

DCV - 0 to 40 KV, ACV - 0 to 28 KV rms

HIGH VOLTAGE PROBE

Model : HV-40

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC

The Art of Measurement

HIGH VOLTAGE PROBE

Model : HV-40

| SPECIFICATIONS | | |
|-----------------------|--|--|
| Attenuate Ratio | 1 : 1000. | |
| Input Impedance | Approx. 1000 M ohm. | |
| Output Impedance | Around 1.1 M ohm. The input impedance of external voltmeter should be 10 mega ohm. | |
| Safety | Meet CAT II 40000 V | |
| Max. Working Voltage | DCV | DC 40 KV |
| | ACV | Peak AC 40 KV or 28 KV rms (depend which values is larger). |
| Accuracy | DCV | 1 KV to 20 KV - $\pm 1\%$. 20 KV to 40 KV - $\pm 1.5\%$. |
| | ACV | 1 to 28 KV rms, 50/60 Hz - $\pm 5\%$. |
| Temp Coefficient | Less than 200 ppm/°C. | |
| Operating Temperature | 0 to 50 °C (32 to 122 °F). | |
| Operating Humidity | Less than 80% RH. | |
| Cable Length | 1 meter. | |

OPERATION

Connect the plugs to the volts (Hi) & com (Lo) input terminals of your voltmeter (or Multimeter). Select the desired range of voltmeter (Attention : Do not use auto ranging). Whenever possible, turn the high voltage source off before making any connections. Connect the HV probe common lead (alligator clip) to a good earth ground or reliable chassis ground.

SAFETY PRECAUTION & WARNING !!!

- * This high voltage probe must be used by the person who are trained only. Do not work alone when working with high voltage circuits & environment.
- * For your own safety, inspect the probes for cracks & frayed or broken leads before each use. If any defects are noted, do not use the probes.
- * Hands, shoes, floor & work bench must be dry. Avoid making measurements under humid, damp or other environmental conditions that might affect the safety of measurement situation.
- * The ground connection must always be made before the probe tip comes into contact with the high voltage & must not be removed until after the probe tip has been removed from high voltage source.
- * Do not attempt to take measurement from sources where the chassis or return lead is not ground.
- * If possible, always turn the high voltage source off before connecting or disconnecting the probe.
- * Before turning the high voltage on, make sure that no part of your body is in contact with the device under test.
- * The probe body should be kept clean & free of any conductive contamination. Clean only the exterior probe body & cables. Use a soft cotton cloth lightly moistened with a mild solution of detergent & water. Do not allow any portion of the probe to be submerged at any time.