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## 9723-400 Non-contact Phase & Voltage detector User manual

### Warning

Please read the instruction manual carefully before use and strictly observe the safety rules and the caution, attention and warnings listed in the instruction manual.

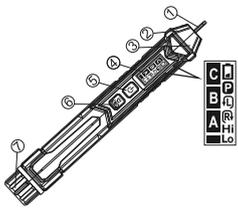
### Safety instruction

#### Warning

To avoid possible electric shock or personal injury:

- If the voltage detector is not used according to the instruction, the protection function provided by the electric pencil may be affected or invalidated.
  - Do not use if the display is not displayed.
  - Before using the voltage detector, please test the known power supply to ensure that the voltage detector is in good working condition.
  - When using voltage detector, even if there is no indication or no sound alarm, there may still be voltage. Voltage detector indicates the effective voltage when a supply voltage generates enough intensity electrostatic field.
- If the field strength is very weak, voltage detector can't detect the existence of voltage.
- The existence of voltage may be affected by several factors, including but not limited to:  
shielded wires/cables, thickness and type of insulation, distance from voltage sources, differences in complete insulators, socket design, etc.
- Do not use voltage detector if it is damaged or unable to work properly. Before using, check whether the tip of the probe is cracked or broken. If there is a question, please send it to repair in time.
  - Do not apply the rated voltage exceeding the marking on the voltage detector.
  - When testing voltages above 30 volts, be extra careful, because such a voltage is at risk of electric shock.
  - Comply with local and national safety regulations and use appropriate protective equipment in accordance with local or national authorities.

### The Meter Structure



- ① Probe
- ② Flashlight
- ③ Signal indicator
- ④ Display
- ⑤ Power key
- ⑥ sensitivity/Phase/Flashlight key
- ⑦ Battery cover

### Operation description

#### Power on/off

Press the power key and keep up for more than 1 second. The bee buzzed, the screen lit up and entered the test state. When the power on, power key was pressed and the bee turned to shut down

#### NCV High/low sensitivity

The default low sensitivity test state is when the meter is started, and the display shows "Lo" character Press the sensitivity / phase / flashlight key (less than 1 second), the display shows the "Hi" character, which is the high sensitivity test status

#### Notes:

High sensitivity: 12~1000V

Low sensitivity: 48~1000V

Press the sensitivity / phase / flashlight key and hold for more than 2 seconds. The flashlight is opened;

The flashlight is closed by pressing the sensitivity / phase / flashlight key and holding for more than 2 seconds.

No signal and no operation will be automatically power off after 5 minutes.

#### Non-contact phase sequence detection

After power on, press the sensitivity / phase / flashlight key (less than 1 second) to switch until the display shows the "P" symbol, and enter the phase sequence detection state

- a) the display flashes the "A" symbol, and sticks the sensing probe to the first phase line, waiting for a beep
- b) The display flashes with "B" symbol. Stick the sensing probe to the second phase line and wait for a beep
- c) The display flashes with "C" symbol. Stick the sensing probe to the third phase line and wait for a long beep
- d) At the end of the test, the display will display the measurement results on the display,

Note1: Please connect the probe to the wire.

Note2: The thickness and type of shielded wires / cables, insulation, or complete insulation will affect the test

Note3: "⤵" symbol indicates left rotation.

Note4: "⤴" symbol indicates right rotation.

Note5: Please complete the test on the three wires within 1 minute, otherwise the detection timeout error will occur, and the red backlight will be illuminated. In case of timeout error, please press the sensitivity / phase / flashlight key to redetect.

Note6: When the three wires are close to each other, separate the wires as much as possible for better detection

#### AC voltage detection

The voltage detector probe is placed near the AC voltage. When the voltage is induced, the signal light will be lit. The bargraph of the screen will become higher or lower as the voltage signal intensity is induced, and the beep hint will become faster

or slower with the signal intensity.

Note 1: because the socket

structure is different, when not by the backlight color change to distinguish the Live and neutral, generally according to the detected signal intensity to distinguish.

Note 2: Distinguish Live and neutral, if Live and neutral is near, the two lines can be separated as far as possible; it is true that it is not separable and can be distinguished according to the intensity of the signal. One of the strong signals is live wire and neutral wire with weak signal.

#### Auto power off

After about 5 minutes without any operation and No signal detection, the voltage detector will be automatically shut down to extend the battery life.

#### Low battery indicate

When the battery voltage drops to less than 2.5 volts, the display will display "🔋" symbol. When the battery voltage drops to less than 2.3 volts, the voltage detector will automatically turn off. When low battery tip, please replace the battery.

## Technical specifications

operating voltage:

NCV detection voltage range: 12~1000V, 50/60Hz

Phase detection voltage range: 90~400V, 50/60Hz application environment:

operating temperature: 0~40°C (32~104°F)

Storage temperature: -10~50°C (14~122°F)

Humidity: ≤95%

Altitude: ≤2000m

Safety Compliance: CAT.IV 600V CAT.III 1000V

## Replace the battery

Rotate the battery cover as shown below, then remove the old battery and install the new battery according to the positive and negative instructions of the battery.



### **Warning**

To avoid electric shock, the battery cover should not be tested with voltage probe before locking.

### **Clean**

Clean with a wet cloth.

Notes: After cleaning, the voltage detector must be dried before it can be used.

  
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