

## GDS-2000E Specifications

The specifications apply when the GDS-2000E is powered on for at least 30 minutes under +20°C~+30°C.

Specifications						
	GDS-2072E	GDS-2074E	GDS-2102E	GDS-2104E	GDS-2202E	GDS-2204E
Channels	2ch+Ext	4ch	2ch+Ext	4ch	2ch+Ext	4ch
Bandwidth	DC~70MHz (-3dB)	DC~70MHz (-3dB)	DC~100MHz (-3dB)	DC~100MHz (-3dB)	DC~200MHz (-3dB)	DC~200MHz (-3dB)
Rise time	5ns	5ns	3.5ns	3.5ns	1.75ns	1.75ns
Bandwidth Limit	20MHz	20MHz	20MHz	20MHz	20M/100MHz	20M/100MHz
Vertical Sensitivity						
Resolution	8 bit					
	:1mV~10V/div					
Input Coupling	AC, DC, GND					
Input Impedance	1MΩ// 16pF approx.					
DC Gain Accuracy	±(3%)when 2mV/div or greater is selected ±(5%)when 1mV/div is selected;					
Polarity	Normal & Invert					
Maximum Input Voltage	300Vrms, CAT I					
Offset Position Range	1mV/div ~ 20mV/div : ±0.5V					
	50mV/div ~ 200mV/div : ±5V					
	500mV/div ~ 2V/div : ±25V					
	5V~10V/div : ±250V					
Waveform Signal Process	+, -, ×, ÷, FFT, FFTrms ,User Defined Expression.					
	FFT:1Mpts					
	FFT: Spectral magnitude. Set FFT Vertical Scale to Linear RMS or dBV RMS					
	FFT Window : Rectangular, Hamming , Hanning, Blackman-Harris					
Trigger						
Source	CH1 ,CH2, CH3, CH4, Line, EXT*					
	*EXT only on dual channel models					
Trigger Mode	Auto (supports Roll Mode for 100 ms/div and slower), Normal, Single Sequence					
Trigger Type	Edge, Pulse Width(Glitch), Video, Pulse Runt, Rise & Fall(Slope), Alternate, time out, Event-Delay (~65535 events), Time-Delay (Duration,4nS~10S), Bus					
Hold-off range	4ns~10s					
Coupling	AC,DC,LF rej. ,HF rej. ,Noise rej.					
Sensitivity	1div					
External Trigger (2ch model only)						
Range	±15V					
Sensitivity	DC ~ 100MHz Approx. 100mV					
	100MHz ~ 200MHz Approx. 150mV					
Input Impedance	1MΩ±3%~16pF					

<b>Horizontal</b>	
Time base Range	1ns/div ~ 100s/div (1-2-5 increments) ROLL: 100ms/div ~ 100s/div
Pre-trigger	10 div maximum
Post-trigger	2,000,000 div maximum.
Time base Accuracy	±50 ppm over any ≥ 1 ms time interval
Real Time Sample Rate	Max.:1GSa/s (4ch model) Per channel 1GSa/s (2ch model)
Record Length	Max:10Mpts
Acquisition Mode	Normal, Average, Peak Detect, Single
Peak Detection	2ns (typical)
Average	selectable from 2 to 256
<b>X-Y Mode</b>	
X-Axis Input	Channel 1; Channel 3* *four channel models only
Y-Axis Input	Channel 2; Channel 4* *four channel models only
Phase Shift	±3° at 100kHz
<b>Cursors and Measurement</b>	
Cursors	Amplitude, Time, Gating available Unit: Seconds(s),Hz(1/s) ,Phase(degree) ,Ration(%)
Automatic Measurement	36 sets: Pk-Pk, Max, Min, Amplitude, High, Low, Mean, Cycle Mean, RMS, Cycle RMS, Area, Cycle Area, ROV Shoot, FOV Shoot, RPRE Shoot, FPRE Shoot, Frequency, Period, Rise Time, Fall Time, +Width, -Width, Duty Cycle, +Pulses, -Pulses, +Edges, -Edges, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF, Phase ,Cursor measurements
<b>Control Panel Function</b>	
Auto counter	6 digits, range from 2Hz minimum to the rated bandwidth
Autoset	Single-button, automatic setup of all channels for vertical, horizontal and trigger systems, with undo Autoset
Save Setup	20set
Save Waveform	24set
<b>Display</b>	
TFT LCD Type	8" TFT LCD WVGA color display
Display Resolution	800 horizontal × 480 vertical pixels (WVGA)
Interpolation	Sin(x)/x
Waveform Display	Dots, vectors, variable persistence (16ms~4s), infinite persistence
Waveform Update Rate	120,000 waveforms per second, maximum
Display Graticule	8 x 10 divisions
Display mode	YT ;XY
<b>Interface</b>	
USB Port	USB 2.0 High-speed host port X1, USB High-speed 2.0 device port X1
Ethernet(LAN) Port	RJ-45 connector, 10/100Mbps with HP Auto-MDIX

Go-NoGo BNC	5V Max/10mA TTL open collector output
Kensington Style Lock	Rear-panel security slot connects to standard Kensington-style lock.
Miscellaneous	
Multi-language menu	Available
operation environment	Temperature: 0°C to 50°C. Relative Humidity ≤ 80% at 40°C or below; ≤ 45% at 41°C ~ 50°C.
On-line help	Available
Time clock	Time and Date ,Provide the Date/Time for saved data
Dimensions	384mmX208mmX127.3mm
Weight	2.8kg