

## HIGH VOLTAGE DIFFERENTIAL PROBE



GDP-025



GDP-050/100



The GDP series probe provide 25 MHz, 50 MHz and 100 MHz bandwidth, enabling users to safely make high-voltage measurements on floating circuit test. GDP series high-voltage differential probe converts floating signals to low-voltage ground-referenced signals that can be displayed safely and easily on any ground-referenced oscilloscope.

The GDP-025/050/100 differential probe offer user selectable attenuation settings that make it highly versatile, allowing it to be used for a broad range of applications. The probe comes with probe tip accessories for use with both small or large components in tight places. The GDP-025/050/100 also provide over-range indicator which alerts the user when the probe input exceeds the dynamic range of the probe.

## GDP-025/050/100

### FEATURES

- 25, 50, 100 MHz Bandwidth
- Up to 7,000 V Differential Voltage (GDP-050/100)
- Up to 1,400 V Differential Voltage (GDP-025)
- Flexible Attenuation Option, Suitable for Various Applications
- Separation Design, Users Can Easily Replace the Probe Connector to Complete a Variety of Test Applications

### APPLICATIONS

- Power Supply Design
- Power Device Evaluation
- Power Converter Design
- Floating Measurements

GDP-025/050/100

**GW INSTEK**  
Simply Reliable

## SPECIFICATIONS

	GDP-025	GDP-050	GDP-100
Probe Bandwidth	DC to 25 MHz (-3 dB)	DC to 50 MHz (-3 dB)	DC to 100 MHz (-3 dB)
Attenuation	x20 ,x50 ,x200	x100 ,x200 ,x500 ,x1000	x100 ,x200 ,x500 ,x1000
Accuracy	±2 %	±2 %	±2 %
Voltage Input Range (DC+AC peak to peak)	≤ 140 Vp-p for x20 (≅48 Vrms or DC) ≤ 350 Vp-p for x50 (≅120 Vrms or DC) ≤ 1400 Vp-p for x200 (≅480 Vrms or DC)	≤ 700 Vp-p for x100 (≅230 Vrms or DC) ≤ 1400 Vp-p for x200 (≅460 Vrms or DC) ≤ 3500 Vp-p for x500 (≅1140 Vrms or DC) ≤ 7000 Vp-p for x1000 (≅2300 Vrms or DC)	≤ 700 Vp-p for x100 (≅230 Vrms or DC) ≤ 1400 Vp-p for x200 (≅460 Vrms or DC) ≤ 3500 Vp-p for x500 (≅1140 Vrms or DC) ≤ 7000 Vp-p for x1000 (≅2300 Vrms or DC)
Permitted Max Input Voltage	Maximum differential voltage: 400 V (DC+AC peak to peak) or 480 Vrms; Max voltage between input terminal and ground: 240 Vrms	Maximum differential voltage: 7000 V (DC+AC peak to peak) or 2300 Vrms; Max voltage between input terminal and ground: 1200 Vrms	Maximum differential voltage: 7000 V (DC+AC peak to peak) or 2300 Vrms; Max voltage between input terminal and ground: 1200 Vrms
Input Impedance	Differential: 4 MΩ / 1.2 pF ; Between terminals and ground: 2 MΩ / 2.3 pF	Differential: 16 MΩ / 1.2 pF ; Between terminals and ground: 8 MΩ / 2.3 pF	Differential: 16 MΩ / 1.2 pF ; Between terminals and ground: 8 MΩ / 2.3 pF
Output	≤ ±7.0 V	≤ ±7.0 V	≤ ±7.0 V
Output impedance	50 Ω	50 Ω	50 Ω
Rise Time	14 ns	7 ns	3.5 ns
Rejection Rate on Common Mode (CMRR)	60 Hz > 80 dB , 100 Hz > 60 dB, 1 MHz > 50 dB	60 Hz > 80 dB , 100 Hz > 60 dB, 1 MHz > 50 dB	60 Hz > 80 dB , 100 Hz > 60 dB, 1 MHz > 50 dB
Power Supply	External 9 VDC power supply	External 9 VDC power supply	External 9 VDC power supply
Consumption	< 300 mA maximum	< 300 mA maximum	< 300 mA maximum

## ORDERING INFORMATION

<b>GDP-025</b>	<b>25 MHz High Voltage Differential Probe</b>
<b>GDP-050</b>	<b>50 MHz High Voltage Differential Probe</b>
<b>GDP-100</b>	<b>100 MHz High Voltage Differential Probe</b>

Global Headquarters

### GOOD WILL INSTRUMENT CO., LTD.

No.7-1, Jhongsing Road, Tucheng Dist., New Taipei City 236, Taiwan  
T +886-2-2268-0389 F +886-2-2268-0639  
E-mail: marketing@goodwill.com.tw

China Subsidiary

### GOOD WILL INSTRUMENT (SUZHOU) CO., LTD.

No. 521, Zhujiang Road, Snd, Suzhou Jiangsu 215011 China  
T +86-512-6661-7177 F +86-512-6661-7277

Malaysia Subsidiary

### GOOD WILL INSTRUMENT (SEA) SDN. BHD.

No. 1-3-18, Elit Avenue, Jalan Mayang Pasir 3,  
11950 Bayan Baru, Penang, Malaysia  
T +604-6111222 F +604-6115225

Europe Subsidiary

### GOOD WILL INSTRUMENT EURO B.V.

De Run 5427A, 5504DG Veldhoven, THE NETHERLANDS  
T +31 (0)40-2557790 F +31 (0)40-2541194

U.S.A. Subsidiary

### INSTEK AMERICA CORP.

5198 Brooks Street Montclair, CA 91763, U.S.A.  
T +1-909-399-3535 F +1-909-399-0819

Japan Subsidiary

### TEXIO TECHNOLOGY CORPORATION.

7F Towa Fudosan Shin Yokohama Bldg., 2-18-13 Shin  
Yokohama, Kohoku-ku, Yokohama, Kanagawa,  
222-0033 Japan  
T +81-45-620-2305 F +81-45-534-7181

Korea Subsidiary

### GOOD WILL INSTRUMENT KOREA CO., LTD.

Room No.503, Gyeonginro 775 (Mullae-Dong 3Ga,  
Ace Hightech-City B/D 1Dong), Yeongduengpo-Gu,  
Seoul 150093, Korea  
T +82-2-3439-2205 F +82-2-3439-2207

India Subsidiary

### GW INSTEK INDIA LLP.

2F, No. 20/1, Salarpuria Galleria Building, Bellary Road,  
Kashi Nagar, Byatarayanapura, Bangalore, Karnataka 560092 India  
T +91-80-4203-3235

# GW INSTEK

Simply Reliable



Website



Facebook



Catalog