



INSTRUCTION MANUAL

MT402

**NON-CONTACT AC
VOLTAGE DETECTOR**



Warnings

- It is important that users of this tester read, understand, and follow all warnings, cautions, safety information, and instructions in this manual before operating or servicing this tester. Failure to follow instructions could result in death or serious injury.
- Risk of electric shock and burn. Contact with live circuits could result in death or serious injury.
- Use caution with voltages above 30V AC as a shock hazard may exist.
- A steady red glow and continuous beep indicates voltage present. If no indication, voltage could still be present.
- In bright light conditions, the LED visual indicators will be less visible.
- Do not use if green LED is not illuminated.
- Do not use if tester appears damaged or if the tester is not operating properly. If in doubt, replace the tester.
- Do not apply more than the rated voltage as marked on the tester (1000V AC).
- Always wear approved eye protection.
- Before each use, verify operation by testing a known working circuit that is within the rating of this tester.
- Do not rely on this tester with shielded wire. Operation may be affected by differences in socket design and insulation thickness and type.
- Comply with local and national safety requirements.
- If this tester is used in a manner not specified by the manufacturer, protection provided by the tester may be affected.


Caution

- Do not attempt to repair this tester. It contains no serviceable parts.
- Do not expose the product to extremes in temperature or high humidity.

Symbols

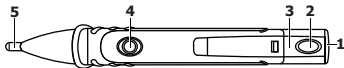
 Double Insulated

 Caution. Risk of electric shock

 Risk of danger. Important information. Read Manual. CAT IV equipment is designed to protect against transients from the primary supply level.

Description

1. Flashlight
2. Flashlight power ON/OFF
3. Battery cover & compartment
4. NCV power ON/OFF
5. Detector tip (NCV sensor)



Operating Instructions

Turn unit on:

1. Measure with sound alarm

Press the power button. The meter sounds a single beep and the tip is illuminated green. The tester is now ON and is operational. Test on known live circuit to verify tester functionality.

2. Measure without sound alarm

Hold down the power button for 3 seconds. The tip is illuminated green with no beeping sound. The tester is now ON and is operational. Test on known live circuit to verify tester functionality.

Turn unit off:

Press the power button. The meter sounds a double beep and the tip's green LED turns off. The tester is now OFF and is not operational.

System self-test:

The "power on" Beeper & green LED visually confirms battery sufficiency, system integrity, and at operation/active mode. Always test on known live circuits to verify tester functionality prior to use.

Checking for the presence of AC voltage:

Prior to use, test on known live circuits to verify tester functionality. Place tip of the tester near an AC voltage. If the tester detects voltage, the LED in the tip of the tester changes colour from green to red and a beeping sound is generated. The audible sound beeps quicker when the tester tip is closer to higher voltage.

Low battery indication:

Scenario 1

Power on the tester: The "power on" LED in the tip of the tester changes from a steady green to a blinking green and a series of beeping sounds is generated. The tester then turns off. The unit is now OFF and the batteries need to be replaced. To replace the tester batteries refer to the maintenance section titled "Battery Replacement."

Scenario 2

Operating the tester: If the LED lights become dim and the tone fades, the tester may require new batteries. To replace the tester batteries refer to the maintenance section titled "Battery Replacement."

Auto Power Off:

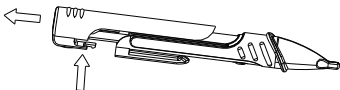
After 5 minutes of non-use, the tester automatically powers off to conserve battery life. Listen for a double beeping sound and watch the green LED turn off. The tester is now OFF and is not operational.

Flashlight Operating:

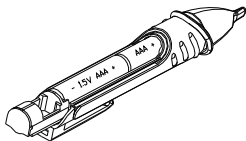
Hold down the Flashlight Button to turn on Flashlight. Flashlight is turned off once the Flashlight button is released.

Battery Replacement:

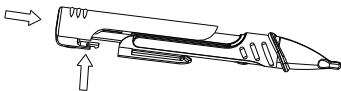
1. Remove the end cap by gently lifting the pocket clip to release the catch.



2. Insert two AAA batteries (observe polarity).



3. Replace the end cap.



NOTE: If your meter does not work properly, check the batteries to make sure that they are still good and properly inserted into the meter.

Specifications

FUNCTION	RANGE
Voltage Detection Indicators	Visual: Red LED flash changes intensity with higher voltage presence
	Audible: Beeping sound changes intensity with higher voltage presence
Power ON Indicator	Visual: Green LED turns on Audible: Single Beep
Auto Power & Power OFF Indicator	Visual: Green LED turns off Audible: Double Beep
Voltage Range	50V AC - 1000V AC (50 to 60Hz)
Tester Type	Non-Contact Voltage Detector
Voltage Category	CAT IV 600V / CAT III 1000V
Operating Temp	0°C to 40°C
Operating Relative Humidity	<80%
Operating Altitude	2,000 meters (Max)
Storage Temp	0°C to 40°C
Storage Relative Humidity	<80%
Storage Altitude	2,000 meters (Max)
Batteries	2 x AAA
Dimensions (mm)	176(L) x 26(W) x 25(D)
Weight	48g
Pollution Grade	2
Safety Conformity	EN61010-1 2nd edition, EN 61326 EMC to CAT III 1000V CAT IV 600V



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