

## Yato YT-28631

# Yato YT-28631 Voltage Tester User Manual

Model: YT-28631

## 1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of the Yato YT-28631 Voltage Tester. Please read this manual thoroughly before operating the device and retain it for future reference. The Yato YT-28631 is a versatile digital voltage tester designed for various electrical measurements.

## 2. SAFETY INFORMATION

**WARNING: Electrical testing can be hazardous. Always exercise extreme caution when working with electrical circuits. Failure to follow safety instructions may result in injury or damage to the device.**

- Always ensure the tester is in good working condition before use.
- Do not use the tester if it appears damaged or if the insulation is compromised.
- Never exceed the specified voltage ranges of the device.
- Wear appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses, when performing electrical tests.
- Do not attempt to open or modify the tester. Refer all servicing to qualified personnel.
- Keep batteries out of reach of children. If swallowed, seek immediate medical attention.

## 3. PRODUCT OVERVIEW

The Yato YT-28631 is a compact, pen-style digital voltage tester. It features both contact and inductive testing methods for voltage detection, along with capabilities for testing circuit breaks, diodes, transistors, resistors, and capacitors.

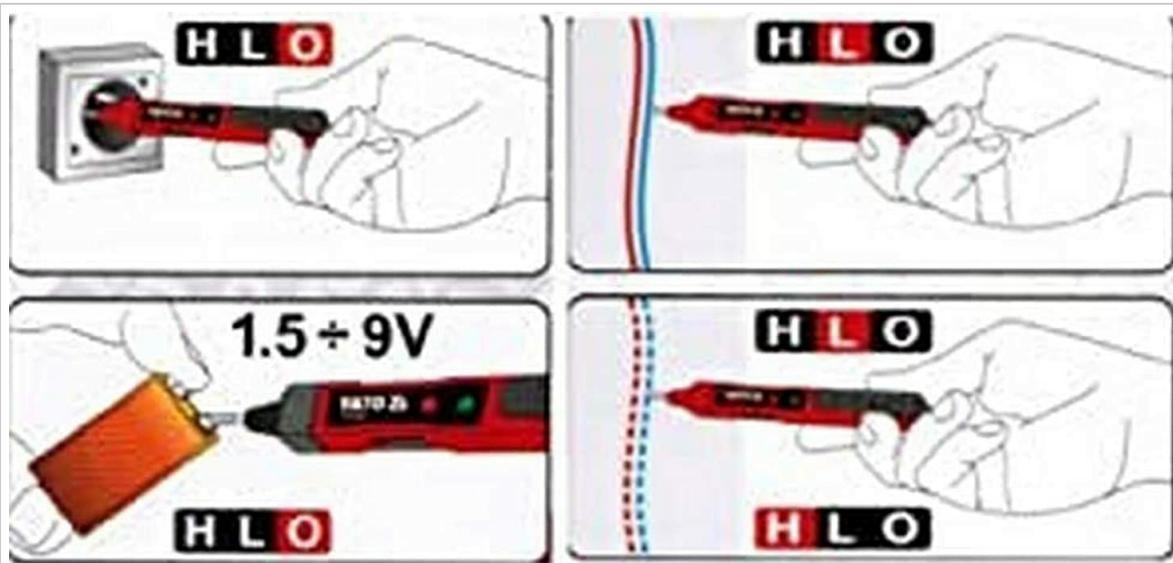


Figure 1: Yato YT-28631 Voltage Tester. The image shows the red and black body of the tester, with the red protective cap removed from the metal testing tip. The Yato logo and model number YT-28631 are visible on the body, along with indicator lights and a pocket clip.

### Key Components:

- **Testing Tip:** Used for direct contact measurements.
- **Indicator Lights:** Provide visual feedback during testing (e.g., voltage presence).
- **Pocket Clip:** For convenient carrying.
- **Battery Compartment:** Located at the rear, for LR44 batteries.

## 4. SETUP

### Battery Installation:

The Yato YT-28631 Voltage Tester requires 2x LR44 1.5V batteries for operation. Batteries are not included with the device.

1. Locate the battery compartment cover, typically at the rear end of the tester.
2. Carefully remove the cover.
3. Insert two LR44 1.5V batteries, ensuring correct polarity (+/-) as indicated inside the compartment.

4. Replace the battery compartment cover securely.

## 5. OPERATING INSTRUCTIONS

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The YT-28631 offers multiple testing functions. Always ensure the area is safe and the circuit is de-energized before performing contact tests, unless specifically testing for live voltage.

### 5.1. AC Voltage Testing (Contact Method)

- **Range:** 70-250V AC
- Touch the metal testing tip of the tester to the live conductor (e.g., inside a wall socket or wire).
- Observe the indicator lights. Illumination indicates the presence of AC voltage within the specified range.

### 5.2. AC Voltage Testing (Inductive Method)

- **Range:** 70-1000V AC
- Hold the tester near an insulated wire or cable.
- The tester will detect the electromagnetic field of live AC voltage without direct contact. Indicator lights will illuminate if voltage is detected.

### 5.3. DC Voltage Testing (Contact Method)

- **Range:** 1.5-9V DC
- Touch the metal testing tip to the positive terminal of the DC source (e.g., battery).
- Observe the indicator lights. Illumination indicates the presence of DC voltage within the specified range.

### 5.4. Other Tests (Circuit Breaks, Diode, Transistor, Resistor, Capacitor)

The tester can also be used for basic continuity and component testing. For detailed procedures on these specific tests, refer to standard electrical testing practices and ensure the circuit or component is completely de-energized before testing.

- **Circuit Breaks:** Use the contact method to trace wires and identify breaks in continuity.
- **Diode Test:** Can indicate basic functionality (forward/reverse bias).
- **Transistor Test:** Can indicate basic functionality (NPN/PNP type).
- **Resistor Test:** Can indicate basic continuity.
- **Capacitor Test:** Can indicate basic charge/discharge.

## 6. MAINTENANCE

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### Cleaning:

Wipe the tester with a dry, clean cloth. Do not use abrasive cleaners or solvents, as these may damage the casing or internal components.

### Battery Replacement:

When the indicator lights become dim or the tester fails to respond, replace the batteries. Follow the battery installation steps in Section 4. Dispose of used batteries responsibly according to local regulations.

### Storage:

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

## 7. TROUBLESHOOTING

- **Tester not turning on / No indicator lights:**
  - Check battery installation and polarity.
  - Replace batteries with new LR44 1.5V cells.
- **Inconsistent readings / False positives:**
  - Ensure proper contact with the conductor for contact method tests.
  - For inductive tests, ensure no other strong electromagnetic fields are interfering.
  - Verify the tester is clean and free from moisture.
- **Tester appears damaged:**
  - Discontinue use immediately. Do not attempt repairs.

## 8. SPECIFICATIONS

Feature	Specification
Model Number	YT-28631
Brand	Yato
Power Source	2x LR44 1.5V Batteries (not included)
AC Voltage Range (Contact)	70-250V
AC Voltage Range (Inductive)	70-1000V
DC Voltage Range (Contact)	1.5-9V
Dimensions (L x W x H)	14.5 x 2 x 2 cm
Weight	28 g (without batteries)
Measurement Type	Voltmeter

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided at the point of purchase or contact your local Yato distributor. Keep your purchase receipt as proof of purchase for warranty claims.