

I. Safety Instructions

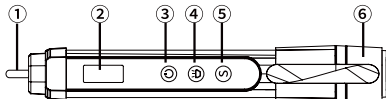


WARNING

To prevent the risk of electric shock or personal injury:

- Please strictly follow the instructions provided in this manual. Failure to do so may compromise the protection function of the tester.
- Do not use it if the power indicator light is not illuminated.
- Please check the tester on a known live power source to ensure that it is functioning properly before use.
- Please be aware that voltage may still be present even if neither the sound nor the light alerts come on while using the tester. It only displays the effective voltage if there is an AC capable of producing a sufficient electrostatic field, and it may not detect the field if its strength is weak. The tester may be affected by factors including but not limited to shielded wires/cables, thickness and type of insulation, distance from the voltage source, complete insulation, and variations in socket design, among others.
- Do not use the tester if it is damaged or not working properly. Please check the probe carefully before using it to ensure that there are no cracks or breaks, and send the tester for repair in time if you have any concerns.
- Do not exceed the rated voltage indicated on the tester.
- Extreme caution must be exercised when testing AC voltage exceeding 30V to prevent the risk of electric shock.
- Please comply with local and national safety regulations.
- Please follow local or national authorities and use the appropriate protective equipment.

II. Getting to Know the Parts

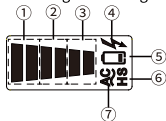


- ① NCV sensor probe
- ② LCD screen
- ③ Power button

- ④ Flashlight
- ⑤ AC voltage detection range switching button
- ⑥ Battery cover

LCD Screen

- ① Strong induction signal
- ② Medium induction signal
- ③ Weak induction signal
- ④ High voltage alert
- ⑤ Low battery voltage alert
- ⑥ High sensitivity mode
- ⑦ Alternating current



The LCD screen has two backlight colors: white and red. White indicates that there is no AC signal being detected, while red indicates that there is an AC signal being detected.

III. Instructions for Use

1. Turn on/off the tester

Turn on the tester: Press and hold the power button for over 1 second. Then, you will hear a single beep from the buzzer alarm, and the LCD screen will illuminate.

Turn off the tester: When the tester is turned on, press the power button to turn off the LCD screen.

2. Turn on/off the flashlight

Turn on the flashlight:

Gently press the flashlight button to turn on the flashlight when the tester is in the on state.

Press and hold the flashlight button for over 1 second to turn on the flashlight when the tester is in the off state.

Turn off the flashlight: Gently press the flashlight button to turn off the flashlight when the tester is in the on state.

The flashlight will automatically turn off after being left idle for approximately 5 minutes.

3. Detection of AC voltage

Carefully insert the probe into the power socket or position it near the live wire. Once the tester detects an AC voltage signal, the LCD screen backlight will switch from white to red, and the tester will display the intensity of the detected signal and emit different alert sounds through the buzzer alarm. When an AC signal is detected, the LCD screen will display the signal strength status using two bars (“ ■■ ”); when a stronger AC signal is detected, the LCD screen will display the signal strength status using four bars (“ ■■■■ ”); and when the strongest AC signal is detected, the LCD screen will display the signal strength status using six bars (“ ■■■■■■ ”).

4. Identification of neutral wire / live wire

Please separate the two wires that need to be detected as far apart as possible and bring the probe close to the wires. If it is a socket, put the probe into the jack. The one that has a strong induction signal is the live wire, while the one that has a weak or no induction signal is the neutral wire.

5. Selection of the AC voltage detection range

When the tester is switched on, the default AC voltage detection range is 48V-1000V.

The LCD screen will display “ HS ” when you gently press the “ S ” button, indicating that the tester can detect voltage within the range from 12V to 1000V.

When you gently press the “ S ” button again, the “ HS ” will vanish from the display, and the voltage range will now be 48V-1000V.

The LCD screen will display “ ⚡ ” when the AC voltage signal exceeds 36V.

6. Auto shutdown

The tester will automatically shut down if it is left idle for approximately 5 minutes and no AC voltage signal is detected.

7. Low battery voltage alert

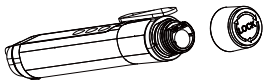
The “ 🔋 ” icon flashes when the battery voltage drops below approximately 2.6V. If it falls below about 2.5V, the power indicator will flash 3 times and the buzzer alarm will sound once to initiate an automatic shutdown. Please replace the batteries promptly.

IV. Battery replacement:

Be sure to rotate the battery cover in a correct direction.

According to the following picture:

1. Rotate the battery cover as indicated.
2. Remove dead batteries.
3. Ensure that new batteries are inserted in the correct polarity.



NOTE:

Be sure to check the rubber waterproof ring when you put the battery cover back on, as the waterproof effect may be affected if any misalignment or falling off occurs.

WARNING:

To avoid electric shock, do not use the tester without the battery cover in place.

V. Technical Specifications

AC voltage range	12 ~1000V (sound and light alerts within the detection range)
Frequency	50Hz /60Hz
Buzzer alarm	Sound and light alerts
Flashlight	White LED lighting
Auto shutdown	About 5 minutes
Low battery voltage alert	About 2.6V
Neutral/live wires	According to the intensity of the induction signal, the live wire is the one that emits the stronger signal.
Induction intensity	High, medium, low
NCV sensitivity	Press the button to select high sensitivity or low sensitivity (default)
Operating temperature	0~40°C
Storage temperature	-10~50°C
Altitude	<2000m
CAT rating	CAT.III 1000V
IP rating	IP67
Drop test	1 meters
Power supply	2 × 1.5V AAA batteries
Dimensions	168mm × 29mm × 25mm
Weight	About 45g (batteries not included)
Applicable standards	IEC 61010-1, IEC 60529-2013