

ANKROYU TA802A

ANKROYU TA802A Pen Multimeter User Manual

Model: TA802A

1. INTRODUCTION

The ANKROYU TA802A Pen Multimeter is a compact, portable digital multimeter designed for measuring various electrical parameters. Its pen-style design and automatic recognition function make it suitable for both home and industrial electrical troubleshooting. This manual provides essential information for safe and effective operation.

2. SAFETY INFORMATION

Warning: Always exercise extreme caution when working with electricity. Failure to follow safety precautions can result in injury or damage to the device.

- Do not attempt to measure voltages or currents exceeding the specified maximum ratings.
- Ensure the test leads are in good condition and properly connected before making any measurements.
- Do not use the multimeter if it appears damaged or is not operating correctly.
- Always disconnect power to the circuit before connecting or disconnecting test leads, especially when measuring resistance or continuity.
- Keep fingers behind the finger guards on the test probes during use.
- The device features an anti-burn function for enhanced safety, but proper usage is still paramount.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 × ANKROYU TA802A Pen Multimeter Unit
- 1 × Test Lead Set
- 1 × Cloth Bag
- 1 × User Manual (this document)



Figure 1: Contents of the ANKROYU TA802A Pen Multimeter package, including the multimeter, test leads, and carrying pouch.

4. PRODUCT OVERVIEW AND FEATURES

4.1 Key Features

- **Pen-Style Design:** Compact and portable for easy handling.
- **Automatic Recognition:** Automatically identifies measurement type for quick and accurate readings.
- **Large Backlit Display:** Ensures clear readings even in low-light conditions.
- **Bidirectional Screen Display:** Allows viewing from multiple angles by rotating the screen.
- **NCV Measurement:** Non-Contact Voltage detection for identifying breakpoints.
- **Anti-Burn Function:** Provides enhanced safety during operation.
- **Flashlight Function:** Integrated light for illuminating work areas.

4.2 Device Layout

equipped with flashlight lighting function

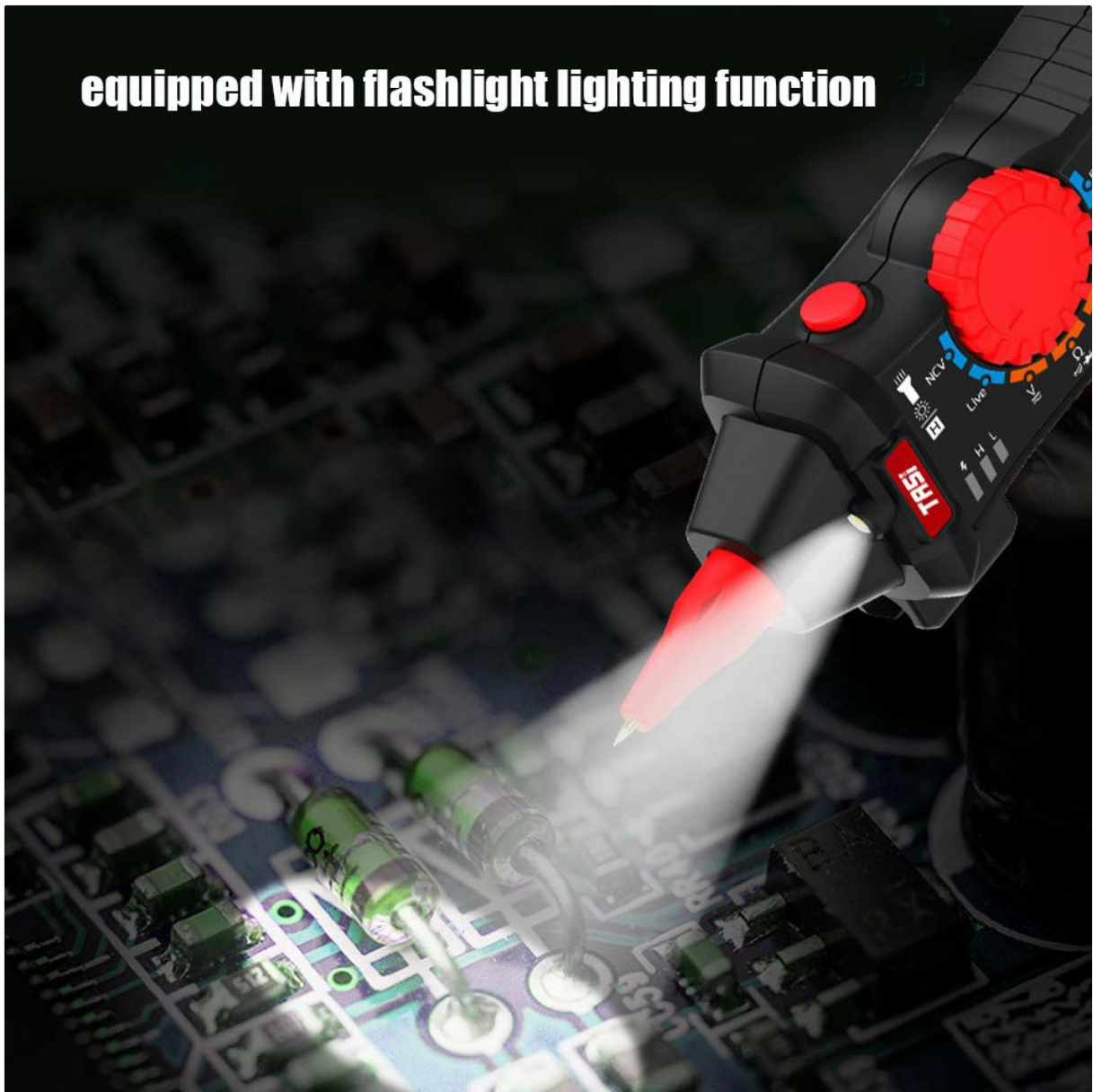


Figure 2: Overview of the ANKROYU TA802A Pen Multimeter, highlighting its compact size and controls.



Figure 3: The multimeter demonstrating Non-Contact Voltage (NCV) measurement, indicating a breakpoint with a flashing red light.

Bidirectional screen display, can be viewed from multiple angles

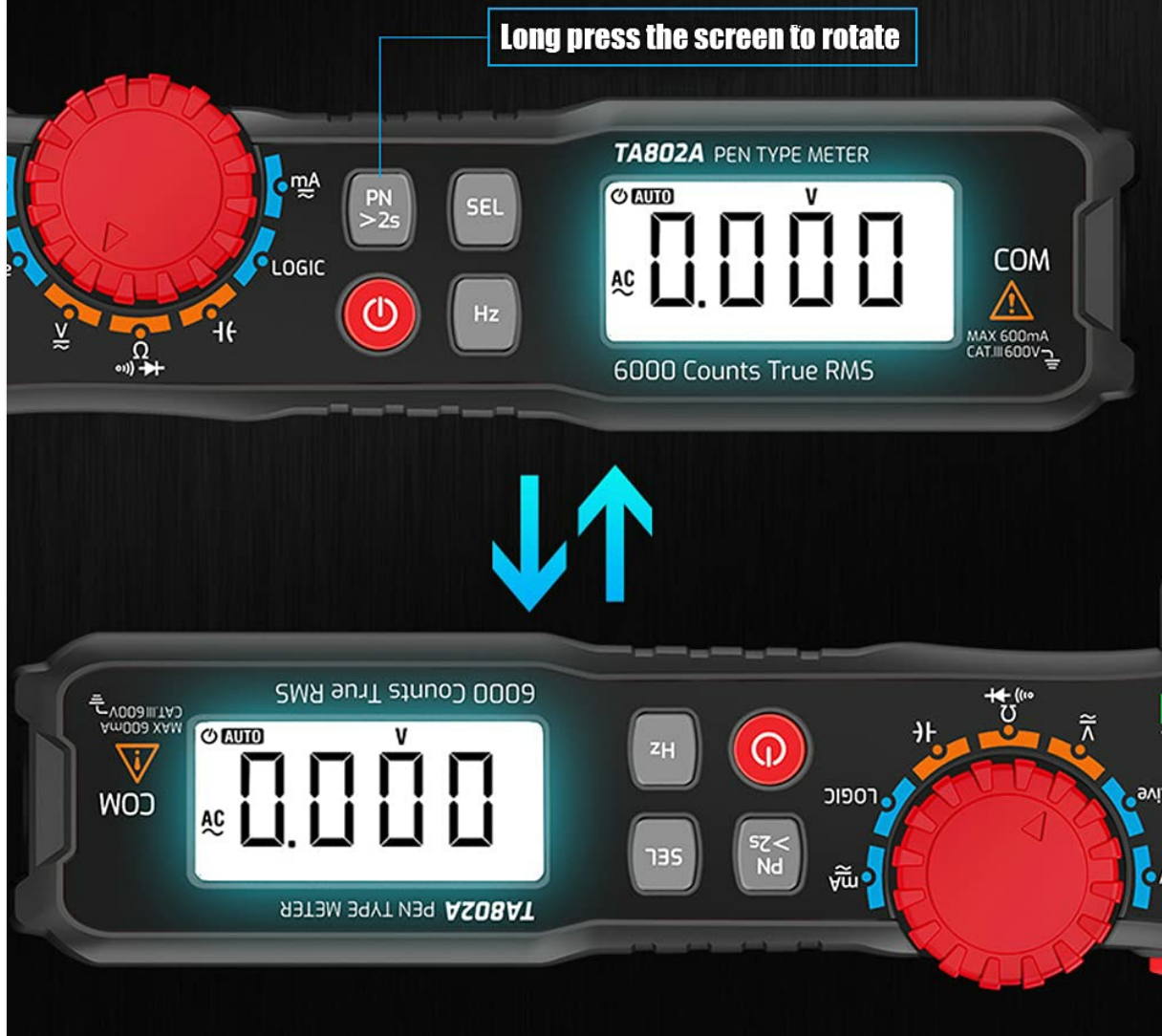


Figure 4: The integrated flashlight function of the multimeter, illuminating a circuit board for better visibility.

Large screen backlight display, the reading is more clear



Figure 5: The bidirectional screen display feature, showing how the screen content rotates for optimal viewing from different angles.



Figure 6: Close-up of the large, backlit display, ensuring clear and easy-to-read measurements.

5. SETUP

5.1 Battery Installation

The TA802A requires batteries for operation. Locate the battery compartment on the back of the device. Open the compartment, insert the required batteries (refer to the device markings for battery type), ensuring correct polarity. Close the compartment securely.

5.2 Connecting Test Leads

Insert the black test lead into the "COM" (Common) jack. Insert the red test lead into the appropriate input jack for the desired measurement (e.g., $V\Omega mA$ for voltage, resistance, or current). Ensure a firm connection.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

Press the power button () to turn the multimeter on or off. The device will typically enter auto-recognition mode upon startup.

6.2 Automatic Measurement Mode

In automatic mode, the multimeter will attempt to identify the type of measurement (voltage, resistance, continuity, etc.) and display the reading. Simply connect the test probes to the circuit or component you wish to measure.

6.3 Manual Function Selection

Rotate the central dial to select specific measurement functions such as AC/DC Voltage, Resistance, Capacitance, Frequency, Diode Test, or Continuity. Use the "SEL" button to cycle through sub-functions if available (e.g., AC/DC for voltage).

6.4 Non-Contact Voltage (NCV) Detection

Select the NCV function on the dial. Bring the tip of the multimeter near a live wire or outlet. The device will indicate the presence of AC voltage through an audible beep and/or a flashing red light, useful for detecting breakpoints in wires.

6.5 Flashlight Function

Press the dedicated flashlight button (if present, or a long press on a specific button) to activate the integrated LED light for illuminating dark work areas.

6.6 Bidirectional Screen Display

To rotate the display for better viewing angles, long-press the designated button (often labeled "PN" or similar, or a general display button). The screen content will reorient itself.

7. MAINTENANCE

- **Cleaning:** Wipe the device with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the multimeter in its cloth bag in a cool, dry place when not in use. Remove batteries if storing for extended periods to prevent leakage.
- **Test Leads:** Regularly inspect test leads for any signs of damage, such as cracks or frayed insulation. Replace damaged leads immediately.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Dead or incorrectly installed batteries.	Replace batteries, ensuring correct polarity.
Inaccurate readings.	Damaged test leads; incorrect function selected; external interference.	Check test leads; ensure correct function is selected or use auto-recognition; move away from strong electromagnetic fields.
Display is dim or flickering.	Low battery power.	Replace batteries.
NCV not detecting voltage.	Not close enough to source; source is not live AC voltage.	Ensure tip is close to the conductor; verify the source is live AC.

9. SPECIFICATIONS

- **Product Model:** TA802A (automatic range)
- **Maximum Display:** 6000 counts
- **Capacitance Measurement:** 1nF~60000uF
- **Frequency Measurement:** 40Hz~6MHz
- **Resistance Measurement:** 0.1Ω~60MΩ
- **Product Size:** Approx. 198 x 51 x 33 mm / 7.8 x 2 x 1.3 in
- **Manufacturer:** ANKROYU



Figure 7: Dimensions of the ANKROYU TA802A Pen Multimeter, showing its length, width, and thickness.

10. WARRANTY AND SUPPORT

For warranty information or technical support, please contact ANKROYU customer service. Refer to the product packaging or the official ANKROYU website for contact details. Please have your product model (TA802A) and purchase information ready when contacting support.

You can visit the ANKROYU Store for more products and information: [ANKROYU Store](#)

