



MODEL NUMBER:  
**DP7 7kV**

## Voltage Probe for Transient Measurements

### DESCRIPTION

#### Differential Probe for High Voltage Power Measurement

The DP7 7kV meets IEC61010-031 Category I Requirements and is ideally suited for measuring high-speed voltage surge in power electronics circuits.

### FEATURES

- Safety Certified-Over
  - Range
  - Indicator
  - Up to +/-7000 V(DC +Peak AC)
- Differential
- Bandwidth up to 70 MHz

### APPLICATIONS

- High Voltage Floating Measurements
- Voltage Surge Measurement
- Power Electronics System Design
- Electronic Ballast Design

### INCLUDED

- Red & Black Sprung Hooks
- Calibration Certificate
- 4ea AA Batteries
- 9 VDC Adapter

### SPECIFICATIONS

Bandwidth	DC to 70MHz (-3dB)
Attenuation	1:100/1000
Input Impedance	10 M OHm/10pF each side to ground
Accuracy	+/- 2%
Rise Time	<5ns
<b>Input Voltage</b>	
• Category	CAT I
• Differential Input Voltage	700Vrms and +/-700V (DC+Peak AC ) @ 1/100 5000Vrms and +/- 7000V (DC +Peak AC) @ 1/1000
• Common Mode Voltage	2500Vrms and +/-7000V (DC+ Peak AC) @ 1/100 & 1/1000
• Absolute Max . Input	2500Vrms and +/-7000V (DC+ Peak AC) @ 1/100 & 1/1000 in Common Mode 5000Vrms and +/-7000V (DC +Peak AC) @ 1/100 & 1/1000 in Differential Mode

## Output Voltage

<ul style="list-style-type: none"><li>• Swing</li><li>• Offset (typical)</li><li>• Noise (typical)</li><li>• Source Impedance (typical)</li></ul>	+ 7V (into 50kohm load) <+5mV 0.9m Vrms 50 Ohm (for using 1 Mohm input system oscilloscope)
CMRR (typical)	-80dB @ 50Hz, -60dB @ 20kHz
Ambient Operating temperature	-10 to 40 degree centigrade
Ambient Storage temperature	-30 to 70 degree centigrade
Ambient Operating humidity	Up to 85% RH
Ambient Storage humidity	Up to 85% RH
Power Requirements*	Standard- 4 x AA cells or 9VDC adapter (Both Included) Options- Power Leads
Length of Input Leads	23"
Length of BNC Cables	36"
Weight	0.9 lb
Dimensions	(LxWxH) 8" x 3 1/4" x 1 1/2"

- \* 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 "iV" 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. Additional Accessories- Shown Below

## APPLICATIONS

<b>Width:</b>	8.00 (in)
<b>Height:</b>	3.00 (in)
<b>Depth:</b>	11.00 (in)



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