

# AC/DC VOLTAGE DETECTOR (Contact Type)

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**INSTRUCTION MANUAL**

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# 1. Safety Precaution

Electricity can cause severe injuries with high voltages. Therefore it is very important to read the following info before using the AC/DC Voltage Detector.

This AC/DC Voltage Detector must only be used and operated by a competent trained person and in strict accordance with the instructions. We will not accept liability for any damage or injury caused by misuse or non compliance with instructions and safety procedures.

Examine the AC/DC Voltage Detector to make sure it is clean and dry. If in doubt, wipe with a clean, dry, lint-free cloth.

The AC/DC Voltage Detector test should always be used as an indication only. An absence of voltage detection given some testing situations may not always mean the circuit under test is dead.

**Warning! TEST ON KNOWN LIVE CIRCUIT**

## **2. Description**

The AC/DC Voltage Detector is intended to check for the presence of AC voltage and DC voltage used for bare wires or conductors, signaling the user with an audible tone and a visible LED.

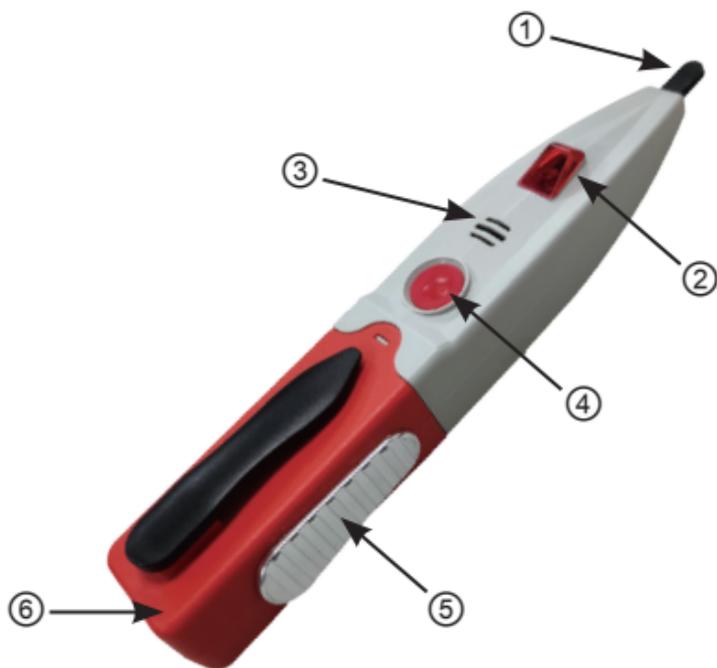
## **3. Features**

- Contact type
- LED indication and audible alarm sound when voltage is present
- Designed for AC/DC voltage detection.
- Used for bare wires or conductors
- Self-test function
- Low power consumption
- Light weight and compact

## 4. Specifications

- Voltage detection: AC 12V ~ 600V  
DC 12V ~ 600V
- Frequency: 30 ~ 330 Hz
- Measurement category: CAT. III 600V
- Indication: LED and Tone
- Operating Conditions  
Temperature: 0 ~ 40°C  
Humidity: Less than 80% R.H.  
Altitude: 2000 m (6500 feet) maximum
- For indoor use only
- Pollution degree: 2
- Dimension: 148(L) x 27(W) x 25(D)mm
- Weight: 57g (batteries included)
- Power supply: 1.5V (AAA) battery x 2
- Safety Standard :  
EN 61010-1  
EN 61326-1  
IEC 61000-4-2  
IEC 61000-4-3  
IEC 61000-4-8

## 5. Instrument layout



- ① Contact testing tip
- ② LED indicator
- ③ Buzzer
- ④ Self-test button
- ⑤ Holding portion
- ⑥ Battery cover

## 6. Operation

The AC/DC Voltage Detector is an ideal tool for checking hot and neutral conductors, detecting the presence of AC voltage at wall outlets, fuses switches...etc.

It's also for checking the presence of DC voltage of the automobile battery (system).

- Check the unit by pressing the self-test button before making tests.  
When press the self-test button, you can hear an audible tone and can see a visible red LED. This means the detector can work normally.
- AC voltage detection:  
Hold the holding portion of the AC/DC voltage detector, and make the contact testing tip contact or touch the object we want to test (see Fig 1, Fig 2). If there is AC voltage presence, you can hear an audible tone and can see a visible red LED.



Fig 1



Fig 2

- DC voltage detection:  
Hold the holding portion of the AC/DC voltage detector, and make the contact testing tip contact the positive terminal(+) of the automotive battery,(see Fig 3), and use your another hand to touch the hood of the car(ground), if there is DC voltage presence, you can hear an audible tone and can see a visible red LED.

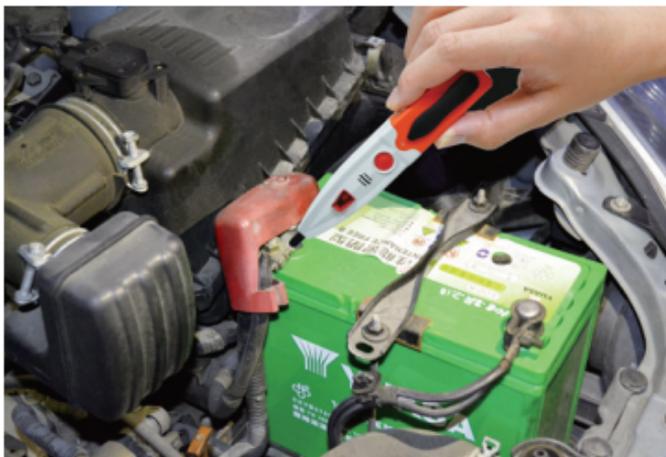
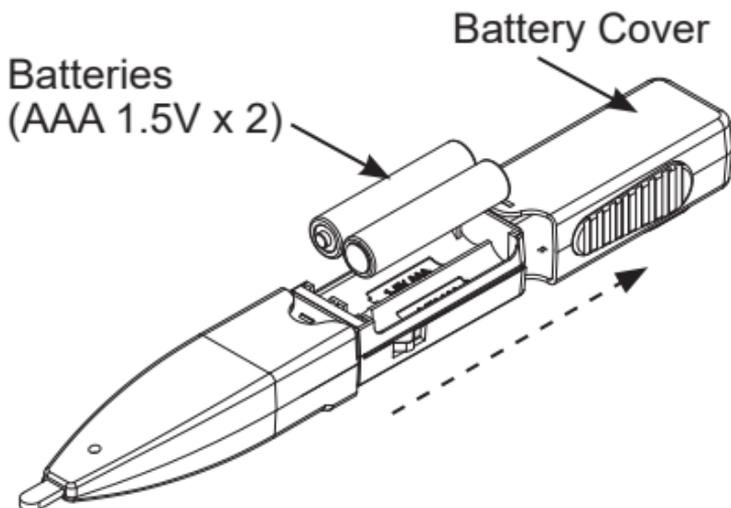


Fig 3

## 7. Maintenance

- Battery replacement
  - a. Disconnect the AC/DC Voltage Detector from the circuit under testing.
  - b. Remove the battery cover, then take the batteries away and replace with new batteries (type AAA 1.5V x 2).
  - c. Reinstall the battery cover.



- Cleaning and storage :

**WARNING**

To avoid electrical shock or damage to the meter, do not get water inside the case.

Periodically wipe the case with a damp cloth and detergent : do not use abrasives or solvents.

If the meter is not to be used for periods of longer than 60 days, remove the batteries and store them separately.

- CAT IV - Measurements performed at the source of the low voltage installation.
- CAT III - Measurements performed in the building installation.
- CAT II - Measurements performed on circuits directly connected to the low voltage installation.

Due to our policy of constant improvement and development, we reserve the right to change specifications without notice.