

HIGH VOLTAGE DIFFERENTIAL PROBE 高压差分探头

CE

OIDP-25 1400Vp-p/25MHz

OIDP-50 7000Vp-p/50MHz

OIDP-100 7000Vp-p/100MHz



INSTRUCTION MANUAL 使用说明书

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OIDP-25 / OIDP-50 /OIDP-100

VOLTAGE DERATING CURVE ——— 40

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OIDP-25 / OIDP-50 / OIDP-100 耐压曲线参考图 40

● **Differential Voltage Probe,**

Read the instructions before using the instrument:

1. Must acquire a differential voltage probe & get the best service from instrument.
2. Read carefully the Instruction Manual.
3. Respect the safety precautions.

● **SAFETY PRECAUTIONS**

WARNING: Risk of Electric Shock,

1. Do not use the probe in damp environment or where there is risk of explosion.
2. Do not use the probe with its case open.
3. Disconnect the inputs and outputs of the probe before opening the case.
4. The probes are for indoor use only.

Respect the max input voltages:

OIDP-25:

1. Max differential voltage: 1400V (DC + AC peak) or 450 Vrms
2. Max voltage between each input terminal and ground: 600 Vrms

OIDP-50 & OIDP-100:

1. Max differential voltage: 7000V (DC + AC peak) or 2200 Vrms
2. Max voltage between each input terminal and ground: 6500 Vrms

● **TO ORDER Differential Voltage Probe and Accessories:**

- 1 x An Insulated BNC/BNC lead, length 100cm, BP250
- 1 x Supplied a Adapter preset 9 V DC (230 V)
- 2 x high voltage IC clips, BP266
- 2 x Banana to Banana high voltage plug, BP366
- 2 x Alligator plug, BP276

OIDP-25

High Voltage Differential Probe

OIDP-25 HIGH VOLTAGE DIFFERENTIAL PROBE

1. FEATURES

- The OIDP-25 differential probe provides a safety means for measuring differential voltage to all models of oscilloscopes.
- The OIDP-25 converts the high differential voltage ($\leq 1400V_{\text{peak}}$) into a low voltage ($\leq 7.0V$, with reference to the earth) and display on the oscilloscopes.
- The OIDP-25 is designed to operate with the $1M\Omega$ impedance oscilloscopes. When combine with the 50Ω load, the attenuation will be 2 times.
- We recommend to use OITEK PL-10 with OIDP-25 to expand the measuring with DMM to observe more accurate measurement. The accuracy of oscilloscope is 3% and the DMM is less than 1%.

NOTE: If you connect OIDP-25 to the DMM without PL-10, the accuracy will be higher than 10%.

2. SPECIFICATIONS

(1) Bandwidth:

DC - to 25 MHz (-3 dB) for x 50, or x 200

DC - to 15 MHz (for attenuation x 20)

(2) Attenuation: x 20, x 50, or x 200

(3) Accuracy: $\pm 2\%$

(4) Voltage Input Ranges (DC + AC peak to peak)

$\leq 140 V_{\text{p-p}}$ for x 20, (i.e about 45 Vrms or DC)

$\leq 350 V_{\text{p-p}}$ for x 50, (i.e about 110 Vrms or DC)

$\leq 1400 V_{\text{p-p}}$ for x 200, (i.e about 450 Vrms or DC)

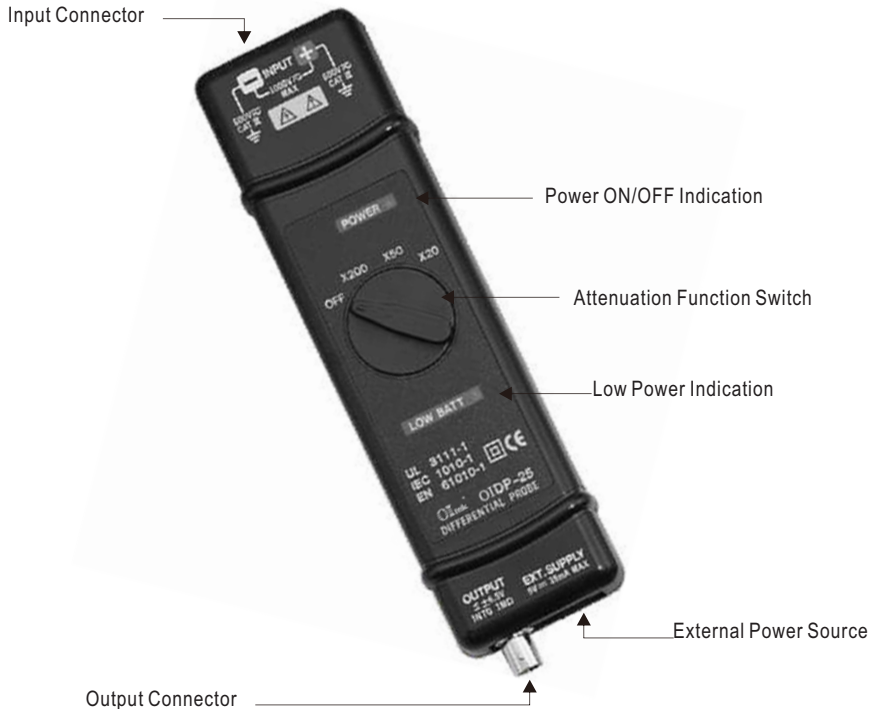
(5) Permitted Max Input Voltage

Max differential voltage: 1400 V (DC + AC peak to peak) or 450Vrms

Max voltage between each input terminal and ground:
600 Vrms

- (6) Input Impedance:
 Differential: $4\text{ M}\Omega / 1.2\text{ pF}$
 Between terminals and ground: $2\text{ M}\Omega / 2.3\text{ pF}$
- (7) Output: $\leq \pm 7.0\text{ V}$
- (8) Output Impedance: $50\ \Omega$
- (9) Rise Time: 14 ns for x 50 , and x 200 ; 23.4 ns for x 20
- (10) Rejection Rate on Common Mode:
 60 Hz: $> 80\text{ dB}$; 100 Hz: $> 60\text{ dB}$; 1 MHz: $> 50\text{ dB}$
- (11) Power Supply: Only External 9 V DC power supply .
- (12) Consumption: 35 mA max (0.4 WATT)

3. PANEL DESCRIPTION



以上内容仅为本文档的试下载部分，为可阅读页数的一半内容。如要下载或阅读全文，请访问：<https://d.book118.com/275133344233011112>