

# ACCESSORIES

## Current Probe and Differential Probe Selections



GCP-300/500/1000



GCP-530/1030, GCP-206P/425P



GDP-025



GDP-050/100



GDP-040D (for GDS-300/200 only)

In addition to the standard passive probes, the optional current or differential probes can be used to perform additional tests or power analysis.

The differential probes come in three bandwidths: 25MHz, 50MHz and 100MHz. The current probes come in a broad variety of bandwidth and current ranges (ranging from 50MHz/30A, 100MHz/30A, 300kHz/200A, 500kHz/150A, 1MHz/70A), to cover any number of power supply testing applications.

\* The GCP-530/1030 must be used in conjunction with the GCP-206P/425P current probe power supply.

\* The GCP-206P is capable of powering 2 units of GCP-530 or GCP-1030 and the GCP-425P is capable of powering 4 units.

## CURRENT PROBE

	GCP-300	GCP-500	GCP-530	GCP-1000	GCP-1030
<b>Probe Bandwidth</b>	DC~300kHz	DC~500kHz	DC~50MHz	DC~1MHz	DC~100MHz
<b>Rise Time</b>	1.17μs(Typ.)	0.7μs(Typ.)	7ns or less	0.35 μs (Typ.)	3.5ns or less
<b>Maximum Continuous Input Range</b>	200A(10mV/A) 20A(100mV/A)	150A(20mV/A) 15A(200mV/A)	30Apeak	7A(50mV/A) 70A(500mV/A)	30Apeak
<b>Maximum Peak Current Value</b>	DC : 200A AC : 140Arms	DC : 150A AC : 100Arms	50A	DC : 70A AC : 50Arms	50A
<b>Output Voltage Rate</b>	100mV/A;10mV/A	200mV/A;20mV/A	0.1V/A	500mV/A;50mV/A	0.1V/A
<b>DC Amplitude Accuracy</b>	±3% ±50 mA at 100 mV/A (50 mA ~ 20A peak range) ±4% ±50 mA at 10 mV/A (500 mA ~ 80A peak range) ±15% max at 10 mV/A (80A peak ~ 150A peak range) ±20% max at 10mV/A (150A peak ~ 200A peak range)	±3% ±30 mA at 200 mV/A (30 mA ~ 15 A peak range) ±4% ±30 mA at 20 mV/A (300 mA ~ 80 A peak range) ±15% max at 20 mV/A (80A peak ~ 150A peak range)	±1.0%rdg±1mV (0~30Arms/DC, 45~66Hz);±2.0%rdg (30Arms~50A peak /DC, 45~66Hz)	±3% ±20 mA at 500 mV/A (20 mA ~ 7A peak range) ±4% ±200 mA at 50 mV/A (200 mA ~ 50 A peak range) ±15% max at 50 mV/A (50A peak ~ 70A peak range)	±1.0%rdg±1mV (0~30Arms/DC, 45~66Hz);±2.0%rdg (30Arms~50A peak /DC, 45~66Hz)
<b>Noise</b>	—	—	2.5mArms or less	—	2.5mArms or less
<b>Rate Supply Voltage</b>	—	—	±12V± 0.5V	—	±12V± 0.5V
<b>Maximum Rated Power</b>	—	—	5.6VA	—	5.3VA
<b>Maximum Rated Voltage</b>	CAT III 300V/CAT II 600V	CAT III 600V	300V, CAT I	CAT III 600V	300V, CAT I

## CURRENT PROBE POWER SUPPLY

	GCP-206P	GCP-425P
<b>Compatible Current Probe</b>	GCP-530/GCP-1030	GCP-530/GCP-1030
<b>Number of Power Supply Connectors</b>	2	4
<b>Output Voltage</b>	±12V± 0.5V	±12V± 0.5V
<b>Rated Output Current</b>	±600mA	±2.5A
<b>Rated Supply Voltage(50/60Hz)</b>	110V/120V, 220V/240V AC±10%	100V~240V AC±10%
<b>Maximum Rated Power</b>	20VA	170VA
<b>Dimensions &amp; Weight</b>	73(W)x110(H)x186(D) mm ; Approx.1.1kg	80(W)x119(H)x200(D) mm ; Approx.1.1kg
<b>Accessories</b>	Power cord, fuse	Power cord, fuse

## HIGH-VOLTAGE DIFFERENTIAL PROBE

	GDP-025	GDP-050	GDP-100
<b>Probe Bandwidth</b>	DC ~ 25MHz (attenuation x50, x200) ; DC ~ 15MHz(attenuation x20)	DC ~ 50MHz(attenuation x200, x500, x1000) ; DC ~ 25MHz(attenuation x100)	DC ~ 100MHz(attenuation x200, x500, x1000); DC ~ 50MHz(attenuation x100)
<b>Attenuation</b>	x20 , x50 , x200	x100 , x200 , x500 , x1000	x100 , x200 , x500 , x1000
<b>Accuracy</b>	±2%	±2%	±2%
<b>Voltage Input Range (DC+AC peak to peak)</b>	≤140Vp-p for x 20 , ≤350Vp-p for x 50 , ≤1400Vp-p for x 200	≤ 700Vp-p for x 100 ≤ 1400Vp-p for x 200 ≤ 3500Vp-p for x 500 ≤ 7000Vp-p for x 1000	≤ 700Vp-p for x 100 ≤ 1400Vp-p for x 200 ≤ 3500Vp-p for x 500 ≤ 7000Vp-p for x 1000
<b>Permitted Max Input Voltage</b>	Maximum differential voltage: Max voltage between input terminal and ground: 600Vrms	Maximum differential voltage: Max voltage between input terminal and ground: 6500Vrms	Maximum differential voltage: Max voltage between input terminal and ground: 6500Vrms
<b>Input Impedance</b>	Differential:4MΩ/1.2pF ; Between terminals and ground: 2MΩ/2.3pF	Differential:54MΩ /1.2pF ; Between terminals and ground:27MΩ /2.3pF	Differential: 54MΩ /1.2pF ; Between terminals and ground: 27MΩ /2.3pF
<b>Output</b>	≤ 7.0V	≤ 7.0V	≤ 7.0V
<b>Output impedance</b>	50Ω	50Ω	50Ω
<b>Rise Time</b>	14ns (x50, x200 attenuation) ; 23.4ns (x20 attenuation)	7ns (x200, x500, x1000 attenuation) ; 14ns (x100 attenuation)	3.5ns (x200, x500, x1000 attenuation) ; 7ns (x100 attenuation)
<b>Rejection Rate on Common Mode(CMRR)</b>	60Hz>80dB , 100Hz>60dB, 1MHz>50dB	60Hz>80dB , 100Hz>60dB, 1MHz>50dB	60Hz>80dB , 100Hz>60dB, 1MHz>50dB
<b>Power Supply</b>	External DC adapter	External DC adapter	External DC adapter
<b>Consumption</b>	Maximum 35mA (0.4Watt)	Maximum 35mA (0.4Watt)	Maximum 35mA (0.4Watt)

## DUAL-CHANNEL DIFFERENTIAL PROBE

	GDP-040D
<b>Channel</b>	2
<b>Bandwidth (-3dB)</b>	DC ~ 40MHz (x200)
<b>Attenuation</b>	200 X
<b>Voltage Input Range</b>	600Vpp Max. CAT III
<b>Output</b>	≤ ±3V
<b>Maximum Input Voltage to Earth</b>	600Vpp for x200
<b>Typical CMRR</b>	80dB@60Hz ; 60dB@100Hz ; 50dB@1MHz
<b>Input Impedance</b>	Differential : 2MΩ//1.2pf, Ground 1MΩ//2.4pF
<b>Output Impedance</b>	50Ω
<b>Rise Time</b>	8.75ns for x200
<b>Power Supply</b>	5V DC from GDS-300/200 Series
<b>Accuracy</b>	±2%
<b>Dimension</b>	81.7(H) x 123.0(W) x 28.0(D) mm