



# NON-CONTACT AC VOLTAGE DETECTOR WITH FLASHLIGHT VT-2



## USER MANUAL

Version 1.04 23.01.2024

	<b>WARNING</b>
	Read and understand all of the instructions and safety information in this manual before operating or servicing this tool.

### 1 Safety

This instruction manual and any markings on the tool provide information for avoiding hazards and unsafe practices related to the use of this tool. Observe all of the safety information provided.

	<b>WARNING</b>
	Read and understand this material before operating or servicing this equipment. Failure to understand how to safely operate this tool can result in an accident causing serious injury or death.

	<b>WARNING</b>
	Electric shock hazard - contact with live circuits can result in severe injury or death.

	<b>WARNING</b>
	Electric shock hazard: <ul style="list-style-type: none"> <li>Do not use the unit if it is wet or damaged.</li> <li>Do not apply more than the rated voltage between the probe tip and earth ground.</li> <li>Do not operate with the case open.</li> </ul> Failure to observe these warning can result in severe injury or death.

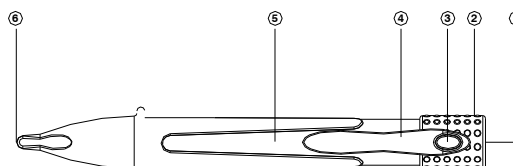
	<b>WARNING</b>
	<ul style="list-style-type: none"> <li>Do not attempt to repair this unit. It contains no user-serviceable parts.</li> <li>Do not expose the unit to extremes in temperature or high humidity (see specifications).</li> </ul> Failure to observe these precautions can result in injury and can damage the instrument.

### 2 Features

- Non-contact detection of AC Voltage 90...1000 V (50/60 Hz).
- Rugged, double molded case.
- May be used to find a break in a wire or detect the presence of voltage at outlets, lighting fixtures, circuit breakers, wires and cables.
- Bright LED and audible beeper indicator if voltage is present.
- Built-in bright flashlight with ON/OFF button.
- Convenient size with pocket clip.
- An essential tool for every electrician and tradesperson.

### 3 Detector description

The VT-2 voltage detector is intended to signal the presence of AC voltage with an LED on and an acoustic notification. Built-in bright flashlight with ON/OFF button and audible beeper indicator.



- ① Flashlight
- ② Detector handle
- ③ Flashlight power ON/OFF
- ④ Detector clip
- ⑤ Detector body
- ⑥ Detector cap

### 4 Operation

The Voltage Detector is useful for the identifying phase conductors, finding a break in a wire and detecting the presence of AC voltage at:

- outlets,
- switches,
- circuit breakers,
- fuses,
- wires and cables.

- Note:** The voltage detector can be used to find a break in a wire:
- to find a break in a phase conductor, trace the wire until the signal stops,
  - to find a break in a neutral conductor, connect a load between the phase and neutral. Trace the wire until the signal stops.

### 5 Operating of voltage detector

- Test the unit on known functioning circuit or component:
  - If the unit does not function as expected on a known functioning circuit, replace the batteries.
  - If the unit still does not function as expected, send the unit to repair.
- Place the probe tip on or near the circuit or unit to be tested. LED and audible beeper indicate the presence of AC Voltage from 90...1000 V (50/60 Hz).

**Note:**

- The voltage detector cannot detect voltage on armored cable or on cable in conduit, behind panels or in metallic enclosures.
- The detector can react to extremely low frequency electrostatic field, such as electrified materials.
- The detector can show the presence of voltage at a greater distance from the object, in the case of high concentration of live objects in the near to measured object (eg. circuits box).

### 6 Battery replacement

1. Disconnect the unit from the circuit.
2. Fold back the clip (4) and remove detector handle (2) by moving it to the right side (according to the picture).
3. Replace the batteries (wrong polarity of batteries may damage detector).
4. Put the battery compartment cover.

### 7 Technical data

The device does not have the character of a standard and therefore is not subject to calibration. The proper form of control for this type of instrument is checking.

- a) Indicators ..... LED and audible beeper
- b) Voltage range..... 90...1000 V AC (50/60 Hz)
- c) Overvoltage category ..... CAT III 1000 V
- d) Pollution degree ..... 2
- e) Ingress protection..... IP 54
- f) Operating temperature ..... -10...+50°C
- g) Humidity ..... 80% without condensation
- h) Battery..... 2 x 1,5 V batteries (AAA, NEDA 24A or IEC LR 03)
- i) Dimensions ..... 177 mm (length), Φ27 mm (diameter)
- j) Weight..... approx. 100 g (without batteries)
- k) Flashlight..... one white LED