Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's date code in the back of the manual (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference. 25h

DOYLE™

NON-CONTACT VOLTAGE TESTER WITH INFRARED THERMOMETER



Visit our website at: https://www.harborfreight.com
Email our technical support at: productsupport@harborfreight.com

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When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-800-444-3353 as soon as possible.

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⚠WARNING

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

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WARNING SYMBOLS AND DEFINITIONS	
⚠	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
⚠DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
⚠WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
⚠CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE CAUTION	Addresses practices not related to personal injury.

IMPORTANT SAFETY INFORMATION

Voltage Tester Warnings

⚠WARNING

Read all safety warnings and all instructions.
Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

1. Electrical shock can cause death or injury! NEVER TOUCH exposed conductors of electricity.
2. Inspect the Voltage Tester before use.
3. Do not use the Voltage Tester if:
   a. The test lead is damaged in any way.
   b. The battery is low.
   c. Near any explosive gasses or fumes.
   d. Any abnormal operation is detected. (If in doubt about the condition of the Tester, have it serviced.)
   e. The battery cover is open.
4. Do not install old and new batteries together. Do not install alkaline, carbon-zinc or rechargeable batteries together. Position batteries in proper polarity. Do not use swollen or leaking batteries.

5. Use caution when working near voltages above 30 VAC rms, 42 VAC peak, or 60 VDC. Voltages this high present a risk of electric shock.
6. Hold Voltage Tester with fingers behind Safety Line.
7. Avoid electrical shock. Use extreme caution when working near uninsulated conductors or bus bars. Prevent body contact with grounded surfaces such as pipes, radiators, ranges, and cabinet enclosures when testing voltages.
8. Observe work area conditions. Do not test voltages in damp or wet locations. Don't expose to rain. Keep work area clean and well lit.
9. Keep children away. Children must never be allowed in the work area.
10. Stay alert. Watch what you are doing, use common sense. Do not operate Voltage Tester when you are tired.
11. Do not operate Voltage Tester if under the influence of alcohol or drugs. Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the Voltage Tester.
12. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.
13. Do not test voltage on circuits higher than 1000V~. This type of testing should only be done by a qualified electrician.
14. Store idle equipment. When not in use, Tester must be stored in a dry location to decrease exposure to moisture. Lock up Tester and keep out of reach of children.
15. Dress properly. Protective, electrically nonconductive clothes and nonskid footwear are recommended when working.
16. Wear ANSI-approved safety goggles during use.
17. Avoid damaging Voltage Tester. Use only as specified in this manual.
18. Performance of this Voltage Tester may vary depending on battery condition.
19. Use the proper settings, terminals, techniques, and range for the tests performed. Start with the range stated in the instructions.

Infrared Thermometer Warnings

1. Do not use for medical purposes.
2. Do not open the housing other than battery compartment.
3. Avoid direct eye exposure.
4. Do not expose the tool to rain or wet conditions.
5. Have your tool serviced by a qualified repair person using only identical replacement parts. *This will ensure that the safety of the tool is maintained.*
6. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

7. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.



SAVE THESE INSTRUCTIONS.

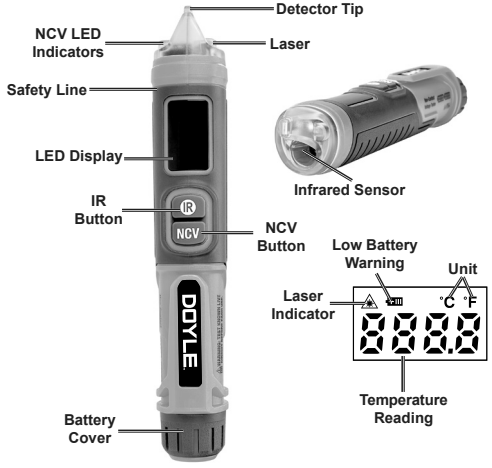
Specifications

Max. Voltage	1000V~
Rating	CAT IV 1000V
Temperature Range	-22°F to 536°F (-30°C to 280°C)
Temperature Accuracy	(@ -22°F to 68°F) ±5.4°F (@ 69°F to 536°F) ±2.0% or ±3.6°F, whichever is greater
Laser Type	Class 1
Distance-to-Spot Ratio	4:1
Operating Temperature	32°F - 122°F (0° to 50° C)
Operating Humidity	80% RH Max.
Operating Altitude	2000m Max.
Storage Temperature	14°F to 140°F
Battery	AAA x2 (included)

Setup - Before Use:

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Functions



Operating Instructions

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Non-Contact Voltage Mode

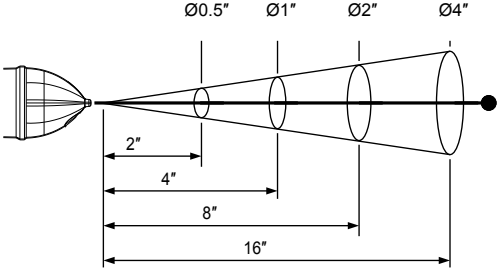
1. To turn on Tester in Non-Contact Voltage Tester mode, press the NCV Button.
2. If the Voltage Tester is working properly, Tester will beep once and the green LED will turn on.
3. If the Voltage Tester is not working properly, the Tester will beep and all LEDs will flash 5 times. Tester will then turn off.
   a. Replace batteries. See ***"Battery Replacement" on page 7***.
   b. Turn the Tester on. If Tester still does not work, have Tester serviced by a qualified technician.
4. Test a known live circuit to ensure the Tester is operating correctly.
5. Place the Detector Tip near AC voltage.
6. If Tester detects voltage, the green LED will turn off and the red LED will flash. Tester will beep.
7. Flash rate and beeping rate will increase as the Detector Tip moves closer to voltage source.
8. If the Tester detects high voltage, the red LED will stay on without flashing. Tester will beep rapidly.
9. Tester will automatically turn off the Non-Contact Voltage function after 5 minutes of inactivity. Tester will beep twice and all LEDs will turn off.

Note: Detecting voltage during this five minute window will reset the timer, keeping the Tester on for another five minutes.

10. To manually turn off Tester, press and the NCV Button. Tester will beep twice and all LEDs will turn off.

Infrared Thermometer Mode

The object being tested should be larger than the size calculated by the diagram below.



1. Press and hold the IR Button. Laser Indicator will show on LED Display.
2. To change the temperature unit between Celsius and Fahrenheit, press and hold the IR Button. While pressing the IR Button, press and hold the NCV Button. Release Buttons when the desired unit is selected.
3. While holding the IR Button, aim the Laser at the object to be measured.
4. The LED Display will show the temperature.

NOTE: If the temperature is outside measurable range, the LED Display will show "OL."

5. Releasing the IR Button will hold reading for 10 seconds. The Tester will automatically turn off after 10 seconds of inactivity.

Silent Mode

1. To turn on Tester in Silent Mode, press and hold the NCV button for 2 seconds. The Green Light will turn on, but the Tester will not beep.
2. During operation, the LED will turn red when detecting voltage. The LED flash rate will increase at higher voltages, but the Tester will not beep.
3. To turn off Tester, press the NCV button.

Maintenance and Servicing

Procedures not specifically explained in this manual must be performed only by a qualified technician.

Cleaning, Maintenance, and Lubrication

1. Wipe unit with a dry, lint-free cloth. Do not use solvents or abrasives.
2. Remove batteries if not in use for long periods.
3. Store unit in a dry location.
4. Other than the battery, there are no replaceable parts on this unit. **Repairs should be done by a qualified technician.**

Battery Replacement

1. Make sure Tester is off.
2. Unscrew Battery Cover from end of Tester.
3. Remove used batteries and replace with 2 new AAA batteries.

WARNING! To prevent serious injury: Do not install old and new batteries together. Do not install alkaline, carbon-zinc or rechargeable batteries together. Position batteries in proper polarity. Do not use swollen or leaking batteries.

4. Replace Battery Cover and tighten.

3-YEAR LIMITED WARRANTY

This DOYLE product is warranted to the original purchaser to be free from defects in materials and workmanship for a period of three (3) years beginning on the date of purchase. To obtain warranty service, visit your local Harbor Freight retail store. Warranty registration is not required. The product or part must be returned with proof of purchase (e.g. in-store receipt or packing slip/ invoice) and may require shipment by purchaser to a service center at purchaser's expense. If our inspection verifies a covered defect in materials or workmanship during the warranty period, we will, at our option, repair or replace the defective product. We will return repaired products within a reasonable time at our expense, but if we determine that there is no defect, or that the defect resulted from causes not within the scope of our warranty, then we will return the product to you if you pay return shipping costs. Fraudulent returns or claims will be denied. The repair or replacement described in this warranty shall be your sole and exclusive remedy.

This warranty does not cover any failure or damage that we determine is due directly or indirectly to:

- normal wear and tear, including, without limitation to, batteries, fuses, test leads, thermocouples, and other wear items
- accident, misuse, abuse, rental, use not for the intended purpose, or use not in accordance with the product manual
- modification, alteration, unauthorized repair, use of equipment or components we did not supply, improper installation
- any other failure not arising from defective materials or workmanship

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES, WRITTEN OR ORAL, AND ANY IMPLIED WARRANTIES ARE DISCLAIMED TO THE EXTENT PERMITTED BY LAW AND OTHERWISE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN. HARBOR FREIGHT SHALL NOT BE LIABLE UNDER ANY CIRCUMSTANCES FOR ANY INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES OR COSTS ARISING FROM THIS WARRANTY OR THE USE OF THIS PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THESE LIMITATIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Record Date Code Here:_____

Note: **If product has no date code, record month and year of purchase instead.**

Note: Reference UPC 193175473394.

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