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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) Calculated Rise Time 7ns Bandwidth Limit 20MHz
GDS-1072B		Channels 2 + Ext Bandwidth DC ~ 70MHz (–3dB) Calculated Rise Time 5ns Bandwidth Limit 20MHz
GDS-1074B		Channels 4 Bandwidth DC ~ 70MHz (–3dB) Calculated Rise Time 5ns Bandwidth Limit 20MHz
GDS-1102B		Channels 2 + Ext Bandwidth DC ~ 100MHz (–3dB) Calculated Rise Time 3.5ns Bandwidth Limit 20MHz
GDS-1104B		Channels 4 Bandwidth DC ~ 100MHz (–3dB) Calculated Rise Time 3.5ns Bandwidth Limit 20MHz
GDS-1202B		Channels 2 + Ext Bandwidth DC ~ 200MHz (–3dB) Calculated Rise Time 1.75ns 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	±2.5V
	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 Sampling 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, RPREShoot, FPREShoot, 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**	USB 2.0 High-speed host port X1, USB High-speed 2.0 device port X1
	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