

## KAIWEETS KTL01

# KAIWEETS KTL01 Non-Contact Voltage Tester Pen User Manual

Model: KTL01

## 1. INTRODUCTION

The KAIWEETS KTL01 is a non-contact AC voltage tester designed for safe and efficient electrical testing. It features dual-range sensitivity, an LCD display with signal percentage, audible and visual alerts, and a built-in flashlight. This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your device.



Image: The KAIWEETS KTL01 Non-Contact Voltage Tester Pen, highlighting its design and display.

## 2. SAFETY INFORMATION

Always prioritize safety when working with electrical systems. This device is rated for **CAT IV 1000V** measurement environments, indicating a high level of protection against transient overvoltages. Adhere to all local and national safety codes.

- Do not use the tester if it appears damaged or is not operating correctly.
- Ensure the battery compartment is securely closed before use.

- Always test on a known live circuit first to confirm the tester is functioning.
- Non-contact detection does not guarantee the absence of voltage. Always verify with a contact method if necessary.
- Keep hands and fingers away from the probe tip during testing.



Image: The KAIWEETS KTL01 detecting voltage in an electrical outlet, showing the red light indicator and CAT IV 1000V safety rating.

### 3. PRODUCT OVERVIEW

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The KTL01 features an ergonomic design with clear indicators for ease of use.



Image: A detailed diagram labeling the components of the KAIWEETS KTL01, including the battery cover, sensitivity adjustment button, flashlight switch, power button, LCD screen, signal indicator, and probe (NCV sensor).

### Key Components:

- **Probe (NCV Sensor):** Detects AC voltage without contact.
- **Signal Indicator:** LED light that illuminates to indicate voltage presence.
- **Flashlight:** Provides illumination in dark work areas.
- **LCD Screen:** Displays voltage strength percentage, bar graph, and mode.
- **Power Button:** Turns the device on/off.
- **Flashlight Switch:** Activates/deactivates the flashlight.
- **SENS Button (Sensitivity Adjustment):** Switches between high and low sensitivity modes.
- **Battery Cover:** Access for battery installation.

# INTUITIVE DISPLAY

Signal percentage readout & analog bar



Image: Close-up of the KAIWEETS KTL01's intuitive LCD display, showing a signal percentage readout and an analog bar graph.

## 4. SETUP

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### Battery Installation:

1. Unscrew the battery cover at the bottom of the tester.
2. Insert two 1.5V AAA batteries, ensuring correct polarity (+/-).
3. Securely replace the battery cover.

## 5. OPERATING INSTRUCTIONS

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## Power On/Off:

- Press the **Power Button** to turn the tester on. The LCD will illuminate.
- Press and hold the **Power Button** again to turn the tester off.
- The device will automatically shut off after 5 minutes of inactivity to conserve battery.

## Dual-Range Voltage Sensitivity:

The KTL01 offers two sensitivity modes for various applications:

- **High Sensitivity Mode (12V-1000V AC):** Suitable for general household wiring, outlets, and circuit breakers.
- **Low Sensitivity Mode (70V-1000V AC):** Ideal for sensitive devices like doorbells, thermostats, and irrigation systems to minimize false alarms.

Press the **SENS Button** to switch between high and low sensitivity modes. The LCD will indicate the current mode.

# DUAL SENSITIVITY RANGE

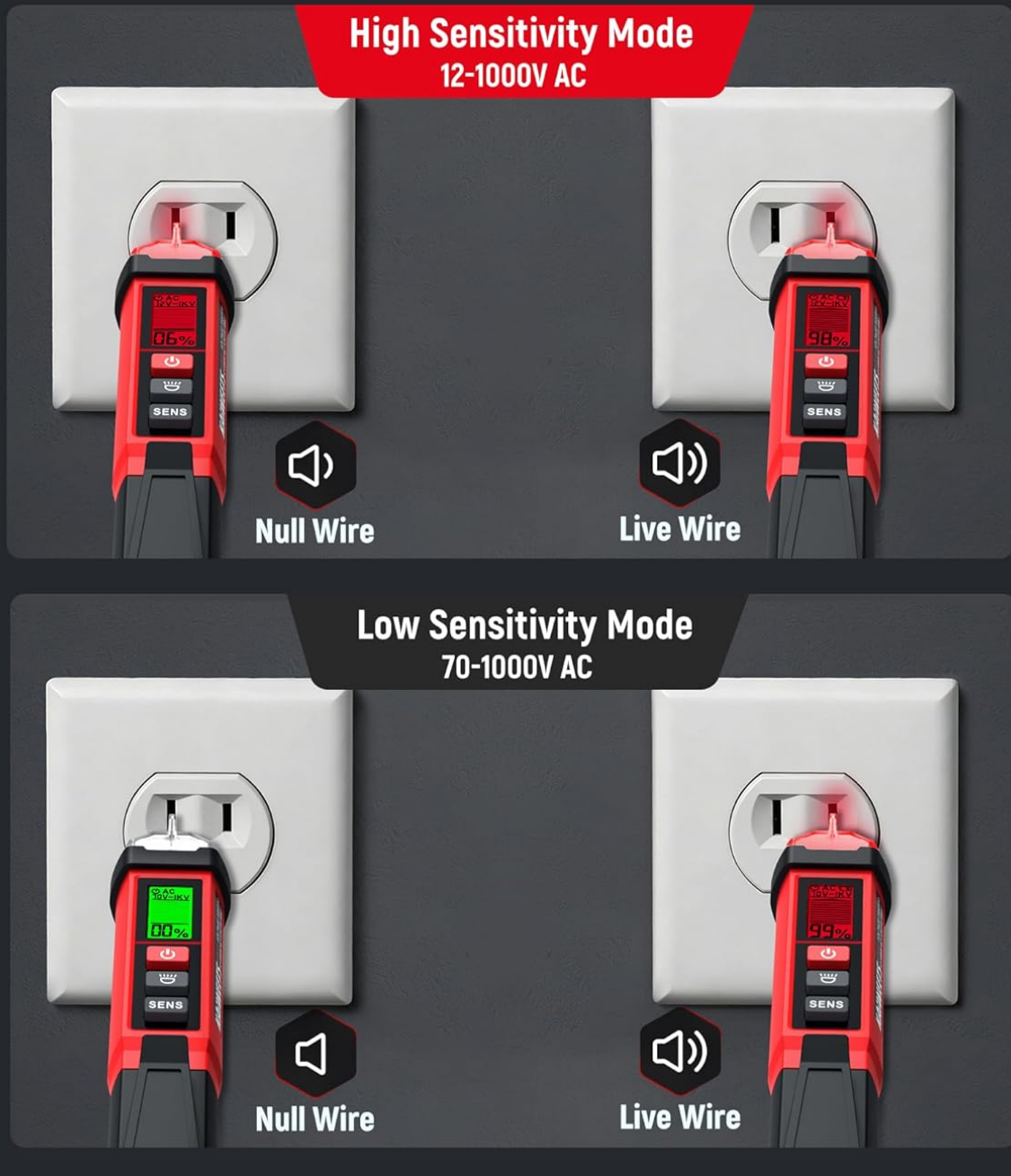


Image: Illustration of the KAIWEETS KTL01 in both High Sensitivity Mode (12-1000V AC) and Low Sensitivity Mode (70-1000V AC), showing detection of Null Wire (green light) and Live Wire (red light) in an outlet.

## Non-Contact AC Voltage Detection (Live/Neutral Wire):

1. Turn on the tester and select the desired sensitivity mode.
2. Place the probe tip near the wire, outlet, or component you wish to test.
3. If AC voltage is detected, the signal indicator will light up (red for live/high voltage, green for low voltage/no current), the buzzer will sound, and the LCD will display the signal strength percentage and bar graph. The buzzer frequency increases with stronger voltage.

## Breakpoint Finder:

To locate a breakpoint in a live wire:

1. Ensure the wire is live and the tester is in an appropriate sensitivity mode.
2. Move the probe along the length of the wire.
3. The tester will indicate voltage presence up to the breakpoint. The absence of a signal beyond a certain point indicates a break in the circuit.



Image: The KAIWEETS KTL01 demonstrating its breakpoint test function on an electrical cable, showing how it detects the presence or absence of voltage along the wire.

### Flashlight Operation:

- Press the **Flashlight Switch** to turn the built-in LED flashlight on.
- Press the **Flashlight Switch** again to turn it off.

# BACKLIGHT & FLASHLIGHT



Image: The KAIWEETS KTL01's flashlight illuminating a dark breaker panel, demonstrating its utility in low-light conditions.

## Video: KAIWEETS Non-Contact Voltage Tester KTL01, CAT IV 1000V

Video: An official product video demonstrating the features and usage of the KAIWEETS KTL01 Non-Contact Voltage Tester, including its CAT IV 1000V safety rating.

## 6. MAINTENANCE

- **Cleaning:** Wipe the device with a dry, clean cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace batteries when the low-battery indicator appears on the LCD. Always use fresh 1.5V AAA batteries.

- **Storage:** Store the tester in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No indication when testing a live circuit	Dead batteries; Tester malfunction	Replace batteries; Contact support
False positives or inconsistent readings	Interference; Incorrect sensitivity mode	Move away from other electrical devices; Switch to Low Sensitivity Mode
Low battery indicator	Batteries are low	Replace with new 1.5V AAA batteries

## 8. SPECIFICATIONS

Feature	Detail
Brand	KAIWEETS
Model	KTL01
Power Source	Battery Powered (2 x 1.5V AAA)
AC Voltage Range (High Sensitivity)	12V - 1000V AC
AC Voltage Range (Low Sensitivity)	70V - 1000V AC
Safety Rating	CAT IV 1000V
Display	LCD with Percentage and Bar Graph
Alerts	Audible (Buzzer) and Visual (LED, LCD)
Special Features	Flashlight, Auto Shut-off, Low Battery Indicator, Breakpoint Finder
Item Weight	120 Grams
Item Dimensions	1.57 x 1.18 x 6.69 inches
Operating Temperature	Up to 50 Degrees Celsius
Certifications	CE, FCC

## 9. WARRANTY AND SUPPORT

### Warranty:

The KAIWEETS KTL01 Non-Contact Voltage Tester Pen comes with a **36-month (3-year) warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product meets its specified performance standards under normal use. Please retain your proof of purchase for warranty claims.

### Customer Support:

For technical assistance, warranty inquiries, or any questions regarding the KAIWEETS KTL01, please contact

KAIWEETS customer support through their official website or the retailer where the product was purchased.  
Provide your model number (KTL01) and a detailed description of the issue for efficient service.