

COMPLETE PHOTOVOLTAIC INSTALLATION TESTER PACK



The SOLAR-150 pack allows you to control electrical safety and performance of the photovoltaic installations. Safe and easy to use, it combines many functions.

ref. SOLAR-150



Functions of the PV150 main box:

- Ground continuity measurement
- Calculation of continuous instantaneous power
- Instantaneous current measurement
- Insulation resistance measurement 250/500/1000V
- Open circuit voltage measurement up to 1000Vdc
- Measurement of short-circuit current up to 15ADC

All this information can be stored in the memory of the device (200 complete tests) and downloaded to PC in CSV format thanks to its USB connectivity. Possibility of creating certificates and professional test reports using the supplied software.

Main Features

Weight 1.04kg
 Dimensions 26.4 x 10.7 x 5.8cm
 Backlit LCD display
 Power supply 6 x 1.5V AA
 Battery life >1000 measurements
 Auto power off. Programmable
 Software only in ENGLISH

Functions of the SURVEY 200 secondary unit:

- Instantaneous irradiance measurement
- Instantaneous measurement of ambient temperature
- Instant measurement of panel surface temperature
- Instantaneous measurement of the inclination of the panels.

All this information can be stored in the memory of the device (200 complete tests) and downloaded to a PC in CSV format thanks to its USB connectivity.

Open Circuit Voltage Measurement (PV Terminals)

Display Range	0.0VDC - 1000VDC
Measuring Range	5.0VDC - 1000VDC
Resolution	0.1VDC maximum
Accuracy	± (0.5 % + 2 digits)
Enunciators	DC voltage polarity correct or reversed

Short Circuit Current Measurement (PV Terminals)

Display Range	0.00ADC - 15.00ADC
Measuring Range	0.50ADC - 15.00ADC
Maximum Power	10kW
Resolution	0.01ADC maximum
Accuracy	± (1% + 2 digits)

Earth Continuity Resistance Measurement (4mm Terminals)

Test Voltage Open Circuit	>4VDC, nominal
Test Current into 2 Ω	>200mA
Display Range	0.00Ω - 199Ω
Measuring Range (EN 61557-4)	0.05Ω - 199Ω
Resolution	0.01Ω maximum
Accuracy	± (2% + 5 digits)
Test Leads Zero	Zero up to 10Ω, by zero button
Visible Warning	≥30V AC or DC at inputs
Circuitry Protection	Test inhibited if ≥30V AC or DC at inputs
Repeat tests as per IEC61557-4	Approx 4000 1 second test

Insulation Resistance

(Auto Test Sequence, PV Terminals and Red 4mm Terminal)

Test Voltage Open Circuit	250V, 500V, 1000V (as per IEC61557-2)
Test Voltage Specification	-0% +20% (open circuit)
Test Voltage @ 1mA	>1mA into UN x (1000Ω/V)
Test Current Short Circuit	<2mA
Display Range	0.05MΩ - 199MΩ

Rpe Voltage Measurement (4mm Terminals)

Display Range	30V - 440VAC/DC
Voltage Measuring Range	30V - 440VDC
	30V - 440VAC 50-60Hz
Resolution	1V
Accuracy	± (5% + 2 digits)

Operating Current (via AC/DC Current Clamp)

Display Range	0.1A - 40.0A
Current Measuring Range	0.1A - 40.0A DC
	0.1A - 40.0A AC 50-60Hz
Resolution	0.1A
Accuracy	± (5% + 2 digits)

DC Operating Power

(via AC/DC Current Clamp and PV Terminals)

Display Range	0.00kW - 40kW
Measuring Range	0.50kW - 40kW
Resolution	0.01kW
Accuracy	± (5% + 5 digits)



Scope of supply

- 1 main device
- 1 secondary device for irradiance and temperature measurements.
- 1 AC/DC current clamp.
- 2 MC4 test lead adapters.
- 2 measurement leads with MC4 fuse
- 2 tests leads, with test probes and detachable crocodile clips (4mm).
- 1 quick start guide.
- 1 UKAS calibration certificate.
- SolarCert and Seaward PC software (English only)
- 1 mounting bracket for the second measuring device
- 1 robust transport bag