Versatile PAT testing at your fingertips

The Fluke 6200 and 6500 PAT testers verify the electrical safety and operation of portable appliances in accordance with relevant guidelines and regulations. With powerful auto test capabilities and simplified controls they increase the number of tests you can perform per day without compromising results.

A choice of automatic and manual PAT testers

Both models perform all the tests required for class I and class II appliances. For manual testing and low volume applications, choose the cost-effective 6200 PAT model. If you need a more powerful instrument to test large numbers of appliances, the 6500 is the right choice.

Fluke simplifies portable appliance testing

- Compact and lightweight…
  Efficient to work with and easy to carry around– and has extra space in the hard case for accessories.
- One touch simplicity…
  Pre-set and user-definable test routines are initiated from a single button – to speed up test procedures and save you time on site.
- A better way of working…
  Rapid data entry via a QWERTY keyboard (or optional Fluke barcode scanner) and fast data transfer from the main memory or the Compact Flash memory card (6500).

Fluke 6200

Fluke 6500

Also available with European mains socket.

6200

- Dedicated key for each test for 'one-touch' testing
- Pre-set pass/fail levels to save time
- Large backlit display for easy reading

6500

As 6200 but also with:
- Integral QWERTY keyboard for rapid data entry
- Slot for Compact Flash memory card for back-up data storage and transfer to PC
- Pre-set, auto-test sequences for user convenience

300V CAT II **EN61010-1**

Included Accessories
Test lead, Test probe, Crocodile clip, Mains cord

Ordering Information
Fluke 6200   PAT Tester
Fluke 6500   PAT Tester

Not available in all countries

Features

Measurement functions	6200	6500
L N Mains Volts	●	●
Outside Limits Indicators	●	●
Null out facility for earth bond lead	●	●
Protective Earth Resistance PE (200mA)	●	●
Protective Earth Resistance PE (25A)	●	●
Insulation 500V dc	●	●
Protective Earth Conductor Current	●	●
Touch Current	●	●
Substitute Leakage Current	●	●
Appliance Power kVA	●	●
Appliance Load Current	●	●
Seven Segment Custom LCD	●	
Graphical LCD		●
Back Light	●	●
Compact Flash Card receptacle		●
Serial Port – Printing / Downloading	●	●
External printer output	●	●
Front Panel QWERTY Key pad		●
IEC Lead Test	●	●
Auto-testing		●
Pass / Fail Level Programmable Indicators		●
Data Storage		●
Limited Data Storage	●	
Polarity Checks	●	●
Graphical Help Menu On Line		●
Programme Mode		●
Real time clock		●
Front panel results management		●
230V BS1363 Test socket / 230V Mains BS1363 input power plug	●	●

Separate hard case

The compact Fluke PAT testers are supplied with a hard carrying case that not only offers protection during transit but also includes extra storage space for accessories and other tools. They're extremely light, weighing approximately 3 kg (without case) and have integral carrying handles for extra convenience.

Special PAT Kit

If you need a complete PAT tester solution, a purpose made kit is available.
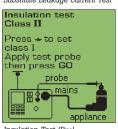
Fluke 6500/UK Kit Contains:

- 6500, Mainframe
- EXTL 100, Extension lead test adaptor
- SP Scan 15, Barcode scanner
- Fluke PowerPat Plus
- Pass 560R, Appliance pass labels
- Fail 100S, Appliance fail labels APP 1000, Barcode appliance number labels
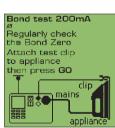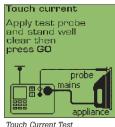
(Kit contents may vary per country)

Display Screens

Substitute Leakage Current Test

Earth Bond Test (R$_{PE}$)

Insulation Test (R$_{ISO}$)

Touch Current Test

Specifications

The accuracy specification for the display range is defined as ± (%reading + digit counts) at 23 °C ± 5 °C, ≤ 75 % RH. Between 0 °C and 18 °C and between 28 °C and 40 °C, accuracy specifications may degrade by 0.1 x (accuracy specification) per °C. The measurement range meets the service operating errors specified in EN61557-1: 1997, EN61557-2: 1997 , EN61557-4: 1997.

Power-on Test

The test indicates reversed L-N, missing PE, and measures the mains voltage and frequency.

Display Range	90 V to 264 V
Accuracy at 50 Hz	± (2% + 3 counts)
Resolution	0.1 V (1V - model 6200)
Input Impedance	> 1 MΩ // 2.2 µF
Maximum Input Mains Voltage	300 V

Earth Bond Test (Rpe)

Display Range	0 to 19.99 Ω
Accuracy (after Bond Test zeroing)	± (5% + 4 counts)
Resolution	0.01Ω
Test Current	200 mA ac -0% +40% into 1.99Ω 25 A ac ± 20% into 25 mΩ at 230 V
Open Circuit Voltage	> 4 V ac, < 24 Vac
Bond Test Zeroing	can subtract up to 1.99Ω

Insulation Test (Riso)

Display Range	0 to 299 MΩ
Accuracy	± (5% + 2 counts) from 0.1 to 50 MΩ ±(10% + 2 counts) from 50 to 299 MΩ
Resolution	0.01 MΩ (0 to 19.99 MΩ) 0.1 MΩ (20 to 199.9 MΩ) 1 MΩ (200 to 299MΩ)
Test Voltage	500 V dc -0% +25% at 500 kΩ load
Test Current	>1 mA at 500 kΩ load, < 15 mA at 0Ω
Auto discharge time	< 0.5 s for 1 µF
Max. Capacitive Load	operational up to 1 µF

Touch Current Test

Display Range	0 to 1.99 mA ac
Accuracy	± (4% + 2 counts)
Resolution	0.01 mA
Internal Resistance (via probe)	2 kΩ
Measuring method	Probe

The appliance under test is energized at mains potential.

Substitute Leakage Current Test

Display Range	0 to 19.99 mA ac
Accuracy	± (5% + 5 counts)
Resolution	0.01 mA
Test Voltage	35 V ac ± 20%
Operational Error	10%

Load/ Leakage Test: Load Current

Display Range	0 to 13 A
Accuracy	± (4% + 2 counts)
Resolution	0.1 A

The appliance under test is energized at mains potential.

Load/Leakage Test: Load Power

Display Range	0 to 999 VA 1.0 kVA to 3.2 kVA
Accuracy	± (5% + 3 counts)
Resolution	1 VA (0 to 999 VA) 0.1 kVA (1.0 kVA to 3.2 kVA)

The appliance under test is energized at mains potential.

Load/Leakage Test: Leakage Current

Display Range	0.25 to 19.99 mA
Accuracy	± (4% + 4 counts)
Resolution	0.01 mA

The appliance under test is energized at mains potential.

PELV Test

Accuracy at 50 Hz	± (2% + 3 counts)
Overload protection	300 Vrms
Warning threshold	25 Vrms

Size (HxWxD): 200 mm x 275 mm x 100 mm
Weight: 3 kg
Two Years Warranty

Recommended Accessories

Fluke PowerPat Plus software

SP1000-02
Mini printer

SP-SCAN-15
Barcode scanner (6500 Fluke only)

EXTL100-02
Extension Test Lead Adapter

PASS
Appliance 560R Pass Labels

BDST3 Snap Tags
Cable Tie

BDST4 Snap Tags
Clip On