

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 veritably 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

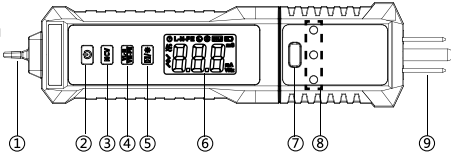
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30V AC to avoid the risk of electric shock.

- 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 NCV Button
- ④ Voltage Test Button
- ⑤ Data-Hold and Backlight Button
- ⑥ LCD Display Area
- ⑦ GFCI Test Button
- ⑧ Socket Line Sequence Test Indicator Light
- ⑨ American Standard Three Terminal Plug



3. Operational instructions

3.1 Power On/Off/Auto Power Off

Power on: Press and hold the power button "⏻" for more than 2s to power on.

Power off: When the detector is in the operating state, press the power button "⏻" to power off.

Auto Power Off: If there is no operation of the detector within 5 minutes, it will auto power off.To cancel the auto power off function, press and hold the "📊/⚡" button to turn on the device.

3.2 Data-Hold and Backlight

Short press the "📊/⚡" key while the detector is in operation to keep the measurement value displayed on or off. Long press and hold the "📊/⚡" button for about 2 seconds to turn on or off the backlight, or

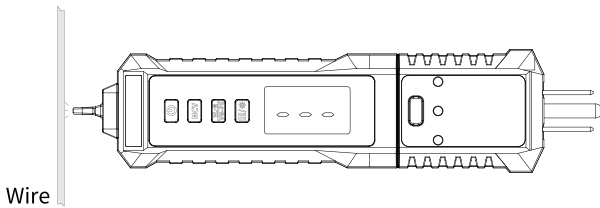
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it will automatically turn off after 30 seconds.

3.3 NCV Neutral/Live Wire Judgment

In the working state of the detector, press the "NCV" button to enter the non-contact AC voltage detection mode. When there is no induced voltage, the LCD screen displays "EF". Insert the probe of the detector into a power socket or close to a live wire, and the detector displays the detected signal strength through the LCD screen. At the same time, the buzzer emits different alarm sounds. When weak AC signals are sensed, the LCD screen displays "-"; When a strong AC signal is sensed, the LCD screen displays "--"; When a stronger AC signal is sensed, the LCD screen displays "---".

When distinguishing the neutral 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 neutral wire with weak or missing induction signal.



3.4 Socket line sequence/voltage/GFCI testing

When the detector is turned on, insert the instrument plug into the socket to be tested, observe the indicator light panel to determine the socket wiring status: correct wiring, missing neutral wire,

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missing ground wire, live wire neutral wire reversed, live wire ground wire reversed. Press the "VL-N / VN-PE" key to switch between measuring the voltage of the live and neutral wires, and the screen will display L-N; Or measure the neutral and ground voltage, and the screen displays N-PE. When the indicator panel of the detector determines that the wiring is correct, press the GFCI button. At this time, the resistance between the live wire and the ground wire inside the detector will be connected (the internal resistance parameter is about 16kΩ, and the LCD screen displays the GFCI test time in milliseconds).

Indicator Description:

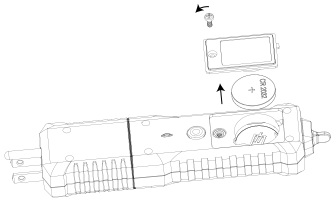
- ● ○ CORRECT
- ○ ○ MISSING EARTH
- ● ● LIVE EARTH REVERSE
- ○ ● LIVE NEUTRAL REVERSE
- ● ○ MISSING NEUTRAL

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



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and negative terminals of the battery.

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

5. Specification

NCV Detection Range	AC voltage: Approx.12~600V, frequency 50Hz or 60Hz.
NCV Induction Strength	3 types of induction intensity (high, medium, low)
Non-contact Neutral/Live Wire Judgment	Measured by the induction signal strength; strong signal for live wire.
NCV Detection Alarm Method	Sound and light alarm,LCD display sensing intensity
Socket Wiring Testing	Correct, missing earth, live earth reverse, live neutral reverse, missing neutral. Voltage range 30~135V.
GFCI Testing	Supported; impedance about 16 kΩ; voltage range 100~135V.Time 10~500ms
Voltage Measurement	AC voltage L-N (20~135V), N-PE (1~135V), 50/60Hz, accuracy ± (2.0%+5 dgt)
Auto Power Off	Approx. 5 minutes
Battery undervoltage	Approx. less than 2.5V

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Operating Temperature	0 ~ 40℃
Storage Temperature	-10 ~ 50℃
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
Product Weight	Approx. 83g (without battery)
Applicable Standards	IEC 61010-1, IEC 61326-1

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折页前尺寸 300*150 mm, 折页后尺寸100*150mm

料号：Y01-04-0256 双面印刷 黑色边框不要印