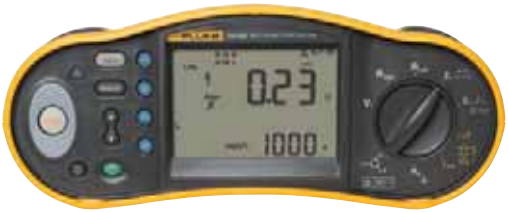
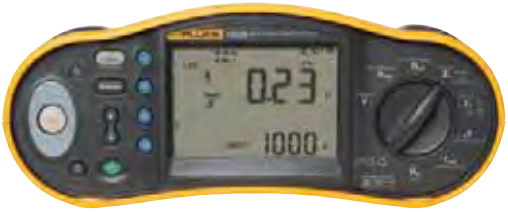
1650 Series Multifunction Installation Testers

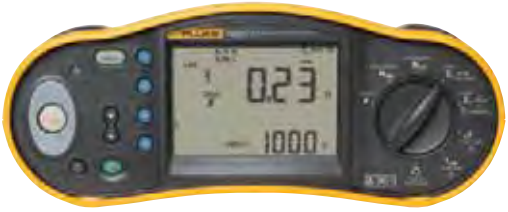
FLUKE®



Fluke 1654B



Fluke 1653B



Fluke 1652C

EN 61557 COMPLIANT

500V CAT III

BS7671 17th Edition IEE Wiring Regulations IEC 60364.6.61, HD 384

Included Accessories

6 AA Cell batteries
C1600 Hard carrying case
Zero Adapter
Mains test cord
TL165X STD Standard Test Lead Set
TL165/UK Fused Test Lead Set (UK only)
Padded carrying strap
Quick reference guide
TP165X Remote control probe and lead
Users manual on CD-ROM

Ordering Information

Fluke 1652C Multifunction Installation Tester
Fluke 1653B Multifunction Installation Tester
Fluke 1654B Multifunction Installation Tester

Check the Fluke website for the various software modules

Extra functionality, faster testing, and as rugged as ever

Safer, easier installation testing. The 1650 Series builds on the rugged reputation of the earlier 1650 Series, only it's re-designed to meet your need for more productive test tools. With new features like the fast, high current loop test (including a non-trip test) and a variable RCD trip current setting, accuracy is even better and the test cycle even faster. With the addition of a unique zero adapter accessory for accurate mains test lead compensation, the 1650 Series continues to set the standard in installation testers. The 1650 Series testers verify the safety of electrical installations in domestic, commercial and industrial applications. They can ensure that fixed wiring is safe and correctly installed to meet the requirements of IEC 60364, HD 384 and BS 7671 17th Edition wiring regulations.

1654B - The complete tester for advanced users
This is the instrument that has it all, in a word: it's complete. From all the test functions you need to in-built memory for documenting results. This makes it the complete solution for professionals, especially contractors, everyone who would want to have the best tool available and always understands (or know) how to use.

1653B - The ideal tester for professional trouble-shooters
This is the instrument that is indeed ideal for professional users due to its additional functionality. It is also ideal since even though it has high-end features, it is still easy to use – even after longer periods of non-use; because operating it is intuitive and not forgotten easily.

1652C - The everyday tester, for every electrical installer
This is the instrument that can be used every single day (day in, day out), and covers all the basic needs. It is the preferred tester for every front-line electrician/installer.

Features

Measurement Function	1652C	1653B	1654B
Voltage & Frequency	●	●	●
	●	●	●
Insulation Resistance	●	●	●
Continuity & Resistance	●	●	●
Loop & Line Resistance	●	●	●
Loop & Line Resistance–mΩ resolution			●
Prospective Earth Fault Current (PEFC/IK) Prospective Short-Circuit current (PSC/IK)	●	●	●
RCD switching time	●	●	●
RCD tripping level	ramp test ●	ramp test ●	ramp test ●
RCD variable current	●	●	●
Automatic RCD test sequence	●	●	●
Test pulse current sensitive RCDs (Type A)	●	●	●
Test smooth dc sensitive RCDs (Type B)			●
Earth Resistance		●	●
Phase Sequence Indicator	●	●	●
Other Features			
Self-test	●	●	●
Illuminated Display	●	●	●
Memory, Interface			
Memory		●	●
Extended Memory			●
Computer Interface		●	●
Time and date (When used with FlukeView software)		●	●
Software (optional)		●	●
Included Accessories			
Hard case	●	●	●
Remote control probe	●	●	●
Zero Adapter	●	●	●

Recommended Accessories

See also page 54 for more details

TLK290

MTC1363 (UK)

MTC77 (Europe)

ES165X 1653B & 1654B

DMS0100/INST

1650 Series Multifunction Installation Testers

FLUKE®

Extra functionality, faster testing, and as rugged as ever

Slim probe design
Thanks to its slim probe with integral test button, you can safely make one-handed measurements on hard to reach points, while keeping your eyes on the panel. This remote probe is powered by the tester so always operable (does not require additional batteries!).

Zero Adapter
For easy, always reliable and accurate compensation for test leads and mains cords. This adapter can be used for all different kind of mains plugs as well as test accessories like probes, alligator clips etc.

Complete kit
All 1650 models are equipped with detachable leads that can be replaced in case of damage or loss. A durable hard case will protect your instrument in tough field conditions.

Specifications

(Check the Fluke web for detailed specifications)

AC Voltage Measurement

Range	Resolution	Accuracy 50 Hz – 60 Hz	Input Impedance	Overload Protection
500 V	0.1 V	± (0.8% + 3 digits)	3.3 MΩ	660 Vrms

Continuity Testing

Ratnge (autoranging)	Resolution	Test Current	Open Circuit Voltage	Accuracy
20 Ω	00.1 Ω	> 200 mA	> 4 V	± (1.5%+3 digits)
200 Ω	0.1 Ω			
2000 Ω	1 Ω			

Insulation Resistance Measurement

Model	Test Voltage	Insulation Resistance Range	Resolution	Test Current	Accuracy
1653B / 1654B	50 V	10 kΩ to 50 MΩ	0.01 MΩ	1 mA @ 50 kΩ	± (3%+ 3 digits)
1653B / 1654B	100 V	20 kΩ to 100 MΩ	0.01 MΩ 0.1 MΩ	1 mA @ 100 kΩ	± (3%+ 3 digits)
1653B / 1654B 1653B / 1654B	250 V	20 kΩ to 200 MΩ	0.01 MΩ 0.1 MΩ	1 mA @ 250 kΩ	± (1.5%+ 3 digits)
1653B / 1654B 1652C 1653B / 1654B	500 V	20 MΩ 200 MΩ 500 MΩ	0.01 MΩ 0.1 MΩ 1 MΩ	1 mA @ 500 kΩ	± (1.5%+ 3 digits) + 10%
1653B / 1654B 1652C	1000 V	20 MΩ 200 MΩ 1000 MΩ	0.1 MΩ 1 MΩ	1 mA @ 1 MΩ	± (1.5%+ 3 digits) + 10%

Loop Impedance Measurement

Range	Resolution	Accuracy [1]
10 Ω	0.001 Ω (1654B)	Hi Current mΩ mode: ± (2 % + 15 digits)
20 Ω	0.01 Ω	No Trip mode: ± (3 % + 6 digits)
		Hi Current mode: ± (2 % + 4 digits)
200 Ω	0.1 Ω	No Trip mode: ± (3 %)
		Hi Current mode: ± (2 %)
2000 Ω	1 Ω	±6 % [2]

Notes
[1] Valid for resistance of neutral circuit <20 Ω and up to a system phase angle of 30°. Test leads must be zeroed before testing.
[2] Valid for mains voltage >200 V.

PFC. PSC Test

Range	1000A / 10kA(50kA)
Resolution and Units	1A / 0.1kA
Accuracy	Determined by accuracy of loop resistance and mains voltage measurements

Computation
Prospective Earth Fault Current (PEFC) or Prospective Short Circuit Current (PSC) determined by dividing measured mains voltage by measured loop (L-PE) resistance or line (L-N) resistance, respectively.

RCD Testing

RCD Type [6]		Model 1652C	Model 1653B	Model 1654B
AC [1]	G [2]	•	•	•
AC	S [3]	•	•	•
A [4]	G	•	•	•
A	S	•	•	•
B [5]	G			•
B	S			•

Notes
[1] AC – Responds to ac
[2] G – General, no delay
[3] S – Time delay
[4] A – Responds to pulsed signal
[5] B – Responds to smooth dc
[6] RCD test inhibited for V >265 ac
RCD tests permitted only if the selected current, multiplied by earthing resistance, is <50 V.

Tripping Time Test (ΔT)

Current Settings	Multiplier	Test Current Accuracy	Trip Time Accuracy
10, 30, 100, 300, 500, 1000 mA, VAR	x 1/2	+ 0% – 10%	± (1% Reading + 1 digit)
10, 30, 100 mA	X 5	+ 10% – 0%	± (1% Reading + 1 digit)

Tripping Current (Ramp) Test

Current Range	Step Size	Dwell Time		Measurement Accuracy
		Type G	Type S	
30 % to 110 % of RCD rated current [1]	10 % of I Δ N [2]	300 ms/step	0 ms/step	±5 %

Notes
[1] 30 % to 150 % for Type A Δ N >10 mA
30 % to 210 % for Type A Δ N =10 mA
20 % to 210 % for Type B
Specified trip current ranges (EN 61008-1):
50 % to 100 % for Type AC
35 % to 140 % for Type A (>10 mA)
35 % to 200 % for Type A (≤10 mA)
50 % to 200 % for Type B
[2] 5% for Type B

Earth Resistance Test (RE) – Fluke 1654B and 1653B only

Range	Resolution	Accuracy
200 Ω	0.1 Ω	± (2% + 5 digits)
2000 Ω	1 Ω	± (3.5% + 10 digits)

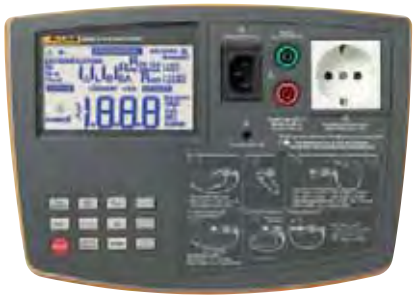
Battery type: Alkaline supplied. usable with 1.2 V NiCD or NiMH rechargeable batteries
Size (HxWxD): 100 mm x 250 mm x 125 mm

Weight: 1.3 kg
Three Year Warranty

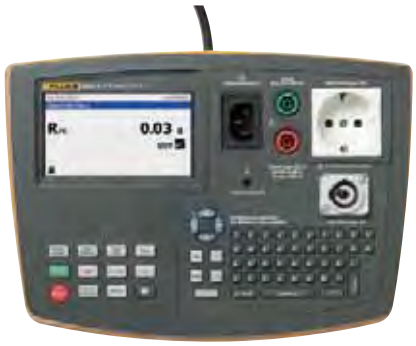
6000-2 Series PAT Testers

FLUKE®

New



Fluke 6200-2



Fluke 6500-2

Also available with UK mains socket.

300V CAT II

EN61010-1

Perform more tests each day

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

The new Fluke 6200-2 and 6500-2 PAT testers have redesigned auto-test capabilities to help you increase the number of portable appliance tests completed each day. It is designed to enable you to work faster without compromising safety – yours or your customer's.

Fluke simplifies portable appliance testing

The Fluke 6200-2 offers:

- 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 data transfer

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

- 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

Features

Measurement functions		6200-2	6500-2
LN mains volts		●	●
Outside limits indicators		●	●
Null out facility for earth bond lead		●	●
Protective earth resistance PE (200 mA)		●	●
Protective earth resistance PE (25 A)		●	●
Insulation 500 V dc		●	●
Insulation 250 V dc	New		●
Protective earth conductor current		●	●
Touch current		●	●
RCD test	New		●
Substitute leakage current		●	●
Appliance power kVA		●	●
Appliance load current		●	●
Seven segment custom LCD		●	
Color dot matrix display	New		●
Back light		●	●
USB flash drive port	New	●	●
USB port • printing / downloading	New		●
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		●	●
110 V appliance test compatible with adapter	New		●

Included Accessories

Test lead, Test probe, Crocodile clip, Mains cord, Hard carrying case, USB stick, USB cable, user manual

Ordering Information

Fluke 6200-2	PAT Tester
Fluke 6500-2	PAT Tester

Not available in all countries

6000-2 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 6500-2/UK Kit Contains:
- 6500-2, Mainframe
- EXTL 100, Extension lead test adaptor
- SP Scan6000, Barcode scanner
- Fluke DMS 0702/PAT software
- Pass 560R, Appliance pass labels
- Fail 100S, Appliance fail labels APP 1000, Barcode appliance number labels

(Kit contents may vary per country)

Fluke 6200-2 display screen

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, EN61557-6:1997, DIN VDE0404-2.

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	0.1V (1V - model 6200-2)
Input Impedance	> 1 MΩ // 2.2 µF
Maximum Input Mains Voltage	264 V
Earth Bond Test	
Display Range	0 to 19.99 Ω
Accuracy (after Bond Test zeroing)	± (2.5% +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 299 MΩ)
Test Voltage	500 V DC - 0% + 10% at 500 kΩ load 250 V DC - 0% + 10% at 250 kΩ load (6500-2 only)
Test Current	> 1 mA at 500 kΩ load, < 15 mA at 0 Ω
Auto discharge time	< 0.5 s for 1 µF
Max. Capacitive Load	Operational up to 1 µF
RCD Test: Trip Current (6500-2 only)	
Operational Error	±10 %
Nominal	30 mA
Accuracy	±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	AC General-Purpose 30 mA
Display Range	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

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	± (2.5% + 3 counts)
Resolution	0.01 mA
Test Voltage	100 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	
* UK: 0 to 13 A, Austria: 0 to 10A, Germany/The Netherlands: 0 to 16A	
Load/Leakage Test: Load Power	
Display Range 230V mains UK: Austria: Germany/The Netherlands:	0.0 VA to 3.2 kVA 0.0 VA to 2.4 kVA 0.0 VA to 3.7 kVA
Accuracy	± (5% + 3 counts)
Resolution	1 VA (0 to 999 VA), 0.1 kVA (>1.0 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

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

Recommended Accessories

See also page 54 for more details


Fluke DMS 0702/PAT software

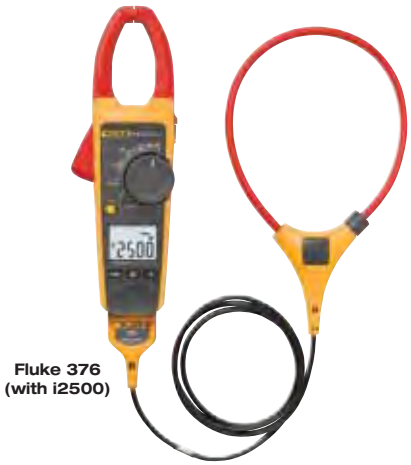

SP6000 Printer


SP-SCAN-6000 Barcode scanner (6500-2 Fluke only)


BDST3 Snap Tags Cable Tie

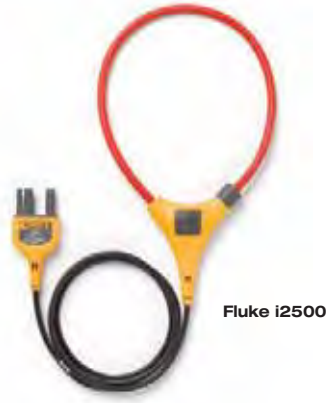

PASS Appliance 560R Pass Labels

370 Series Clamp Meters


Fluke 376
(with i2500)


Fluke 375 Fluke 374 Fluke 373

CAT III 1000V
CAT IV 600V


Fluke i2500

LISTED UL · CSA · TÜV PRODUCT SERVICE · GS · True RMS

Be ready for anything

Our new family of true-rms clamp meters provides a range of state of-the-art features to meet even the most demanding job requirements.
All four of the new clamp meters have improved base features such as a large, backlit display, true-rms standard, CAT IV safety rating and a durably constructed body. Additionally, the 376, 375 and 374 are compatible with the iFlex flexible current probe (included with the 376, sold separately for the 375 and 374), and provide increased measurement readings to 1000 A and 1000 V AC and DC.

Features

	373	374	375	376
True-rms	●	●	●	●
AC current	●	●	●	●
AC voltage	●	●	●	●
Resistance	●	●	●	●
Continuity	●	●	●	●
DC volts	●	●	●	●
DC current		●	●	●
Frequency			●	●
Low pass filter			●	●
Inrush current mode		●	●	●
18-inch iFlex Flexible Current Probe		Optional	Optional	Included
10-inch iFlex Flexible Current Probe		Optional	Optional	Optional

Specifications

Functions	Range	373	374	375	376
Current AC	0 to 600.0 A	2% ± 5 counts	2% ± 5 counts	2% ± 5 counts	
	0 to 999.9 A				2% ± 5 counts
Current DC	0 to 600.0 A		2% ± 5 counts	2% ± 5 counts	
	0 to 999.9 A				2% ± 5 counts
Voltage AC	0 to 600.0 V	1% ± 5 counts	1.5% ± 5 counts	1.5% ± 5 counts	1.5% ± 5 counts
Voltage DC	0 to 600.0 V	1% ± 5 counts	1% ± 5 counts	1% ± 5 counts	
	0 to 1000 V				1% ± 5 counts
Resistance range		0 to 6000 Ω	0 to 6000 Ω	0 to 6000 Ω	0 to 60 kΩ
Jaw opening		32 mm	34 mm	34 mm	34 mm
Max. wire size		750 MCM	750 MCM	750 MCM	750 MCM
Frequency measurement range				500 Hz	500 Hz

iFlex™ Flexible Current Probe

The Fluke iFlex flexible current probes expand the measurement range of select Fluke meters to 2500 A AC and allow technicians to reach crowded spaces.

- Expands the measurement range to 2500 A AC while providing increased display flexibility, ability to measure awkward sized conductors and improved wire access
- Compatible to Fluke 374, 375, 376 and 381
- CAT IV 600 V, CAT III 1000 V
- 7.5 mm coil diameter allows measurement in tight spaces
- Ergonomic design allows easy operation with one hand
- 1.8 m cable
- Three-year warranty

Included Accessories

18-inch iFlex™ flexible current Probe (Fluke 376), test leads, soft carrying case, instruction card, safety information sheet, two AA alkaline batteries.

Ordering Information

Fluke 376	True-rms AC/DC Clamp Meter with iFlex™
Fluke 375	True-rms AC/DC Clamp Meter
Fluke 374	True-rms AC/DC Clamp Meter
Fluke 373	True-rms AC Clamp Meter
i2500-10 iFlex™	Flexible Current Probe 25 cm
i2500-18 iFlex™	Flexible Current Probe 45 cm

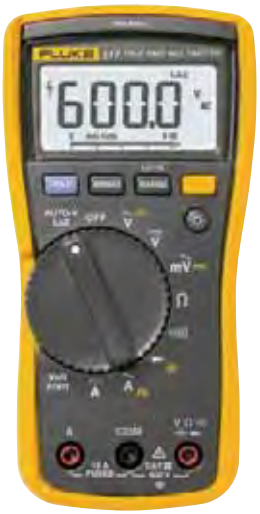
Recommended Accessories


TL223-1
See page 130


AC285
See page 132


TL175
See page 132

110 Series Digital Multimeters


Fluke 117


Fluke 115


Fluke 114


Fluke 116


Fluke 113

600V CAT III
On all inputs

LISTED UL · CSA · TÜV PRODUCT SERVICE GS · VDE · True RMS

Compact design for ergonomic one-handed operation

The Fluke 110 Series has five true-rms DMMs, each for specific users. The compact instruments offer convenient one-handed operation and a backlit display with large, easy-to-read digits.

Fluke 117 Electrician's Multimeter with Non-Contact Voltage
The 117 is for electricians working in commercial and non-commercial premises (like hospitals and schools). It includes extras like non-contact voltage detection for faster and safer operation.

Fluke 116 Multimeter with Temperature and Microamps
The 116 is for heating, ventilation and air conditioning (HVAC) engineers. It includes temperature measurement and microamp current ranges to quickly troubleshoot HVAC problems.

Fluke 115 Field Service Testing Multimeter
An everyday multimeter for technicians, the 115 is for electrical and electronic testing in field service, industrial, and applications where more than the basic functions simplify work.

Fluke 114 Electrical Multimeter
The 114 is for electrical troubleshooting and straightforward 'go/no-go' in residential/commercial testing. It has all the basic functions plus a special feature to prevent false readings caused by ghost voltage.

Fluke 113 Multimeter
The 113 is for basic electrical tests and repairing most electrical problems. Features include Fluke's VCHEK™, added measurement functions, backlight and conformance to the latest safety standards.

Features

	113	114	115	116	117
True RMS readings	AC	AC	AC	AC	AC
Counts	6000	6000	6000	6000	6000
Backlight	●	●	●	●	●
Analog bargraph	●	●	●	●	●
AutoVolt: Automatic AC/DC voltage selection		●		●	●
VoltAlert™, Non-contact voltage detection					●
Built-in thermometer for HVAC applications				●	
LoZ: low input impedance to prevent ghost voltage		●		●	●
VCHEK™ LoZ low impedance measurement function to simultaneously test for voltage or continuity	●				
Min/Max/Average to record signal fluctuations	●	●	●	●	●
Resistance, continuity	●	●	●	●	●
Frequency, Capacitance, Diode test	-/ ●/ ●		●	●	●
Microamps to test flame sensors				●	
Display hold	●	●	●	●	●
Auto/manual ranging	●	●	●	●	●
Low battery indication	●	●	●	●	●
Compact case with removable holster	●	●	●	●	●

Specifications

(Check the Fluke web for detailed specifications)

Functions	Maximum	Max. resolution	113	114	115	116	117
Voltage DC	600V	1mV	±(0.5%+2)	±(0.5%+2)	±(0.5%+2)	±(0.5%+2)	±(0.5%+2)
Voltage AC	600V	1mV		±(1.0%+3)	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)
Current DC	10.00A	1mA			±(1.0%+3)		±(1.0%+3)
Current AC	10.00A	0.01A			±(1.5%+3)		±(1.5%+3)
Resistance	40MΩ (113: 60KΩ)	0.1Ω	±(0.9%+2)	±(0.9%+1)	±(0.9%+1)	±(0.9%+1)	±(0.9%+1)
Capacitance	10000µF	1nF	±(1.9%+2)		±(1.9%+2)	±(1.9%+2)	±(1.9%+2)
Frequency	50kHz	0.01Hz			±(0.1%+2)	±(0.1%+2)	±(0.1%+2)
Temperature	-40°C/+400°C	0.1°C				±(1.0%+10)	
VCHEK™	600.0V AC/DC	0.1V	±(2.0%+3)				

Accuracies are best accuracies for each function

Battery type: 9 volt Alkaline, 400 hours typical
Size (HxWxD): 167 mm x 84mm x 46 mm
Weight: 0.55 kg (including batteries)
Three Year Warranty

Included Accessories

Test leads with 4 mm lantern tips, holster, installed 9V battery and users manual

Ordering Information

Fluke 113	True RMS Multimeter
Fluke 114	True RMS Multimeter
Fluke 115	True RMS Multimeter
Fluke 116	True RMS Multimeter
Fluke 117	True RMS Multimeter
Fluke 117/323 Kit	Electricians Combo Kit
Fluke 116/62 MAX+ Kit	Combo Kit
Fluke 116/323 Kit	Combo Kit

(see page 5)

Recommended Accessories

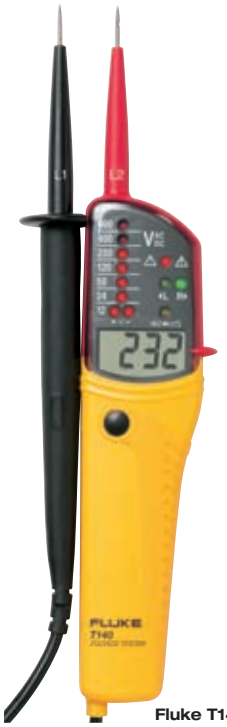

C50
See page 138


TL223-1
See page 130


MC6
See page 141


TPAK
See page 140

T100 Series/T50
Voltage and Continuity Testers



Fluke T140

Fluke T120


Fluke T100


Fluke T50

600V CAT IV

600V CAT III

The fast and easy solution to voltage, continuity and phase rotation testing

Fluke T50
Offers a low cost solution to voltage-continuity measurement. It contains an acoustic and optic continuity test and features a single pole test for phase detection.

Fluke T100 Series
The fast and easy solution to voltage, continuity and resistance measurements. Ideal for site conditions, the 3 models of the T100 Series 2-pole testers have a rugged construction and ergonomically formed housing for perfect handling. All models offer a patented three-phase rotation detection system providing quick phase rotation indication. Moreover they have a special electrical torch function for working in low light level environments and have an ingress protection rating of IP65. The T100 Series are compliant with EN 61010-1 and EN61243-3 requirements.

Features

	T50	T100	T120	T140
Display			LCD	LCD
Led Bargraph	10 LED's	12 LED's	12 LED's	12 LED's
Backlight				●
Resistance measurement				●
Switchable load				●
Voltage test	●	●	●	●
Optical and acoustical continuity test	●	●	●	●
Rotary field indication		●	●	●
Single pole test for phase detection	●	●	●	●
Indication of polarity	●	●	●	●
Electrical torch function		●	●	●
Probe tip protection		●	●	●
The voltage display also functions when using discharged - or o batteries	●	●	●	●

Specifications

	T50	T100	T120	T140
Voltage AC/DC	12 - 690 V	12 - 690 V	12 - 690 V	12 - 690 V
Continuity	0 - 200 kΩ	0 - 400 kΩ	0 - 400 kΩ	0 - 400 kΩ
Frequency	0 - 65 Hz	0 - 400 Hz	0 - 400 Hz	0 - 400 Hz
Phase rotation	-	100 to 690 V	100 to 690 V	100 to 690 V
Resistance measurement	-	-	-	Up to 1999 Ω
Response time	< 0.1 s	< 0.1 s	< 0.1 s	< 0.1 s

Size T50 (HxWxD): 210 mm x 40 mm x 22 mm
Size T100/T120/T140 (HxWxD):
240 mm x 56 mm x 24 mm
Case: T100/T120/T140: IP65
(water-jet and dust tight protection)
T50: IP54

Weight T50: 130 g
Weight T100/T120/T140: 180 g
Two year warranty

Recommended Accessories


C23 (T50)


C33 (T100 Series)

Included Accessories
Two 1.5V batteries and instruction sheet

Ordering Information

Fluke T50	Voltage/Continuity Tester
Fluke T100	Voltage/Continuity Tester
Fluke T120	Voltage/Continuity Tester
Fluke T140	Voltage/Continuity Tester

UK versions are compliant with GS38

10861-eng Rev. 05