



## Technical Data Sheet

### Differential Probe for Power management- Model 4233

The 4233 meets EN61010 Category III Requirements. With wide choice of attenuation ration, the 4233 is capable of making full range (from millivolts to + 700V) measurements of floating signals in power electronic circuits.

#### **Features**

- Up to +/-1400 V(DC + Peak AC) Differential and Common Mode
- Safety Certified-Bandwidth up to 100 MHz

#### **Applications**

- Switching Power Supply Design
- Motor Drive Design
- Electronic Ballast Design
- CTR Display Design

#### **Included**

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



## 4233 Specifications

Bandwidth	DC to 100 MHz (-3dB)
Attenuation	1:10/100
Accuracy	+/-2%
Rise Time	3.5ns
Input Impedance	4Mohm //7pF each side to ground
Input Voltage -Category - Differential Range*  -Common Mode Range* -Absolute Max. Voltage*(Differential or Common Mode)	CAT III 70Vrms and +/- 70V(DC + Peak AC @ 1/10 700Vrms and +/- 700V(DC + Peak AC) @ 1/100 700Vrms and +/- 700V(DC + Peak AC) @ 1/10 & 1/100 1000Vrms and +/-1000V(DC + Peak AC) @ 1/10 & 1/100
Output Voltage  - Swing (into 50 kohm load) -Offset (typical) -Noise (typical) - Source Impedance	+/-7V <+/-5m V0.9m Vrms 50 ohm (for using 1 Mohm input system oscilloscope)
CMMR (typical)	-85dB @ 50Hz, -55dB @ 1MHz
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-options 4 x AA cells or 9 VDC 120mA mains adapter (Both included) -Optional- Power Leads Power Leads
Length of BNC Cable	36"
Length of Input Leads	12"
Weight	0.9 lb
Dimensions	8" x 3 1/4" x 1 1/2"

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

- The supplied voltage must be less than 12V and greater than 4.4V, otherwise the probe could be damaged or will not operate properly.
- polarity is "+" inside and "V" outside. For wrong polarity, built-in circuit protects the probe, no danger or damage will occur.
- When the voltage of the cells become too low, the power indicator on the panel will flicker

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