

PV200

The most compact I-V curve tracer around.



Technical Specification:

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 $U_N \times (1000\Omega/V)$
Test Current Short Circuit	<2mA
Display Range	0.05MΩ - 200MΩ

To see the **PV200** for yourself, request your live online demonstration today at sewardsolar.com/PV200

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Insulation Resistance (Auto Test Sequence, PV Terminals and Red 4mm Terminal Continued...)

Measuring Range (EN 61557-2)	0.05M Ω - 200M Ω
Resolution	0.01 M Ω maximum
Accuracy	0.05M Ω - 100M Ω \pm (5% + 5 digits) 101M Ω - 200M Ω \pm (10% + 5 digits)
Visible Warning	\geq 30V AC or DC at inputs
Circuitry Protection	Test inhibited if \geq 30V AC or DC at inputs
Repeat tests as per IEC61557-4	Approx 4000 1 second tests

Insulation Resistance (Point to Point, 4mm Terminals)

Test Voltage Open Circuit	250V, 500V, 1000V (as per IEC61557-2)
Test Voltage Specification	-0% +20% (open circuit)
Test Voltage @ 1mA	>1mA into $U_N \times (1000\Omega/V)$
Test Current Short Circuit	<2mA
Display Range	0.05M Ω - 300M Ω
Measuring Range (EN 61557-2)	0.05M Ω - 300M Ω
Resolution	0.01M Ω maximum
Accuracy	\pm (5% + 5 digits)
Visible Warning	\geq 30V AC or DC at inputs
Circuitry Protection	Test inhibited if \geq 30V AC or DC at inputs
Repeat tests as per IEC61557-4	Approx 4000 1 second tests

Rpe Voltage Measurement (4mm Terminals)

Display Range	30V - 440VAC/DC
Voltage Measuring Range	30V - 440VDC 30V - 440VAC 50-60Hz
Resolution	1V
Accuracy	\pm (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



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Operating Current (via AC/DC Current Clamp)

Continued...

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)

General Specification:

Instrument Dimensions and Weight

Weight	1.04kg / 2.31lb
Dimensions	26.4 x 10.7 x 5.8cm / 10.4 x 4.2 x 2.3"
Display	Custom LCD with backlight
Power Source	6 x 1.5V AA cells
Battery life	>1000 test sequences
Auto power down	User programmable
Onboard memory	Up to 999 complete test datasets

Connectivity

- USB download to PC (CSV format)
- Wireless "Solarlink TM" to Survey 200R (range ~30m/100ft)
- NFC transfer of data to PVMobile Android App
- iOS device not supported

App compatibility

- Compatible with Android version 4.2 Jelly Bean
- iOS devices not supported

Software compatibility

- Compatible with SolarCert software (English language only)

Service

- 2 year warranty (subject to terms and conditions, available at www.sewardsolar.com/warranty)

Part Numbers:

PV200 Complete Kit (including instrument, Solar Survey 200R and SolarCert software):

PV200 instrument, 2 x MC4 test lead adaptors, 2 x Combiner box test probes and detachable alligator clips (MC4), 2 x test leads with test probes and detachable alligator clips (4mm), AC/DC current clamp, Solar Survey 200R irradiance meter and temperature probe, Solar Survey 200R mounting bracket, rugged carry bag, quick start guides, UKAS Calibration Certificate (PV200), 2 year warranty, SolarCert PC software.

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