

# VP-1 Voltage Probe

## GENERAL DESCRIPTION

The VP-1 is a hand held voltage detector 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. This detector is 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-1 Voltage Probe is an integral part of the measurement system and the probe 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 probe since it has no direct connection to ground. The probe measures voltage applied to the metal tip and turns on the red light and beeper if voltage is detected.

## 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-1 can also be used for detecting the presence of primary voltage on capacitive test points on underground deadfront joints and terminations.

## SAFETY

The VP-1 Voltage Probe is 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 probe with the PT-VP Voltage Probe Tester before and after each use. The probe is powered by two AA alkaline batteries. Replace the batteries when the red flashing light is no longer visible.



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| <p><b>VP-1 AC VOLTAGE PROBE</b></p> <p>For detecting primary voltages on unshielded, insulated cables from 2.1kV.</p> <p><b>NOT FOR STRAY VOLTAGE DETECTION</b></p> <p> 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.</p> <p> <b>WARNING:</b> 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</p> <p>www.HDElectricCompany.com<br/>Made in USA</p> <p>8/07</p> |
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08/19/09



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## PT-VP VOLTAGE PROBE TESTER

Test the VP-1 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 tester and voltage probe as shown, press the tester ON button and make direct contact between the metal tip on the probe 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 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.



## LIMITATION OF WARRANTY AND LIABILITY

NOTICE: READ THIS LIMITATION OF WARRANTY AND LIABILITY BEFORE BUYING OR USING THIS PRODUCT. IF THE TERMS ARE NOT ACCEPTABLE, RETURN THE PRODUCT AT ONCE, AND THE PURCHASE PRICE WILL BE REFUNDED.

It is impossible to eliminate all risks associated with the use of this product. 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 this product 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. WHEN YOU BUY OR USE THIS PRODUCT, YOU AGREE TO ACCEPT THESE RISKS.

HD Electric Company warrants that this product is free of defects in material and workmanship, under normal use and service, for a period of one (1) year from the date of shipment. This warranty is void in the event of misuse, alteration, faulty installation or misapplication of the product.

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