

TECHNICAL DATA

Fluke 6000 Series Portable Appliance Testers



Key features

Fluke simplifies portable appliance testing

6200

- Dedicated key for each test for 'one-touch' testing
- Pre-set pass/fail levels to save time
- Large backlit display for easy reading
- Single mains socket for appliance connection
- Separate IEC socket for easy mains/extension lead testing
- Detachable test leads for quick field replacement
- Integral carrying handle

6500

As 6200 but also with:

- Integral QWERTY keyboard for rapid data entry
- Additional Compact Flash memory card capability for back-up data storage and transfer to PC
- Large backlit graphics display
- Pre-set, auto-test sequences for user convenience
- Integral site, location and description codes for faster data processing
- Memory review facility for more on-site control

Product overview: Fluke 6000 Series Portable Appliance Testers

The low weight, small size, one-touch solution

The new Fluke 6200 and 6500 PAT testers have redefined auto test capabilities to help you increase the number of portable appliance tests performed per day. They're designed to enable you to work faster without compromising safety – yours or your customer's.

Low weight...

Weighing approx. 3 kg, the 6200 and 6500 are lightweight and easy to carry around when working on-site. The hard carrying case (supplied) not only offers protection during transit but also includes extra storage space for accessories and other tools.

Small size...

They're also extremely compact, and have Fluke's traditional ruggedness to be able to withstand working in the field. Packed with all the features you need for testing portable appliances, a Fluke PAT tester is a complete all-in-one solution.

One-touch solution...

Pre-set test routines are initiated from a single button. This not only simplifies testing but also facilitates a faster, more efficient way of working. The fully automatic 6500 also includes user-definable test routines and a QWERTY keyboard for rapid data entry.

Specifications: Fluke 6000 Series Portable Appliance Testers

Test Specifications	
	<p>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.</p> <p>The measurement range meets the service operating errors specified in EN61557-1: 1997, EN61557-2: 1997, EN61557-4: 1997.</p>
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: 0.1 V (1 V - model 6200)
	Input impedance > 1 M Ω // 2.2 nF
	Maximum input mains voltage: 300 V

Earth Bond Test (Rpe)	Display range:	0 to 19.99 Ω
	Accuracy (after Bond Test zeroing):	$\pm (2.5\% + 4 \text{ counts})$
	Resolution:	0.01 Ω
	Test current:	200 mA AC -0% +40% into 1.99 Ω
		25 A AC $\pm 20\%$ into 25 m Ω at 230 V
	Open circuit voltage:	> 4 V AC, < 24 V AC
	Bond test zeroing:	can subtract up to 1.99 Ω
Insulation Test (Riso)	Display range:	0 to 299 M Ω
	Accuracy:	$\pm (5\% + 2 \text{ counts})$ from 0.1 to 300 M Ω
	Resolution:	0.01 M Ω (0 to 19.99 M Ω)
		0.1 M Ω (20 to 199.9 M Ω)
		1 M Ω (200 to 299 M Ω)
	Test voltage:	500 V DC -0% + 10% at 500 k Ω load
	Test current:	> 1 mA at 500 k Ω load, < 15 mA at 0 Ω
	Auto discharge time:	< 0.5 s for 1 μ F
	Max. capacitive load:	operational up to 1 μ F
Touch Current Test	Display range:	0 to 1.99 mA AC
	Accuracy:	$\pm (4\% + 2 \text{ counts})$
	Resolution:	0.01 mA
	Internal resistance (via probe):	2 k Ω
	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:	$\pm (2.5\% + 3 \text{ counts})$
	Resolution:	0.01 mA
	Test voltage:	35 V AC $\pm 20\%$
Load/Leakage Test: Load Current	Display range:	0 to 13 A
	Accuracy:	$\pm (4\% + 2 \text{ counts})$
	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 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
Environmental Specifications		
Operating Temperature		0 to 40 °C
Relative Humidity		non condensing < 10 °C
		95% from 10 to 30 °C
		75% from 30 to 40 °C
Safety Specifications		
Safety Rating		EN61010-1 CAT II, 300 V
Mechanical & General Specifications		
Size		200 mm (L) x 275 mm (W) x 100 mm (H)
Weight		3 kg
Power Supply		V + 10 % - 15 %, 50 Hz ± 2 %
Power Consumption (Tester)		13 W typical (idle)
		60 W max. during 25A Bond Test
Storage	Temperature:	-10 to 60 °C
	Corrosion:	70 °C @ 95 % RH for 5 days max.
Operating Altitude		0 up to 2000 m



Sealing	IP-40 (enclosure), IP-20 (connectors)
EMC	complies with EN61326-1, criteria B
EMI Immunity	3 V/m

Ordering information



Fluke 6200

Fluke 6200 Portable Appliance Tester

-
- Test lead
 - Test probe
 - Crocodile clip
 - Mains cord
 - Carrying case
-

Fluke 6500

Fluke 6500 Portable Appliance Tester

-
- Test lead
 - Test probe
 - Crocodile clip
 - Mains cord
 - Carrying case
-



Fluke. *Keeping your world up and running.*®

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