

# PowerTest 200

Multifunction tester designed for the professional electrician.

**ETL**<sup>LTD</sup>  
ELECTROTEST



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

KEEPING PEOPLE  
SAFE  
FOR OVER  
**35**  
YEARS

[www.electrotest.co.nz](http://www.electrotest.co.nz)



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

### Insulation

Test Voltage 250V/ 500V/ 1000V  
Range 0.05MΩ to 200MΩ  
Accuracy +/-5 % +/-5 digits  
Resolution 0.01MΩ to 19.9MΩ  
2.0MΩ to 19.9MΩ  
20MΩ to 200MΩ  
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% IΔn and 5IΔn (AUS/NZ variant)  
Test Current -10% to 0% 0.5IΔn, 0% to +10% IΔn and 5IΔn  
Step Size 0.1\*IΔn  
Step Duration 300ms  
Compliance IEC61557-6  
61557-10

### Non-Trip Loop Impedance

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

### High Current Line Impedance

Range 0.01Ω to 2000Ω  
Typical Accuracy +/-5% +/-5 digits  
Resolution 0.01Ω to 1.99Ω  
2.0Ω to 19.9Ω  
20Ω to 2000Ω  
Test Voltage Phase to Neutral 190V to 260Ω  
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
Range	1kA to 26kA

## General Specification:

### Category of Tester

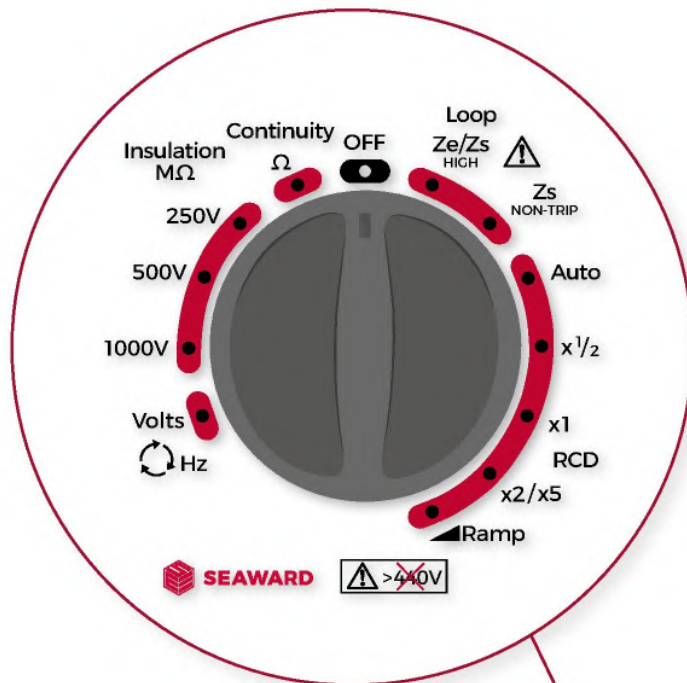
300V Category III

### 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)

414A917

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