



## NT-309 Smart Non-contact Voltage Tester

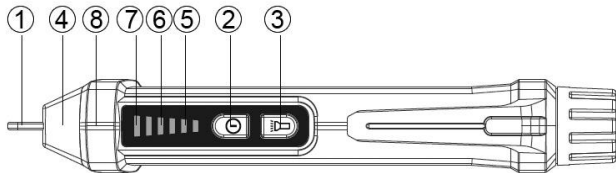
### Operation Manual



Warning: Please read and understand all of the instructions and safety information in this manual before operating the tester.

Failure to observe these precautions can result in injury and can damage the instrument.

### Structural Diagram



- ① Probe (NCV sensor)
- ② Power switch
- ③ LED light switch
- ④ Induced voltage indicator
- ⑤ Signal intensity indicator (Low) –orange LED
- ⑥ Signal intensity indicator (Mid.)-orange LED
- ⑦ Signal intensity indicator (High) –red LED
- ⑧ LED illumination lamp

### OPERATING INSTRUCTIONS

#### Alternating Voltage Detection

1. Press the power switch to turn on the instrument's power.
2. After you confirm that the instrument is operating normally, using it to check whether an outlet and/or wire or cable is energized.
3. If the instrument detects alternating voltage, the red light in probe will flash, the beeper will sound, and the relevant signal intensity indicator (low, mid, high) will light up in accordance with the signal intensity detected, and the buzzer makes the different level sound.  
If the instrument detects (low) AC signal, the signal intensity indicator lamp will light up 2 indicators; if it detects higher AC signal, the both of signal intensity indicator (low and mid) will light up 4 indicators; if it detects highest AC signal, the all signal intensity indicators (low, mid, high) will light up.
4. When finished testing, remember to power off by pressing the power switch again. This will extend the life of the batteries powering the unit.

#### Warning

- 1) If the alternating voltage is detected, this indicates the presence of voltage, even though there is no alarm indication. The presence of voltage cannot be judged by the non-contact voltage tester. The detecting operation may be affected by such factors as socket design, insulation thickness and insulation type.
- 2) Before the instrument is used for detecting the alternating voltage of the power socket etc, the test pencil should be tested on a known live circuit, to make sure that it will work well.

### Specifications

Technical indicators	NT-309
Range of alternating voltage	12 ~1000V
Frequency	50 Hz /60Hz
Alarm mode	Sound and light alarm
Illumination lamp	White LED
Auto power off	3 minutes
voltage level indicator	Low, Medium, High intensity indicator
Neutral/ live wire judgment	Sound (different frequency) and LED lamp
NCV sensitivity	Indicating in 3 level of sensitivity automatically (Low, Mid., High)
NCV sensitivity indication mode	Audible alarm of different frequency, LED lamp of different color to indicate low, mid or high sensitivity.
General parameters	
Power source	2×1.5V AAA batteries (not included)
Product size	156mm×20mm×20mm
Product weight	45g
Security level	CE CAT.III 1000V
Service temperature	0~40℃
Storage temperature	-10~50℃
Altitude	<2000m

#### Auto Power off

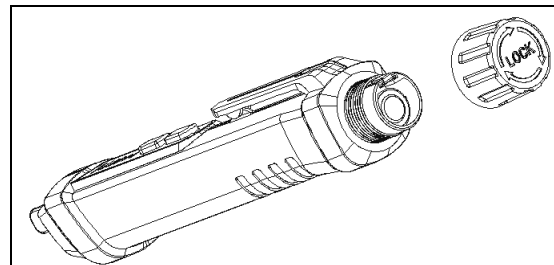
If the instrument is not operated or doesn't detect any alternating voltage more than 3 minutes, it will turn off automatically.

**Low voltage indicator lamp:** when the battery voltage is less than around 2.6V, the power indicator will flash three times for alarm, and the buzzer will sound once before the instrument turns off automatically. The battery should be replaced.

**LED light:** the LED light will light up when pressing the LED light switch button and will turn off when the button is pressed again. If this instrument stops operating after 5 minutes, the LED light will go out automatically.

#### Battery Replacement:

- 1) Rotate the cover to open the battery compartment,
- 2) Take out the used batteries,
- 3) Replace new 2 x 1.5V AAA batteries as the anode and cathode indication as shown on the case.



Warning: To avoid electric shock, do not use this instrument before the battery cover is replaced



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