Testo 750-2

Testo 750-2 Voltage Tester User Manual

Model: 0590 7502

1. Introduction

This manual provides essential information for the safe and effective use of the Testo 750-2 Voltage Tester. Please read these instructions thoroughly before operating the device. Proper use ensures accurate measurements and user safety.

The Testo 750-2 is a robust voltage tester designed for electrical professionals. It features a clear LED display for voltage indication, continuity testing, phase rotation detection, and a built-in flashlight for use in dimly lit environments. It also includes GFCI trip functionality.

2. Safety Information

WARNING: Electrical shock hazard. Failure to follow these instructions may result in serious injury or death.

- Always verify the tester's functionality on a known live source before and after use.
- Do not use the tester if it appears damaged or is not operating correctly.
- Adhere to all local and national safety regulations for electrical work.
- Wear appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses.
- Do not exceed the maximum voltage ratings specified for the device.
- Avoid working alone when performing electrical measurements.
- Keep fingers behind the finger guards on the test probes during use.

3. Package Contents

Ensure all items are present and undamaged upon unpacking:

- Testo 750-2 Voltage Tester
- 2 x AAA Batteries (pre-installed or included separately)
- User Manual (this document)

4. Product Overview

The Testo 750-2 Voltage Tester consists of two main units connected by a flexible cable. Each unit houses a test probe and controls.

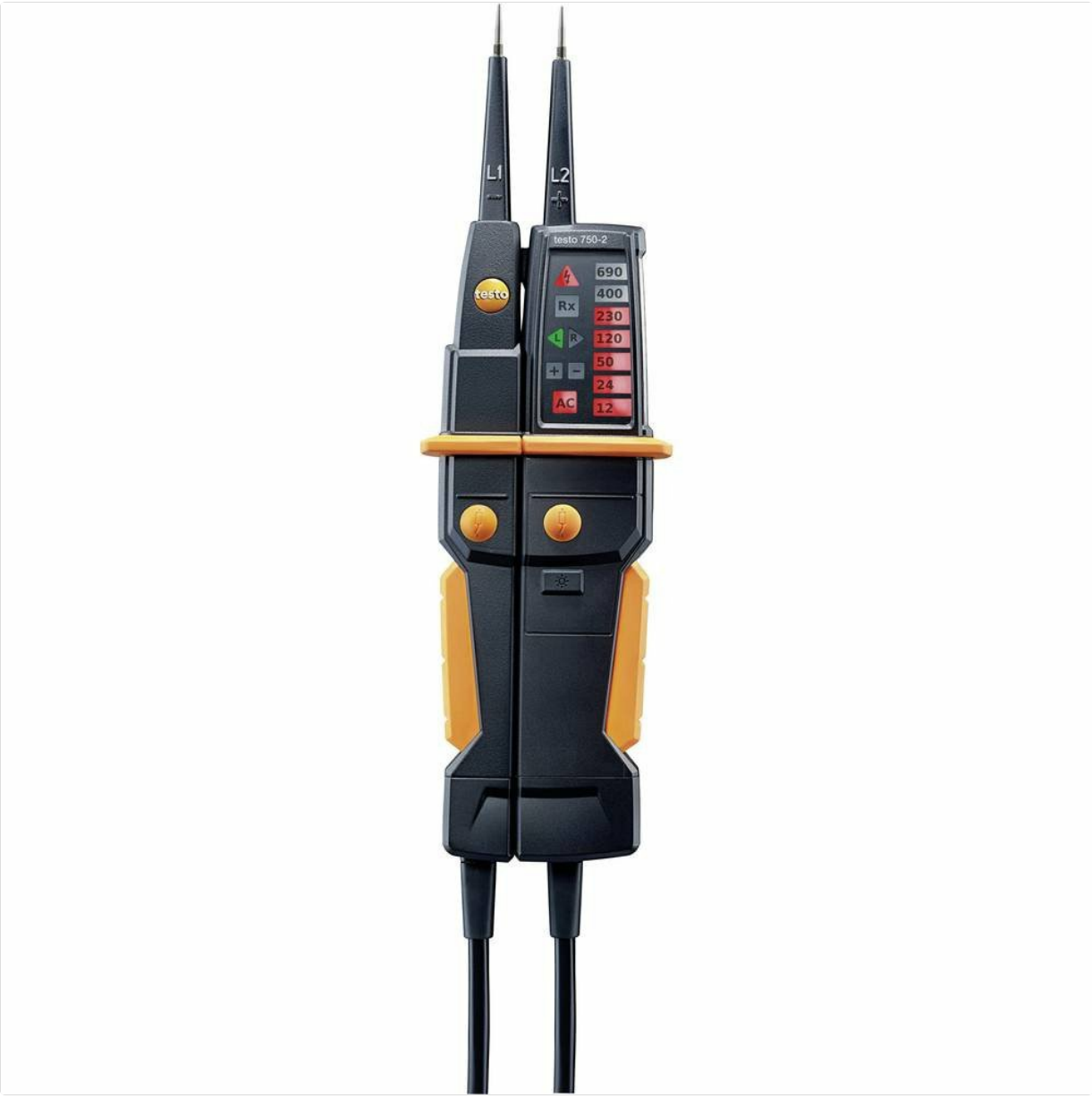

Figure 1: Front view of the Testo 750-2 Voltage Tester. Shows the two main units, test probes (L1, L2), and the LED display indicating voltage levels (12V to 690V AC/DC), continuity (Rx), and phase rotation (L/R).

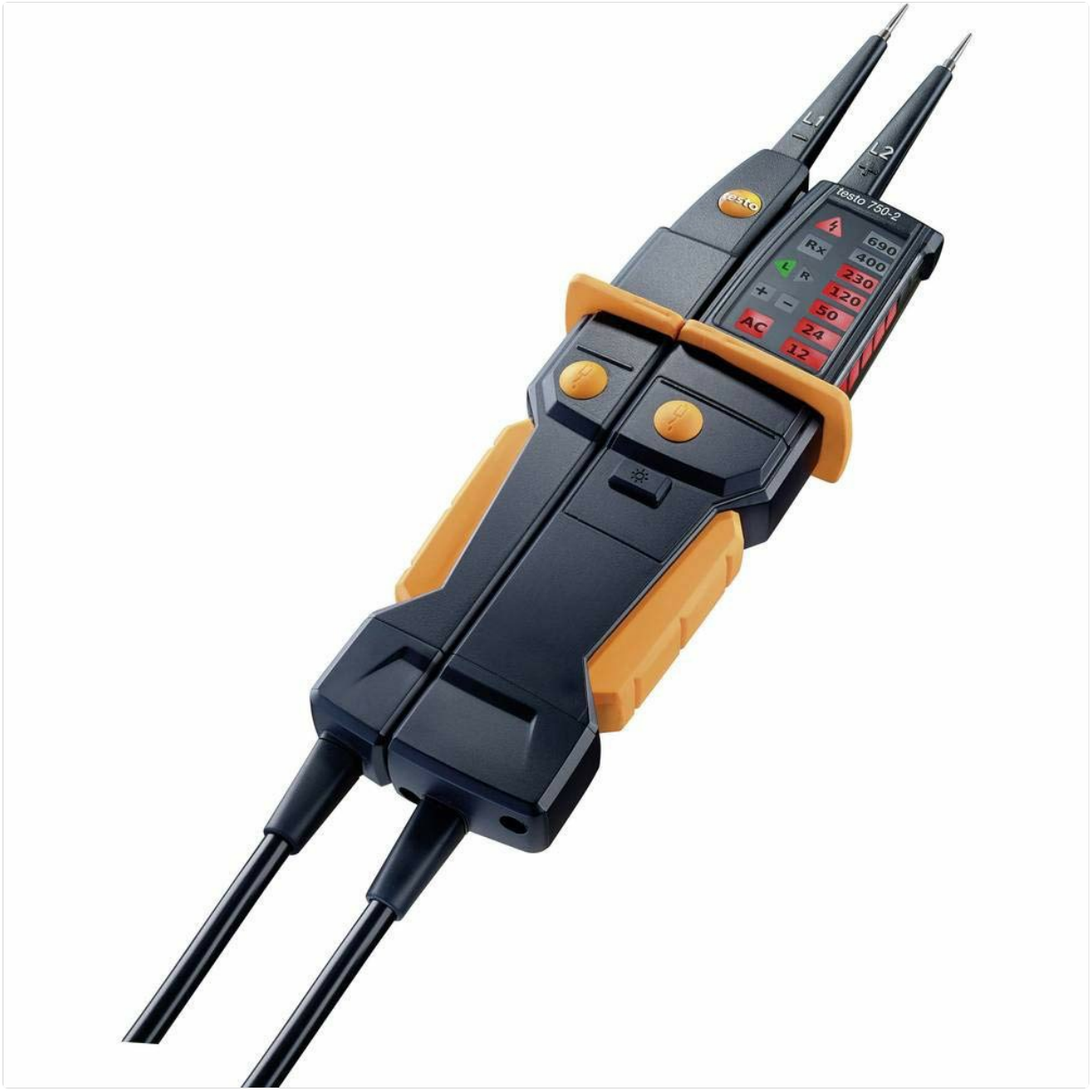

Figure 2: Angled view of the Testo 750-2 Voltage Tester, highlighting its ergonomic design and the integrated flashlight button on the left unit.

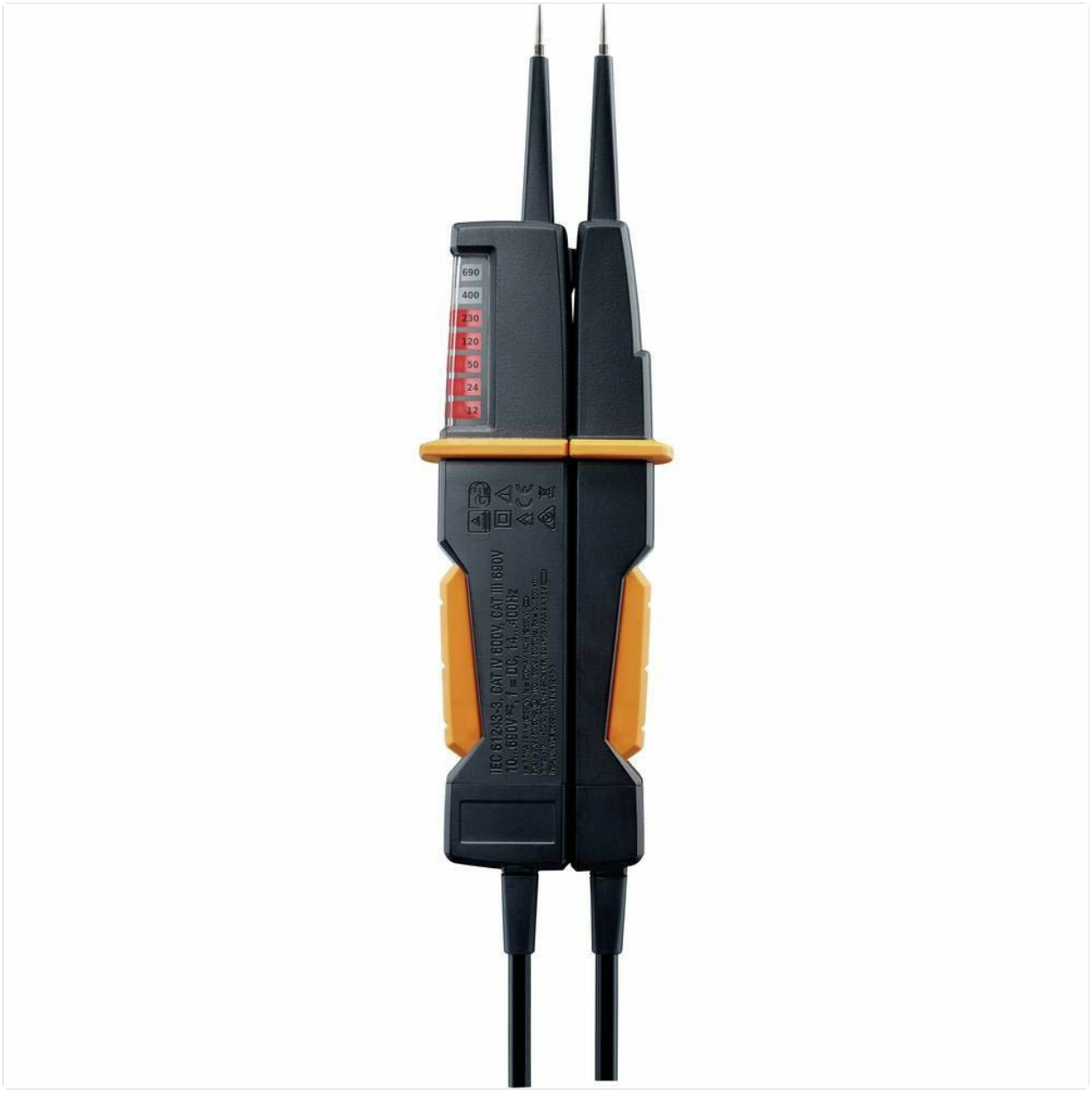

Figure 3: Rear view of the Testo 750-2 Voltage Tester, showing safety markings and product information.

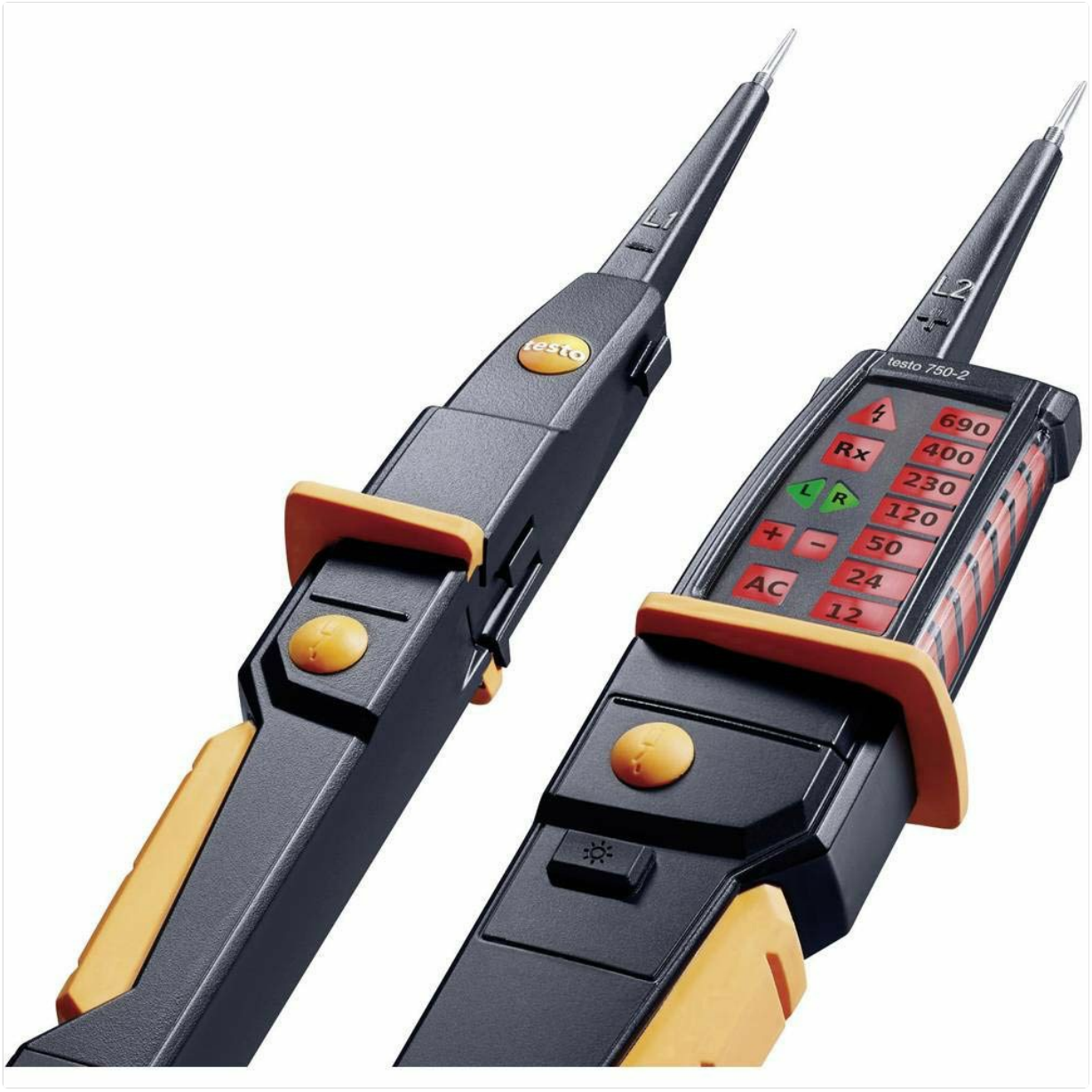

Figure 4: Close-up view of the Testo 750-2 display and controls, showing the voltage indicator LEDs, continuity indicator, phase rotation indicators (L/R), and the flashlight button.

Key Components:

- **Test Probes (L1, L2):** For making contact with electrical circuits.
- **LED Display:** Indicates voltage levels (AC/DC), continuity, and phase rotation.
- **Flashlight Button:** Activates the built-in flashlight.
- **GFCI Test Button:** Initiates a GFCI trip test.
- **Battery Compartment:** Located on the rear of one unit.

5. Setup

5.1. Battery Installation

The Testo 750-2 requires 2 AAA batteries for operation. These are typically included.

1. Locate the battery compartment cover on the rear of the tester.
2. Use a suitable tool (e.g., a small screwdriver) to open the compartment.
3. Insert 2 AAA batteries, observing the correct polarity (+/-) as indicated inside the compartment.

4. Securely close the battery compartment cover.

The device will perform a self-test upon battery installation or when first used, indicated by all LEDs briefly illuminating.

6. Operating Instructions

6.1. Voltage Testing (AC/DC)

To measure voltage:

1. Ensure the tester is clean and undamaged.
2. Connect the L1 and L2 test probes to the points where voltage is to be measured.
3. The LED display will illuminate to indicate the detected voltage level (e.g., 12V, 24V, 50V, 120V, 230V, 400V, 690V).
4. For DC voltage, the polarity will also be indicated (+/-).
5. An audible signal will sound when voltage is detected.

Note: The Testo 750-2 is designed to provide a clear indication of voltage presence even with discharged batteries, ensuring safety.

6.2. Continuity Testing

To test for continuity (low resistance):

1. Ensure the circuit or component is de-energized before testing for continuity.
2. Connect the L1 and L2 test probes across the circuit or component.
3. If continuity is detected (resistance below a certain threshold), the "Rx" LED will illuminate, and an audible signal will sound.

6.3. Phase Rotation Testing

To determine phase rotation in three-phase systems:

1. Connect the L1 probe to the first phase (e.g., L1).
2. Connect the L2 probe to the second phase (e.g., L2).
3. The "L" or "R" LED will illuminate to indicate the direction of the rotating magnetic field (left or right).
4. For a complete three-phase test, connect the L1 probe to L1, L2 probe to L2, then L1 probe to L2, L2 probe to L3, and finally L1 probe to L3, L2 probe to L1, observing the sequence.

6.4. GFCI Trip Test

To test Ground Fault Circuit Interrupter (GFCI) functionality:

1. Connect the L1 and L2 test probes to the live and ground terminals of the GFCI-protected outlet or circuit.
2. Press and hold the GFCI test button on the tester.
3. The GFCI device should trip, interrupting power to the outlet/circuit.
4. Release the button and reset the GFCI device.

CAUTION: This test will temporarily cut power to the circuit. Ensure no critical equipment is connected or that appropriate precautions are taken.

6.5. Built-in Flashlight

To activate the flashlight, press the flashlight button located on one of the tester units. Press again to turn it off. This feature is useful for illuminating dark work areas.

7. Maintenance

7.1. Cleaning

Clean the tester regularly with a damp cloth. Do not use abrasive cleaners or solvents. Ensure the device is dry before storage or next use.

7.2. Battery Replacement

When the battery low indicator appears (if applicable) or the device's performance degrades, replace the batteries as described in Section 5.1. Always use new AAA batteries of the same type.

7.3. Storage

Store the tester in a dry, clean environment, away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.

8. Troubleshooting

- **No Indication / Device Not Turning On:**
  - Check battery installation and polarity.
  - Replace batteries with new ones.
  - Ensure probes are making good contact with the test points.
- **Inconsistent Readings:**
  - Verify the tester on a known live source.
  - Check for damaged test leads or probes.
  - Ensure proper contact with the circuit.
- **GFCI Test Not Tripping:**
  - Ensure the GFCI outlet/circuit is properly wired and functional.
  - Confirm the tester is connected correctly (live to ground).
  - If the GFCI still does not trip, the GFCI device itself may be faulty and requires inspection by a qualified electrician.

If problems persist, contact Testo customer support.

9. Specifications

Feature	Specification
Model Number	0590 7502
Voltage Range	12V to 690V AC/DC
Continuity Test	Yes (audible and visual)
Phase Rotation Test	Yes (L/R indication)

GFCI Trip Function	Yes
Flashlight	Built-in
Power Source	2 x AAA batteries (included)
Product Dimensions (L x W x H)	10.63 x 2.56 x 1.38 inches
Item Weight	9.17 ounces (260 Grams)
Manufacturer	Testo, Inc.
Country of Origin	United States

10. Warranty Information

Testo, Inc. products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Testo website. Keep your proof of purchase for warranty claims.

11. Support and Contact

For technical support, service, or further information regarding your Testo 750-2 Voltage Tester, please contact Testo, Inc. directly:

- **Website:** www.testo.com
- Refer to the official Testo website for regional contact details and support resources.

Related Documents - 750-2

	Testo Smart Probes User Manual: Features, Specifications, and Operation Comprehensive user manual for Testo Smart Probes, detailing features, technical specifications, safety guidelines, and operation principles for models like testo 405i, 410i, 510i, 549i, 605i, 115i, 905i, and 805i. Includes product overview, technical data, and approval information.
	Testo Smart Probes User Manual and Technical Data Comprehensive guide to Testo Smart Probes, detailing setup, app usage, measurement applications, troubleshooting, and technical specifications for models like testo 115i, 405i, 510i, and more.

	[Testo 176 Datenlogger Bedienungsanleitung] Umfassende Bedienungsanleitung für die Datenlogger der Testo 176 Serie. Enthält technische Daten, Anwendungsbeispiele, Sicherheitshinweise und Wartungsinformationen.
	[Testo 270 BT Deep-frying Oil Tester Instruction Manual] This instruction manual provides detailed information on the Testo 270 BT, a deep-frying oil tester designed for fast and accurate measurement of cooking oil quality. Learn about its features, operation, maintenance, and troubleshooting to ensure optimal performance and food safety.
	[Testo Comfort Software Basic 5 Instruction Manual] A comprehensive instruction manual for the Testo Comfort Software Basic 5, detailing its features, system requirements, installation, and usage for data logging and analysis.
	[Testo 176 Data Loggers User Manual] Comprehensive user manual for Testo 176 series data loggers, covering safety, technical specifications, operation, maintenance, and troubleshooting for various models including T1, T2, T3, T4, H1, H2, and P1.