

# Non-Contact Voltage Tester User's Manual



warn

Please read the instruction manual carefully before use and strictly abide by the safety rules and the cautions, notes, warnings, etc. listed in the instruction manual.

## Safety Tips



warn

To avoid possible electric shock or personal injury:

- If the voltage tester is not used in accordance with the instructions, the protection provided by the voltage tester will be affected or become ineffective.
- Before using a voltage tester, test it on a known live power source to ensure that the voltage tester is in good working condition.
- When using the voltage tester, there

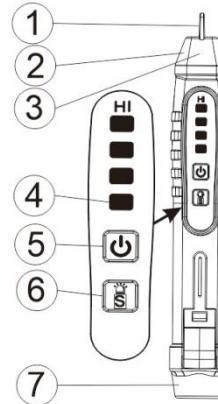
may still be voltage present even if there is no indication or audible alarm. This tester indicates the effective voltage when there is a power supply voltage to produce an electrostatic field of sufficient strength. If the field strength is very weak, the tester will not detect the presence of voltage. The presence of voltage may be affected by several factors including but not limited to: shielded wire/cable, thickness and type of insulation, distance from the voltage source, complete insulation, differences in socket design, etc.

- Do not use the product if it is damaged or does not work properly. Before use, check the probe tip to see if it is cracked or broken. If you suspect there is a problem, send it for repair immediately.
- Do not apply a voltage exceeding the rated voltage marked on the voltage tester.
- Testing voltages above 30 volts AC, as such voltages present a risk of

electric shock.

- Observe local and national safety regulations and use appropriate protective equipment as specified by local or national authorities.

## Appearance Structure



1. probe (NCV sensor head)
2. Flashlight lens
3. signal indicator lights
4. Power indicator
5. Power button
6. Sensitivity switch /flashlight button (with sensitivity indicator light)
7. Battery cover

## Instructions

### Power on /off

Press the power button and hold it for more than 1 second to turn on the device. A beep will sound and the power indicator will light up, indicating the device has entered the test state. Press the power button in the on state to turn off the device.

### High And low sensitivity switching

default setting is low sensitivity test state when the device is powered on. Press the sensitivity switch /flashlight key (less than 1 second) to switch between high and low sensitivity. When the sensitivity indicator light is on, it is in high sensitivity test state; when it is off, it is in low sensitivity test state.

Note: High sensitivity range: 12~1000V

Low sensitivity range: 48~1000V

## Flashlight

Press the sensitivity switch /flashlight button and hold it for more than 2 seconds to turn on the flashlight.

When the flashlight is on, press the sensitivity switch/flashlight button again and hold it for more than 2 seconds to turn off the flashlight. It will automatically turn off after 5 minutes without any sensing signal or any operation.

## AC voltage detection

the probe of the voltage tester is placed close to the AC voltage source, the signal indicator light will light up. The signal indicator light will light up the corresponding light according to the strength of the sensed voltage signal. The stronger the signal, the more lights will light up. At the same time, the beeping sound of the buzzer will also become faster or slower with the signal strength, allowing users to feel the detection status more intuitively.

### **Note 1** : Under normal

**circumstances, the neutral and live wires can be distinguished based on the strength of the signal detected by the electric pen .**

**Note 2** : **When distinguishing the neutral and live wires, if the neutral and live wires are very close, try to separate the two wires for detection; if they cannot be separated, they can be distinguished based on the strength of the detected signal. The one with a strong signal is the live wire, and the one with a weak signal is the neutral wire.**

**Note 3** : **When the measured neutral and live wires are connected to electrical equipment to form a loop, both the neutral and live wires are energized, so the tester may not be able to measure the neutral and live wires.**

### **Automatic shut-down**

After about 5 minutes without any sensing signal or any operation, the voltage tester will automatically shut down to extend the battery life.

## Undervoltage prompt

When the battery voltage is low, the power indicator will flash ; when the battery voltage drops below about 2.3 volts, the tester will automatically shut down. When the undervoltage prompt appears, please replace the battery in time.

## Technical Parameters

### Operating Voltage :

AC voltage 12~1000V,  
50/60Hz

### Use environment :

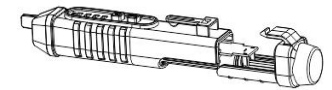
Working temperature :0~40  
degrees  
Storage temperature : -10~50  
degrees  
Humidity : ≤ 95%  
Altitude : ≤ 2000m

### Security Level :

CAT.III 1000V  
CAT.IV 600V; CE  
Power supply : 2x1.5VAAA batteries

## Replacement battery

Press the buckle as shown in the figure below, push the battery cover off the instrument, take out the battery and insert it into the top of the tester according to the positive and negative indicators of the battery .



To avoid electric shock, do not use a voltage tester to detect voltage before the battery cover is fastened and locked .

## Clean

Clean with a damp cloth. Note : After cleaning, the tester must be completely dry before use .

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