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KAIWEETS KM200P

KAIWEETS KM200P Digital Multimeter User Manual

Model: KM200P | Brand: KAIWEETS

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of the KAIWEETS KM200P Digital Multimeter. The KM200P is a professional-grade tool designed for precise and safe electrical measurements, featuring an all-button operation, True RMS, 4000 counts display, and various measurement functions. Please read this manual thoroughly before operating the device.

2. SAFETY INFORMATION

WARNING: To avoid electric shock or personal injury, read and understand all safety information before using this multimeter.

- Always ensure the test leads are properly connected and the correct function is selected before making measurements.
- Do not measure voltages exceeding the maximum rated input of the meter.
- Use caution when working with voltages above 30V AC RMS, 42V peak, or 60V DC. These voltages pose a shock hazard.
- Inspect test leads for damaged insulation or exposed metal before use. Replace if damaged.
- Do not operate the meter if it appears damaged or if the case is open.
- Remove test leads from the circuit before changing functions.
- Replace batteries when the low battery indicator appears to ensure accurate readings.
- Adhere to local and national safety codes.

3. PRODUCT OVERVIEW

The KAIWEETS KM200P Digital Multimeter is designed for versatility and ease of use. It features an all-button interface, eliminating traditional rotary knobs for enhanced durability and precision.

3.1 Key Features

- **All-Button Operation:** Dedicated buttons for all functions (DC/AC voltage, capacitance, diode, resistance, NCV, continuity, LIVE detection).
- **4000 Counts & True RMS:** High-resolution display with True RMS for accurate measurements of non-sinusoidal signals.
- **NCV & LIVE Wire Detection:** Non-contact voltage detection with visual and audible alerts, and single-probe LIVE detection for identifying live wires.
- **Comprehensive Measurement:** Covers DC/AC voltage, resistance, capacitance, diode testing, continuity, and LIVE detection.
- **Smart Convenience:** 15-minute auto-shutdown, HOLD function, white backlight (red for alerts), built-in flashlight, and °C/°F switch.

3.2 Package Contents

The KM200P package includes:

- KAIWEETS KM200P Digital Multimeter
- 2x Test Leads (Red and Black)
- 2x AAA Batteries (pre-installed or separate)
- Portable Carrying Case
- User Manual (this document)



Image: KAIWEETS KM200P Digital Multimeter with included test leads, batteries, and carrying case.

4. SETUP

4.1 Battery Installation

1. Ensure the multimeter is powered off.
2. Locate the battery compartment cover on the back of the device.
3. Use a screwdriver to open the battery compartment.
4. Insert two AAA batteries, observing the correct polarity (+/-).
5. Replace the battery compartment cover and secure it.

4.2 Connecting Test Leads

1. Insert the red test lead into the **VΩHz** input jack.
2. Insert the black test lead into the **COM** input jack.
3. Ensure connections are firm before use.

KEY OPERATION, NOT KNOB

KM200P

Others



Image: Front view of the KAIWEETS KM200P Digital Multimeter with test leads connected to the appropriate input jacks.

5. OPERATING INSTRUCTIONS

The KM200P features an intuitive all-button interface. Press the corresponding button to select the desired measurement function.

5.1 Power On/Off

Press the **Power button** () to turn the multimeter on or off.

5.2 Auto Mode (Smart Measurement)

The multimeter defaults to Auto mode upon power-on, indicated by "AUTO" on the display. In this mode, the meter automatically identifies and measures AC/DC voltage, resistance, and continuity.

1. Press the **AUTO** button.
2. Touch the test leads to the unknown circuit.
3. The multimeter will automatically display the correct measurement value.

SMART AUTO MODE



► Press the AUTO button

► Touch the test leads to an unknown circuit



► Displays the correct measurement value

Image: The KAIWEETS KM200P displaying a voltage measurement in Auto mode, demonstrating its smart measurement capability.

5.3 DC/AC Voltage Measurement

1. Press the **V button** to cycle between DC Voltage (V=) and AC Voltage (V~).
2. Connect the test leads in parallel to the circuit or component to be measured.
3. Read the voltage value on the display.

ONE-TAP SWITCHING, PRECISE MEASUREMENT



Image: The KAIWEETS KM200P measuring the voltage of a car battery, illustrating one-tap switching for precise measurements.

5.4 Resistance Measurement (Ω)

1. Press the **Ω button**.

2. Ensure the circuit is de-energized before measuring resistance.
3. Connect the test leads across the component.
4. Read the resistance value on the display.

5.5 Continuity Test ()

1. Press the **Continuity button**.
2. Ensure the circuit is de-energized.
3. Connect the test leads across the circuit path.
4. A continuous beep indicates continuity (low resistance).

5.6 Capacitance Measurement (F)

1. Press the **Capacitance button**.
2. Ensure the capacitor is discharged before measurement to avoid damage to the meter.
3. Connect the test leads across the capacitor terminals.
4. Read the capacitance value on the display.

5.7 Diode Test (→|)

1. Press the **Diode button**.
2. Connect the red test lead to the anode and the black test lead to the cathode of the diode.
3. The display will show the forward voltage drop. Reverse the leads to check for open circuit (OL).

5.8 Non-Contact Voltage (NCV) Detection

1. Press the **NCV button**.
2. Hold the top of the multimeter near the conductor or outlet.
3. The screen will turn red and the meter will beep, indicating the presence of AC voltage.

DOUBLE SAFETY CHECK

NCV Non-contact Detection



Live Wire Identification



Image: The KAIWEETS KM200P performing Non-Contact Voltage (NCV) detection, showing the red screen alert for AC voltage.

5.9 LIVE Wire Detection

1. Press the **LIVE button**.
2. Insert the red test lead into the live wire socket or touch the live wire.
3. The display will show "---L" for weak AC or "---H" for strong AC, accompanied by fast/slow beeps.

5.10 Data Hold (HOLD)

Press the **HOLD button** to freeze the current reading on the display. Press again to release.

5.11 Backlight and Flashlight

Press the **Backlight/Flashlight button** () to toggle the display backlight or activate the built-in flashlight for working in dark environments.



Image: The KAIWEETS KM200P with its built-in flashlight illuminated, demonstrating its user-friendly design for dark spaces.

5.12 Temperature Unit Switch (°C/°F)

If applicable, press the **°C/°F button** to switch between Celsius and Fahrenheit temperature units.

5.13 Auto-Shutdown

The multimeter will automatically power off after 15 minutes of inactivity to conserve battery life. Press any button to wake it up.

6. MAINTENANCE

6.1 Cleaning

Wipe the meter's case with a damp cloth and mild detergent. Do not use abrasives or solvents. Keep the display clean and dry.

6.2 Battery Replacement

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

6.3 Storage

If the meter is not used for an extended period, remove the batteries to prevent leakage. Store the meter in a cool, dry place, preferably in its carrying case.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Meter does not power on.	Dead or incorrectly installed batteries.	Check battery polarity; replace batteries.
"OL" displayed during measurement.	Overload, open circuit, or out of range.	Check connections; ensure the measured value is within the meter's range.
Inaccurate readings.	Low battery, incorrect function selected, or damaged test leads.	Replace batteries; verify function selection; inspect and replace test leads if necessary.
NCV/LIVE detection not working.	Not in NCV/LIVE mode, or no AC voltage present.	Ensure NCV/LIVE mode is active; confirm presence of AC voltage.

8. SPECIFICATIONS

Feature	Detail
Model Number	KM200P
Display	4000 Counts LCD
Ranging	Auto Ranging
True RMS	Yes
Power Source	2x AAA Batteries (included)
Dimensions (L x W x H)	15 x 10 x 3 Centimeters

Feature	Detail
Item Weight	320 g
Safety Rating	MAX 600V CAT II
Auto-Shutdown	15 minutes of inactivity

9. WARRANTY & SUPPORT

KAIWEETS provides a **3-Year warranty** for the KM200P Digital Multimeter, ensuring your purchase is risk-free. For technical assistance, troubleshooting, or warranty claims, please contact KAIWEETS customer service. They offer **24/7h after-sales service**.

Please refer to the official KAIWEETS website or your purchase documentation for the most up-to-date contact information.