

Powertek

6500V HIGH VOLTAGE DIFFERENTIAL PROBE

- 4 RANGE ATTENUATOR/4 檔衰減選擇。
- 2 POWER SOURCE/2 種電源供應選擇。
- 6500V HIGH POWER INPUT/6500V 高電壓輸入。
- <6.5V LOW BATT. INDICATE/ 電池即將耗盡顯示。
- <5.5V AUTO POWER OFF/ 電力不足自動關機。
- SEPARATING DESIGN, CONVENIENT, DURABLE,
專利分離式設計 (專利第 114205 號), 方便、耐用。
- MEET IEC1010, UL3111, TUV GS, CAT III 6500V。



**50MHz
DP-50**



**100MHz
DP-100**



Powertek**50MHz DP - 50
100MHz DP - 100****6500V HIGH VOLTAGE DIFFERENTIAL PROBE****SPECIFICATIONS**

MODEL	DP-50	DP-100
Differential Voltage DC+ pk AC	6500V	6500V
Bandwidth (50 Ω load -3dB)	50MHz	100MHz
Common Mode Voltage DC+ pk AC	6500V	6500V
Common Mode Voltage RMS CAT II	6500V	6500V
Common Mode Voltage RMS CAT III	6500V	6500V
Attenuation (Switchable)	$\times 100, \times 200, \times 500, \times 1000$	$\times 100, \times 200, \times 500, \times 1000$
Input R (Each input)	27 M $\Omega \pm 1 \%$	27 M $\Omega \pm 1 \%$
Input C (Each input)	2.5 PF $\pm 2 \%$	2.5 PF $\pm 2 \%$
Maximum Operation Voltage (DC+ pk AC)	$\leq \pm 650V$ at $\times 100$ $\leq \pm 1300V$ at $\times 200$ $\leq \pm 3250V$ at $\times 500$ $\leq \pm 6500V$ at $\times 1000$	$\leq \pm 650V$ at $\times 100$ $\leq \pm 1300V$ at $\times 200$ $\leq \pm 3250V$ at $\times 500$ $\leq \pm 6500V$ at $\times 1000$
Common Mode Rejection Ratio (C M R R)	60 Hz : > 10,000 : 1 100 Hz : > 1,000 : 1 1 MHz : > 300 : 1	60 Hz : > 20,000 : 1 100 Hz : > 2,000 : 1 1 MHz : > 600 : 1
Noise (Into 50 Ω load)	≤ 2 m Vrms	≤ 1 m Vrms
Input Impedance (between input)	54 M $\Omega // 1.25$ PF	54 M $\Omega // 1.25$ PF
Accuracy (at 20 ~ 30 $^{\circ}$ C 70 % RH after 20 minutes)	$\leq \pm 2 \%$	$\leq \pm 1.5 \%$
Maximum Output Voltage	$\leq \pm 6.5$ V	$\leq \pm 6.5$ V
POWER SOURCE	① 9V battery ② External 6V ~ 9V DC	① 9V battery ② External 6V ~ 9V DC

WARNING

- Do not use DP-50/100 above 6500V (DC+peak AC) between ground and the input or 6500V (DC+peak AC) between the input lead.
- Do not operate DP-50/100 in wet or damp condition.
- Do not operate DP-50/100 in an explosive atmosphere.
- Do not immerse DP-50/100 in liquids.
- Do not operate DP-50/100 without covers.
- Please change the battery when the " LOW BATT " LED is lighted. At this time DP-50/100 can operate but not guaranteed the accuracy.
- DP-50/100 can not operate if both POWER and LOW BATT LED are not light.

FEATURES

- The DP-50/100 FET input differential probe provides a safe means of measuring circuits with floating potentials up to 6500V (DC+ peak AC) from ground and 6500V (DC+peak AC) differential.
- The DP-50/100 converts the high voltage differential input signal to a low voltage ground referenced signal for display on any Oscilloscope.
- The output BNC of DP-50/100 is calibrated to drive a high impedance (1 M Ω) load.

INSTRUCTION FOR USE

- Connect the output BNC of DP-50/100 to the input BNC of the Oscilloscope by the accessory BNC cable.
- Adjust the vertical offset of the Oscilloscope if necessary.
- Set the select proper range of the DP-50/100 and the V/DIV of the Oscilloscope according to the scale conversion chart.

NOTE: If the voltage of the input signal exceeds the linear range of the setting range. The signal output of the DP-50/100 would not accurately, the wave form display will be cut off.

- Scale conversion chart: The effective V/DIV is the attenuation factor of $\times 100 \sim \times 1000$ multiplied by the scale factor of the Oscilloscope. It will be twice when the 50 Ω load was used. For example, with the range set at $\times .200$, and the scope set to 0.5V/DIV, the effective V/DIV equals 200×0.5 or 100V, when the 50 Ω load was used, it becomes 200V, the power consumption will increase too.

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