



Quick Start

Non-Contact Voltage Detector + Flashlight VP54

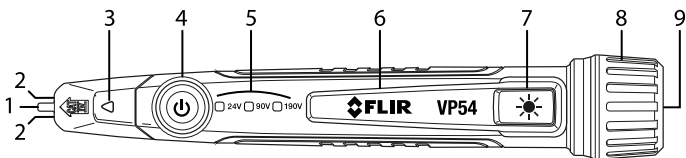


Introduction

The VP54 detects AC voltage at electrical outlets, junction strips, electrical circuits, and other devices without having to contact the device physically.

The VP54 has three ranges: 24 V, 90 V, and 190 V. Tactile vibration, audible beeper, and visual cues alert the user when AC voltage is detected. For complete instructions, refer to the user manual, available from the Flir website.

Description



1. Sensor tip
2. Tip lighting
3. Alarm indicator
4. Power button (short press ON, long press OFF) and range select button (short press)
5. Range indicators (also show low battery and device fault conditions)
6. Pocket clip
7. Flashlight button (short press ON, long press OFF)
8. Battery compartment cap
9. Flashlight

Quick Steps

⚠ WARNING: Test a known live circuit before testing an uncertain circuit.

1. Short press the power button (4) to switch ON.
2. Short press the range button (4) to select the AC range (24, 90, or 190 V). The range indicator glows green next to the selected range, as shown below.

 24V ☐ 90V ☐ 190V

3. Position the sensor tip (1) close to voltage source.
4. If voltage is present, the device vibrates, beeps, and the triangle-shaped alarm indicator (3) flashes amber, as shown below.



5. Short press the flashlight button (7) to switch it ON, long press to switch OFF. The voltage detector is disabled when the flashlight is ON.
6. The selected green range indicator will flash when battery power is low, as shown below.



 24V ☐ 90V ☐ 190V



7. All green range indicators flash when the VP54 requires servicing, as shown below.



 24V  90V  190V



8. The VP54 switches OFF after three minutes of inactivity. The flashlight switches OFF after 30 minutes.
9. Long press the power button to switch OFF the VP54.

Safety

⚠ WARNING:

- This device will not detect DC voltage.
- Verify proper operation on a known 'live' circuit before use.
- Static electricity can randomly trigger this device, this is normal.
- Follow all safety information. Failure to do so can result in death or serious injury.
- Keep hands and fingers on the body of the probe when measuring, do not touch live circuits.
- Use caution with voltages > 30 V AC.
- If the device indicates no voltage, voltage may still be present, double check test results.
- Never assume neutral or ground wires are not energized. Neutrals in multi-wire branch circuits may be energized when disconnected.



Read, understand, and follow all safety information.

Not a comprehensive diagnostic instrument but a basic device to detect nearly all common wiring errors. Refer all indicated problems to a qualified electrician.



Risk of electrical shock.

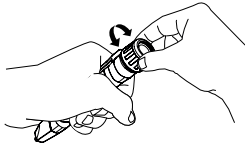


Double insulation.

Maintenance

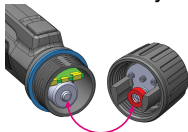
Battery replacement

1. With the meter OFF, unscrew the battery compartment cap (8) and remove the batteries.



2. Insert two 'AAA' batteries with positive side facing up.

3. Secure the cap ensuring that the plastic ring in the cap aligns with the battery top.



Do not dispose of used batteries or rechargeable batteries in household waste.

Cleaning and Storage

With the meter OFF, wipe with a damp cloth. Do not use abrasives or solvents. When storing the device for extended periods, remove the batteries and store separately.

Specifications

AC voltage ranges	24 V, 90 V, 190 V AC (1000 V max.)
Frequency range	45 to 65 Hz
Safety rating	CAT IV 1000 V
Operating conditions	14 to 122°F (-10 to 50°C); < 80% RH
Dimensions	6.4 x 1.2 x 1.0 in. (163 x 29.2 x 26.5 mm)
Weight	2.1 oz. (59 g) with batteries
Power	2 x 1.5 'AAA' batteries
Battery life	5 hours with flashlight OFF
Low battery	Selected range indicator flashes green
Auto Power OFF	Device: 3 minutes; Flashlight: 30 minutes
Device fault indication	All green range indicators flash
Drop-proof	9.8 ft. (3 m)
IP Rating	IP54

Compliance	Conforms to UL STD. 1436; Certified to CSA STD. C22.2 No. 160
Safety	CE, ETL, RCM 

Three-Year Warranty

This product is protected by FLIR's 3-Year Limited Warranty. Visit <https://support.flir.com/prodreg> to read the 3-Year Limited Warranty document.

Customer Support

Repair, Calibration, and Technical Support: <https://support.flir.com>.

Website

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