Fafeicy HT118A

Fafeicy HT118A Digital Multimeter User Manual

Model: HT118A

1. Introduction

This manual provides detailed instructions for the safe and effective operation of your Fafeicy HT118A Digital Multimeter. The HT118A is an automatic range, multi-function voltage tester designed for electricians and general electrical parameter measurement. It offers reliable measurement data across a wide range of electrical parameters.

2. Safety Information

Always adhere to basic safety precautions when using this multimeter to prevent potential electric shock or personal injury, and to avoid damage to the meter or the equipment under test.

- **Read Instructions:** Carefully read and understand all instructions in this manual before use.
- **Proper Use:** Use the meter only as specified in this manual; otherwise, the protection provided by the meter may be impaired.
- **Voltage Limits:** Do not apply more than the rated voltage, as marked on the meter, between the terminals or between any terminal and earth ground.
- **Test Leads:** Inspect test leads for damaged insulation or exposed metal. Replace if damaged.
- **Battery Installation:** Ensure batteries are correctly installed before operation.
- **Non-Contact Voltage Detection:** Utilize the non-contact voltage detection feature to identify live circuits without direct contact, reducing the risk of electric shock.
- **Fuse Replacement:** To avoid electrical shock, remove test leads before opening the case to replace the fuse. Install a fuse with the specified amp and volt rating.



Figure 1: Rear view of the multimeter with battery compartment and safety warning.

3. Product Overview

The Fafeicy HT118A Digital Multimeter is a robust tool designed for precise electrical measurements. It features an automatic ranging function, a clear digital display, and various measurement capabilities.



Figure 2: Front view of the Fafeicy HT118A Digital Multimeter.

3.1 Components

- **Digital Display:** Shows measurement readings.
- **Rotary Switch:** Selects measurement functions.
- **Function Buttons:** Include HOLD, MAX/MIN, FUNC, and backlight control.
- **Input Jacks:** For connecting test leads (COM, VΩHz, mA, 10A).
- **Test Leads:** Red and black leads for making electrical connections.
- **Temperature Probe:** For temperature measurements.



Figure 3: Multimeter package contents including test leads and temperature probe.

3.2 Key Features

- Automatic Ranging
- Non-Contact Voltage (NCV) Detection
- True RMS Measurement
- Large LCD with Backlight
- Data Hold Function
- Max/Min Value Measurement
- Flashlight
- Low Battery Indication

4. Setup

4.1 Battery Installation

The HT118A requires two 1.5V AA batteries (not included) for operation.

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

4.2 Connecting Test Leads

Always connect the black test lead to the "COM" (common) input jack. Connect the red test lead to the appropriate input jack based on the measurement function:

- **VΩHz:** For voltage, resistance, frequency, capacitance, and diode/continuity tests.
- **mA:** For milliampere current measurements.
- **10A:** For high current (up to 10 Amperes) measurements.



Figure 4: Input jacks for test leads.

5. Operating Instructions

Turn the rotary switch to the desired measurement function. The meter will automatically select the appropriate range.

5.1 DC/AC Voltage Measurement

1. Connect the black test lead to the COM jack and the red test lead to the VΩHz jack.
2. Turn the rotary switch to the V (DC Voltage) or V~ (AC Voltage) position.
3. Touch the test probes to the circuit or component under test.
4. Read the voltage value on the display.

5.2 DC/AC Current Measurement

1. **Important:** Ensure the circuit is de-energized before connecting the meter in series.
2. Connect the black test lead to the COM jack.
3. For current up to 600mA, connect the red test lead to the mA jack. For current up to 10A, connect the red test lead to the 10A jack.
4. Turn the rotary switch to the A (DC Current) or A~ (AC Current) position.
5. Open the circuit where current is to be measured and connect the meter in series.
6. Re-energize the circuit and read the current value on the display.

5.3 Resistance Measurement

1. Connect the black test lead to the COM jack and the red test lead to the VΩHz jack.
2. Turn the rotary switch to the Ω (Resistance) position.
3. Ensure the circuit or component under test is de-energized.
4. Touch the test probes across the component.
5. Read the resistance value on the display.

5.4 Capacitance Measurement

1. Connect the black test lead to the COM jack and the red test lead to the VΩHz jack.
2. Turn the rotary switch to the F (Capacitance) position.
3. Ensure the capacitor is fully discharged before testing.
4. Touch the test probes across the capacitor terminals.
5. Read the capacitance value on the display.

5.5 Frequency Measurement

1. Connect the black test lead to the COM jack and the red test lead to the VΩHz jack.
2. Turn the rotary switch to the Hz (Frequency) position.
3. Touch the test probes to the circuit where frequency is to be measured.
4. Read the frequency value on the display.

5.6 Non-Contact Voltage (NCV) Detection

1. Turn the rotary switch to the NCV position.
2. Move the top end of the multimeter close to the conductor or outlet.
3. The meter will indicate the presence of AC voltage through an audible beep and visual indicator.



Figure 5: Multimeter in use with its kickstand.

6. Maintenance

6.1 Cleaning

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

6.2 Battery Replacement

When the low battery indicator appears on the display, replace the batteries as described in Section 4.1. Remove batteries if the meter is not used for an extended period.

6.3 Fuse Replacement

If the current measurement function fails, the fuse may need replacement. Refer to the safety warnings on the back of the device for fuse specifications (e.g., 600mA/250V and 10A/250V). Always replace with a fuse of the same type and rating.

7. Troubleshooting

- **No Display:** Check battery installation and charge. Replace batteries if necessary.
- **Incorrect Readings:** Ensure test leads are correctly connected to the appropriate input jacks and the rotary switch is set to the correct function. Verify the circuit or component under test is de-energized before resistance or capacitance tests.
- **Current Measurement Failure:** Check the fuse. Replace if blown, ensuring the correct fuse type and rating.
- **NCV Not Detecting:** Ensure the NCV function is selected and the meter is brought close enough to a live AC conductor.

8. Specifications

The following table details the measurement ranges and accuracy for the Fafeicy HT118A Digital Multimeter.

Item	Range	Resolution	Accuracy
DC Voltage	600mV	0.1mV	± (0.5% of reading + 3)
DC Voltage	6V	0.001V	
DC Voltage	60V	0.01V	
DC Voltage	600V	0.1V	
DC Voltage	1000V	1V	
AC Voltage	6V	0.001V	±(0.8% of reading +5)
AC Voltage	60V	0.01V	
AC Voltage	600V	0.1V	
AC Voltage	1000V	1V	
DC Current	600µA	0.1µA	± (1.2% of reading + 3)
DC Current	6000µA	1µA	
DC Current	60mA	0.01mA	
DC Current	600mA	0.1mA	
DC Current	10A	0.01A	
AC Current	60µA	0.1µA	± (1.5% of reading + 3)
AC Current	600µA	1µA	
AC Current	60mA	0.01mA	
AC Current	600mA	0.1mA	
AC Current	10A	0.01A	
Resistance	600Ω	0.1Ω	±(1.0% of reading +3)
Resistance	6kΩ	0.001kΩ	
Resistance	60kΩ	0.01kΩ	
Resistance	600kΩ	0.1kΩ	
Resistance	6MΩ	0.001MΩ	±(1.5% of reading +3)
Resistance	60MΩ	0.01MΩ	

Item	Range	Resolution	Accuracy
Capacitance	10nF	0.001nF	±(4.0% reading +5)
Capacitance	100nF	0.01nF	
Capacitance	1000nF	0.1nF	
Capacitance	10µF	0.001µF	
Capacitance	100µF	0.01µF	
Capacitance	1000µF	0.1µF	
Capacitance	10mF	0.001mF	±(5.0% of reading +5)
Capacitance	100mF	0.01mF	
Frequency	10Hz	0.001Hz	±(1.0% reading +3)
Frequency	100Hz	0.01Hz	
Frequency	1000Hz	0.1Hz	
Frequency	10kHz	0.001kHz	
Frequency	100kHz	0.01kHz	
Frequency	1000kHz	0.1kHz	
Frequency	10MHz	0.001MHz	± (3.0% of reading + 3)
Duty Cycle	1~99%	0.10%	

General Specifications:

- **Item Model Number:** Fafeicyo3cqx4yzp8
- **Battery:** 2 x 1.5V AA (Not Included)
- **Material:** ABS
- **Package Dimensions:** 8.27 x 5.12 x 2.76 inches
- **Item Weight:** 1.16 Pounds
- **Manufacturer:** Fafeicy

9. Warranty and Support

For warranty information or technical support, please contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question