

# HV-7000 Differential Probe



## Specifications

<b>Bandwidth</b>	DC to 70MHz (-3dB)
<b>Attenuation</b>	1:100 / 1:1000
<b>Accuracy</b>	+/- 2%
<b>Rise Time</b>	3.5ns
<b>Input Impedance</b>	10MΩ//10pF each side to ground
<b>Input Voltage</b>	
-Differential Range*	+/-700V(DC + Peak AC) or 500Vrms @ 1/100 +/-7000V(DC + Peak AC) or 5000Vrms @ 1/1000
-Common Mode Range*	+/-7000V(DC + Peak AC) or 2500Vrms @ 1/100 & 1/1000 +/-7000V(DC + Peak AC) or 2500Vrms @ 1/100 & 1/1000 in common mode
-Absolute Max. Voltage*	+/-7000V(DC + Peak AC) or 5000Vrms @ 1/100 & 1/1000 in differential mode
<b>Output Voltage</b>	
-Swing (into 50kΩ load)	+/-7V
-Offset (typical)	<+/-5mV
-Noise (typical)	0.9mVrms
-Source Impedance (typical)	50 ohm
<b>CMRR (typical)</b>	-80dB@50Hz; -60dB@20kHz
<b>Ambient Operating Temperature</b>	-10 to 40 degree centigrade
<b>Ambient Storage Temperature</b>	-30 to 70 degree centigrade
<b>Ambient Operating Humidity</b>	25 to 85% RH
<b>Ambient Storage Humidity</b>	25 to 85% RH
<b>Power Requirements</b>	
-Standard	4xAA cells or 6VDC/200mA mains adaptor** or regulated 9VDC/120mA mains adaptor
-Options	Power leads
<b>Length of Input Leads</b>	60cm
<b>Length of BNC Cable</b>	90cm
<b>Weight (Including 4 cells)</b>	500gms
<b>Dimension (LxWxH)</b>	202mm x 83mm x 38mm

\* Voltage limit is the lesser of the DC+Peak AC and RMS values..

\*\*a. The supplied voltage must be less than 12V and greater than 4.4V, otherwise the probe could be damaged or can't be operated properly.

b. Polarity is "+" inside and "-" outside. For wrong polarity, built-in circuit protects the probe, no danger or damage will occur.

c. When the voltage of the cells become too low, the power indicator on the panel will flicker.

Application : High Voltage floating measurement, Voltage Surge measurement, Power Electronics system design