

## CLEANING

Clean only the exterior probe body and cables. Use a soft cloth lightly moistened with a mild solution of detergent and water. Do not allow any portion of the probe to be submerged at any time. Dry the probe thoroughly before attempting to make voltage measurement.

Do not subject the probe to solvents or solvent fumes as these can cause deterioration of the probe body and cables.

## ONE YEAR LIMITED WARRANTY

This probe is warranted to the original purchaser against defects in material or workmanship for a period of one year from the date of purchase. During the warranty period, Fieldpiece will, at its option, replace or repair the defective unit, subject to verification of the defect or malfunction. This warranty

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ANY IMPLIED WARRANTIES ARISING OUT OF THE SALE OF A FIELDPIECE INSTRUMENT PRODUCT, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE ABOVE. FIELDPIECE SHALL NOT BE LIABLE FOR LOSS OF USE OF THE INSTRUMENT OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES, EXPENSES, OR ECONOMIC LOSS, OR FOR ANY CLAIM OR CLAIMS FOR SUCH DAMAGE, EXPENSES, OR ECONOMIC LOSS.

Local laws vary, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary by location.

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## OBTAINING SERVICE

Call Fieldpiece (714) 257-9060 for an RMA# and send freight prepaid to: Fieldpiece Instruments  
580 West Central Ave. Suite A  
Brea, CA 92821

For warranty service, include proof of purchase date. For out of warranty service, include a check or money order for \$100. We will send you a reconditioned probe.



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580 West Central Ave. Suite A  
Brea, CA 92821  
Phone: (714) 257-9060  
Fax: 257-9069  
www.fieldpiece.com  
OPMNAHV28v10NA

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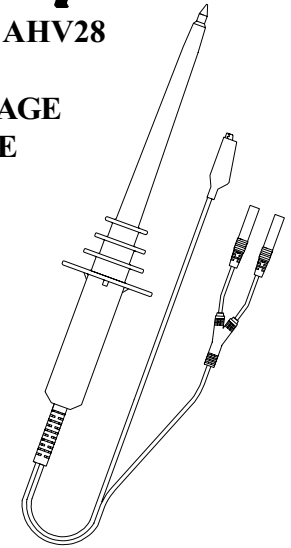
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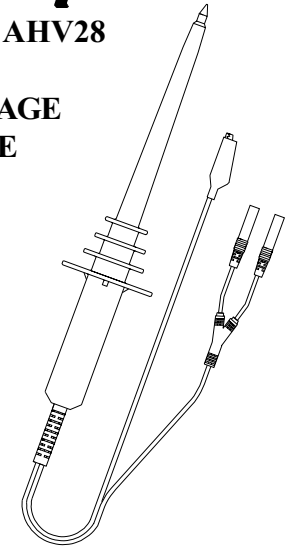
Model AHV28  
HIGH  
VOLTAGE  
PROBE



OPERATOR'S MANUAL

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Model AHV28  
HIGH  
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OPERATOR'S MANUAL

## SAFETY PRECAUTIONS

This high voltage probe must only be used by personnel who are trained, experienced, or otherwise qualified to recognize hazardous situations and who are trained in the safety precautions that are necessary to avoid possible injury when using such a device.

Do not work alone when working with high voltage circuits.

For your own safety, inspect the probes for cracks and frayed or broken leads before each use. If defects are noted, DO NOT use the probe.

Hands, shoes, floor and work bench must be kept dry. Avoid making measurements under humid, damp or other environmental conditions that might affect the safety of the measurement situation.

If possible, always turn the high voltage source off before connecting or disconnecting the probe.

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The probe body should be kept

clean and free of any conductive contamination. Refer to the section on cleaning.

## HOW TO USE

1. When possible, turn the high voltage source off before making connections.
2. Connect the probe leads to digital multimeter V $\omega$  and COM terminals.
3. Connect the alligator clip lead to a good ground or reliable chassis ground.
4. For voltages up to 2000V, set meter to mV range (AC or DC) and read voltage directly. For higher voltages, set the meter to V range (AC or DC) and multiply reading by 1000 for measurement in volts. Do not use autoranging.

## WARNING

- Select AC or DC on meter correctly! Wrong selection will result in low

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## WARNING

- Select AC or DC on meter correctly! Wrong selection will result in low

reading when dangerous voltage is present.

- Do not attempt to take measurements from sources where the chassis or ground lead is not properly grounded.
- The ground connection is critical to the safe operation of the probe. Failure to make this connection when making high voltage measurements may result in personal injury or damage to the probe or multimeter. This connection must always be made BEFORE the probe tip comes into contact with the high voltage and must not be removed until after the probe tip has been removed from the high voltage source.
- Do not connect the ground clip lead to the high voltage source or the probe tip to the ground for any reason.
- Before turning the high voltage on, make sure no part of your body is in

reading when dangerous voltage is present.

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- Do not connect the ground clip lead to the high voltage source or the probe tip to the ground for any reason.
- Before turning the high voltage on, make sure no part of your body is in

- contact with the device under test.
- Remember that the voltage being measured is 1000 times greater than the multimeter reading.
- Turn the high voltage off after test.
- Disconnect the probe tip from the high voltage source BEFORE removing the ground clip lead.

## SPECIFICATIONS

**Input resistance:** Approx. 100M $\omega$   
**Input/output voltage ratio:** 1000:1 (i.e. 1000V at the probe tip will be converted to 1V at the banana plugs)  
**Max. Working Voltage:** 40KV DC or peak AC, 28KV rms AC  
**Accuracy:** DC volts:  $\pm 1\%$  (1KV to 20KV),  $\pm 2\%$  (20KV to 40KV)  
AC volts: Typically 5% at 60Hz  
**Temperature Coefficient:** Less than 400ppm/ $^{\circ}$ F  
**Operating temperature:** 32 $^{\circ}$ F to +122 $^{\circ}$ F  
**Storage temperature:** -4 $^{\circ}$ F to +158 $^{\circ}$ F  
**Cable length:** 1 meter

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