

EN: VOLTIORA – USER MANUAL

PRODUCT SPECIFICATIONS

- **Product Name:** VOLTIORA
 - **AC Voltage Range:**
 - Non-contact measurement: 30–1000 V
 - Contact measurement: 11–450 V
 - **Frequency:** 50–60 Hz
 - **Alarm Method:** Screen backlight color change + audible buzzer
 - **Flashlight:** Built-in white LED
 - **Live Wire Detection:** High electric field strength or high voltage indicates a live wire
 - **Inductive Sensitivity Indicator:**
 - “—” Weak electric field
 - “— —” Medium electric field
 - “— — —” Strong electric field
 - **Operating Temperature:** 0–40 °C
 - **Storage Temperature:** 10–50 °C
 - **Operating Altitude:** < 2000 m
 - **Safety Rating:** CE CAT II 1000 V / CAT IV 600 V
 - **Power Supply:** 2 × 1.5 V AAA batteries
 - **Auto Power Off:** Automatically turns off after 3 minutes of inactivity
 - **Continuity Indicator:** Screen displays “0” and buzzer sounds when a conductor is detected
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PRODUCT OVERVIEW

This digital voltage tester pen is designed in accordance with the international safety standard **IEC 61010** for electronic measuring instruments. It complies with the requirements for **CAT IV 600 V**, **CAT III 1000 V**, and **Pollution Degree 2**, ensuring safe and reliable operation.

Device Components



1. Probe tip
2. LED flashlight
3. Touch electrode (contact sensor)
4. Mode selection button
5. Power button
6. Display screen

FUNCTION OVERVIEW

1. **Probe Tip:**
Used for direct contact measurements. Touch the metal part of the conductor with the probe tip. Do not touch the metal tip during operation to avoid electric shock.
2. **Mode Selection Button:**
 - Short press to switch between measurement modes (contact, non-contact, continuity).
 - Press and hold for 3 seconds to turn the LED flashlight on or off.
3. **Power Button:**
Press and hold for approximately 3 seconds to turn the device on or off.
4. **Touch Electrode:**
The user must maintain full contact with the touch electrode during measurements.
Note: Dry skin, calluses, insulated footwear, or poor grounding may affect measurement accuracy.
5. **Display Screen:**
Displays measurement values and status indicators.
 - **Red backlight:** High voltage detected
 - **Green backlight:** Low voltage detected

CONTACT MEASUREMENT

1. Turn on the device (default mode is contact measurement).
2. The screen will display **0 V**.
3. Hold the tester and ensure your hand is in contact with the touch electrode.
4. Touch the probe tip to the conductor being tested.

If voltage greater than 10 V AC is detected:

- The measured voltage will be displayed
- The screen color will change according to voltage level
- The buzzer will sound

Warning: Do not touch the metal probe tip during measurement to avoid electric shock.

CONTINUITY (ON-OFF) MEASUREMENT

1. Turn on the device.
2. Press the mode button to select continuity mode (display shows **OL**).
3. Hold the tester and maintain contact with the touch electrode.
4. Use your other hand to touch one end of the unpowered wire.
5. Touch the probe tip to the other exposed end of the wire.

If the circuit is continuous:

- The display shows **0**
 - The buzzer will sound
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NON-CONTACT VOLTAGE MEASUREMENT (NCV)

1. Turn on the device.
2. Press the mode button to select NCV mode (display shows **EF**).
3. Hold the tester and ensure proper contact with the touch electrode.
4. Bring the probe tip close to the conductor.

If voltage is detected:

- The device indicates electric field strength using bar indicators
 - The buzzer will sound
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ENERGY-SAVING AUTO SHUTDOWN

The device will automatically turn off after 3 minutes of inactivity to conserve battery power.

LOW BATTERY INDICATOR

When the display shows **“LO”**, the battery level is too low for proper operation. Replace both AAA batteries promptly.

INSTRUCTIONS FOR RECYCLING AND DISPOSAL:



This label means that the product cannot be disposed of as other household waste throughout the EU. To prevent potential damage to the environment or human health from uncontrolled waste disposal. Recycle responsibly to promote the sustainable use of material resources. If you want to return a used device, use the drop-off and collection system, or contact the retailer from whom you bought the product. The retailer can accept the product for environmentally safe recycling.



A declaration by the manufacturer that the product complies with the requirements of the applicable EU Directives.