Non-contact
High Voltage Detector



INSTRUCTION MANUAL

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1. Introduction

NOTE

This detector has been designed and tested according to CE Safety Requirements for Electronic Measuring Apparatus. Follow all warnings to ensure safe operation.

WARNING

READ "SAFETY PRECAUTION" (NEXT PAGE) BEFORE USING THE HIGH VOLTAGE DETECTOR.

2. Safety precaution

Electricity can cause severe injuries with high voltages. Therefore it is very important to read the following info before using the Non-contact High Voltage Detector.

This 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 Non-contact High Voltage Detector to make sure it is clean and dry. If it is not, wipe with a clean, dry, lint-free cloth.

The high voltage detector test should always be used as an indication only.

Read all safety information carefully before attempting to operate or service the High Voltage Detector.

Use the High Voltage Detector only as specified in this manual. Otherwise, the protection provided by the High Voltage Detector may be impaired.

Please keep in your mind to wear high insulated gloves and to use the hot sticks when you test high voltages.

3. Applications

- Non-contact detection of live voltages
- Find faults in cables
- Check and detect live high voltage cables
- Trace live wires
- Check high frequency radiation
- Check grounding equipment
- Detect residual or induced voltages

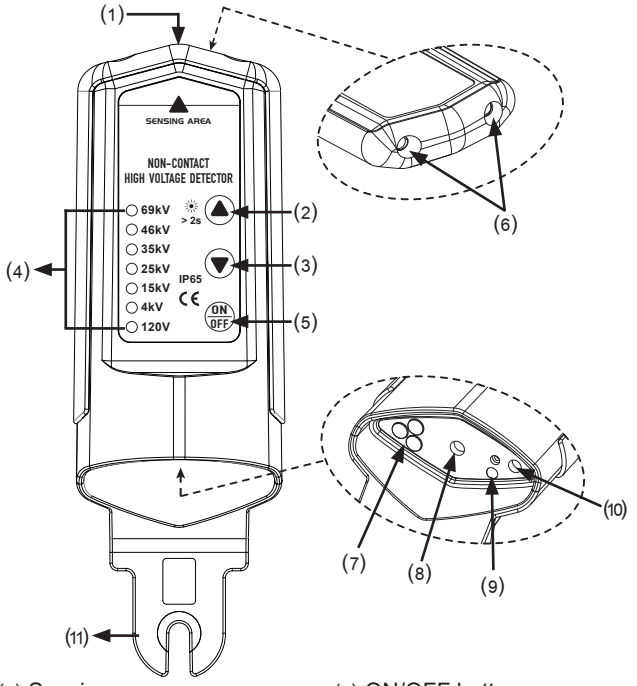
※ ⚠ **Warning:**

This is a non-contact type detector.
Beware of voltage!
Do not touch live circuits!

4. Features & Specifications

- Microprocessor controlled
- 7 voltage settings for selection:
  120V, 4kV, 15kV, 25kV, 35kV, 46kV, 69kV
- Protection class: IP65
- LED visual indication and sound indication
- Power source: 9V rechargeable battery
- High impact casing
- Non-contact work by proximity
- Compatible with most hot sticks
- Vibration function
- Frequency range: 40~70Hz
- Easy-to-prove method
- Can be charged with the automotive
- Lightweight, robust & compact
- Special ranges are available upon request
- Flashlight function
- Safety stanard: EN 61326-1
- Operating temperature : 0~40°C
- Humidity: 80% Max
- Dimensions: 262(L) x 85(W) x 56(D) mm
- Weight: Approx. 330g
- Accessories:
  Instruction manual
  General charger
  Automobile charger
  Pouch
  Carry case

5. Instrument layout



(1) Sensing area

(2) Voltage range selection "▲" button and " ☼ >2s " flashlight button

(3) Voltage range selection "▼" button

(4) Voltage range indication LEDs

(5) ON/OFF button

(6) Flashlight

(7) Voltage detection LEDs

(8) Buzzer

(9) Charging LED

(10) Charging socket

(11) Connection end

6. Operation

- **ON/OFF button**
  When users press the ON/OFF button to turn on the non-contact high voltage detector, the tester will get into the self-testing mode. The voltage range indication LEDs will glow in order. Then the voltage detection LEDs will glow 4 times, then get into the standby mode, the lowest voltage range indication LED 120V will glow. Under the standby mode, the voltage detection LEDs will glow and the buzzer will beep every 5 seconds.

- **Voltage range selection "▲" button and "▼" button**
  Press the "▲" button or "▼" button to select the voltage range the users need. There are 7 voltage ranges to select:120V, 4kV, 15kV, 25kV, 35kV, 46kV, 69kV. The "▲" button is also the flashlight button " ☼ ", press the "▲" (☼) button for more than 2 seconds to turn on the flashlight.

- **Voltage detection**
  Place the sensing area of the detector near an AC voltage line or an AC voltage source, but not touching it. The voltage detection LEDs will glow and the buzzer will beep every one second. This means the detector detects an AC object.

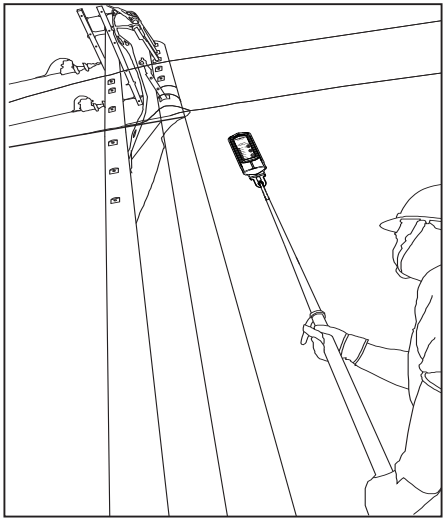
7. Accessories



① Type I plug (Depends on the customer's need)
② Type C plug (Depends on the customer's need)
③ Type G plug (Depends on the customer's need)
④ Type A plug (Depends on the customer's need)
⑤ General charger
⑥ Automotive charger
⑦ Pouch



● Charging with the automotive charger in a car.



● Voltage detection for a line

8. Maintenance

- **Battery Charging**

  When the buzzer generates 3 short beeps every 5 seconds, this means the detector gets into the Low battery situation. Please use the charger to charge the rechargeable battery inside the case. During the charging status the charging LED will glow red. When charging is completed, the charging LED will glow green.

- **Cleaning and storage**

> ⚠ **WARNING**
>
> To avoid electrical shock or damage to the detector, do not get water inside the case.

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