

# PRIMETEST 250

A comprehensive handheld PAT tester.  
The Engineer's ideal companion.



Seaward's lightweight, portable Primetest 250 PAT tester is unique in its range of safety tests. The PrimeTest 250 will perform all of the tests required by the IEE Code of Practice, including RCD trip, protective conductor current and touch current where required. The unit also includes a 250V DC insulation test suitable for testing sensitive electrical appliances and surge protected leads.

The PrimeTest 250 is ideal for ensuring that all workplace electrical equipment does not pose a danger to users -including three-phase machinery. As a result, 3-phase industrial plant and equipment used in factories, workshops, schools and colleges can all be tested safely and effectively.

The unique range of tests incorporated in this lightweight and highly versatile instrument means that most workplace appliances can be tested using long life battery power. However, when protective conductor current or touch current measurements are required, simply connecting a mains supply will automatically select the correct test sequence.

The Primetest 250 is designed for ease of use and carries out all electrical safety tests against pre-set limits with measured test results and clear PASS/FAIL indication on a large display.

The PrimeTest 250 is an easy-to-use tester which is ideal for those who need to test a wide range of electrical equipment.

\*For 3 phase and RCD testing, accessories are required.

## Key Features

- Easy to use manual PAT tester
- Comprehensive range of tests
- Clear PASS/FAIL indication
- Capable of both equivalent leakage (using battery power) and protective conductor / touch current (using mains power)
- Lightweight
- Automatic test sequences

## Ideal Users

- In-house safety testing engineers
- Electrical Contractors
- Service & Maintenance Engineers

# PRIMETEST 250 SPECIFICATIONS

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### Earth continuity

Output Current:	200mA minimum into 2 $\Omega$
Test Voltage (o/c):	9V DC nominal
Test Duration (Class I Test):	2s nominal
Display Range:	0.01 ohm to 19.99 ohm
Pass Value (Class I Test):	0.2 $\Omega$

### Insulation resistance

Test Voltage:	250/500VDC @1mA nominal, < 2mA (s/c)
Test Duration (Class I or II):	2s
Display Range:	0.01 Mohm to 19.99 Mohm
Pass Value:	1.0 M $\Omega$ Class I 2.0 M $\Omega$ Class II

### Equivalent leakage

Test Voltage:	40V Nominal AC 50Hz Open Circuit
Test Duration:	2s – 30s nominal
Display Range:	0.1 mA to 19.99mA
Pass Value:	0.75mA CLI / 0.25mA CL II

### IEC lead test

Test voltage:	5V DC nominal
Test Duration:	Time for test (2s max)
Test:	Live / Neutral Checks for o/c, s/c and crossed

### Protective Conductor Current

Test Voltage:	Supply Voltage, max current 13A
Test Duration:	30s maximum
Display Range:	0.15 mA to 9.99 mA
Pass Value:	0.75mA/3.5mA (user selectable with 0.75mA as default)

### Touch current

Test Voltage:	Supply Voltage, max current 13A
Test Duration:	30s maximum
Display Range:	0.10 mA to 5.00 mA
Pass Value:	0.25mA

### 3 phase leakage current \*Requires 3 phase adaptor accessory

Test Voltage:	3 phase supply voltage
Test Duration:	Continuous measurement
Display Range:	0.10 mA to 9.99 mA
Pass Value:	3.5mA

### RCD trip time

Test Voltage:	Mains supply voltage
Test Current:	30mA rms sinusoidal
Test Current Phase:	0°/180° auto switched on alternate tests
Measuring Range:	0ms – 500ms
Pass Value:	200ms

### Power socket check

Input voltage range:	225 – 254V AC max current 13A UK
Indicates configuration of voltage potential:-	Line potential phase to earth Line potential phase to neutral Line potential neutral to earth



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