




**INSTRUCTION MANUAL**  
**MT401**  
**NON-CONTACT AC**  
**VOLTAGE DETECTOR**



 **Read and understand** all of the instructions and safety information in this manual before operating or servicing this tool.

**Description**

The MT401 voltage detector is intended to check for the presence of AC voltage, signaling the user with a red LED glow in the tip of the meter. The meter includes a built-in bright flashlight with ON/OFF button.


**Feature:**


- Non-Contact Detection of AC Voltage 200~1000VAC (50/60Hz).
- 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 if voltage is present.
- Built-in bright flashlight with ON/OFF button.
- Convenient size with pocket clip.


**Safety**


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


**Important Safety Information**

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

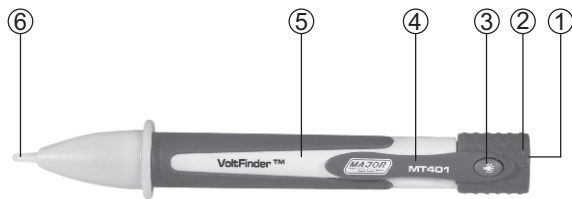
	 <b>WARNING</b>
	Electric shock hazard: <ul style="list-style-type: none"><li>• Do not use the meter if it is wet or damaged.</li><li>• Do not apply more than the rated voltage between the probe tip and earth.</li><li>• Do not operate with the case open.</li></ul> Failure to observe these warning can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

	 <b>CAUTION</b>
	<ul style="list-style-type: none"><li>• Do not attempt to repair this meter. It contains no user-serviceable parts.</li><li>• Do not expose the meter 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.

	 <b>CAUTION</b>
	This must be proven on a live source before and after testing. An absence of voltage detection does not mean the circuit under test is dead

	 <b>IMPORTANT</b>
	Using this meter near equipment that generates

## Detector Description



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

## Operation

The Voltage Detector is useful for identifying hot and neutral 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 hot conductor, trace the wire until the signal stops.*
- *To find a break in a neutral conductor, connect a load between the hot and neutral.*
- *Trace the wire until the signal stops.*

1. Test the meter on known functioning circuits or components.
  - If the meter does not function as expected on a known functioning circuit, replace the batteries.
  - If the meter still does not function as expected, send the meter in to get repaired.
2. Place the probe tip on or near the circuit or unit to be tested.

LED indicates the presence of AC Voltage from 200 - 1000VAC (50/60Hz)

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Note: The voltage detector cannot detect voltage on armored cable or on cable in conduit, behind panels, or in metallic enclosures.

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## Specifications

Indicators: LED

Voltage Range: 200~1000 VAC (50/60Hz)

Over voltage Category: Category III - 1000V (non-condensing)

Pollution Degree: 2

Batteries: 2 x AAA

## Battery Replacement

1. Disconnect the meter from the circuit.
2. Remove the battery compartment cover.
3. Replace the batteries (observe polarity).
4. Replace the battery compartment cover.



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