Commercial Electric™

Item #1011 141 348
Model #NCV-8907

USE AND CARE GUIDE

DUAL-RANGE
NON-CONTACT VOLTAGE TESTER



THANK YOU

We appreciate the trust and confidence you have placed in Commercial Electric through the purchase of this voltage detector. We strive to continually create quality products designed to enhance your home. Visit us online to see our full line of products available for your home improvement needs. Thank you for choosing Commercial Electric!

Safety Information

Symbol	Definition
⚠	Indicates important safety information.
⚠	Caution! Indicates a potentially hazardous situation.
▣	Equipment protected throughout by double insulation or reinforced insulation.
c ETL us Intertek 5023835	Conforms to UL STD. 61010-1, 61010-2-030. Certified to CSA STD. C22.2 NO. 61010-1, 61010-2-030.
CAT III	(Measurement Category III) is applicable to test and measuring circuits connected to the distribution part of the building's low-voltage mains installation.
CAT IV	(Measurement category IV) is applicable to test and measuring circuits connected at the source of the building's low-voltage mains installation.

PRECAUTIONS

WARNING: Before measuring hazardous voltages, first verify the tester's operability by checking a known voltage.

WARNING: Do not operate the meter if the case (or any part of case) is removed or damaged.

WARNING: BE EXTREMELY CAREFUL IN THE USE OF THIS DEVICE. Improper use of this device can result in injury or death. Follow all safeguards suggested in this manual in addition to the normal safety precautions used in working with electrical circuits.

CAUTION: Read, understand, and follow the safety rules and operating instructions of this manual before you use the product. Protection provided by the instrument will be impaired if used in a manner not specified by the manufacturer.

WARNING: Do not operate the tester if a low battery warning occurs. Replace the batteries immediately.

WARNING: Do not use the tester if it appears damaged or if it is not operating properly. Do not service this tester if you are not qualified to do so.

Safety Information (continued)

FCC COMPLIANCE STATEMENT

WARNING: This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
The Home Depot, Inc.
2455 Paces Ferry Road, Atlanta, GA 30339
1-877-527-0313 / HOMEDEPOT.COM

Warranty

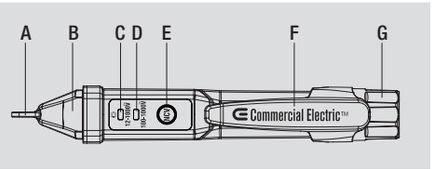
WARRANTY: 12 months

For one year from the date of purchase, this product is warranted against any defects in material or workmanship. This warranty is void if this product is ever used while providing commercial services or if rented to another person.

Contact the Customer Service Team at 1-877-527-0313 or visit www.homedepot.com.

Pre-Operation

PRODUCT DESCRIPTION



Part	Description	Quantity
A	Detector tip	1
B	Working LED	3
C	12-1000V / Green high sensitivity LED	1
D	100-1000V / Red low sensitivity LED	1
E	NCV on/off button	1
F	Pocket clip	1
G	Battery cap	1

PRODUCT SPECIFICATIONS

Component	Specification
Voltage range	12V to 1000V AC, 100V to 1000V AC, 50/60Hz
Battery	2 X AAA 1.5V batteries
Operating altitude	< 6560 ft. (2000 m)
Operation environment	32°F to 122°F (0°C to 50°C), < 80% relative humidity, indoor use only.
Storage environment	14°F to 140°F (-10°C to 60°C), < 80% relative humidity, battery removed.
IP rating	IP67
Pollute degree	2
Safety rating	CAT IV 1000V, Class 2, Double Insulation.
Size	5.88 X 0.87 X 1.14 in. (149.5 X 22.1 X 29 mm)
Weight	Approx. 2.0 oz (56.7g), batteries included.

Care and Cleaning

- ☐ Keep the detector dry. If it gets wet, wipe it off.
- ☐ Keep the detector clean. Wipe off dirt with a soft cloth dampened with water. Do not use chemicals, cleaning solvents, or detergents.
- ☐ Use and store the detector in normal temperatures. Temperature extremes can shorten the life of the electronic parts and distort or melt plastic parts.
- ☐ Handle the detector gently and carefully. Dropping it can damage the electronic parts or the case.
- ☐ Use only fresh batteries of the recommended size and type. Batteries are to be inserted with the correct polarity. Remove old or weak batteries so they do not leak and damage the unit.
- ☐ Do not mix old and new batteries. Do not mix different types of batteries such as alkaline, carbon-zinc, or rechargeable batteries. Non-rechargeable batteries are not to be recharged.
- ☐ If the detector is to be stored for a long period of time, the batteries should be removed to prevent damage to the unit. Periodically wipe the case with a damp cloth and mild detergent.
- ☐ Repairs or service are not covered in this manual and should only be carried out by qualified trained technician.

Commercial Electric™

Questions, problems, missing parts? Before returning to the store, call Commercial Electric Customer Service
8 a.m. - 7 p.m., EST, Monday - Friday, 9 a.m. - 6 p.m., EST, Saturday

1-877-527-0313
HOMEDEPOT.COM

Retain this manual for future use.

Document #: IM032524

Pre-Operation (continued)

PREPARATION - BEFORE MEASUREMENT

SELF-TEST MODE

The self-test function tells if the detector is functioning normally or not working.

- ☐ Self-Test Pass: Momentarily press the NCV button (E) to start the detector self-test. The beeper will beep once and the sensitivity LED (C or D) turns on to indicate that the detector is on and ready for use. Self-test once when the NCV function is turned on.
- ☐ Self-Test Fail: all working LEDs on with a long beep, and then turn off to indicate that the detector can not work.

TURNING THE BEEPER OFF

- ☐ With the NCV function off, press and hold the NCV button (E) until the sensitivity LED (C or D) on, the tester will now operate without the beeper.
- ☐ It can not turn the beeper off when the NCV function is on.

AUTO POWER OFF FUNCTION

- ☐ To conserve battery life, the detector will automatically turn off after approximately 5 minutes of inactivity.
- ☐ When auto power off, the beeper will beep twice and all LEDs will turn off.

NCV FUNCTION ON/OFF

- ☐ Turn on NCV function: press the NCV button (E) to turn on the NCV function.
- ☐ Turn off NCV function: with the NCV function on, press and hold the NCV button (E) about two seconds. The detector will beep twice and all indicator LEDs will turn off to indicate that NCV function is off.

LOW BATTERY INDICATION

- ☐ Replace the batteries if the sensitivity LED does not turn on.
- ☐ When press the NCV button to turn on the NCV function, the beeper beep three times with sensitivity LED flashes, and then power off, it is indicated that the batteries are too low for reliable operation.
- ☐ Replace the batteries to restore operation.

Operation

WARNING: Risk of Electrocution. High-voltage circuits, both AC and DC, are very dangerous and should be measured with great care.

NOTE: Before using this product, press the power button to perform a self-test. If the detector is working properly, the LED light will flash. If the LED does not flash, the detector is not working properly.

WARNING: Risk of Electrocution. Before using to check for voltage in a socket, always test the detector on a known live circuit to verify that the detector is working properly.

WARNING: Risk of Electrocution. Keep hands and fingers on the body of the detector and away from the probe tip.

1 Verifying Operation

Before using the detector:
- ☐ Make sure the working LED (B) and sensitivity LED (C or D) are glowing.
- ☐ Check the detector on a known live AC voltage that is within the defined detection range of the detector.

2 Selecting Voltage Range

- ☐ Momentarily press the NCV button (E) when the detector is on with NCV function. The detector will change voltage range mode once between low sensitivity mode and high sensitivity mode.
- ☐ The green high sensitivity LED (C) on to indicate that detector is working with high sensitivity mode, the red low sensitivity LED (D) on to indicate that the detector is working with low sensitivity mode.

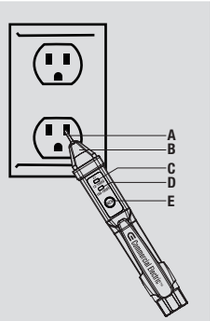
3 Using High Sensitivity Mode (12V to 1000V AC)

- ☐ The green sensitivity LED light (C) and the green working LED light (B) illuminate to indicate that the detector work on High Sensitivity Mode when the NCV function is on, place the detector tip (A) of the tester near an AC voltage.
- ☐ If the detector detects voltage within the defined detection range, the green working LED (B) will turn yellow and flash, the beeper will beep steadily.
- ☐ The flash rate and beeping rate will increase as the tester gets closer to the voltage source.
- ☐ If the detector detects high voltage, the yellow working LED (B) will turn red and keep lighting on, the beeper will beep rapidly.

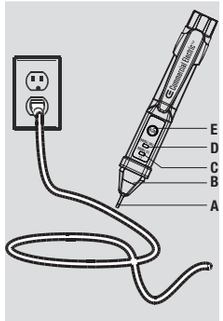
4 Using Low Sensitivity Mode (100V to 1000V AC)

- ☐ The red sensitivity LED (D) and the green working LED (B) glow brightly to indicate that the detector is working on low sensitivity mode. When the NCV function is on, place the detector tip (A) of the detector near an AC voltage.
- ☐ If the detector detects voltage within the defined detection range, the green working LED (B) will turn red and keep lighting on, the beeper will beep rapidly.

Operation (continued)



Test on Outlet



Test on Wire

Maintenance

BATTERY REPLACEMENT

WARNING: To avoid electric shock, do not operate the detector until the battery cover is in place and securely fastened.

WARNING: The measurement must be done only with the cap on the probe tip.

NOTE: When replacing the batteries, be sure to secure the cap firmly to maintain IP67 water and dust protection. A loose or overtightened battery cap may compromise water and dust protection.

- ☐ Unscrew the battery cap (G).
- ☐ Insert two fresh AAA batteries (ensure the correct polarity).
- ☐ Tighten the battery cap. Do not use excessive force.

