VP-1 & VP-2 VOLTAGE PROBES

Operating & Instruction Manual





GENERAL DESCRIPTION

The VP-1 and VP-2 are hand held voltage detectors for testing exposed metallic surfaces and conductors for the presence of secondary voltage 60Hz AC and for testing for the presence of primary voltage on primary voltage joint and termination test points and through unshielded primary voltage cable insulation. These detectors are designed

to be used hand held as shown for secondary voltage testing and must be used with suitable rated electrical insulating gloves for voltages above 600V. The presence of AC voltage is indicated by a flashing red light and beeper.



HOW IT WORKS

The hand of the user holding the VP series Low Voltage Detector is an integral part of the measurement system and the detector must be hand held as shown. In typical applications, the hand of the user functions as a "virtual ground" to provide a ground reference for the detector since it has no direct connection to ground. The detector measures voltage applied to the metal tip and turns on the red light and beeper if voltage is detected.

SAFETY

The VP series probes are rated for a maximum direct contact voltage of 21kVAC, 50/60Hz when hand held with a suitably rated electrical insulating glove. This detector does not detect DC such as in charged capacitors or underground cable.

- Keep hands and fingers behind the hand guard at all times.
- Do not exceed 21kVAC with direct contact.
- Maintain a safe distance from voltages greater than 600VAC at all times. Test the detector with the PT-VP Voltage Probe Tester before and after each use. The detector is powered by two AA lithium or alkaline batteries. Replace the batteries when the red flashing light is no longer visible.

VP-1 AC VOLTAGE PROBE

For detecting primary voltages on unshielded, insulated cabes from 2.1kV.

NOT FOR STRAY VOLTAGE DETECTION

Read instructions before use. For use by trained personnel only. Operating voltage 50-600VAC hand held, up to 21kVAC using appropriately rated electrical insulating gloves. Test before each use with PT-VP Tester. Do not use if the Tester fails to activate the Voltage Probe

WARNING: Does not detect DC voltage
Light and beeper indicate AC voltage. Contacting
voltage above rated voltages may lead to electric
shock, severe injury or death.
Refer all servicing to factory.
IEC 600VAC Cat. IV

www.HDElectricCompany.com Made in USA

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VP-2 AC VOLTAGE PROBE

NOT FOR STRAY VOLTAGE DETECTION

To be used for detecting secondary voltages on metallisurfaces and conductors, testing for primary voltage at capacitive test points on dearfront joints and terminations and through unshielded primary cable insulation, presence of primary voltage through insulating cable end caps

CAUTION: Read instructions before use. For the presence of primary voltage as indicated above, line operating voltage as indicated above, line operating voltage shall be 2.400/A/C to 21.000/A/C line to ground User shall were appropriately rated electronial insulating gloves. When testing for the presence of secondary voltage, max use voltage is 600/A/C. Test before each use with PT-VP Tester. Do not use if Tester fails to activate the Voltage Probe.

WARNING: Does not detect DC voltage. Light and beeper indicate AC voltage. Contacting voltage above rated voltages may lead to electric shock severe injury or death.

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APPLICATIONS

The **VP-1** is designed for general purpose voltage detection with direct contact on secondary voltages and for use in detecting primary voltages in underground cables on unshielded portions over the cable insulation. The **VP-2** is designed for detecting the presence of primary voltage on capacitive test points on underground deadfront joints and terminations.

PT-VP VOLTAGE PROBE TESTER

Test the VP Voltage Probe with the PT-VP Voltage Probe Tester before and after each use. The PT-VP supplies a low voltage AC signal at the metal electrode on the end shown with the large arrow. To test the VP Voltage Probe, hold the Detector and Tester as shown, press the tester ON button and make direct contact between the metal tip on the Detector and the metal electrode on the Tester.



A red light on the PT-VP Tester indicates the Tester is OK. A red light and beeper on the VP Voltage Probe means voltage is detected. Replace the battery in the Tester with a 9V lithium or alkaline type when the red light is not on. Note that both units should be hand held as shown for testing. Your hands are part of the test circuit and hand placement can affect test results.

RFPAIRS

If any damage is found please contact us at 800-435-0786 to arrange for service.

MANUFACTURING LOCATION HD Electric • Southaven, MS, 38672 USA

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HD Electric Company is herein referred to either as "HDE" or "Seller" and the customer or person or entity purchasing goods or services (hereinafter collectively referred to as "Goods") is referred to as "the "Buyer". These Terms and Conditions, any price list or schedule, guidation, acknowledgment or invoice from HDE relevant to the sale of the Goods and all documents incorporated by specific reference therein, constitute the complete and exclusive statement of the terms of the agreement operating the sale of Goods by HDE to Buyer, Buyer's acceptance of the Goods will make buyer's asceptance the set man and conditions without variation or addition. Any different or additional terms in Buyer's purchase order or other Buyer documents are hereby objected to. HDE reserves the right in its sole discretion to refuse orders.

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5. LIMITATION OF REMEDY AND LIABILITY: THE SOLE AND EXCLUSIVE REMEDY FOR BREACH OF ANY WARRANTY HEREUNDER SHALL BE LIMITED TO REPAIR, CORRECTION, REPLACEMENT OF CREDIT UNDER SECTION 4. HID SHALL NOT BE LIABIL FOR DAMAGES CAUSED BY DELAY IN PERFORMANCE, AND IN NO EVENT, REGARDLESS OF THE FORM OF THE CHAIN OF THE CHAIN OF ACTION WHETHER BASED CONTINUES. THE FORM OF THE CHAIN OF THE

6. EXCUSE OF PERFORMANCE (FORCE MAJEURE): HDE shall not be liable for delays in performance or for non-performance due to acts of God; acts of Buyer, war, fire; flood; weather; sabotage; strikes, labor disputes, o'dl disturbances or rioks; governmental requests, restrictions, allocations, laws, regulations, orders or actions; unavailability of or delays in transportation; default of suppliers; or unforeseen circumstances or events beyond HDEs reasonable control. Deliverse or other performance may be suspended for a naproprisel period or cancelled by IVED groun fotio to line in the event of any of the foregonis, but the belance of this superement shall otherwise remain unaffected. IVED determines that its ability to supply the total demand for the Goods, or to obtain material used directly or indirectly in the manufacture of the Goods, is indirectly and the remainded to the Goods or materials are allocated as available supply of the Goods or such material (without obligation to acquire other supplies of any such Goods or materials) among itself and its purchasers on such basis as HDE determines to be equitable without liability for any failure of performance which may result therefrom.

7. CHANGES: HDE reserves the right to change designs and specifications for standard Goods without prior notice to Buyer, but not with respect to custom Goods being made for Buyer. HDE shall have no obligation to install or make such change in any Goods manufactured prior to the date of such change.

8. ASSIGNMENT: Buyer shall not assign its rights or delegate its duties hereunder or any interest herein without the prior written consent of HDE, and any such assignment, without such consent, shall be void

9. INSTALLATION: Buyer shall be responsible for receiving, inspecting, testing, storing, installing, starting up and maintaining all Goods

10. NSPECTIONTESTING: Buyer, at its expense, agrees that it will promptly inspect the Goods upon receipt thereof, and in no event later than thirty. (30) days from the date of receipt of the Goods. Buyer shall deliver to IDE within filters of 15 days of rempsection, but in no event later than forty-five, 60 days from the date of receipt of the Goods, written notice of any and all deficiencies, defects, variations from specifications or complaints of any kind with respect to the quantity, quality, condition, shipment, performance, price or appearance of the Goods so received by Buyer. In the event no such written notice is received by HDE. Buyer shall be deemed conclusively to have inspected and such Goods unconditionally any and all rights and claims, including withintion any right to reject the Goods or to diam damages in respect the reaction. Buyer may not return goods without first advising HDE of the reasons therefore, obtaining from HDE a material authorization number and observing such instructions as HDE may give in authorizing such return. In the event a return is authorizing for any Goods requiring reparkacing or maintenance a wenty percent (20%) restording fee shall be assessed to Buyer in the final credit amount.

11. SERVICEs: If this agreement requires HDE to perform or provide any services, HDE (including without limitation its successors, assigns, agents or any person or entity acting at HDE's direction) shall not be responsible for any damages, claims, liabilities or expenses of any nature arising out of such services.

12. U.S. EXPORT CONTROL LAWS: All Goods sold to Buver by HDE hereunder are subject to U.S. Export Control Laws. Buver hereby agrees not to re-sell or divert any goods contrary to such laws

13. COMPLIANCE: Selenc'Ontractor shall comply with all applicable federal, state or local laws, rules, regulations, or orders. Selenc'Ontractor shall comply with Executive Order 11246, as amended by Executive Order 13758, and the applicable provisions for the Office of Federal Contract Compliance Programs (PCFCP), 41 CFR Part 60, which are incorporated wherein by the reference, Buyer shall comply with all applicable federal, state, or local laws, rules, regulations or orders including but not limited to the Foreign Corrupt Practices Act of 1977, as amended. HDE reserves the right to delay or refuse delivery if requests for reasonable assurances of Buyer's compliance are not Interfeder as requested.

14. MISCELLANEOUS: These terms and conditions superseds all other communications, negotiations and prior or all or written statements regarding the subject matter hereof. No change, modification, rescission, dischange, beandorment, or waiver of these terms and conditions shall be binding upon HDE unless made in writing and signed on its behalf by its duly authorized representative. No conditions, usage or trade, course of dealing or performance, undestanding or agreement purporting to modify, vary, explain, or supplement these terms and conditions shall be binding unless hereafter made in writing and signed by Seller. No modification shall be effected by HDEs receipt or acceptance of Buyer's purchase orders, shipping instruction forms, of other documentation containing terms at variance with or in addition to those self toth herein, all of which are objected to by HDEs. Any such modifications or additional terms are specification; presently rejected by HDEs whatever the deemed to constitute or offeatured any other breach or default of any other breach or default of any other breach or default of any other pith or remedy, unless such waiver be expressed in writing and signed by HDE. All typographical or defectal errors made by HDE in any southern exceeding to the interpretation and effect of this agreement shall be governed by twos of the state of limits on without regard to condition, shortworkgrament or private in the state of the state

15. DISPUTE RESOLUTION: In the event of any dispute INCLUDING, BUT NOT LIMITED TO, BREACH OF CONTRACT, BREACH OF WARRANTY, CLAIMS BASED IN TORT, NEGLIGENCE, PRODUCT LIABILITY, FRAUD, MARKETING, STATE OR FEDERAL REGULATIONS, ANY CLAIMS REGARDING THE ENFORCEABILITY OF THIS LIMITED WARRANTY, AND THE WAIVER OF CLASS ACTION TRIALS between Buyer and Seller, either may choose to resolve the dispute by binding arbitration, as described below, instead of in out. THIS MEANS IF EITHERY OR SELLER CHOOSE BINDING ARBITRATION, DIFFIER PARTY SHALL HAVE THE RIGHT TO LITIGATE SUCH CLAIM IN COURT OR HAVE A JURY TRIAL. DISCOVERY AND APPEAL RIGHTS ARE LIMITED IN BINDING ARBITRATION. Buyer and Seller agree that the proper usure if Arbitration in on sto schosen by Buyer or Seller of all actions arising in connection herewith shall be only in the state of liminos and the agree to submit to sch jurisdiction. No acid, negardess of form, arising out of transactions relating to the agreement, may be brought by either party more than two (2) years after the cause of action has accrued. The U.N. Convention on Contracts for the International Sales of Goods shall not anyly in this accruence.

16. CLASS ACTION WAIVER: BINDING ARBITRATION MUST BE ON AN INDIVIDUAL BASIS. THIS MEANS NEITHER BUYER NOR SELLER MAY JOIN OR CONSOLIDATE CLAIMS IN ARBITRATION BY OR AGAINST OTHERS, OR LITIGATE IN COURT OR ARBITRATE ANY CLAIMS AS A REPRESENTATIVE OR MEMBER OF A CLASS OR IN A PRIVATE AT TORNEY GENERAL CAPACITY. ADMINISTRATION OF A PRIVATE AND A PRIVATE AT TORNEY GENERAL CAPACITY. ADMINISTRATION OF A PRIVATE AND A PRIVATE AT TORNEY GENERAL CAPACITY. ADMINISTRATION OF A PRIVATE AND A PRIVATE

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HD Electric Company® products are available through HDE® sales representatives worldwide.

HD Electric products receive final assembly and shipment from HDE's production facility at

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