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KAIWEETS KM100 & KM602

KAIWEETS Digital Multimeter KM100 & Smart Multimeter KM602 User Manual

Model: KM100 & KM602

Brand: KAIWEETS

INTRODUCTION

The KAIWEETS KM602 rechargeable digital multimeter and the KM100 digital multimeter are essential tools designed for various electrical projects. These multimeters combine innovative features with ease of use, enabling efficient and precise resolution of electrical testing issues in automotive, industrial, and household settings.



Image: KAIWEETS KM100 and KM602 Digital Multimeters. The KM602 features a full-color display, while the KM100 has a traditional LCD with a rotary dial.

SETUP

Before using your KAIWEETS multimeter, ensure it is properly set up.

1. Unboxing and Initial Inspection

Carefully remove all components from the packaging. Verify that all accessories, including test leads and the carrying case, are present and undamaged.



Image: KAIWEETS KM100 Digital Multimeter shown with its included test leads and a protective carrying case.



Image: KAIWEETS KM602 Smart Multimeter displayed with its accessories, including test leads, a USB charging cable, and a zippered carrying case.

2. Charging the KM602 Multimeter

The KM602 features a built-in rechargeable battery. Connect the provided USB charging cable to the multimeter and a suitable USB power source. The battery life is designed for extended use, and quick charging ensures the device is ready when needed.

3. Connecting Test Leads

Insert the red test lead into the positive (+) input jack and the black test lead into the common (COM) input jack. Ensure a secure connection before proceeding with any measurements.

OPERATING INSTRUCTIONS

Both the KM100 and KM602 multimeters offer various measurement capabilities. The KM602 defaults to a SMART mode for simplified operation.

KM602 Smart Mode Operation

In SMART mode, the KM602 automatically identifies and measures AC/DC voltage, resistance, and continuity. This mode

automatically selects the optimal range for the highest precision, simplifying the measurement process.



Image: KAIWEETS KM602 Smart Multimeter showcasing its color HD screen, which displays "Auto" when in Smart Mode, enhancing readability in various lighting conditions.

Common Measurement Functions

Both models can precisely gauge a wide range of electrical parameters:

- **AC and DC Voltage:** Measure voltage in circuits.

V=



Image: KAIWEETS KM100 Multimeter performing an AC voltage test on a wall outlet. Note: The KM100 cannot test AC current.

2000 Counts True-RMS Meter



Image: KAIWEETS KM100 Multimeter measuring DC voltage from a car battery, displaying the voltage reading.

- **Resistance:** Determine the electrical resistance of components.
- **Continuity:** Check for complete electrical paths.
- **AC and DC Current:** Measure current flow (KM602 supports AC/DC current, KM100 supports DC current).
- **Capacitance:** Measure the capacitance of capacitors.
- **Frequency:** Measure the frequency of AC signals.
- **Diode Test:** Test the functionality of diodes.
- **Duty Cycle:** Measure the duty cycle of pulsed signals.
- **Temperature:** Measure temperature (KM602).
- **NCV (Non-Contact Voltage) & Live Wire:** Detect live voltage without direct contact for enhanced safety.



Image: KAIWEETS KM602 Smart Multimeter demonstrating its versatility by showing different measurement modes: AC/DC Voltage, AC/DC Current, Continuity, and Thermometer function.



Image: KAIWEETS KM602 Smart Multimeter being used to measure the voltage of a car battery, showing a clear digital reading.

For detailed instructions on selecting specific functions (if not using SMART mode) and interpreting readings, please refer to the comprehensive user manual included with your product.

MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your KAIWEETS multimeter.

Cleaning

Wipe the device with a dry, clean cloth. Do not use abrasive cleaners or solvents. Ensure the device is powered off before cleaning.

Battery Care (KM602)

To maximize the life of the KM602's rechargeable battery, avoid fully discharging it frequently. Charge the device regularly, especially if it will be stored for an extended period.

Fuse Replacement

The multimeters feature two distinct fuse sizes for safeguarding against overload. If a fuse blows, replace it with a fuse of the exact same type and rating to maintain safety and functionality. Refer to the full manual for specific fuse specifications.

and replacement procedures.

TROUBLESHOOTING

If you encounter issues with your KAIWEETS multimeter, consider the following general troubleshooting steps:

- **No Display/Power:** Ensure the device is powered on. For KM602, check battery charge level and recharge if necessary. For KM100, check battery installation.
- **Incorrect Readings:** Verify test lead connections are secure and inserted into the correct input jacks for the desired measurement. Ensure the correct function is selected (or rely on SMART mode for KM602).
- **No Continuity Beep:** Check if the continuity function is selected and if the circuit is indeed continuous.
- **Overload Indication:** If the display shows "OL" or an overload symbol, the measured value exceeds the meter's range for the selected function. Switch to a higher range if available, or ensure the measurement is within the device's capabilities.

For more specific troubleshooting or persistent issues, please refer to the detailed troubleshooting section in the complete user manual or contact KAIWEETS customer service.

SPECIFICATIONS

Key technical specifications for the KAIWEETS KM100 and KM602 multimeters:

Feature	Specification
Item Model Number	KM602 (also KM100 in bundle)
Brand	KAIWEETS
Power Source	Battery Powered (KM602: Rechargeable; KM100: Standard Batteries)
Style	KM100 & KM602
Safety Compliance	IEC rated CAT.III 600V, CE, RoHS
Measurement Type	Voltmeter, Multimeter (AC/DC Voltage, Resistance, Continuity, AC/DC Current, Capacitance, Frequency, Diode, Duty Cycle, Temperature, NCV, Live Wire)
Display (KM602)	Color HD Screen
Counts (KM100)	2000 Counts True-RMS
Protection	Dual fuse protection, silicone casing for shock resistance

AC Voltage Test

Note: The Meter can not be used to test AC current.



Image: Close-up view of the KAIWEETS KM100 Digital Multimeter's display and rotary dial, highlighting its "2000 Counts True-RMS Meter" capability.

WARRANTY AND SUPPORT

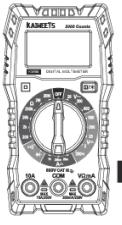
KAIWEETS offers comprehensive customer support for your multimeter.

- After-Sales Service:** A 3-year after-sales service is provided.
- Technical Assistance:** Lifetime technical assistance is available.
- Contact:** For any inquiries or support needs, please do not hesitate to get in touch with KAIWEETS customer service.

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This manual is for informational purposes only. Specifications are subject to change without notice.

Related Documents - KM100 & KM602

 <p>KAIWEETS DIGITAL MULTIMETER KM100</p> <p>Contact us: support@kaiweets.com</p>	<p>KAIWEETS KM100 Digital Multimeter User Manual</p> <p>Comprehensive guide to the KAIWEETS KM100 Digital Multimeter, covering safety operations, meter diagram, functions, measurement procedures for DC/AC voltage, DC current, resistance, continuity, and diode testing, along with technical specifications and maintenance.</p>
 <p>KAIWEETS Users Manual</p> <p>True RMS 6000 Counts Smart Multimeter</p> <p>CE RoHS FCC UL Contact us: support@kaiweets.com</p>	<p>KAIWEETS KM602 Smart Digital Multimeter User Manual</p> <p>User manual for the KAIWEETS KM602 Smart Digital Multimeter, a True RMS 6000 Counts device. Learn about its features, safety specifications, operating instructions, and measurement functions.</p>
	<p>KAIWEETS HT113B Digital Multimeter User Manual</p> <p>Comprehensive user manual for the KAIWEETS HT113B Digital Multimeter, detailing its features, specifications, and operating instructions for accurate electrical testing.</p>
 <p>KAIWEETS True-RMS Multimeter</p> <p>Model HT118A</p>	<p>KAIWEETS HT118A True-RMS Digital Multimeter: User Manual and Specifications</p> <p>Detailed user manual for the KAIWEETS HT118A True-RMS Digital Multimeter. Includes safety instructions, multimeter features, measurement operations, general and accuracy specifications, and maintenance guidelines.</p>
 <p>KAIWEETS TRUE RMS 6000 COUNTS DIGITAL MULTIMETER</p> <p>HT112B</p> <p>Contact us: support@kaiweets.com</p>	<p>KAIWEETS HT112B Digital Multimeter User Manual</p> <p>User manual for the KAIWEETS HT112B True RMS 6000 Counts Digital Multimeter, detailing safety instructions, operation procedures, measurement functions, specifications, and warranty information.</p>

Operation Manual**KAIWEETS**

ST120
Smart Pen-type Multimeter
Please read this manual thoroughly
before use and keep it for later
reference.

After-sale:
support@kaiweets.com

UK REP
UK Authorized Representative
Company Name: COYI YI Consulting Limited
Address: COYI YI Consulting Limited Office 147,
Cairnhill Square, 1 Cairnhill Road, Singapore 049330
Thamesdown, Buntingford, Hertfordshire, UK, HP9 1RL
Tel: +44 1527 878989
Email: HP9-147@coyi.com

Safety Statement

 **Warning:** Operation that may
cause danger to users.

Safety Instructions

The meter conforms to IEC61010-1
CAT.III 600V overvoltage safety
standard and pollution level 2.

KAIWEETS ST120 Smart Pen-type Multimeter Operation Manual

This manual provides detailed instructions for operating the KAIWEETS ST120 Smart Pen-type Multimeter, including safety precautions, product overview, measurement functions, technical specifications, and maintenance procedures.