

# 6000 Series PAT Testers

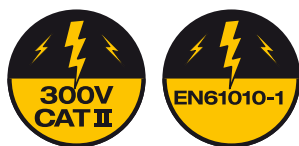


Fluke 6200



Fluke 6500

Also available with European mains socket.



## 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).

## 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

## 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	●	●

### 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

# 6000 Series PAT Testers



## 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)

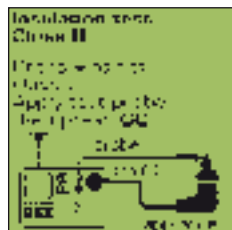
## Display Screens



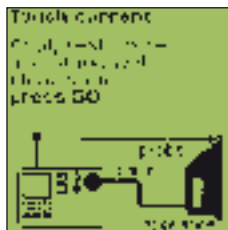
Substitute Leakage Current Test



Earth Bond Test (RPE)



Insulation Test (RISO)



Touch Current Test

## Specifications

The accuracy specification for the display range is defined as  $\pm$  (%reading + digit counts) at 23 °C  $\pm$  5 °C,  $\leq$  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	$\pm$ (2% + 3 counts)
Resolution	0.1V (1V - model 6200)
Input Impedance	> 1 M $\Omega$ // 2.2 $\mu$ F
Maximum Input Mains Voltage	300 V

Earth Bond Test	
Display Range	0 to 19.99 $\Omega$
Accuracy (after Bond Test zeroing)	$\pm$ (5% + 4 counts)
Resolution	0.01 $\Omega$
Test Current	200 mA AC - 0% + 40% into 1.99 $\Omega$ 25 A AC $\pm$ 20% into 25 m $\Omega$ at 230 V
Open Circuit Voltage	> 4 V AC, < 24 Vac
Bond Test zeroing	can subtract up to 1.99 $\Omega$

Insulation Test (Riso)	
Display Range	0 to 299 M $\Omega$
Accuracy	$\pm$ (5% + 2 counts) from 0.1 to 50 M $\Omega$ $\pm$ (10% + 2 counts) from 50 to 299 M $\Omega$
Resolution	0.01 M $\Omega$ (0 to 19.99 M $\Omega$ ) 0.1 M $\Omega$ (20 to 199.9 M $\Omega$ ) 1 M $\Omega$ (200 to 299 M $\Omega$ )
Test Voltage	500 V DC - 0% + 25% at 500 k $\Omega$ load
Test Current	> 1 mA at 500 k $\Omega$ load, < 15 mA at 0 $\Omega$
Auto discharge time	< 0.5 s for 1 $\mu$ F
Max. Capacitive Load	Operational up to 1 $\mu$ F

Touch Current Test	
Display Range	0 to 1.99 mA ac
Accuracy	$\pm$ (4% + 2 counts)
Resolution	0.01 mA
Internal Resistance (via probe)	2 k $\Omega$
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	$\pm$ (5% + 5 counts)
Resolution	0.01 mA
Test Voltage	35 V AC $\pm$ 20%
Operational Error	10%

Load/Leakage Test: Load Current	
Display Range	0 to 13 A
Accuracy	$\pm$ (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	$\pm$ (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	$\pm$ (4% + 4 counts)
Resolution	0.01 mA
The appliance under test is energized at mains potential	

PELV Test	
Accuracy at 50 Hz	$\pm$ (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)



BDST3 Snap Tags Cable Tie



PASS Appliance 560R Pass Labels

# 1650B Series/6000 Series Accessories

FLUKE®

## Accessories for Fluke 1650B Series Installation Testers



### ES165X Earth Spike Test Kit (Fluke 1653B)

Earth Spike Test kit contents:

- Auxiliary earth probes
- Test connection leads and crocodile clips
- Purpose-made carry case



### FVF-SC2 Fluke ViewForms Software (Fluke 1653B)

To address the increasing demands for reporting and documentation, Fluke presents FlukeView Forms documenting software. Download the data from the Fluke 1653B and create an easy report. The Fluke ViewForms Software also supports other Fluke tools.



### TLK 290 Test Probe Kit

- Kit includes three flexible socket probes and a large alligator clip
- To be used on three phase sockets
- Probes have flexible width test points that fit securely in 4 to 8 mm sockets
- CAT III 1000 V, 8 A



MTC1363

MTC77

### Mains Test Cord for 1650B series

- MTC1363 UK plug  
MTC77 Schuko plug

## Accessories for Fluke 6500 Series Portable Appliance Testers



### PASS560R Appliance Pass Labels

Quantity 500



### APP1000/APP2000 Bar Code Appliance Number Labels

APP1000: Labels numbered 0001-1000  
APP2000: Labels numbers 1001-2000  
Label number >2000 on request



### BDST3/BDST4 Snap Tags

BDST3: Cable Tie  
BDST4: Clip On  
Quantity 20. Without labels.



EXTL100-02 (UK plug)

EXTL100-02 (Schuko plug)

### EXTL100 Extension Lead Test Adaptor

Adaptor for testing extension leads. Allows the earth test lead to be connected to the extension leads to perform insulation and earth bond tests.



### SPScan15 Barcode Scanner

Easy to use, low current, intelligent barcode reader. SPScan15 can be used to scan barcodes attached to curved surfaces or where actual contact with the barcode surface is difficult.



### SP1000 Mini Printer

Without using any additional software the SP1000 can be used to directly printout stored test records on to thermal paper. The printer is compact and easily transported and is ideal for test professionals who need to issue an immediate written account of work carried out. The printer is powered by a rechargeable battery and comes complete with mains charger and RS232 Printer Lead.

### SP1000 Paper

Replacement thermal paper for the SP1000 Mini Printer

## Fluke DMS software for 1650B/6000 Series



The Fluke DMS (Data Management Software) is an efficient program for administration and reporting of installation tests in compliance with EN 60364, DIN VDE 0100/0105, BS7671 17th edition wiring regulation and appliance tests in compliance with DIN VDE 0701/0702, ÖVE E 8701.

### DMS 0100/INST Software for Installation Tester Fluke 1653B

Supporting reports for Austria, Germany, UK, Switzerland, Netherlands

### DMS 0702/PAT Software for Portable Appliance Tester Fluke 6500

Supporting reports for Austria, Germany, UK, Netherlands

### DMS COMPL PROF Software for the Fluke 1653B and Fluke 6500

Supporting reports for Austria, Germany, UK, Switzerland, Netherlands

Check the Fluke web for more information.