# PINTEK 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 ( 50Ω 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 ) | × 100, × 200, × 500, × 1000 | × 100, × 200, × 500, × 1000 |
| Input R ( Each input ) | 27 MΩ ± 1 % | 27 MΩ ± 1 % |
| Input C ( Each input ) | 2.5 PF ± 2 % | 2.5 PF ± 2 % |
| Maximum Operation Voltage ( DC+ pk AC ) | ≤ ± 650V at × 100<br>≤ ± 1300V at × 200<br>≤ ± 3250V at × 500<br>≤ ± 6500V at × 1000 | ≤ ± 650V at × 100<br>≤ ± 1300V at × 200<br>≤ ± 3250V at × 500<br>≤ ± 6500V at × 1000 |
| Common Mode Rejection Ratio ( C M R R ) | 60 Hz : > 10,000 : 1<br>100 Hz : > 1,000 : 1<br>1 MHz : > 300 : 1 | 60 Hz : > 20,000 : 1<br>100 Hz : > 2,000 : 1<br>1 MHz : > 600 : 1 |
| Noise ( Into 50Ω load ) | ≤ 2 m Vrms | ≤ 1 m Vrms |
| Input Impedance ( between input ) | 54 MΩ // 1.25 PF | 54 MΩ // 1.25 PF |
| Accuracy ( at 20 ~ 30 ℃ 70 % RH after 20 minutes ) | ≤ ± 2 % | ≤ ± 1.5 % |
| Maximum Output Voltage | ≤ ± 6.5 V | ≤ ± 6.5 V |
| POWER SOURCE | ① 9V battery<br>② External 6V ~ 9V DC | ① 9V battery<br>② External 6V ~ 9V DC |

## WARNING

1. 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.
2. Do not operate DP-50/100 in wet or damp condition.
3. Do not operate DP-50/100 in an explosive atmosphere.
4. Do not immerse DP-50/100 in liquids.
5. Do not operate DP-50/100 without covers.
6. Please change the battery when the " LOW BATT " LED is lighted. At this time DP-50/100 can operate but not guaranteed the accuracy.
7. DP-50/100 can not operate if both POWER and LOW BATT LED are not light.

## FEATURES

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

## INSTRUCTION FOR USE

1. Connect the output BNC of DP-50/100 to the input BNC of the Oscilloscope by the accessory BNC cable.
2. Adjust the vertical offset of the Oscilloscope if necessary.
3. 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 exceeeds 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.
4. Scale conversion chart: The effective V/DIV is the attenuation factor of × 100 ~ × 1000 multiplied by the scale factor of the Oscilloscope. It will be twice when the 50Ω load was used. For example, with the range set at ×.200, and the scope set to 0.5V/DIV, the effective V/DIV equals 200 × 0.5 or 100V, when the 50Ω load was used, it becomes 200V, the power consumption will increase too.

**SALES AGENT:**