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Fafeicy UT123

Fafeicy UT123 Color Screen Digital Multimeter User Manual

Model: UT123

1. Introduction

The Fafeicy UT123 is a compact, color screen digital multimeter designed for electrotechnical maintenance professionals. It offers a wide range of measurement functions including DC/AC voltage, resistance, frequency, continuity, and temperature. Featuring an EBTN display for clear readings, intelligent NCV detection for safety, and advanced functions like automatic shutdown and range selection, this device provides reliable and accurate measurements for various electrical tasks.

2. Safety Information

WARNING: To avoid electric shock or personal injury, please read and understand all safety information before using this product. Always adhere to local and national safety codes.

- Do not apply more than the rated voltage, as marked on the meter, between terminals or between any terminal and earth ground. The maximum voltage for this device is CAT III 600V.
- Use caution when working with voltages above 30V AC RMS, 42V peak, or 60V DC. These voltages pose a shock hazard.
- Before each use, inspect the test leads for damaged insulation or exposed metal. Replace if damaged.
- Ensure the function dial is set to the correct range before making measurements.
- Never use the meter if it appears damaged or if the case is open.
- Remove test leads from the circuit before changing the function dial position.
- When servicing the instrument, use only specified replacement parts.
- To avoid electrical shock, remove test leads before opening the battery cover.

3. Package Contents

Verify that all items listed below are present and undamaged:

- 1 x Fafeicy UT123 Digital Multimeter (Batteries Not Included)
- 2 x Test Leads (Red and Black)
- 2 x Temperature Probes



Image: The Fafeicy UT123 Digital Multimeter shown with its standard accessories: a pair of red and black test leads, and two temperature probes.

4. Product Overview

4.1. Key Features

- **EBTN Display:** Offers wide viewing angle, high contrast, and clear definitions for easy reading in various lighting conditions.
- **Multi-functional:** Measures DC/AC voltage, resistance, frequency, continuity, and temperature, providing versatility for diverse electrical tasks.
- **Intelligent NCV Detection:** Detects weak, strong, and super strong electric fields with distinct green, yellow, and red light indicators for enhanced user safety.
- **Advanced Features:** Includes automatic shutdown to conserve battery, three-color light displays for various functions, automatic range selection for ease of use, voltage mode automatic recognition, and full-function anti-burning protection for durability and safety.
- **Clear Color Screen:** Provides clear readings at any angle, making it ideal for use in dark environments.

4.2. Device Layout



Image: Front view of the Fafeicy UT123 Digital Multimeter, highlighting the color display, rotary function switch, and input terminals.



Image: A detailed view of the multimeter's lower section, showing the COM, VΩHz, and °C/°F input jacks, along with the rotary function switch set to the OFF position.



Image: The back of the Fafeicy UT123 Digital Multimeter, displaying a warning label regarding battery replacement and a QR code (C200447118).

5. Setup

5.1. Battery Installation

1. Ensure the multimeter is turned OFF and disconnect all test leads.
2. Locate the battery compartment cover on the back of the device.
3. Use a screwdriver to open the battery compartment.
4. Insert two 1.5V AAA batteries, observing the correct polarity (+/-).
5. Replace the battery compartment cover and secure it with the screw.

5.2. Connecting Test Leads

- For most measurements (voltage, resistance, continuity, frequency), insert the black test lead into the 'COM' (common) jack.
- Insert the red test lead into the 'VΩHz' jack.

5.3. Connecting Temperature Probe

- For temperature measurements, ensure the multimeter is set to the temperature function.
- Insert the temperature probe into the 'COM' and '°C/°F' jacks.

6. Operating Instructions

6.1. Power On/Off

Rotate the central dial from 'OFF' to any desired measurement function to power on the device. To power off, rotate the dial back to 'OFF'. The device features an automatic shutdown function to conserve battery life after a period of inactivity.



Image: The multimeter's display illustrating the smart boot battery power detection function, showing red, yellow, and green LED lights indicating battery status.

6.2. DC Voltage Measurement

1. Set the function dial to the 'V' position. The meter will automatically detect DC voltage.

2. Connect the red test lead to the positive (+) side of the circuit and the black test lead to the negative (-) side.
3. Read the voltage value on the display.

6.3. AC Voltage Measurement

1. Set the function dial to the 'V' position. The meter will automatically detect AC voltage.
2. Connect the test leads across the AC voltage source.
3. Read the voltage value on the display.

6.4. Resistance Measurement

1. Set the function dial to the 'Ω' position.
2. Ensure the circuit is de-energized before measuring resistance.
3. Connect the test leads across the component to be measured.
4. Read the resistance value on the display.

6.5. Continuity Test

1. Set the function dial to the 'Ω' position.
2. Connect the test leads across the circuit or component.
3. If the resistance is below a certain threshold (typically around 50Ω), the meter will emit an audible beep, indicating continuity.

6.6. NCV (Non-Contact Voltage) Detection

1. Set the function dial to the 'NCV' position.
2. Move the top end of the multimeter close to the conductor or outlet you wish to test.
3. The meter will indicate the presence and strength of an electric field using LED lights (green for weak, yellow for strong, red for super strong) and an audible alarm.



Image: The multimeter demonstrating its temperature test function with a probe and its non-contact voltage (NCV) detection capability near electrical wiring, showing sound and light prompts.

6.7. Temperature Measurement

1. Set the function dial to the '°C/°F' position.
2. Connect the temperature probe to the 'COM' and '°C/°F' jacks.
3. Place the tip of the temperature probe on or near the object whose temperature you wish to measure.
4. Read the temperature value on the display.

6.8. HOLD Function

Press the 'HOLD' button to freeze the current reading on the display. Press it again to release the hold function and resume live readings.



Image: A collage showing the Fafeicy UT123 Digital Multimeter in use for AC voltage measurement (on an outlet), DC voltage measurement (on a 9V battery), and resistance measurement (on a circuit board).

7. Maintenance

7.1. Battery Replacement

When the low battery indicator appears on the display, replace the batteries promptly to ensure accurate measurements. Refer to Section 5.1 for battery installation instructions.

7.2. Cleaning

Wipe the case with a damp cloth and a mild detergent. Do not use abrasives or solvents. Ensure the device is completely dry before use.

7.3. Storage

If the meter is not to be used for an extended period, remove the batteries to prevent leakage and store the device in a cool, dry place away from direct sunlight.

8. Troubleshooting

- **No Display / Faint Display:** Check battery installation and charge. Replace batteries if necessary.
- **Incorrect Readings:** Ensure test leads are properly connected, the function dial is set to the correct measurement type, and the circuit is within the meter's specified range.
- **No Continuity Beep:** Verify the circuit is de-energized and the resistance is below the continuity threshold.
- **NCV Not Detecting:** Ensure the NCV function is selected and the meter is brought close enough to an active AC voltage source.

9. Specifications

Parameter	Specification
DC Voltage Test	600V
AC Voltage Test	600V
Resistance Test	20MΩ
Temperature Test	-40 to 300℃
Maximum Display	4099 Counts
Battery Type	2 x 1.5V AAA battery (Not included)
Size (Approx.)	65 x 130 x 28mm (2.6 x 5.1 x 1.1in)
Safety Rating	CAT III 600V
Main Functions	Frequency, DC voltage, resistance, AC voltage, on-off test, NCV test, automatic shutdown, power on three-color light display, NCV three-color light display, automatic range selection, voltage mode automatic recognition, full-function anti-burning.

10. Warranty and Support

This product is covered by a standard manufacturer's warranty. For specific warranty details, return policies, or technical support, please refer to the documentation provided with your purchase or contact the seller directly. Keep your purchase receipt as proof of purchase.

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