

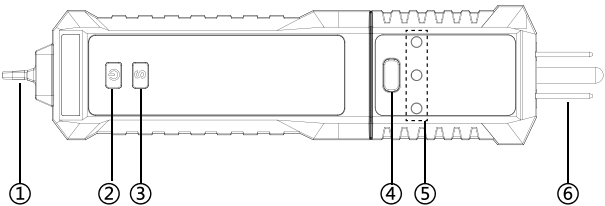
1. Safety Instructions

⚠ WARNING

- To avoid possible electric shock or personal injury, please read the following instructions carefully:
- Please use the instrument strictly in accordance with this manual, otherwise the protective function of the instrument may be impaired.
 - Do not use the detector if the power indicator is not properly illuminated.
 - Before use, carry out a test on a verifiably live power source to ensure it is in good working condition.
 - When using this instrument, voltage may still be present even if no sound or light alarm is emitted. The instrument simply indicates the effective voltage when an AC voltage is present that generates an electrostatic field of sufficient strength. If the field strength is very low, it may not be detected by the instrument. The instrument can be affected by factors including, but not limited to: shielded wires/cables, thickness and type of insulation, distance from the voltage source, complete insulation, differences in receptacle design, etc.
 - Do not use the detector if it has been damaged or doesn't work properly. Check the probe specifically for cracks or breaks before use. If you suspect that there is a problem, please return the device for repair in good time.
 - Do not apply more than the rated voltage specified on the instrument. When carrying out socket tests, the maximum effective voltage value is 135V.
 - Be especially careful when detecting or testing voltages above 30V AC to avoid the risk of electric shock.
 - Follow local and national safety regulations.
 - Use appropriate protective equipment in accordance with local or national authorities.

2. Panel Description

- ① NCV Sensor Probe
- ② Power Button
- ③ Sensitivity
- ④ GFCI Test Button
- ⑤ Test Indicator Panel
- ⑥ Plug (American Standard)



3. Operational instructions

3.1 NCV Detection

3.1.1 Power On/Off

Power on: Press and hold the power button “**⏻**” for more than 1s, the power indicator lights up and the detector works, which can be used for non-contact detection of AC voltage.

Power off: When the detector is in the operating state, press the power button “**⏻**”, and the power indicator goes out, the detector enters into sleep mode and the non-contact AC voltage detection can't be used.

3.1.2 Detection Sensitivity Adjustment

Standard AC voltage detection range when powered on: about 48V ~ 1000V. Press the “**S**” button, the detector can detect the AC voltage range from approx. 12V to 1000V. At this time, the indicator light at the bottom of the “**S**” key lights green.

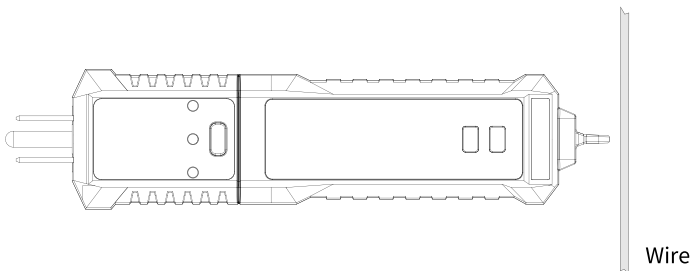
3.1.3 NCV Zero/Live Wire Judgment

Plug the detector probe into the socket or near the live cable. When the tester detects an AC voltage signal, the detector displays the intensity of the induction signal through the indicator based on the detected signal strength. At the same time, the buzzer emits various alarm sounds. When a weak AC signal is detected, the indicator light flashes yellow; when a strong AC signal is detected, the indicator light flashes red slowly; when a very strong AC signal is detected, the indicator light flashes red quickly.

When distinguishing the zero wire and the live wire, separate the two wires to be distinguished as far as possible and then use the probe to approach the respective wires. The detector will detect the live wire with a strong induction signal and the zero wire with weak or missing induction signal.

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Indicator Description:

- | | | | |
|---|---|---|----------------------|
| ● | ● | ○ | CORRECT |
| ● | ○ | ○ | MISSING EARTH |
| ○ | ● | ● | LIVE EARTH REVERSE |
| ● | ○ | ● | LIVE NEUTRAL REVERSE |
| ○ | ● | ○ | MISSING NEUTRAL |

3.2 Socket Wiring Testing and GFCI Testing

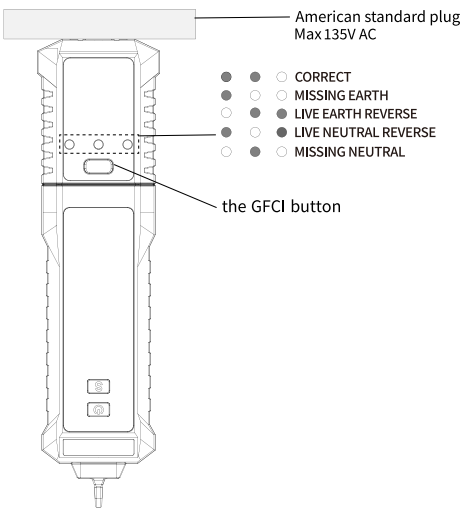
If the NCV tester is switched off or there is no battery, the socket wiring and ground fault circuit interrupter (GFCI) can still be tested.

Test steps for socket wiring: Insert the instrument plug into the socket to be tested. The panel displays the socket wiring status: correct、missing earth、live earth reverse、live neutral reverse、missing neutral.

Test steps for GFCI: When the panel displays the correct wiring, press the GFCI button and the resistance between the live wire and the ground wire is connected. The resistance parameter is about 16 kΩ.

Note: The instrument plug only supports US sockets.

The socket testing and GFCI testing don't rely on batteries and can be tested with or without batteries.



4. Battery Replacement

⚠ **WARNING: To avoid electric shock, do not take any measurements before or during battery replacement.**

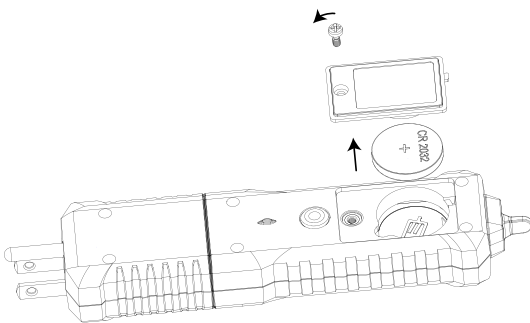
Steps for Battery Replacement:

1.Remove the battery cover by turning the screw as shown.

2.Remove the old battery.

3.Inset the new battery according to the instructions for the positive and negative terminals of the battery.

Note: When installing the CR2032 battery, the positive terminal must face the battery cover.



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5. Specification

NCV Detection Range	AC voltage: Approx.12~1000V or Approx. 48~1000V; frequency 50Hz or 60Hz.
NCV Detection Sensitivity	Press the button to select. Button green light on for high sensitivity; button green light off for low sensitivity (power on default).
NCV Induction Strength	3 types of induction intensity (high, medium, low)
NCV Neutral/Live Wire Judgment	Measured by the induction signal strength; strong signal for live wire.
NCV Detection Alarm Method	Sound and light alarm
Socket Wiring Testing	Correct、missing earth、live earth reverse、live neutral reverse、missing neutral. Voltage range 50~135V.
GFCI Testing	Supported; impedance about 16 kΩ; voltage range 110~120V.
Auto Power Off	Approx. 5 minutes
Battery undervoltage	Approx. less than 2.5V
Operating Temperature	0 ~ 40°C
Storage Temperature	-10 ~ 50°C
Altitude	< 2000m
Overvoltage Protection, Pollution Level	Overvoltage Protection: CAT III 600V; pollution level: Level 2
Drop test	1m
Power Supply	CR2032 Battery x 1
Product Size	181 mm x 42 mm x 25 mm

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Product Weight	Approx. 72g (without battery)
Applicable Standards	IEC 61010-1, IEC 61326-1

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折页前尺寸 420*450mm, 折页后尺寸140*150mm

料号:Y01-04-0241

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