

## **Elma Instruments Elma VoltStick Switch One Bright Voltage Indicator User Manual**



### **Warnings**

- Read understand and follow safety rules and operating instructions in the manual before using this tester.
- The tester's safety features may not protect the user if not used in accordance with the manufacturer's instructions.
- Check on a known live source within the rated AC voltage range of the tester before use to ensure it is in working order.
- Insulation type and thickness, distance from the voltage source, shielded wires, and other factors may affect reliable operation. Use other methods to verify live voltage, if there is any uncertainty.
- Do not use it if the tester appears damaged or if it is not operating properly. If in doubt, replace the tester.
- Do not use it on voltages that are higher than as marked on the tester.
- Use caution with voltages above 30 volts AC as a shock hazard may exist.

- Comply with all applicable safety codes. Use approved personal protective equipment when working near live electrical circuits-particularly with regard to arc-flash potential.
- Do not operate the tester if Low Battery warning occurs. Replace batteries immediately.

## International Safety Symbols

Potential danger. Indicates the user must refer to the manual for important safety information.

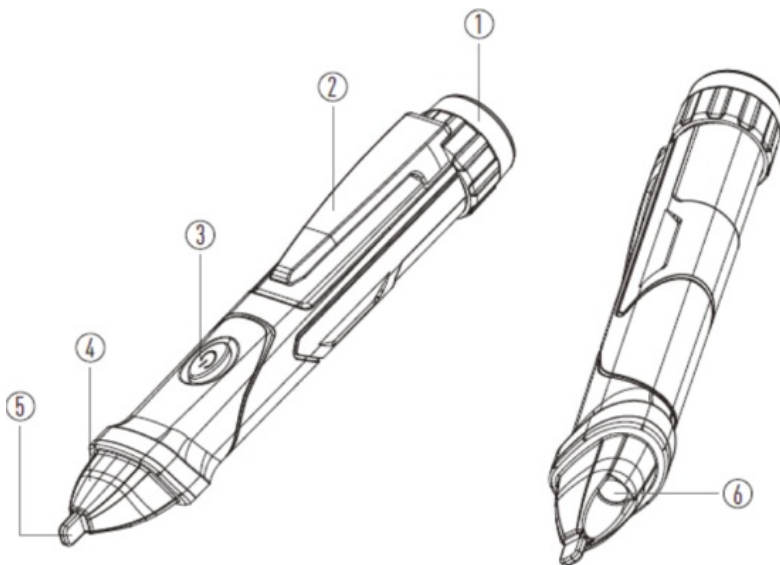
⚠ Equipment is protected by double or reinforced insulation.

⚡ Indicates hazardous voltages may be present.

◻ Equipment is protected by double or reinforced insulation

## Detector Description

1. Screw on Battery Cover
2. Pocket Clip
3. ON/OFF Button
4. LED Indicators
5. Detector Tip
6. Worklight



## Operation

### Turning the Tester on and Self-test

Momentarily press the tester ON/OFF button (3), the tester self-test.

### **Self-test pass:**

- The beeper will beep once, and the green LED will flash twice rapidly to indicate that the tester is on and ready for use.

### **Self-test fail:**

- The beeper will beep, and all indicator LED will flash five times and then turn off to indicate that the tester cannot work.
- The tester self-test function tells us that the tester is normal work or cannot work.

### **Turning the Tester Off**

- Momentarily press the ON/OFF button (3), the tester will beep twice, and all indicator LED will turn off to indicate the tester is off.

### **Turning the Beeper Off**

- With the tester off, press and hold the ON/OFF button (3), until the green is illuminated, the tester will now operate without the beeper.
- It cannot turn the beeper off when the tester is on.

### **Verify Operation**

- Before using tester, (1) Make sure the range LED is glowing, (2) Check tester on a known live AC voltage that is within the defined detection range of the tester.

### **AC Voltage Detection**

- Place the tip of the tester near an AC voltage.
- If the tester detects voltage within the defined detection range, the green LED will turn off, the red LED will turn on, and the beeper will beep rapidly.
- Low Battery Indication
- Replace the batteries if the green LED does not turn on.
- When the tester is on and the batteries are too low for reliable operation, the beeper will beep three times, and the range LED will turn off indicating the tester is not operational.
- Replace the batteries to restore operation.

### **Auto Power Off**

- To conserve battery life, the tester will automatically turn off after approximately 5 minutes of inactivity.

- When powering down, the beeper will beep twice, and all LED will turn off.

### **Work light**

- Press and hold the ON/OFF button (3), about two seconds when the tester is on with NCV function, the tester will turn off or turn on the work light.

**NOTE:** The tester cannot determine the actual voltage. The voltage level where the tester switches from the low to high voltage mode is affected by insulation type and thickness, distance from the voltage source, and other factors.

## **Changing Batteries**

- Carefully unscrew the battery cap at the rear of the tester.
- Replace batteries with two AAA 1.5V batteries. Observe polarity.
- Screw cover onto tester until it feels tight. Do not use excessive force.
- Verify operation by using the tester on a known live AC voltage within the defined detection range of the tester.

**NOTE:** When batteries are loaded for the first time, please remove the white, rectangular security strip before installing batteries.

## **General Specifications**

**Detection Voltage Range:** 230V – 1000VAC

**Frequency Range:** 50/60Hz

**Batteries:** 2 AAA 1,5 V

**Operating Temperature:** 0 – 50 °C (32 – 122 °F)

**Storage Temperature:** -10 – 60 °C (14 -140 °F)

**Humidity:** 80% max

**Altitude:** 2000 meter

**Pollution Degree:** 2

**Safety Compliance:** CAT IV 1000V

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## Documents / Resources

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## References

- [User Manual](#)

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INSTRUMENTS

Bright Voltage Indicator, elma INSTRUMENTS, Elma VoltStick Switch One Bright Voltage Indicator, Indicator, Switch One Bright Voltage Indicator, Voltage Indicator

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