

T90/T110/T130/T150 Voltage and Continuity Testers

Rugged, high-quality testers for fast test results the way you need them

All electricians need a two-pole tester. Experienced professionals know that they can—and should trust their job, their reputation and even their personal safety to Fluke electrical test tools. Our new family of two-pole voltage and continuity testers is no exception. Built with state-of-the-art measurement and safety technology, these testers offer everything you expect from Fluke, and a little bit more.

Technical Data

Listening to customers. Making better tools.

The new Fluke two-pole voltage and continuity testers are now more rugged and easier to use than ever before.

- Fast test results the way you need them, with large, easy-to-use buttons, bright backlights, and clear audible and physical indicators designed for any work situation.
- Rugged, high-quality construction is built to last. This includes a heavy duty molded case, a thicker cord with wear indicator, sturdy battery case, and well-fitting and durable probe protector.
- Enhanced ergonomic design feels good in your hand, is easy to use (even with gloves) and quick, secure probe docking.
- A complete family of testers with the features, functions, and price/performance to fit your applications and preferences.

Built to work the way you work

Fluke's new two-pole testers are built with you in mind. They give you the best combination of safety, ease-of-use and fast answers available anywhere.

- CAT IV 600 V, CAT III 690 V safety rating. Fluke's new family of two-pole testers comply with both regulation HSE GS 38 (tip caps) and IEC EN 61243-3: 2010, the most recent and applicable standards for this type of test equipment.
- 4 ways to detect ac/dc voltage. Fluke two-pole testers make answers easy to understand, indicating voltage four ways: A clear, instantly visible LED indicator, a bright digital display of the measurement value, an audible continuity test. and vibration



to give tactile feedback (vibration indicator on T110, T130, T150). It's your preference. Use the most effective method for each situation.

- Backlit graduated scale and backlit indicators. Bright backlights ensure that the buttons and the indicators are visible under any lighting conditions—and you can easily see and understand the answers.
- Vibration provides tactile feedback (T110, T130, T150). Even when viewing the display or hearing the beeper is difficult, you'll know voltage is present. This is especially useful in noisy environments, or when you can't take your eyes off the probes.
- Audio on/off for testing in quiet areas. If you're working in quiet surroundings, such as a medical or office setting, you don't want to disturb people in the vicinity with noises. The tester's acoustic alert switches on or off to fit your environment.
- Never guess whether your batteries are in good working order. The low battery indicator gives you advance warning when they fall below proper working voltage.

- Detects voltage even with discharged batteries. The tester can still detect the presence of voltage (>50 V ac, >120 V dc) even with dead batteries, an important safety feature. You should always use your two-pole tester with working batteries, but for that rare time when your batteries fail in the field, it's nice to know you still have this one indication of live voltage.
- **Improved probe docking for secure storage**.When the probes are docked, the two-pole tester is ready to use, with proper spacing for instant testing on standard outlets. If you've ever been frustrated with wobbly probes that slowed you down, you'll appreciate Fluke's rugged design.
- Phase rotation indicator for 3-phase systems. Where three-phase power supplies feed motors, drives and electrical systems, use Fluke's innovative three-phase rotation detection system to quickly determine phase sequence. Ensure the system is wired correctly, without reaching for another tool.
- **RCD functionality.** Convenient two-button controls allow you to draw more current from the circuit under test and intentionally trip Residual-Current Devices (RCDs) remotely and determine if they are wired correctly. A Quick Start Guide covering the basics of RCD testing is included with the product.
- **Display hold (T130, T150).** Focus on placing your probes, take the measurement, then read the LC display.
- Built in electric torch (T110, T130, T150). Light up dim testing environments at the touch of a button for faster, safer probing.





- Single-phase voltage offers fast identification of live conductors. Need to verify that a row of "hot" conductors are indeed connected to power? The two-pole tester can tell with you a single touch of the main probe. Simply touch a live conductor and the probe instantly give an audible and visual signal if the power is on. A great timesaver before you begin actual testing.
- Probe tip protection adapts to your changing environment. Push-on probe tips reduce metal exposure from 19 mm to 4 mm, reducing the change of

chance of accidentally touching the wrong conductor when probing in tight spaces. The probe tips of the two-pole tester are threaded, taking optional screw-on 4 mm diameter tips for applications where more sturdy probing may be required.

- **Probe tip protector and storage accessory.** Never lose the push-on caps and 4 mm diameter tips again. As a bonus, the tool's storage serves as an extra hand when opening UK electrical safety outlets.
- **Resistance testing (T150)**. Testers measure and display resistance up to 1999 ohms, adding more power and versatility to this essential tester.
- WearGuard[™] insulation shows damage to test leads. The two-pole tester's rugged, durable test leads have two layers of insulation for added durability. But if the inner, contrasting-colored layer is showing, that's a sign that the test leads have been damaged and replacement is in order.

Selection table

Features	T90	T110	T130	T150
Backlit LED indicator	•	•	٠	•
Backlit LCD digital display			LCD	LCD
Continuity test–visual results	•	•	•	•
Continuity test—audible results	•	• with on/off	• with on/off	• with on/off
Vibratory indicator under load		•	•	•
Display hold			٠	•
Voltage test	•	•	•	•
Indication of polarity	•	•	•	•
Resistance measurement				•
Switchable load		•	•	•
Single pole test for phase detection	•	•	•	•
Rotary field indicator		•	٠	•
Probe tip protection	•	•	•	•
Voltage display with discharged batteries	•	•	•	•
Electrical torch function		•	•	•
Wear indicator test lead wire	•	•	•	•



Specifications

	T90	T110	T130	T150	
Voltage ac/dc	12 V to 690 V	12 V to 690 V	6 V to 690 V	6 V to 690 V	
Continuity	0 to 400 kΩ				
Frequency	0 / 40 to 400 Hz				
Phase rotation	– 100 V to 690 V				
Resistance measurement	—	—	—	Up to 1999 Ω	
Response time (LED indicator)	< 0.5 s				
200 k Ω input impedance	Current draw 3.5 mA @ 690 V, Current draw 1.15 mA @ 230 V				
7 k Ω input impedance (with load buttons pressed)	– Current draw 30 mA @ 230 V		30 V		
Safety rating	CAT II 690 V CAT III 600 V	CAT III 690 V, CAT IV 600 V			
IP rating	IP54	IP64	IP64	IP64	

General specifications

Power requirement	2-AAA batteries
Net weight	180 g (6.4 oz) (T90) 280 g (9.9 oz) (T110. T130, T150)
Size (LxWxH)	23 cm x 6.5 cm x 3.8 cm (T90) 26 cm x 7 cm x 3.8 cm (T110. T130, T150)
Warranty	2 years
Country of origin	Romania

Ordering information

FLUKE-T90Voltage/Continuity TesterFLUKE-T110Voltage/Continuity Tester With Switchable LoadFLUKE-T130Voltage/Continuity Tester With LCD, Switchable LoadFLUKE-T150Voltage/Continuity Tester With LCD, Ohms, Switchable Load

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TECHNICAL DATA

Fluke PRV240 Proving Unit



REDUCES RISK Reduces the risk of shock and arc flash risk hazard

BATTERY LIFE 5,000 tests per set of four AA batteries

SIMPLE TO USE Single LED indicates functionality

SAFETY RATING IEC61010-1, IEC61010-2-030

WARRANTY One-year

Unique, compact, convenient

The Fluke PRV240 Proving Unit is a portable, pocket-sized, battery-powered voltage source. It is unique in that it sources stable ac and dc voltages for both LoZ and HiZ instruments.

Designed for safety and compliance

The Fluke PRV240 provides a safe method to verify that your electrical test tool is operating properly before you conduct any live tests. The concept of "Test Before Touch" (TBT) involves testing your meter against a known live source before and after the actual measurement. This sequence verifies that your test tool is operating properly during the actual measurement.

Verify your test tool without unnecessary exposure to shock and arc flash. Using the PRV240 reduces the need for personal protective equipment (PPE) when a known voltage source is not available for verification of your tester or multimeter before test before TBT are performed. PPE is still needed for absence of voltage testing when appropriate.

Key benefits

- Using the PRV240 reduces the risk of shock and arc flash by validating the functionality of test tools without placing yourself in a potentially hazardous electrical environment
- Sources both ac and dc steady-state voltage—supplies 240 V dc/ac
- A single LED indicates functionality, making this unit a simpleto-use solution for complying with TBT verification of your test tool
- Compatible with both high impedance or low impedance multimeters, clamp meters or two pole testers
- Voltage is sourced through recessed contacts that are activated when tested probes are inserted to avoid accidental contact
- Includes TPAK magnetic hanging strap
- Long battery life-5,000 tests per set of four AA batteries





Specifications

Output voltage	240 V ac rms or dc	$\pm 10\% \ge 1 M\Omega$		
	LoZ >3 kΩ load	60 V ac typical 50 V ac rms minimum		
LED power indicator	Turns on when output voltage is present			
Battery	4 AA Alkaline batteries NEDA	24 A IEC LR03		
Battery life	5000 (5-second duration) test cycles with >1 M Ω load, 300 tests minimum with >3 k Ω load			
Operating temperature	-10 °C to +50 °C			
Operating humidity	0% to 90% (0 °C to 35 °C)	0% to 70% (35 °C to 55 °C)		
Operating altitude	2000 m			
Dimensions	11.7 cm x 7.4 cm x 2.8 cm (4.6 in x 2.9 in x 1.1 in), Pollution Degree 2			
Weight	0.23 kg (8 oz) includes batteries			
Safety	IEC61010-1, IEC61010-2-030			
Warranty	One-year			
Electromagnetic Compatibility (EMC)	IEC 61326-1	Portable EM environment; CISPR 11, Group 1, Class A		
	US (FCC)	47 CFR 15 subpart B, this product is considered an exempt device per clause 15.103		
	Korea (KCC)	Class A Equipment (Industrial Broadcasting & Communication Equipment)		
	This product meets requirements for industrial (Class A) electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.			

Ordering information

PRV240 Proving Unit

Included

TPAK hanging strap, four AA batteries, instruction sheet

Kits

FLK-3000FC/PRV240 3000FC DMM + PRV240 Proving Unit Kit FLUKE-87V/PRV240 FLUKE-87V DMM + PRV240 Proving Unit Kit FLUKE-117/PRV240 FLUKE-117 DMM + PRV240 Proving Unit Kit FLUKE-376/PRV240 FLUKE-376 CLAMP + PRV240 Proving Unit Kit FLUKE-T5-1K/PRV240 FLUKE-T5-1000 + PRV240 Proving Unit Kit FLUKE-T150/PRV240 FLUKE-T150 + PRV240 Proving Unit Kit

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