

GDS-1000B Specifications

The specifications apply when the GDS-1000B is powered on for at least 30 minutes under +20°C~+30°C.

GDS-1000B Specifications		
GDS-1054B		Channels 4 Bandwidth DC ~ 50MHz (-3dB) Rise Time 5ns Bandwidth Limit 20MHz
GDS-1072B		Channels 2 + Ext Bandwidth DC ~ 70MHz (-3dB) Rise Time 5ns Bandwidth Limit 20MHz
GDS-1074B		Channels 4 Bandwidth DC ~ 70MHz (-3dB) Rise Time 5ns Bandwidth Limit 20MHz
GDS-1102B		Channels 2 + Ext Bandwidth DC ~ 100MHz (-3dB) Rise Time 3.5ns Bandwidth Limit 20MHz
GDS-1104B		Channels 4 Bandwidth DC ~ 100MHz (-3dB) Rise Time 3.5ns Bandwidth Limit 20MHz
Vertical	Vertical Sensitivity Resolution	8 bit :1mV~10V/div
	Input Coupling	AC, DC, GND
	Input Impedance	1MΩ// 16pF approx.
	DC Gain Accuracy*	±3%
	Polarity	Normal & Invert
	Maximum Input Voltage	300Vrms, CAT I (300Vrms CAT II with GTP-070B- 4/100B-4 10:1 probe)
	Offset Position Range	1mV/div : ±1.25V 2mV/div ~ 100mV/div : ±2.5V 200mV/div ~ 10V/div : ±125V
	Waveform Signal Process	Plus, -, ×, ÷, FFT, FFTrms, User Defined Expression FFT: Spectral magnitude. Set FFT Vertical Scale to Linear RMS or dBV RMS, and FFT Window to Rectangular, Hamming, Hanning, or Blackman-Harris
Trigger	Source	CH1, CH2, CH3*, CH4*, Line, EXT** *four channel models only. **two channel models only.
	Trigger Mode	Auto (supports Roll Mode for 100 ms/div and slower), Normal, Single Sequence
	Trigger Type	Edge, Pulse Width, Video, Pulse Runt, Rise & Fall,

		Timeout, Alternate, Event-Delay(1~65535 events), Time-Delay(Duration, 4nS~10S)	
	Holdoff range	4ns to 10s	
	Coupling	AC, DC, LF rej., Hf rej., Noise rej.	
	Sensitivity	1div	
External Trigger	Range	±15V	
	Sensitivity	DC ~ 100MHz Approx. 100mV 100MHz ~ 200MHz Approx. 150mV	
	Input Impedance	1MΩ±3%~16pF	
Horizontal	Time base Range	5ns/div ~ 100s/div (1-2-5 increments)	
	ROLL:	100ms/div ~ 100s/div	
	Pre-trigger	10 div maximum	
	Post-trigger	2,000,000 div maximum	
	Timebase Accuracy	±50 ppm over any ≥ 1 ms time interval	
	Real Time Sample Rate	1GSa/s max.	
	Record Length	Max. 10Mpts	
	Acquisition Mode	Normal, Average, Peak Detect, Single	
	Peak Detection	2nS (typical)	
	Average	selectable from 2 to 256	
	X-Y Mode	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	
Cursors and Measurement	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, ROVShoot, FOVShoot, RPRESshoot, FPRESshoot, Frequency, Period, RiseTime, FallTime, +Width, -Width, Duty Cycle, +Pulses, -Pulses, +Edges, -Edges, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF, Phase	
	Cursors measurement	Voltage difference between cursors (ΔV) Time difference between cursors (ΔT)	
	Auto counter	6 digits, range from 2Hz minimum to the rated bandwidth	
Control Panel Function	Autoset	Single-button, automatic setup of all channels for vertical, horizontal and trigger systems, with undo Autoset	
	Save Setup	20set	

	Save Waveform	24set
Display	TFT LCD Type	7" TFT 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	50,000 waveforms per second, maximum
	Display Graticule	8 x 10 divisions
	Display Mode	YT, XY
	Interface	USB Port
Ethernet Port(LAN)		RJ-45 connector, 10/100Mbps with HP Auto-MDIX (Only for the GDS-1054B, GDS-1074B, GDS-1104B.)
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
	Dimensions	380mmX208mmX127.3mm
	Weight	2.8kg