

KAIWEETS KC604

KAIWEETS Digital Clamp Meter Multimeter User Manual

Model: KC604 | Brand: KAIWEETS

1. INTRODUCTION

Thank you for choosing the KAIWEETS KC604 Digital Clamp Meter Multimeter. This device is designed for accurate and safe measurement of various electrical parameters, including AC/DC current, AC/DC voltage, temperature, capacitance, frequency, resistance, continuity, and diode testing. It features a unique D-shaped jaw for convenient clamping and non-contact voltage (NCV) detection for enhanced safety.

Safety Warning: Always read and understand all safety information and operating instructions before using this meter. This device is rated CAT III 600V. The screen will turn orange to warn when voltage exceeds 80V or current exceeds 1A.

2. WHAT'S IN THE BOX

- KAIWEETS KC604 Clamp Meter
- Test Leads (Red and Black)
- Thermocouple
- AAA Batteries (Pre-installed or included)
- Carry Case
- User Manual



Figure 2.1: KAIWEETS KC604 Clamp Meter with all included accessories.

3. PRODUCT FEATURES

3.1. TRUE-RMS AC/DC Clamp Meter

This multimeter provides accurate True-RMS measurements for both AC and DC currents and voltages. It is equipped to measure a wide range of electrical parameters, making it suitable for various applications from household electrical systems to automotive and industrial troubleshooting.

DC/AC CURRENT



DC/AC VOLTAGE



Figure 3.1: Measuring AC/DC Current with the D-shaped jaw.

TEMPERATURE MEASUREMENT



-4°F to 1832°F
(-20°C to 1000°C)



Figure 3.2: Measuring AC/DC Voltage using the test leads.

PROPER MEASUREMENT



Figure 3.3: Temperature measurement using the included thermocouple.

3.2. D-Shaped Jaw Design

Unlike traditional clamp meters, the KC604 features a distinctive D-shaped jaw that can open up to 1.1 inches (2.87 cm). This design provides a convenient and secure way to clamp onto various cables, including larger diameter wires, for current measurements.

MORE USER-FRIENDLY DESIGN

2.87CM
1.1inch



D-shaped jaw



Test lead storage



Figure 3.4: The unique D-shaped jaw and integrated test lead storage.

3.3. NCV (Non-Contact Voltage) Detection

The non-contact voltage testing function allows you to detect AC voltage without direct circuit contact, enhancing safety. Simply press the NCV button and bring the meter close to the conductor. The device provides audible and visual alarms, with the buzzer frequency increasing as the voltage signal strengthens.

WIDER FREQUENCY RANGE

10MHz

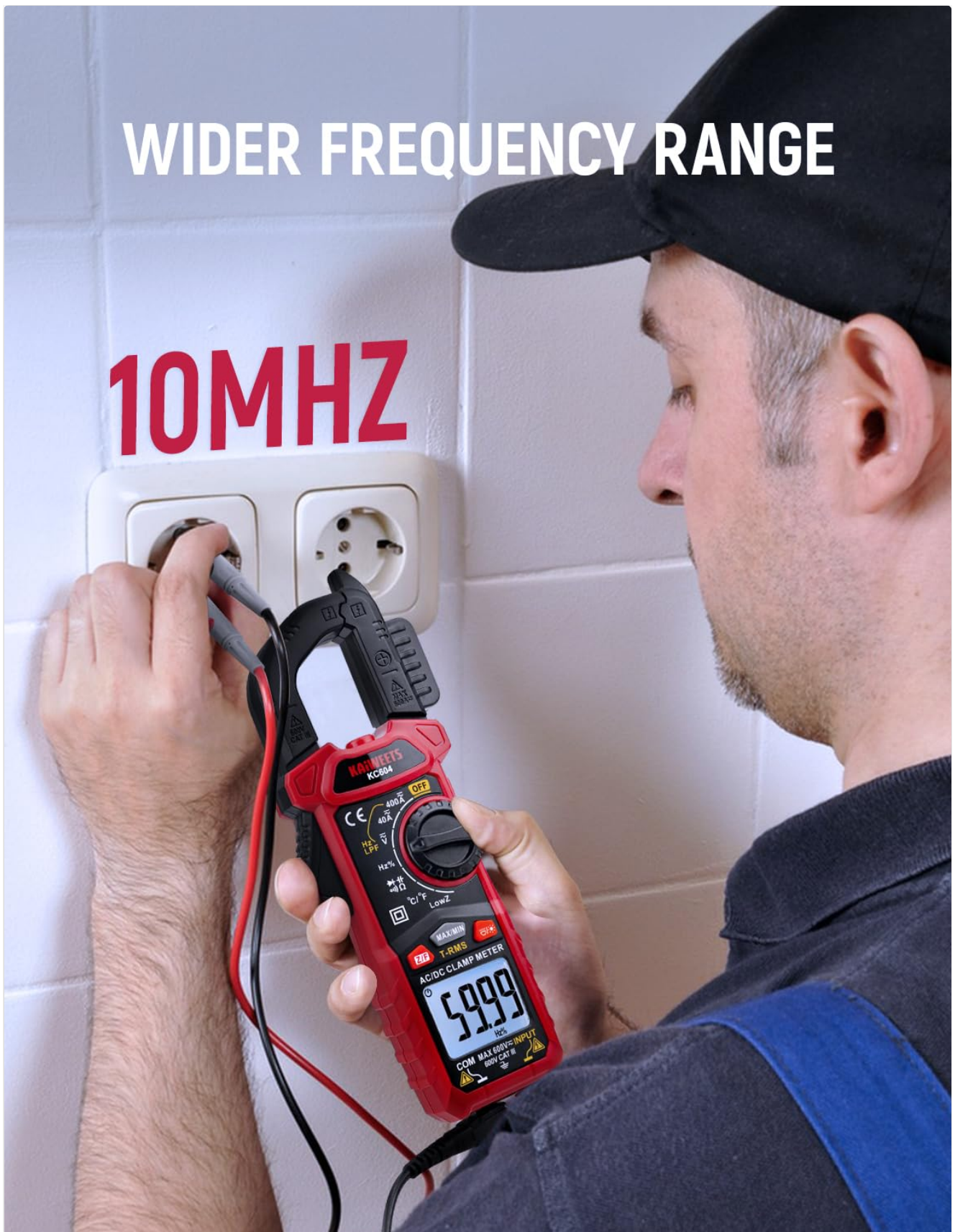


Figure 3.5: NCV detection indicating low and high voltage signals.

3.4. User-Friendly Design

The KC604 is designed with user convenience in mind. It features integrated test lead storage, an LCD backlight screen for clear readings in various lighting conditions, and a built-in flashlight for dimly lit areas. A low battery indicator prompts timely battery replacement, and the ammeter automatically shuts off after 15 minutes of inactivity to conserve power.

NON-CONTACT VOLTAGE TEST



Figure 3.6: LCD backlight and flashlight for improved visibility.

4. SETUP

4.1. Battery Installation

1. Ensure the meter 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 battery cover.
4. Insert the required AAA batteries, observing the correct polarity (+/-) as indicated inside the compartment.
5. Replace the battery cover and secure it with the screw.

4.2. Connecting Test Leads

1. Ensure the meter is turned OFF before connecting or disconnecting test leads.
2. Insert the black test lead into the 'COM' (common) input jack.
3. Insert the red test lead into the appropriate input jack for your measurement:
 - For Voltage, Resistance, Capacitance, Frequency, Diode, and Continuity measurements, insert into the 'VΩHz' jack.
 - For Current measurements using test leads (not clamp), refer to the specific current input jack if available (KC604 primarily uses clamp for current).
4. Ensure connections are firm and secure.

5. OPERATING MODES

The KAIWEETS KC604 features a rotary dial to select different measurement functions. Turn the dial to the desired function before taking a measurement.

5.1. AC/DC Current Measurement (Clamp)

1. Turn the rotary dial to the '400A' or '40A' AC/DC current range.
2. For DC current measurement, press the 'Z/F' button to zero the data before clamping.
3. Open the clamp jaw and enclose only one conductor (not a bundle of wires) within the jaw.
4. Read the current value on the LCD display.

EASY to READ

Even at night



Flashlight



Backlight






Figure 5.1: Proper technique for current measurement using the clamp jaw.

5.2. AC/DC Voltage Measurement

1. Turn the rotary dial to the 'V~' (AC Voltage) or 'V=' (DC Voltage) position.
2. Connect the red test lead to the positive (+) point and the black test lead to the negative (-) or common point of the circuit.
3. Read the voltage value on the LCD display.

5.3. Resistance, Continuity, Diode, Capacitance, Frequency

These functions are typically grouped on the rotary dial. Select the appropriate symbol for your desired measurement:

- **Resistance (Ω):** Measures the electrical resistance of a component or circuit.
- **Continuity ()**: Checks for a complete circuit path with an audible beep for low resistance.
- **Diode ()**: Tests the forward voltage drop of a diode.
- **Capacitance ()**: Measures the capacitance of a capacitor.
- **Frequency (Hz):** Measures the frequency of an AC signal.

Connect the test leads across the component or circuit as appropriate for each measurement type.

6. MAINTENANCE

6.1. Cleaning

To clean the meter, 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 promptly to ensure accurate readings. Follow the battery installation steps in Section 4.1.

6.3. Storage

When not in use for extended periods, remove the batteries to prevent leakage. Store the meter and its accessories in the provided carry case in a cool, dry place, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

- **Meter does not turn on or display is blank:** Check battery installation and ensure batteries are not depleted. Replace if necessary. The auto-off feature may have activated; simply turn the dial or press a button to reactivate.
- **Inaccurate readings:** Ensure the correct measurement function is selected. Check test lead connections for firmness. Verify that the D-shaped jaw is properly closed around a single conductor for current measurements.
- **Continuity function does not beep:** Ensure the test leads are making good contact with the circuit. The resistance may be too high for the continuity function to register.
- **NCV detection not working:** Ensure the NCV function is selected and the top of the D-shaped jaw (where the sensor is located) is pointed towards the AC voltage source.

For more detailed troubleshooting or issues not listed here, please refer to the comprehensive manual included with your product or contact KAIWEETS customer support.

8. SPECIFICATIONS

Specification	Value
Product Dimensions	7.62 x 3.11 x 1.36 inches

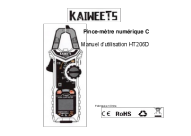




Specification	Value
Item Model Number	KC604
Manufacturer	KAIWEETS
Power Source	Battery Powered
Style	AC/DC Current
Color	Red
Item Weight	0.41 Kilograms (14.46 ounces)


9. WARRANTY AND SUPPORT

KAIWEETS provides 36 months of high-quality service and lifetime technical support for the KC604 Digital Clamp Meter. For any inquiries, technical assistance, or warranty claims, please contact KAIWEETS customer service through their official website or the retailer where the product was purchased. Please retain your proof of purchase for warranty purposes.

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Related Documents - KC604


	<p>KAIWEETS HT206D Digital Clamp Meter User Manual and Specifications</p> <p>Comprehensive user manual for the KAIWEETS HT206D digital clamp meter. Includes detailed instructions on operation, safety precautions, features, specifications, and maintenance for this T-RMS auto-ranging AC/DC clamp meter.</p>
	<p>KAIWEETS HT206D True-RMS Digital Clamp Meter User Manual</p> <p>Comprehensive user manual for the KAIWEETS HT206D True-RMS Digital Clamp Meter. Learn about its features, safety information, operating instructions, and specifications for accurate electrical measurements.</p>
	<p>KAIWEETS HT118A Digital Multimeter User Manual</p> <p>Comprehensive user manual for the KAIWEETS HT118A Digital Multimeter, covering safety instructions, product description, multimeter features, measurement functions, and specifications.</p>
	<p>Kaiweets KM601 Smart Digital Multimeter User Manual</p> <p>Comprehensive user manual for the Kaiweets KM601 Smart Digital Multimeter, covering safety information, product features, measurement modes (SMART and MANUAL), terminal descriptions, maintenance, specifications, and warranty.</p>
	<p>KAIWEETS HT206B True-RMS Digital Clamp Meter User Manual</p> <p>Comprehensive user manual for the KAIWEETS HT206B True-RMS Digital Clamp Meter, detailing its features, safety information, operating instructions, and specifications for various electrical measurements.</p>




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True-rms Digital
Clamp Meter
HT208D User Manual
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[KAIWEETS HT208D True-rms Digital Clamp Meter User Manual](#)
Manuel d'utilisation du multimètre à pince numérique KAIWEETS HT208D, incluant les caractéristiques, fonctions avancées, spécifications techniques, et instructions de sécurité.

Documents - KAIWEETS – KC604



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