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KAIWEETS KM100

KAIWEETS KM100 Digital Multimeter User Manual

Model: KM100 | Brand: KAIWEETS

1. INTRODUCTION

The KAIWEETS KM100 is a compact and reliable digital multimeter designed for various electrical measurements. It features a 2000-count display and can measure AC/DC voltage, DC current, resistance, continuity, and diode. This manual provides essential information for safe and effective operation of your device.



Figure 1: KAIWEETS KM100 Digital Multimeter with test leads.

2. SAFETY INFORMATION

Always adhere to safety precautions when using any electrical testing equipment. Failure to do so may result in electric shock, injury, or damage to the meter or equipment under test.

- This multimeter is certified to IEC CAT III 600V, CE, and RoHS standards.
- It features anti-burn protection with double fuses and overload protection on all ranges.
- Do not attempt to measure AC current with this device. It is designed for DC current measurement only.
- Ensure the test leads are in good condition, without any damage to the insulation.
- Always select the correct function and range before making a measurement.
- Do not use the meter if it appears damaged or if the test leads are compromised.
- Keep fingers behind the finger guards on the test probes during measurements.
- Disconnect power to the circuit before measuring resistance or continuity.
- Replace batteries promptly when the low battery indicator appears.



Figure 2: Internal view illustrating safety features, including fuses.

3. PRODUCT OVERVIEW

The KAIWEETS KM100 Digital Multimeter consists of the following main components:

1. **LCD Display:** Shows measurement readings, units, and function indicators. Features a backlight for low-light conditions.
2. **Rotary Switch:** Used to select the desired measurement function and range.
3. **Input Jacks:**
 - **COM Jack:** Common terminal for the black test lead.
 - **VΩmA Jack:** Input for voltage, resistance, and small current measurements (red test lead).
 - **10A Jack:** Input for high DC current measurements (red test lead).
4. **Data Hold Button (H):** Freezes the current reading on the display.
5. **Backlight Button:** Activates or deactivates the display backlight.
6. **Kickstand:** Located on the back for convenient hands-free operation.

Test de tension alternative

Remarque : Ce compteur ne peut pas être utilisé pour tester le courant alternatif.



Figure 3: Front view of the multimeter highlighting key components.

4. SETUP

4.1 Battery Installation

The KAIWEETS KM100 requires two AAA batteries (included). To install or replace batteries:

1. Ensure the multimeter is turned OFF.
2. Locate the battery compartment cover on the back of the meter.
3. Use a screwdriver to remove the screw securing the cover.
4. Remove the cover and insert two AAA batteries, observing correct polarity (+ and -).
5. Replace the cover and secure it with the screw.

4.2 Connecting Test Leads

Always connect the black test lead to the COM jack. Connect the red test lead to the appropriate input jack based on the measurement type:

- For Voltage (AC/DC), Resistance, Continuity, and Diode measurements: Connect the red lead to the **VΩmA** jack.
- For DC Current (up to 200mA) measurements: Connect the red lead to the **VΩmA** jack.
- For High DC Current (up to 10A) measurements: Connect the red lead to the **10A** jack.

5. OPERATING INSTRUCTIONS

To perform a measurement, follow these general steps:

1. Connect the test leads correctly to the multimeter.
2. Turn the rotary switch to the desired function and range.
3. Connect the test probes to the circuit or component under test.
4. Read the measurement value on the LCD display.

5.1 Measuring AC Voltage (V~)

This function measures alternating current voltage. **Note: This meter cannot measure AC current.**

1. Connect the red test lead to the VΩmA jack and the black test lead to the COM jack.
2. Turn the rotary switch to the "V~" range (e.g., 200V, 600V).
3. Touch the test probes to the two points where you want to measure AC voltage.
4. The AC voltage value will be displayed.

Test de tension alternative

Remarque : Ce compteur ne peut pas être utilisé pour tester le courant alternatif.



Figure 4: Example of AC Voltage measurement setup. (Note: This image is a general product shot, but illustrates the meter in use for voltage measurement.)

5.2 Measuring DC Voltage (V---)

This function measures direct current voltage.

1. Connect the red test lead to the VΩmA jack and the black test lead to the COM jack.
2. Turn the rotary switch to the "V---" range (e.g., 200mV, 2V, 20V, 200V, 600V).
3. Touch the red probe to the positive side and the black probe to the negative side of the DC voltage source.
4. The DC voltage value will be displayed.



Figure 5: Measuring DC Voltage on a car battery.

5.3 Measuring DC Current (A---)

This function measures direct current. **Important: Never measure AC current with this device.**

1. **For currents up to 200mA:** Connect the red test lead to the VΩmA jack and the black test lead to the COM jack.
2. **For currents up to 10A:** Connect the red test lead to the 10A jack and the black test lead to the COM jack.
3. Turn the rotary switch to the appropriate "A---" range (e.g., 200m, 10A).
4. Open the circuit where you want to measure current and connect the multimeter in series with the circuit.
5. The DC current value will be displayed.

5.4 Measuring Resistance (Ω)

This function measures the electrical resistance of a component.

1. Ensure the circuit is de-energized before measuring resistance.
2. Connect the red test lead to the VΩmA jack and the black test lead to the COM jack.

3. Turn the rotary switch to the " Ω " range (e.g., 200 Ω , 2k Ω , 20k Ω , 200k Ω , 2M Ω , 20M Ω).
4. Touch the test probes across the component whose resistance you want to measure.
5. The resistance value will be displayed.

5.5 Continuity Test ()

This function checks for an open or closed circuit and emits an audible tone if continuity is detected.

1. Ensure the circuit is de-energized before performing a continuity test.
2. Connect the red test lead to the V Ω mA jack and the black test lead to the COM jack.
3. Turn the rotary switch to the continuity symbol ().
4. Touch the test probes across the component or circuit path.
5. If continuity exists (low resistance), the meter will beep. The display will show the resistance value.



Figure 6: Performing a continuity test on wires.

5.6 Diode Test (▶|)

This function checks the forward voltage drop of a diode.

1. Ensure the diode is disconnected from any power source.
2. Connect the red test lead to the VΩmA jack and the black test lead to the COM jack.
3. Turn the rotary switch to the diode symbol (▶|).
4. Touch the red probe to the anode and the black probe to the cathode of the diode.
5. The forward voltage drop (typically 0.5V to 0.8V for silicon diodes) will be displayed. Reversing the probes should show an "OL" (Overload) reading for a good diode.

5.7 Special Functions: Data Hold and Backlight

- **Data Hold (H):** Press the "H" button to freeze the current reading on the display. Press it again to release.
- **Backlight:** Press the backlight button to illuminate the display for better visibility in dark environments. Press it again to turn off the backlight.

6. MAINTENANCE

6.1 General Care

- Keep the multimeter clean and dry. Use a soft, damp cloth for cleaning; do not use abrasives or solvents.
- Store the meter in a cool, dry place away from direct sunlight and extreme temperatures.
- If the meter is not used for an extended period, remove the batteries to prevent leakage.

6.2 Battery Replacement

Refer to Section 4.1 for detailed instructions on battery installation and replacement.

6.3 Fuse Replacement

If the current measurement function stops working, the fuse may need replacement. Fuse replacement should only be performed by qualified personnel. Refer to the safety section for fuse specifications.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display or dim display	Low batteries or incorrect battery installation.	Replace batteries, ensuring correct polarity.
"OL" (Overload) displayed	Measurement exceeds selected range or open circuit (for continuity/resistance).	Select a higher range, check circuit connections.
Incorrect readings	Incorrect function/range selected, poor test lead connection, or damaged test leads.	Verify function/range, ensure secure connections, inspect test leads for damage.
Current measurement not working	Blown fuse.	Replace the fuse (refer to Section 6.3).

8. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model Number	KM100
Display	2000 Counts Digital Display
AC Voltage Measurement	Yes (Ranges: 200V, 600V)
DC Voltage Measurement	Yes (Ranges: 200mV, 2V, 20V, 200V, 600V)
DC Current Measurement	Yes (Ranges: 200μA, 2mA, 20mA, 200mA, 10A)
AC Current Measurement	No
Resistance Measurement	Yes (Ranges: 200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ)
Continuity Test	Yes (with audible buzzer)
Diode Test	Yes
Data Hold	Yes
Backlight	Yes
Safety Rating	IEC CAT III 600V, CE, RoHS
Power Source	2 x AAA Batteries (included)
Product Dimensions (L x W x H)	12.8 x 6.7 x 3.6 cm
Item Weight	228.21 grams (approx. 8.05 ounces)
UPC	808281542581

9. WARRANTY AND SUPPORT

KAIWEETS provides a 36-month service warranty and lifetime technical support for the KM100 Digital Multimeter. If you have any concerns, questions, or require assistance, please do not hesitate to contact KAIWEETS customer service. For support, please visit the official KAIWEETS website or contact their customer service directly.

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.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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