

# SI-9010

## Differential Probes



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### Features:

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

### Applications:

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

## Specifications

Bandwidth	DC to 70MHz (-3dB)
Attenuation Ratio	1:100/1000
Accuracy	+/- 2%
Rise Time	<5ns
Input Impedance	10Mohm//10pF each side to ground
Input Voltage	
-Differential Range	+/- 700V(DC+Peak AC) or 500Vrms @ 1/100 +/-7000V(DC+Peak AC) or 2500Vrms @1/1000
-Common Mode Range	+/-7000V(DC+Peak AC) or 2500Vrms @1/100 & 1/1000
-Absolute Max. Voltage (Differential or Common Mode)	+/-7000V(DC+Peak AC) or 2500Vrms @1/100 & 1/1000 in common mode +/-7000V(DC+Peak AC) or 5000Vrms @1/100 & 1/1000 in differential mode CAT I
Output Voltage	
- Swing	+/-7V (into 50kohm load)
-Offset (typical)	<+/-5mV
-Noise (typical)	0.9mVrms
-Source Impedance (typical)	50 ohm (for using 1Mohm 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	25 to 85% RH
Ambient Storage Humidity	25 to 85% RH
Power Requirements*	
-Standard	4xAA cells
-Options	Power leads, Mains adaptor* (6VDC/200mA or regulated 9VDC/120mA), USB power cord
Length of BNC Cable	90cm
length of Input Leads	60cm
Weight	500gms
Dimension(LxWxH)	202mm x 83mm x 38mm

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