

PT-5000B

Proof Tester® Voltmeter Tester

Operating & Instruction Manual



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HDE HD ELECTRIC COMPANY
A Textron Company

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PT-5000B

Proof Tester® Voltmeter Tester

INTRODUCTION

The PT-5000B Proof Tester Voltmeter Tester will produce 5kVDC at the test leads to confirm proper operation of voltmeters and phasers. This tester should be used only with voltmeters/phasers that measure DC voltage. It will not confirm operation of voltmeters/phasers that measure AC voltage only. The PT-5000B operates from one 9V lithium or alkaline battery and produces approximately 5kVDC at the connecting leads.

To use:

- 1) Connect both tester leads to the voltmeter/phaser probes.
- 2) Press and hold both TEST buttons.
- 3) Confirm a good battery by checking the red light on the Tester. If the red light does not come on, replace the battery with a 9V lithium or alkaline only.
- 4) Verify the voltmeter/phaser reads approximately 5kV.
- 5) Release the TEST buttons and disconnect the Tester from the voltmeter/phaser.

WARNING: Do not use the voltmeter/phaser if proper operation is not confirmed.

WARNING:

Do not use this tester except as directed. Do not use to test equipment other than voltmeters/phasers. Do not apply to energized circuits or equipment. Refer all servicing to the factory. Failure to follow these instructions may lead to electric shock, severe injury or death.

OPERATIONAL IMPAIRMENT - If the PT-5000B is used in a manner not described in this instruction manual, the protection and effective operation of this equipment may be impaired.

CARE AND MAINTENANCE

STORAGE - It is recommended for protection of the PT-5000B that it is stored in the voltmeter carrying case.

CLEANING INSTRUCTIONS - To clean the PT-5000B wipe with a damp cloth with water. Do not use harsh chemicals or solvents.

DAMAGE - If you suspect any mechanical or electrical damage, do not use the PT-5000B and arrange for repair by returning to the factory.

CALIBRATION & TESTING - Regular calibration is not required. There is no calibration adjustment.

REPAIRS - All repairs are performed at HD Electric Company. If any damage is found please contact HD Electric Company at 847-473-4980 to arrange for service.

TECHNICAL SPECIFICATIONS

DIMENSIONS

3.6 in. W x 5.7 in. L x 1.2 in. H

(9.1 cm x 14.5 cm x 3.0 cm)

Weight 0.85 lbs (386g)

BATTERY

9V alkaline 1604A, IEC 6LR61 or

9V lithium ANSI-1604LC

OUTPUT VOLTAGE: 5kVDC

Nominal, unregulated

PT-5000B VOLTMETER TESTER

This Tester will produce 5kVDC at the test leads to confirm proper operation of voltmeters and phasers. This tester should be used only with voltmeters/phasers that measure AC and DC voltage. It will not confirm operation of voltmeters/phasers that measure AC voltage only.

To use this Tester:

1. Connect both Tester leads to the voltmeter/phasor probes or alligator clip.
2. Press and hold both TEST buttons.
3. Confirm a good battery by checking the red light on the Tester. Replace the battery with a 9V alkaline or lithium type.
4. Verify the voltmeter/phasor reads approximately 5kV.
5. Release the test buttons and disconnect the Tester from the voltmeter/phasor.

Do not use the voltmeter/phasor if proper operation is not confirmed

CAUTION: This Tester generates high voltage DC for testing voltmeters/phasers. Do not touch the test leads, cord, resistor sticks, meter housing or voltmeter/phasor probes while testing.

WARNING: Do not use this tester except as directed. Do not use to test equipment other than voltmeters/phasers. Do not apply to energized circuits or equipment. Refer all servicing to the factory. Failure to follow these instructions may lead to electric shock, severe injury or death.

HD Electric Company, Waukegan, IL U.S.A.
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ENVIRONMENTAL CONDITIONS

CONDITIONS: Indoor and outdoor use

ALTITUDE: Up to 6,566 ft. (2000M)

OPERATING TEMPERATURE: -20°F to +140°F
(-29°C to +60°C)

HUMIDITY: 95% to +60°C (non-condensing)

POLLUTION DEGREE: PD2

ENCLOSURE MATERIAL: ABS UL 94-HB

PRINTED CIRCUIT BOARDS: FR-4 UL 94-V0

	Indicates the position of one of the two high voltage test leads.
	Signifies that the 5kV high voltage output should not contact a bare hand and can cause severe injury or death.

BATTERY REPLACEMENT INSTRUCTIONS

To replace the battery, open the compartment on the bottom of the housing. Remove and dispose of the old battery, replacing it with a fresh, new 9-volt lithium or alkaline battery.

MANUFACTURING LOCATION

HD Electric Company • Waukegan, IL. 60085, USA

LIMITED WARRANTY AND LIMITATION OF LIABILITY

This warranty applies to all products sold by HD Electric Company (the "Products"); provided, however, that the term Products does not include any third party products purchased through HD Electric Company, for which no warranties are made (the "Third Party Products"). Third Party Products may be subject to a separate manufacturer's warranty; [should you have any question regarding whether a separate warranty applies, please contact HD Electric Company].

NOTICE: READ THIS LIMITATION OF WARRANTY AND LIABILITY BEFORE BUYING OR USING THE PRODUCTS CONTAINED HEREIN.

It is impossible to eliminate all risks associated with the use of the Products. Risks of serious injury or death, including risks associated with electrocution, arcing and thermal burns, are inherent in work in and around energized electrical systems. Such risks arise from the wide variety of electrical systems and equipment to which Products may be applied, the manner of use or application, weather and environmental conditions or other unknown factors, all of which are beyond the control of HD Electric Company.

HD Electric Company does not agree to be an insurer of these risks, and shall have no liability for any claims arising from such risks.

WHEN YOU BUY OR USE THESE PRODUCTS, YOU AGREE TO ACCEPT THESE RISKS.

HD Electric Company warrants to the original purchaser that the Products (excluding any third party products purchased through HD Electric Company, for which no warranties are made) will be free from defects in material and workmanship, under normal use and regular service, and preventative maintenance for a period of one (1) year (ten (10) years for HDE Capacitor Controls) from the date of shipment (the "Warranty Period"). Should any failure to conform with this warranty be found during the Warranty Period, you must notify HD Electric Company of your claim within thirty (30) days of discovery, and within the Warranty Period. Your failure to give notice of claims of breach of warranty within the Warranty Period shall be deemed an absolute and unconditional waiver of claims for such defects. HD Electric Company will have no responsibility to honor claims received after the date the applicable Warranty Period expires.

Upon notice of your claim, HD Electric Company will provide a return authorization number, and further instructions on how to return the product for service. You must follow HD Electric Company's instruction. You are responsible for all Product removal, handling, re-installation, and shipping (both to and from HD Electric Company). Products returned for repair, as well as repaired or replacement Products shall be sent postage / freight prepaid. After receipt of a product which HD Electric Company determines is defective, HD Electric will, at its option, either (1) repair (or authorize the repair of) the Product or (2) replace the Product, subject to the following: The Products are made using parts sourced from a variety of manufacturers. Due to the rapidly changing technology environment, parts may become obsolete / unavailable over time (end of life). In the event that a Product cannot be repaired or replaced due to unavailability of parts, HD Electric Company will use commercially reasonable efforts to obtain substitute parts or conduct work around design, but cannot guarantee its ability to do so.

Items not found defective will be returned at your expense, or failing receipt of instruction from you on return of such items within five (5) business days of our notice to you that the product is not defective, HD Electric may dispose of the product at its discretion and with no liability to you. HD Electric Company's determination of defects is final. Products repaired or replaced during the Warranty Period shall be covered by the foregoing warranties for the remainder of the original Warranty Period or ninety (90) days from the date of delivery of the repaired or replaced Products, whichever is longer.

LIMITATIONS:

This warranty is void in the event of misuse, alteration, faulty installation, or misapplication of the product.

This warranty does not cover failure of product or components due to any ACT OF NATURE; lightning, floods, hurricanes, tornadoes or any other such catastrophic events.

HD Electric Company does not warrant any third party products or associated hardware or their performance or suitability for use and application. Such items are provided "as-is".

All repairs must be authorized by HD Electric Company. Unauthorized repairs will not be reimbursed under any circumstances.

HD Electric Company is not required to make replacement or loaner equipment available while Products are being repaired or replaced, or to compensate you for any in/out labor charges or expenses associated with removal, handling or re-installation of the Products.

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HD Electric Company must have prompt notice of any claim so that an immediate product inspection and investigation can be made. Buyer and all users shall promptly notify HD Electric Company of any claims, whether based on contract, negligence, strict liability, or other tort or otherwise be barred from any remedy.

HD Electric Company is committed to ongoing review and improvement of its product lines, and thus reserves the right to modify product design and specifications without notice.

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