

ANKROYU UT18C

ANKROYU UT18C Voltage Continuity Tester User Manual

Model: UT18C

1. INTRODUCTION

The ANKROYU UT18C is a multifunctional digital voltage and continuity tester designed for accurate and reliable electrical measurements in various environments, including households, factories, and electrical departments. It features auto-ranging capabilities, polarity detection, a silent mode, and a work light for enhanced usability. This manual provides essential information for the safe and effective operation of your device.

2. SAFETY INFORMATION

Always read and understand all safety warnings and operating instructions before using this device. Failure to do so may result in electric shock, fire, or serious injury.

- Do not use the tester if it appears damaged or is not operating correctly.
- Ensure your hands are dry and wear appropriate personal protective equipment (PPE) when working with electrical circuits.
- Never exceed the maximum input ratings specified for the device.
- Verify the tester's operation on a known live circuit before use on an unknown circuit.
- Keep the device away from children.
- Observe all local and national safety codes.

3. PRODUCT FEATURES AND COMPONENTS

The UT18C tester is designed for ease of use and clear readings.

- **LCD Display:** Provides clear voltage and frequency readings.
- **Test Probes:** Integrated probes for direct contact with electrical points.
- **Function Buttons:** For various testing modes and features like data hold.
- **Work Light:** Illuminates the test area in low-light conditions.

- **Polarity Detection:** Automatically identifies positive and negative polarity.



Figure 3.1: Front view of the ANKROYU UT18C Voltage Continuity Tester, showing the main unit with LCD display and test probes.

4. SPECIFICATIONS

Feature	Specification
Model	UT18C
Auto Range	Yes
Polarity Detection	Positive/Negative
Silent Mode	Yes
Work Light	Yes
LCD Size	Approx. 28 × 14mm
Product Dimensions	Approx. 272 × 85 × 31mm (10.7 × 3.3 × 1.2 inches)
Weight	Approx. 404g (14.3oz)



Figure 4.1: Dimensions of the ANKROYU UT18C Voltage Continuity Tester.

5. SETUP

The ANKROYU UT18C is designed for immediate use. Ensure the device is free from visible damage before proceeding.

5.1 Battery Installation (if applicable)

While the UT18C typically uses internal power for basic voltage detection, some advanced functions may require batteries. Refer to the battery compartment for specific instructions if batteries are user-replaceable. Ensure correct polarity when inserting batteries.

5.2 Initial Check

Before each use, perform a quick check:

1. Inspect the tester for any physical damage, cracks, or exposed wiring.
2. Test the device on a known live circuit (e.g., a wall outlet) to confirm it powers on and displays a voltage reading correctly.

6. OPERATING INSTRUCTIONS

The UT18C offers several testing functions. Always ensure proper contact with the circuit under test.

6.1 Voltage Measurement (AC/DC)

To measure voltage, simply place the two test probes across the circuit points you wish to measure. The device will automatically detect AC or DC voltage and display the reading on the LCD screen. The auto-range feature adjusts to the appropriate voltage scale.

6.2 Continuity Test

For continuity testing, ensure the circuit is de-energized. Place the test probes at the two ends of the component or wire you want to test. If continuity exists, the tester will indicate it, often with an audible beep or a visual indicator on the LCD.

6.3 RCD (Residual Current Device) Test

The UT18C can perform RCD testing. Connect the probes to the appropriate terminals of the RCD-protected circuit. Activate the RCD test function on the device (if available via a dedicated button). The RCD should trip, indicating proper functionality. Always follow specific RCD testing procedures and safety guidelines.

6.4 Phase Rotation Test

This tester indicates the phase relationships among three-phase AC circuits. Connect the probes to the three phases as instructed by the device's markings or specific function. The display will show the phase sequence, which is crucial for proper equipment operation in industrial settings.

Indicate the phase relationships among three-phase AC.

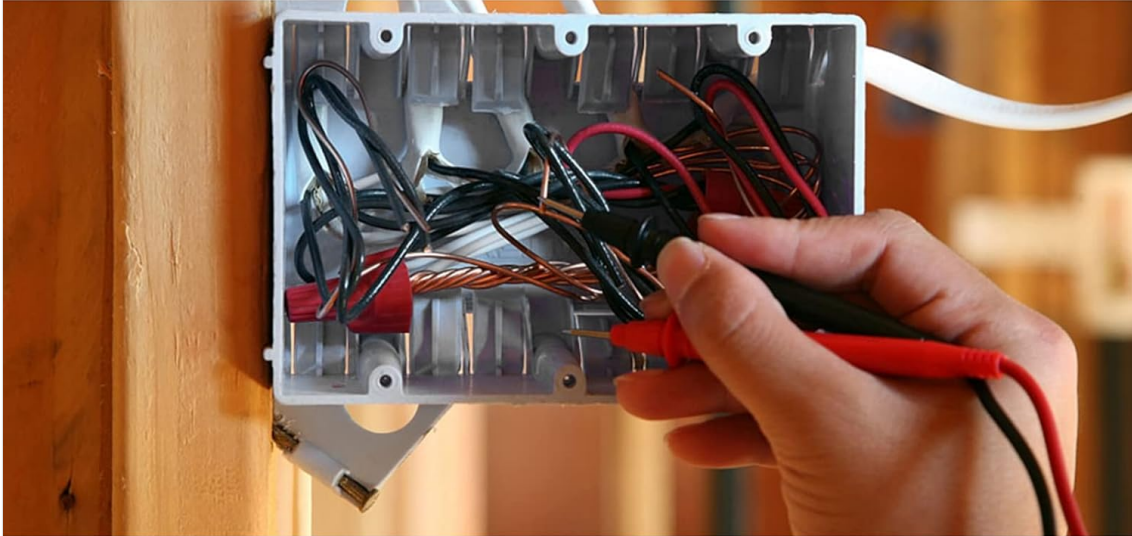


Figure 6.1: The UT18C in use, indicating phase relationships in a three-phase AC circuit.

6.5 Wire Detection (Live/Neutral)

The device allows you to determine the status of a wire (live or neutral) with a single test probe. Touch the probe to the wire. The tester will indicate if the wire is live, helping to ensure safety during electrical work.

7. MAINTENANCE

7.1 Cleaning

Wipe the device with a dry, clean cloth. Do not use abrasive cleaners or solvents. Ensure no moisture enters the device.

7.2 Storage

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

8. TROUBLESHOOTING

- **No Display/Weak Display:** Check battery levels and replace if necessary. Ensure proper contact with the circuit.

- **Inaccurate Readings:** Verify the probes are making good contact. Ensure the device is within its operating temperature range. Test on a known voltage source to confirm calibration.
- **No Continuity Indication:** Ensure the circuit is de-energized. Check for breaks in the circuit or faulty components.

9. PACKAGE CONTENTS

The standard package for the ANKROYU UT18C Voltage Continuity Tester includes:

- 1 × Voltage Continuity Tester (Model: UT18C)

10. SUPPORT

For further assistance, technical support, or warranty inquiries, please contact ANKROYU customer service through the retailer where the product was purchased or visit the official ANKROYU website for contact information.