KAIWEETS KC604

KAIWEETS KC604 Digital Clamp Meter & KET20 Test Leads User Manual

Model: KC604
Brand: KAIWEETS

Product Overview

The KAIWEETS KC604 Digital Clamp Meter is a versatile multimeter designed for accurate measurement of AC/DC current, AC/DC voltage, temperature, NCV, capacitance, frequency, resistance, continuity, and diode. It features a unique D-shaped jaw for convenient clamping on various cables. This package also includes KAIWEETS KET20 Silicone Multimeter Test Leads, known for their durability, flexibility, and gold-plated probes, suitable for a wide range of electrical testing applications.



Image: The KAIWEETS KC604 Digital Clamp Meter, KET20 Silicone Test Leads, carrying case, batteries, and thermocouple probe.

Key Features:

- **TRUE-RMS Measurement:** Accurately measures AC/DC current, AC/DC voltage, temperature (thermocouple

included), NCV, capacitance, frequency, resistance, continuity, and diode.

- **D-Shaped Jaw:** Unique design allows the clamp to open up to 1.1 inches (2.87 cm) for convenient clamping on various cables.
- **High Safety Performance:** Test leads are rated for CAT III 1000V and CAT IV 600V, 20A, ensuring safe professional electrical testing.
- **2mm Ultra-Fine Gold-Plated Probes:** Precision probes for touching tiny solder joints, offering excellent conductivity and flexibility.
- **Temperature-Resistant Soft Silicone Material:** Test leads remain flexible and anti-tangle even in extreme temperatures, providing durability and reliability.
- **Additional Functions:** Auto-ranging, backlight, flashlight, and low battery indication.

Safety Information

Always adhere to safety precautions when using electrical testing equipment. Failure to do so may result in injury or damage to the device.

- Do not exceed the maximum input values specified for each measurement range.
- Ensure the test leads are properly connected and in good condition before each use.
- The device and test leads are rated for CAT III 1000V and CAT IV 600V. Use them only within these specified categories and voltage limits.
- Do not use the meter if it appears damaged or if the test leads are frayed or broken.
- Exercise caution when working with live circuits. Always assume circuits are live until proven otherwise.
- Keep hands and fingers behind the finger guards on the test probes during measurements.
- Replace batteries promptly when the low battery indicator appears to ensure accurate readings.



Image: The KC604 clamp meter being used for electrical testing, emphasizing its safety features such as CAT III 600V rating.

Setup

1. Battery Installation:

1. Locate the battery compartment cover on the back of the KC604 clamp meter.
2. Use a screwdriver to open the battery compartment.
3. Insert the required batteries (typically AAA, as shown in product images) according to the polarity markings inside the compartment.
4. Replace the battery compartment cover and secure it with the screw.

2. Connecting Test Leads:

- The KET20 test leads have standard 4mm banana plugs.
- Insert the black test lead into the "COM" (common) input jack on the meter.
- Insert the red test lead into the appropriate input jack for your measurement (e.g., "VΩHz" for voltage, resistance, frequency, or "mA" for current if using probes).
- Ensure the connections are firm and secure.



Image: Detailed view of the KET20 test leads, showing the 0.7mm tip, silicone material, 4mm banana plug, and 120cm length.

Operating Instructions

The KC604 features an auto-ranging function, simplifying measurements by automatically selecting the correct range.

1. AC/DC Current Measurement (Clamp Function):

- Turn the rotary dial to the "A~" (AC Current) or "A=" (DC Current) position.
- Open the D-shaped jaw by pressing the lever.
- Enclose a single conductor (wire) within the jaw. Ensure the jaw is fully closed.
- Read the current value on the display.

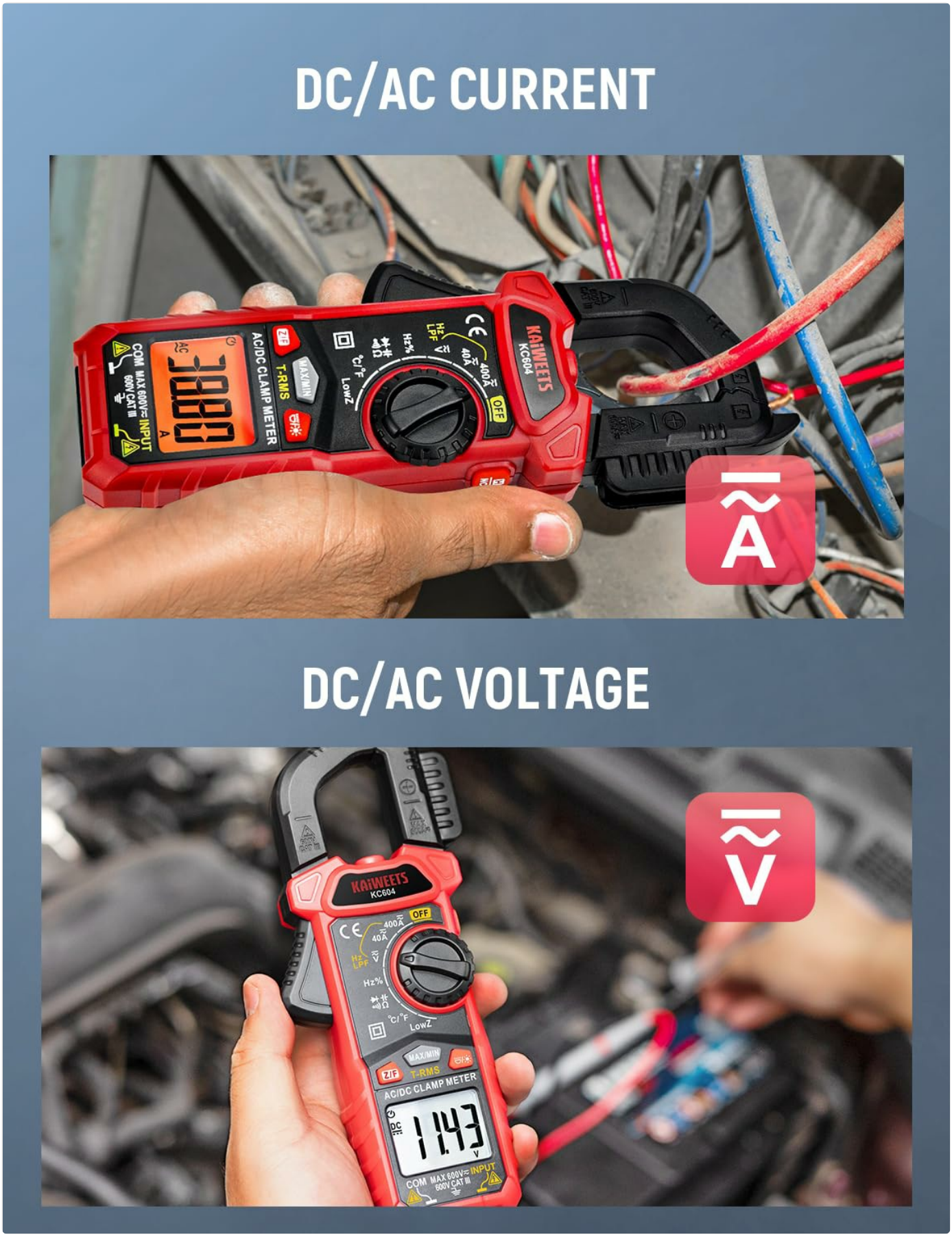


Image: The KC604 clamp meter measuring current by clamping around a single wire.

2. AC/DC Voltage Measurement:

- Connect the black test lead to "COM" and the red test lead to "VΩHz".
- Turn the rotary dial to the "V~" (AC Voltage) or "V=" (DC Voltage) position.
- Touch the test probes to the points where you want to measure voltage.
- Read the voltage value on the display.



Image: The KC604 clamp meter measuring voltage using the red and black test leads.

3. Temperature Measurement:

- Connect the thermocouple probe to the meter's input jacks (observe polarity).
- Turn the rotary dial to the "°C/°F" position.

- Place the thermocouple tip on or in the object whose temperature you wish to measure.
- Read the temperature on the display. The meter supports measurements from -4°F to 1832°F (-20°C to 1000°C).



Image: The KC604 clamp meter measuring temperature using the included thermocouple probe.

4. Other Measurements (Resistance, Continuity, Diode, Capacitance, Frequency, NCV):

- Connect test leads as appropriate for the function (typically red to "VΩHz", black to "COM").

- Turn the rotary dial to the desired function (e.g., Ω for resistance,))) for continuity, diode symbol, F for capacitance, Hz for frequency, NCV for Non-Contact Voltage).
- Follow standard procedures for each measurement type. For NCV, simply bring the top of the meter near a live AC voltage source.

5. Backlight and Flashlight:

- The KC604 is equipped with a backlight for the display and a flashlight for illuminating the work area.
- Refer to the meter's buttons for activating these features (typically a dedicated button or a long press on a function button).

Maintenance

1. Cleaning:

- Wipe the meter and test leads with a damp cloth and mild detergent. Do not use abrasive cleaners or solvents.
- Ensure the device is completely dry before storage or next use.

2. Battery Replacement:

- When the low battery indicator appears on the display, replace the batteries promptly to ensure accurate readings.
- Refer to the "Battery Installation" section under Setup for detailed steps.
- Dispose of old batteries according to local regulations.

3. Test Lead Care:

- The KET20 silicone test leads are designed for durability and flexibility. Avoid sharp bends or excessive pulling that could damage the internal wiring.
- Inspect the test leads regularly for any signs of damage, such as cuts, cracks, or exposed wiring. Replace them immediately if damage is found.
- The gold-plated probes are resistant to corrosion; however, keep them clean and free of debris for optimal contact.



Image: Demonstration of the KET20 silicone test leads' resistance to extreme temperatures, showing flexibility in both heat and cold.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Meter does not power on.	Dead or incorrectly installed batteries.	Check battery polarity; replace batteries.
Inaccurate readings.	Low battery; incorrect function selected; poor test lead connection; external interference.	Replace batteries; ensure correct function is selected; check test lead connections; move away from strong electromagnetic fields.
No reading when clamping current.	Jaw not fully closed; clamping multiple conductors; measuring DC current with AC setting (or vice versa).	Ensure jaw is fully closed; clamp only a single conductor; select appropriate AC or DC current function.
Continuity test shows open circuit when it should be closed.	Damaged test leads; poor contact.	Inspect test leads for damage; ensure firm contact with the circuit.

Specifications

Feature	Detail
Model	KC604 (Clamp Meter), KET20 (Test Leads)
Measurement Type	TRUE-RMS
Display Counts	4000 Counts (as per product description)
AC/DC Current Range	Up to 400A (as per image 400A on dial)
AC/DC Voltage Range	Up to 600V (as per product description)
Temperature Range	-4°F to 1832°F (-20°C to 1000°C)
Jaw Opening	1.1 inches (2.87 cm)
Safety Rating (Test Leads)	CAT III 1000V, CAT IV 600V, 20A
Test Lead Material	Silicone
Test Lead Probe Tip	2mm Ultra-Fine Gold-Plated
Test Lead Length	120cm (48 inches)
Power Source	Batteries (type not specified in JSON, but usually AAA for such devices)
Color	Red

Warranty and Support

For warranty information, technical support, or service inquiries regarding your KAIWEETS KC604 Digital Clamp Meter and KET20 Test Leads, please refer to the official KAIWEETS website or contact their customer service directly. You can visit the KAIWEETS Store on Amazon for more product information and support resources.

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