1.0%rdg+0.1mV)

Temperature (with PT300N probe)					
Range [°C]	Resolution [°C]	Accuracy			
-20.0 ÷ 99.9	0.1	±(1.0%rdg + 1°C)			

Tilting angle					
Range [°]	Resolution [°]	Accuracy			
1 ÷ 90	1	±(1.0%rdg + 1°)			

2. GENERAL SPECIFICATIONS

Display: LCD Custom, 4 dgt (2000 counts) + decimal comma and point

Power supply

Internal batteries: 4x1.5V alkaline type AAA LR03
Battery life: approx 480 in continuous operation

AutopowerOFF: after 5 minutes of idleness (in independent mode)

Input connectors

USB port: USB 2.0 PYRA/CELL inputs: type Hypertac

Internal memory

Autonomy: approx 1.5 hours (@ PI master meter = 5s)

Mechanical characteristics

Dimensions: 120(L)x 65(W) x 35(H)mm; 5(L)x3(W)x1(H) "

Weight (included batteries): 215g (8 ounces)

Environmental conditions

Operating temperature: $0^{\circ} \div 40^{\circ}\text{C}$ Relative operating humidity: < 80%RHStorage temperature: $-10 \div 60^{\circ}\text{C}$ Storage humidity: < 80%RH

This instrument complies with the requirements of Directive EMC 2004/108/EC