

Fluke 6200-2/6500-2 Portable Appliance Testers

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Technical Data

Perform more tests each day

The low weight, small size, one-touch solution.

The Fluke 6200-2 and 6500-2 PAT testers are low weight, small size, one-touch solutions with redesigned auto-test capabilities to help you increase the number of portable appliance tests completed each day. The 6200-2 and 6500-2 are designed to enable you to work faster without compromising safety—yours or your customer's.

Fluke simplifies portable appliance testing

- · 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
- USB port for printing

The Fluke 6500-2 delivers all of this capability, plus:

- Integral QWERTY keyboard for rapid data entry
- USB flash drive capability for storage and transfer to PC
- Large backlit graphic 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





Test specifications

The accuracy specification for the display range is defined as \pm (%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, EN61557-6: 1997, DIN VDE0404-2.

	m	DR 1 0 1 1 1
Power-on test		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	$> 1 M\Omega // 2.2 nF$
	Maximum input mains voltage:	264 V
Earth bond test (R _{ne})	Display range:	0 to 19.99 Ω
- ре-	Accuracy (after Bond Test zeroing):	\pm (2.5 % + 4 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 (R _{iso})	Display range:	0 to 299 MΩ
iso/	Accuracy:	\pm (5 % + 2 counts) from 0.1 to 300 M Ω
	Resolution:	· ·
	nesolution.	0.01 MΩ (0 to 19.99 MΩ)
		0.1 MΩ (20 to 199.9 MΩ)
	Mant walte was	1 M Ω (200 to 299 M Ω)
	Test voltage:	500 V dc -0 % +25 % at 500 kΩ load or (6500-2 only)
		250 V dc -0 % +25 % at 250 kΩ load
	Test current:	$>$ 1 mA at 500 k Ω load, $<$ 15 mA at 0 Ω
	Auto discharge time:	$< 0.5 \text{ s for } 1 \mu\text{F}$
	Max. capacitive load:	Operational up to 1 μ F
Touch current test	Display range:	0 to 1.99 mA AC
	Accuracy:	\pm (4 % + 2 counts)
	Resolution:	0.01 mA
	Internal resistance (via probe):	2 kΩ
	Measuring method:	Probe
	The appliance under test is energized at	
Substitute leakage	Display range:	0 to 19.99 mA AC
current test	Accuracy:	± (2.5 % + 3 counts)
	Resolution:	0.01 mA
	Test voltage:	100 V AC ± 20 %
V 1/2 1		100 7 110 2 20 70
Load/Leakage Test:	UK Discolars was and	0 10 #
Load current	Display range:	0 to 13 A
	Accuracy:	± (4 % + 2 counts)
	Resolution:	O.1 A
	The appliance under test is energized at	mains potential.
	AU Dignlay rango:	0 A to 10 A
	Display range:	
	Accuracy:	± (4 % +2 counts)
	Resolution: The appliance under test is energized at	0.1 A
/		<u> </u>
Load/Leakage test:	Display range:	230 V mains
Load power	UK	0.0 VA to 3.2 kVA
	AU	0.0 VA to 2.4 kVA
	Accuracy:	$\pm (5 \% + 3 \text{ counts})$
	Resolution:	1 VA (O to 999 VA), O.1 kVA (>1.0 kVA)
	The appliance under test is energized at	mains potential.
Load/Leakage test:	Display range:	0 to 19.99 mA
Leakage current	Accuracy:	± (4 % + 4 counts)
	Resolution:	0.01 mA
	The appliance under test is energized at	
	THE ADDITATION UNDER THE INTERPOLATION AT	. mama potential.
PELV test	Accuracy at 50 Hz:	± (2 % + 3 counts)
PELV test		± (2 % + 3 counts) 300 V rms 25 V rms



RCD Test: Trip Current (6500-2 only)	Operational error Nominal Accuracy	±10 % 30 mA ±5 %
RCD Test: Trip Time (6500-2 only)	Standard requirement Operational error	61557 Part 6; tolerance of rated test current 0 % to +10 % ±10 %
	RCD type Display range	AC General-Purpose 30 mA 310 ms
	Resolution Accuracy Trip time limit at 100 % (30 mA)	0.1 ms 3 ms 300 ms
	Trip time limit at 500 % (150 mA)	40 ms

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	Complies with EN61010-1 3rd edition CAT II, 300 V, pol 2 German version only: DIN VDE0404-1 and DIN VDE0404-2 IEC/EN 61557, part 1, 2, 4, 6, 10 CAT II, 300 V, pol 2

Mechanical and general specifications	
Size (LxWxH)	200 mm x 275 mm x 114 mm
Weight	3.13 kg
Power supply	230 V +10 % -15 %, 50 Hz ±2 Hz or (6500-2 only: 110V +10 % -15 %, 50 Hz ±2 Hz)
Power consumption (Tester)	13 W typical (idle) 60 W max. during 25A Bond Test
Storage	Temperature: -10 °C 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, Portable
EMI immunity	3 V/m





Kit configuration and contents vary by region.

Ordering information

The Fluke 6200-2 comes with the following:

- 6200-2 PAT
- User's manual on CD
- Quick reference guide
- Hard Carrying Case
- Test Lead
- Test Probe
- Crocodile Clip
- Mains Cord

The Fluke 6500-2 comes with the following:

- 6500-2 PAT
- User's manual on CD
- Quick reference guide
- Hard Carrying Case
- Test Lead
- Test Probe
- Crocodile Clip
- Mains Cord
- USB Stick
- USB Cable



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