

Fluke 6200-2/6500-2 Portable Appliance Testers

Recorded to the second second

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 malta ma | 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 asset | 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 | 61557 Part 6; tolerance of rated test current 0 % to +10 % |
| | Operational error | ±10 % |
| | RCD type Display range | AC General-Purpose 30 mA 310 ms |
| | Resolution | 0.1 ms |
| | Accuracy | 3 ms |
| | Trip time limit at 100 % (30 mA) | 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

Fluke. The Most Trusted Tools in the World.

Fluke Europe B.V.

P.O. Box 1186 5602 BD Eindhoven The Netherlands Web: www.fluke.co.uk

For more information call: In Europe/M-East/Africa +31 (0) 40 2 675 200 or Fax +31 (0) 40 2 675 222

Fluke (UK) Ltd.

52 Hurricane Way Norwich, Norfolk NR6 6JB United Kingdom Tel.: +44 (0) 20 7942 0700

Tel.: +44 (0) 20 7942 0700
Fax: +44 (0) 20 7942 0701
E-mail: industrial@uk.fluke.nl
Web: www.fluke.co.uk

©2013 Fluke Corporation. All rights reserved. Data subject to alteration without notice. Printed in U.S.A. 11/2013 6000093A_EN Pub_ID: 12135-eng Rev. 03

Modification of this document is not permitted without written permission from Fluke Corporation.



Portable Appliance Testers

| Manufacturer Part Number | Kit Contents |
|------------------------------|---|
| FLUKE 6500-2 DE KIT | Fluke 6500-2 PAT Tester, SPSCAN6000 scanner, APP1000 barcode appliance labels, Fail250 labels, PASS 560R Appliance PASS labels, EXTL100 extension test lead adaptor, DMS 0702/PAT appliance tester software and all standard accessories. |
| FLUKE 6500-2 DE DMS BASIC | Fluke 6500-2 PAT Tester, PASS560R appliance pass labels, EXTL100 extension lead test adaptor, DMS 0702/PAT appliance tester software and all standard accessories. |
| FLUKE 6500-2-DE | All standard accessories listed in datasheet. |
| FLUKE 6500-2-UK | All standard accessories listed in datasheet. |
| FLUKE 6500-2 UK BASIC KIT | Fluke 6500-2 PAT Tester, PASS560R appliance pass labels, EXTL100 extension lead test adaptor, DMS 0702/PAT appliance tester software and all standard accessories. |
| FLUKE 6500-2 UK KIT | Fluke 6500-2 PAT Tester, SPSCAN6000 scanner, APP1000 barcode appliance labels, Fail250 labels, PASS 560R Appliance PASS labels, EXTL100 extension test lead adaptor, DMS 0702/PAT appliance tester software and all standard accessories. |
| FLUKE 6200-2 UK KIT | Fluke 6200-2 PAT Tester, IRP1 register for PAT (log book), FAIL250 labels, PASS560R appliance pass labels, EXTL100 extension lead test adaptor and all standard accessories. |

Contact Information:

www.Farnell.co.uk

www.Newark.com