

# PowerTest 200

Multifunction tester designed for the professional electrician.



The **PowerTest 200** multifunction tester has been designed to meet the complex requirements of experienced electricians, with safety features and an easy to use interface that also makes it a great choice for those new to installation testing.

Features including Seaward's 'no-trip' loop impedance testing, auto RCD testing and a remote test probe make it ideal for efficient and accurate testing.

The toolbox-style carry case means leads and accessories can be quickly and easily stored, whilst the padded neck strap, ergonomic design and large dial ensure that the unit is comfortable, practical and easy to use.

## Protection and warnings

The **PowerTest 200** was designed with user safety at the forefront. When carrying out a 'dead' test the unit issues a visual and audible warning if it detects a mains supply. The LED backlight will change from blue to red and stop any ongoing tests, and the large LCD display gives good visibility of results, even in difficult lighting conditions.

For your peace of mind, the **PowerTest 200** is also fully protected against damage when accidentally connected to a wrong test setting, and meets all of the safety and performance requirements of AS/NZS3017.

## Why buy the PowerTest 200?

- > Non-trip loop impedance testing
- > Auto RCD testing
- > Ergonomic design
- > Large easy-to-use dial
- > Comfortable neck strap
- > Toolbox-style carry case
- > Remote test probe



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## Key Features:

- > Voltage measurement up to 440V
- > Continuity test with autostart and null facility to zero out lead resistance
- > Insulation resistance measurement with 250, 500 & 1000V test voltages
- > RCD testing: Trip time, trip current (0.5, 1, 2 and 5 times the rating, dependent on device), auto test and ramp test
- > Test RCDs in auto mode and simply recall the test results once finished
- > Loop impedance and PSC or PFC readings can be shown on one screen
- > Non-trip loop impedance
- > Loop impedance - high current with auto start and direct readout of PSC
- > Phase rotation test will indicate the correct phase sequence
- > Integrated socket probe for easier testing

- > Large backlight screen improving visibility even in difficult lighting conditions

## Standard Accessories

The PowerTest 200 is supplied with the following accessories as standard:

- > Padded neck strap
- > Professional carry case
- > Mains lead
- > 1.2M black test lead
- > 1.2M red test lead
- > 1.2M green test lead
- > Black crocodile clip
- > Red crocodile clip
- > Green crocodile clip
- > Remote probe with test buttons
- > 6 x MN1500 (LR6) (AA) 1.5v batteries
- > Spare 1.6A 1000v HRC FF fuse
- > User manual



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## Technical Specification:

### Voltage

Range	0V to 440V
Accuracy	+/- 5% +/- 2digits from 0 to 100Hz
Resolution	1V

### Continuity

Range	0.01 $\Omega$ to 200 $\Omega$
Accuracy	+/-2% +/-5 digits
Resolution	0.01 $\Omega$ to 1.99 $\Omega$ 2.0 $\Omega$ to 19.9 $\Omega$ 20 $\Omega$ to 200 $\Omega$
Test Voltage	>4Vdc >25Vdc Open Circuit
Test Current	>200mA
Compliance	IEC61557-4 IEC61557-10

### Insulation

Test Voltage	250V/ 500V/ 1000V
Range	0.05M $\Omega$ to 200M $\Omega$
Accuracy	+/-5 % +/-5 digits
Resolution	0.01M $\Omega$ to 19.9M $\Omega$ 2.0M $\Omega$ to 19.9M $\Omega$ 20M $\Omega$ to 200M $\Omega$
Test Current	1mA
Compliance	IEC1557-2 IEC1557-10

### RCD Trip Time Test

Range	0ms to 2000ms
Accuracy	+/-5% +/-2 digits

### RCD Trip Time Test (Continued)

Range	0 to 2000ms ½ 1x 0 to 300ms 1x general (500ms selective) 0 to 40ms 5x
Test Current	10mA/ 30mA/ 100mA (½, 1x, 2x, 5x current) 300mA/ 500mA (½, 1x current)
Compliance	IEC1557-6 IEC1557-10

### RCD Trip Current / Ramp Test

Test current	-5% to 5% I $\Delta$ n and 5I $\Delta$ n (AUS/NZ variant)
Test Current	-10% to 0% 0.5I $\Delta$ n, 0% to +10% I $\Delta$ n and 5I $\Delta$ n
Step Size	0.1*I $\Delta$ n
Step Duration	300ms
Compliance	IEC61557-6 61557-10

### Non-Trip Loop Impedance

Range	0.01 $\Omega$ to 2000 $\Omega$
Typical Accuracy	+/- 5% +/-12 digits (to 1.99 $\Omega$ ) +/-5 digits (to 2000 $\Omega$ )
Resolution	0.01 $\Omega$ to 1.99 $\Omega$ 2.0 $\Omega$ to 19.9 $\Omega$ 20 $\Omega$ to 2000 $\Omega$
Test Current	<15mA RMS

### High Current Line Impedance

Range	0.01 $\Omega$ to 2000 $\Omega$
Typical Accuracy	+/-5% +/-5 digits
Resolution	0.01 $\Omega$ to 1.99 $\Omega$ 2.0 $\Omega$ to 19.9 $\Omega$ 20 $\Omega$ to 2000 $\Omega$
Test Voltage Phase to Neutral	190V to 260V
Phase to Phase	328V to 440V
Test Current	3.5A Peak

### Loop Test PFC Measurement

Range	1A to 26kA
Accuracy	+/-5% +/-5 digits
Range	1A to 999A 1kA to 26kA



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## Line Test PSC Measurement

Range	1A to 26kA
Accuracy	+/- 5% +/- 5 digits
Range	1A to 999A
	1kA to 26kA

## General Specification:

### Category of Tester

300V Category III

### Battery Requirements

6x MN1500 (LR6) (AA) 1.5v

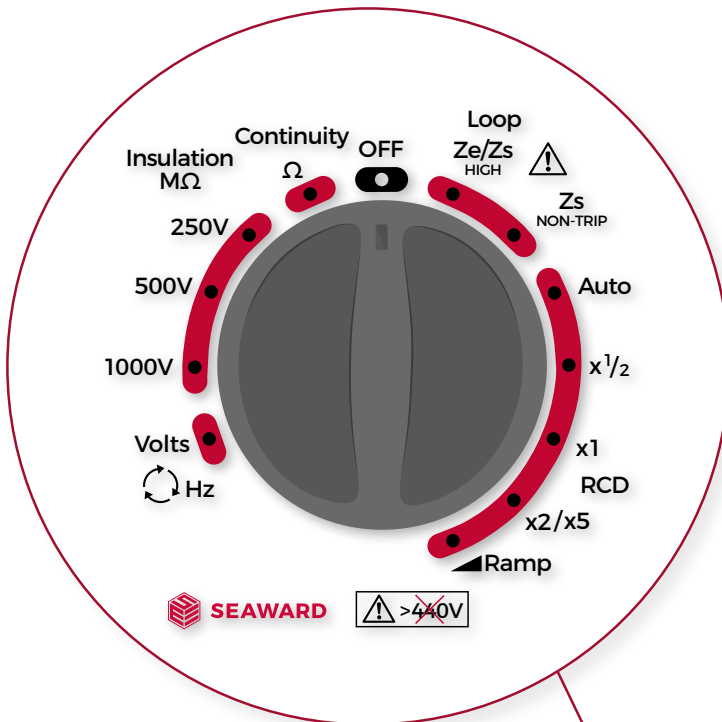
### Instrument Weight and Dimensions

Weight (approx.)	836g 1.84lb
Dimensions (approx.)	260 x 55 x 105mm 10.2 x 2.2 x 0.4"

## Part Number:

PowerTest 200 (Standard accessories included)

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