PrimeTest 200

3 – in – 1 Electrical Safety Multi-Tester

The next generation of hand–held tester – the first ever tester to combine the function of these separate testers into 1 instrument:
***PAT Tester* + *Installation Checker* + *DMM* = PrimeTest 200**

Gives you even greater efficiency, speed of testing and convenience!

Combine the testing requirements needed of a PAT tester, Installation checker and DMM and you have the PrimeTest 200. The ergonomically designed hand-held unit, with integral rubber bumpers, gives you the ability to perform 10 tests including temperature (via a module) and is capable of testing all 230V portable electrical appliances and IT equipment.

Suitable for those working in the service and repair industry for vending, white goods, audio visual, office equipment, catering and for electricians and electrical contractors.

Features

- Rotary switch test selection
- Single Test button action
- Tests Class I and Class II equipment including IT and business equipment
- Extension and IEC Lead tests
- Insulation, Continuity, Socket polarity and RCD tests
- Loop resistance indication without RCD trip
- Voltage (AC and DC)
- Temperature Measurement (with optional accessory module using a type K thermocouple)
- LCD display with analogue bar graph and back light
- Battery life indicator
- Lead compensation up to 10Ω for Earth continuity & low resistance measurement
- Continuity buzzer
- Lock to hold a measurement on the display
- Auto power off when not in use
- Supplied with batteries, lead set, IEC lead, instruction manual and deluxe carry case with shoulder strap

Primetest 200 Technical Specification

Pat Tests

Earth Continuity

Output Current (Load 2Ω):	+/- 200mA DC
Test Voltage (o/c):	> 4VDC
Test Duration (Class I test):	2s
Range & Accuracy:	0.01 - 20Ω +/-5% 2 counts
Max. Resolution:	0.01Ω
Analog Bar Graph:	0 to 20Ω
Bar Graph Accuracy:	10%
Pass Value (Class I test):	0.2Ω

Insulation Test

Test Voltages:	500VDC @ 1mA nominal, < 2mA (s/c)
Test Voltage Accuracy:	+20%, -0%
Duration (Class I or Class II tests):	2s
Auto Range:	2.00MΩ, 20.0MΩ 200MΩ
Accuracy:	±2% +2 digits, 2MΩ 20MΩ, 200MΩ ranges
Resolution:	0.01MΩ from 0 to <2.00MΩ 0.1MΩ from >2.0MΩ to <20.0MΩ 1MΩ from 20 MΩ to <200MΩ
Analog Bar Graph:	0 to 200MΩ
Bar Graph Accuracy:	10%
Pass Value:	2MΩ

IEC Lead Test

Test Voltage:	9VDC
Test Duration:	2s
Test:	Live / Neutral Checks for o/c, s/c and crossed

Dmm Measurements

Continuity

Output Current (Load2Ω):	200mA DC
Test Voltage (o/c):	> 4VDC

Range:	0.01 – 20kΩ, auto ranging at appropriate points.
Accuracy:	±2% +/-2 counts to 20Ω ±5% +/-2 counts to 20kΩ
Resolution:	0.01Ω from 0.01Ω to 19.99Ω 1Ω from 20Ω to 1999Ω 10Ω from 2.00 kΩ to 20.00 kΩ
Analog Bar Graph:	0 to 20kΩ
Bar Graph Accuracy:	10%

Insulation Test: see under PAT tests

Voltage Measurement

Range & accuracy:	250V AC/DC to 400Hz; 2% +2 counts
Resolution:	1V
Analog Bar Graph:	0 to 600V
Bar Graph Accuracy:	10%
Visible Warning:	≤30V AC or DC at inputs
Accuracy:	+/- 2% of reading +/- 2counts

Temperature Measurement

Measuring Range:	-50°C to 400°C
Accuracy:	+/- 5% of reading +/- 2digits
Resolution:	0.1°C

Powered Tests

Touch Current

Test voltage:	Supply Voltage, max current 10A
Test Duration:	2s – 30s nominal
Range & Accuracy:	0.1 – 3.5mA; +/- 10% of reading ± 2 digits
Resolution:	0.01mA
Frequency Response:	DC – 2.5KHz (Defined in BS E61010) (Annex A)
Pass Value:	0.25mA

Differential Leakage

Test Voltage:	Supply Voltage, max current 10A
Test Duration:	2s – 30s nominal
Range Accuracy:	0.1 – 20mA; +/- 5% of reading +/- 2 digits
Conductor Current Resolution:	0.01mA

Frequency Response:	40Hz – 2.5 kHz
Pass Value:	0.25mA

Rcd Test

Test Current:	30mA a rms sinusoidal, starting on a zero crossing at 0° followed by 180°
Test Current Accuracy:	+5%, -0%
Test Duration:	500 ms maximum if RCD does not trip
Display Range:	0 – 500ms
Accuracy:	+/- 10% of reading +/- 2 digits
Resolution:	1ms
Interlock:	Test inhibited if Phase – Neutral or Phase - Earth voltage is not correct or a voltage over 40 V exists between neutral and protective earth
Pass Value:	200mS

Power Socket Test

Input voltage range:	100 – 240V AC max current 10A
Voltage potential:	Indicates configuration of: Line potential phase to earth Line potential phase to neutral Line potential neutral to earth
Earth Loop Resistance Check:	The earth loop resistance is automatically measured when the mains, is detected and the unit is in the RCD switch position.
Ranges:	<2Ω <10Ω <20Ω <50Ω <100Ω >100Ω

General

Power Source	6 x AAA Type disposable Cells
Incoming Supply voltage:	240ac 50Hz mains input, max current 10A
Dimensions & Weight:	11cm (w) x 5.5cm (d) 27 cm (l); 800g