

# Adjustable Non-contact VOLTAGE DETECTOR

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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 Adjustable Non-contact Voltage Detector.

- This instrument 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 Adjustable Non-contact Voltage Detector to make sure it is clean and dry. If in doubt, wipe with a clean, dry, lint-free cloth.
- The voltage Detector test should always be used as an indication only.
- An absence of voltage detection during some testing situations may not always mean the circuit under test is dead.
- Don't use the Detector if it is broken.
- Don't operate with the case open.
- Don't apply more than the rated voltage between the tip and earth ground.

- Using the Detector near equipment that Generates electromagnetic interference can result in unstable or inaccurate detections.

## **2. Description**

The Adjustable Non-contact Voltage Detector is intended to check for the presence of AC voltage, signaling the user with an intermittent tone and a flashing LED.

The Adjustable Non-contact Voltage Detector is useful for identifying hot and neutral conductors, finding a break in a wire, and detecting the presence of AC voltage at outlets, fuses, circuit breakers, switches, cables and wires.

### **3. Features**

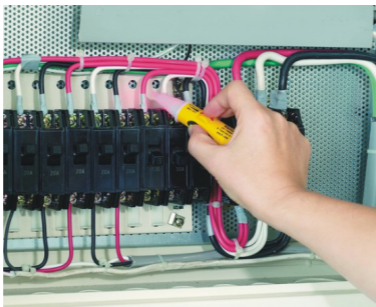
- When turn the power on the LED will flash Intermittently.
- Bright LED and audible alarm sound when Voltage is present.
- Designed for adjustable non-contact voltage detection. It's safer.
- Adjustment for use on power wiring plus lighting, thermostats and other low voltage circuit.
- Identify Hot and Neutral.
- Small, lightweight, for carrying and storage.
- The consumption is very low.

## 4. Specifications

Voltage detection	5V~1000V AC
Frequency	50~500 Hz
Indication	LED and Tone
Operating-Temperature	0°C~40°C
Operating-Humidity	80% Max.
Power supply	1.5V (AAA) battery x 1
Dimension	142(L) x 28(W) x 27(D)mm
Weight	Approx. 40g (Batteries included)
Safety Standard	EN 61010-1 CAT IV 1000V EN 61326-1 IEC 61000-4-2 IEC 61000-4-3

## 5. Operation

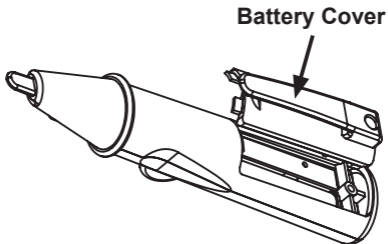
- a. Turn the unit on by rotating the sensitivity adjustment thumbwheel away from the OFF position.
- b. Verify that the LED flashes periodically :
  - When the tester is on, LED will beep once and flash intermittently.
  - When the tester detects AC voltage, LED will flash and Beep continuously.
  - Low battery : LED will remain lit.
- c. Test the unit on a known live circuit before using.
- d. Place the tip on or near the circuit to be tested. Use Max. sensitivity to detect low voltage. Reduce sensitivity to find breaks in wires or to identify hot and neutral conductor.





## 6. Maintenance

- Battery replacement
  - a. Disconnect the Non-contact Voltage Detector from the circuit under testing and turn off the power.
  - b. Use a screwdriver to unscrew the screw on the back cover, then take the batteries away and replace with new battery (type AAA 1.5V x 1).
  - c. Place the back cover on and secure with screw.



- 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.
- CAT I - Measurements performed on circuits not directly connected to Mains.

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

