

KAIWEETS HT118A

KAIWEETS HT118A Digital Multimeter User Manual

Model: HT118A

Brand: KAIWEETS

1. INTRODUCTION

This manual provides instructions for the safe and effective operation of the KAIWEETS HT118A Digital Multimeter. This True RMS 6000 counts multimeter is designed for precise measurement of AC/DC current, AC/DC voltage, capacitance, continuity, frequency, resistance, diode, and temperature. It features an auto-ranging function and an LED terminal guide for ease of use.

2. SAFETY INFORMATION

Always adhere to safety precautions when using electrical testing equipment.

- This device is rated IEC CAT III 1000V and CAT IV 600V.
- Equipped with double ceramic fuses and circuit protection thermistor to prevent burnout.
- High voltage protection is active across all ranges.
- Double insulation: insulated body and protective silicone casing to guard against drops and electric shock.
- The screen backlight turns red when detecting dangerous voltage levels.
- Do not attempt to measure voltages exceeding the specified maximum ratings.
- Ensure test leads are properly connected before making measurements.
- Replace batteries when the low battery indicator appears.

3. WHAT'S IN THE BOX

Upon unpacking, verify that all items listed below are present and undamaged:

- 1x KAIWEETS HT118A Digital Multimeter
- 2x AA 1.5V Batteries (included)
- 1x Test Lead Set
- 1x K-Type Thermocouple
- 1x User Manual

4. SETUP

4.1 Battery Installation

The KAIWEETS HT118A Multimeter operates on 2 AA batteries.

1. Locate the battery compartment cover on the back of the multimeter.
2. Use a screwdriver to open the cover.
3. Insert the 2 AA batteries, observing the correct polarity (+/-).
4. Replace the battery compartment cover and secure it with the screw.



Figure 1: KAIWEETS HT118A Digital Multimeter with included accessories.

5. OPERATING INSTRUCTIONS

The HT118A features an auto-ranging function and an LED terminal guide to simplify measurements.

5.1 Function Selection and Test Lead Connection

To select a measurement function, rotate the function selector dial to the desired position. The LED lights on the corresponding input terminals will illuminate, guiding you to connect the test leads correctly.

LED Luz de Guía

Gire el selector de función a la posición de función a medir, las luces LED de las terminales brillarán en consecuencia con la función opcionada.



Figure 2: LED guide lights indicate correct test lead connection points for the selected function.

5.2 Measuring AC/DC Voltage

1. Rotate the function selector to the "V~" (AC Voltage) or "V-" (DC Voltage) position.
2. Connect the red test lead to the "VΩHz" terminal and the black test lead to the "COM" terminal.
3. Connect the test probes to the circuit or component to be measured.
4. Read the voltage value on the display. The display will show dual readings for AC/DC simultaneously.



Figure 3: Measuring AC voltage with the HT118A multimeter.

5.3 Measuring AC/DC Current

1. Rotate the function selector to the "A~" (AC Current) or "A-" (DC Current) position.
2. Connect the red test lead to the "10A/250V" terminal (for currents up to 10A) or "mA/250V" terminal (for currents up to 600mA). Connect the black test lead to the "COM" terminal.
3. Open the circuit and connect the multimeter in series with the load.
4. Read the current value on the display.

5.4 Measuring Resistance

1. Rotate the function selector to the " Ω " (Resistance) position.
2. Connect the red test lead to the "V Ω Hz" terminal and the black test lead to the "COM" terminal.
3. Connect the test probes across the component to be measured. Ensure the circuit is de-energized.
4. Read the resistance value on the display.

5.5 Continuity Test

1. Rotate the function selector to the continuity symbol position.
2. Connect the red test lead to the "V Ω Hz" terminal and the black test lead to the "COM" terminal.
3. Connect the test probes to the circuit or component.
4. If the resistance is below approximately 50 Ω , the buzzer will sound, indicating continuity.

5.6 Diode Test

1. Rotate the function selector to the diode symbol position.
2. Connect the red test lead to the "V Ω Hz" terminal and the black test lead to the "COM" terminal.
3. Connect the red probe to the anode and the black probe to the cathode of the diode.
4. Read the forward voltage drop on the display. Reverse the probes to check for open circuit (OL) indication.

5.7 Measuring Capacitance

1. Rotate the function selector to the "CAP" (Capacitance) position.
2. Connect the red test lead to the "VΩHz" terminal and the black test lead to the "COM" terminal.
3. Connect the test probes across the capacitor. Ensure the capacitor is discharged before testing.
4. Read the capacitance value on the display.

5.8 Measuring Frequency

1. Rotate the function selector to the "Hz" (Frequency) position.
2. Connect the red test lead to the "VΩHz" terminal and the black test lead to the "COM" terminal.
3. Connect the test probes to the signal source.
4. Read the frequency value on the display.

5.9 Measuring Temperature

1. Rotate the function selector to the "°C/°F" (Temperature) position.
2. Connect the K-type thermocouple to the "VΩHz" and "COM" terminals, observing polarity.
3. Place the thermocouple tip on or in the object whose temperature is to be measured.
4. Read the temperature value on the display.

Medición de Temperatura

PRESICIÓN	RANGO
5.0% / 6°F	-4°F ~ 32°F
1.0% / 4°F	32°F ~ 752°F
2.0 %	752°F ~ 1832°F



Termopar de Tipo K Incluido



Figure 4: Using the K-type thermocouple to measure temperature.

5.10 Non-Contact Voltage (NCV) Detection

1. Rotate the function selector to the "NCV" position.
2. Move the top of the multimeter close to the conductor being tested.
3. The multimeter will emit an audible beep and the NCV indicator light will flash if AC voltage is detected.

5.11 LIVE Wire Detection

1. Rotate the function selector to the "LIVE" position.
2. Insert the red test probe into the socket or touch the conductor.
3. The display will indicate "LIVE" and an audible alarm will sound if a live wire is detected.

5.12 Additional Functions

- **Data Hold (HOLD):** Press the "HOLD" button to freeze the current reading on the display. Press again to release.
- **Maximum/Minimum Value (MAX/MIN):** Press the "MAX/MIN" button to record the maximum or minimum measured

- value.
- **Backlight:** Press the backlight button (often combined with another function button) to turn on/off the display backlight.
 - **Auto Power Off:** The multimeter will automatically power off after a period of inactivity to conserve battery life.

6. MAINTENANCE

6.1 Cleaning

Wipe the multimeter casing with a damp cloth and mild detergent. Do not use abrasives or solvents.

6.2 Fuse Replacement

If the current measurement function fails, the fuse may need replacement. Refer to the specifications for the correct fuse type. Fuse replacement typically requires opening the back casing of the multimeter.

Warning: Disconnect all test leads and power off the multimeter before attempting fuse replacement.

6.3 Battery Replacement

When the low battery indicator appears on the display, replace the batteries as described in Section 4.1.

7. TROUBLESHOOTING

- **No display or faint display:** Check battery installation and charge. Replace batteries if necessary.
- **Incorrect readings:** Ensure correct function selection and proper test lead connection. Verify the circuit is de-energized for resistance and continuity tests.
- **No continuity beep:** Check if the circuit resistance is above 50Ω. Ensure test leads are not damaged.
- **Current measurement not working:** Check the fuse. Replace if blown.

8. SPECIFICATIONS

Feature	Specification
Model Number	HT118A
Display	6000 Counts
True RMS	Yes
Max Operating Voltage	600 Volts
Safety Rating	IEC CAT III 1000V, CAT IV 600V
Power Source	2 AA Batteries
Product Dimensions	20.4 x 13 x 6.2 cm
Product Weight	272 Grams
Certifications	RoHS, CE

9. WARRANTY AND SUPPORT

KAIWEETS offers a 3-year replacement or repair service for all quality issues. Permanent technical support is also provided. For any product quality concerns or technical assistance, please contact KAIWEETS customer service through your purchase order.

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