



The brand new GDS-1000B Series digital storage oscilloscopes equip with 100MHz, 70MHz and 50MHz bandwidth, 2 or 4 analog input channels (50MHz, 4 channels input only) that provide entry level users with diversified selections. The maximum real time sampling rate can be up to 1GSa/s. The robust functional performance makes the economical oscilloscope more colorful and allows entry level users to sumptuously enjoy the fun and value brought by test and measurement which is precisely the emerging mission of the test and measurement industry that GW Instek works relentlessly to achieve.

10M memory depth for each channel yields exquisite measurement results and allows each retrieved waveform to successfully reveal the details of signal. Engineers are often baffled by failing to retrieve signal details when measuring basic electric circuit signals. Now, GDS-1000B series oscilloscopes, with 10M memory depth for each channel, are capable to uncover all signal details.

7" 800 x 480 WVGA LCD display and the 256 color gradient display function together allow the GDS-1000B Series to distinctly display waveform details in gradients while measuring fast changing analog signals. Additionally, 50,000wfms/s waveform update rate helps engineers clearly understand the gradients of signal variations and easily identify the problem of transient signal variations.

1Mpts FFT signal display makes the frequency domain display function more delicate. Engineers can clearly observe the distributed details of frequency domain signals. Smooth and rapid response can even better locate where the problems are originated. Powerful FFT function realizes high efficient spectrum analysis measurement which is indispensable for technology and education arenas.

The GDS-1000B Series oscilloscopes provide the zero key function for vertical voltage scale adjustment, horizontal time scale adjustment and trigger level adjustment. When processing complicate waveform adjustment and observation, engineers often require the zero key function to start a new measurement, adjust waveform or reset trigger level. The zero key function can reduce time in turning control knobs that is a great benefit for engineers.

GDS-1000B Series

FEATURES

- 100/70/50MHz Bandwidth Selections, 2ch or 4ch Input
- 1GSa/s Maximum Sampling Rate
- 10M Maximum Memory Depth For Each Channel
- 7" 800 x 480 WVGA LCD Display
- 256 Color Gradient Display Function to Strengthen Waveform Performance
- 1Mpts FFT Frequency Domain Signal Display
- Zero Key Function For Horizontal Time, Vertical Voltage and Triggering
- Compact And Innovative Exterior Design



Front



Rear Panel

APPLICATIONS

- Educational Market - General Purpose Instruction
- Industrial Sector - Fundamental R&D Measurement Applications

SPECIFICATIONS

		GDS-1054B	GDS-1072B	GDS-1074B	GDS-1102B	GDS-1104B
VERTICAL	Channels	4	2 + Ext	4	2 + Ext	4
	Bandwidth	DC~50MHz(-3dB)	DC~70MHz(-3dB)	DC~70MHz(-3dB)	DC~100MHz(-3dB)	DC~100MHz(-3dB)
VERTICAL	Rise Time	7ns	5ns	5ns	3.5ns	3.5ns
	Bandwidth Limit	20MHz	20MHz	20MHz	20MHz	20MHz
VERTICAL	Vertical Sensitivity Resolution	8 bit : 1mV~10V/div				
	Input Coupling	AC, DC, GND				
VERTICAL	Input Impedance	1M Ω // 16pF approx.				
	DC Gain Accuracy*	±3%				
VERTICAL	Polarity	Normal & Invert				
	Maximum Input Voltage	300Vrms, CAT I (300Vrms CAT II with GTP-070B-4/100B-4 10:1 probe)				
VERTICAL	Offset Position Range	1mV/div : ±1.25V ; 2mV/div ~ 100mV/div : ±2.5V ; 200mV/div ~ 10V/div : ±125V				
	Waveform Signal Process	+ , - , x , ÷ , FFT, FFTrms, User Defined Expression ; FFT: 1Mpts; FFT: Spectral magnitude. Set FFT Vertical Scale to Linear RMS or dBV RMS ; FFT Window Display : 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	Trigger Type	Edge, Pulse Width, Video, Pulse Runt, Rise & Fall, Timeout, Alternate, Event-Delay(1~65535 events), Time-Delay (Duration, 4ns~10S), Bus				
	Holdoff range	4ns to 10s				
TRIGGER	Coupling	AC, DC, LF rej., HF rej., Noise rej.				
	Sensitivity	1div				
EXTERNAL TRIGGER	Range	±15V				
	Sensitivity	DC ~ 100MHz Approx. 100mV ; 100MHz ~ 200MHz Approx. 150mV				
EXTERNAL TRIGGER	Input Impedance	1M Ω ±3%~16pF				
	Time base Range	5ns/div ~ 100s/div (1-2-5 increments)				
HORIZONTAL	ROLL	100ms/div ~ 100s/div				
	Pre-trigger	10 div maximum				
HORIZONTAL	Post-trigger	2,000,000 div maximum				
	Timebase Accuracy	±50 ppm over any ≥1 ms time interval				
HORIZONTAL	Real Time Sample Rate	1GSa/s max.				
	Record Length	Max. 10Mpts				
HORIZONTAL	Acquisition Mode	Normal, Average, Peak Detect, Single				
	Peak Detection	2nS (typical)				
HORIZONTAL	Average	selectable from 2 to 256				
	X-Axis Input	Channel 1; Channel 3*(*four channel models only)				
X-Y MODE	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, +Width, -Width, Duty Cycle, +Pulses, -Pulses, +Edges, -Edges, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF, Phase				
CURSORS AND MEASUREMENT	Cursors Measurement	Voltage difference between cursors (Δ V) Time ; difference between cursors (Δ T)				
	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				
CONTROL PANEL FUNCTION	Save Waveform	24set				
	TFT LCD Type	7" TFT WVGA color display				
DISPLAY	Display Resolution	800 horizontal x 480 vertical pixels (WVGA)				
	Interpolation	Sin(x)/x				
DISPLAY	Waveform Display	Dots, vectors, variable persistence (16ms~4s), infinite persistence				
	Waveform Update Rate	50,000 waveforms per second, maximum				
DISPLAY	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-1074B, GDS-1104B.)				
INTERFACE	Go-NoGo BNC	5V Max/10mA TTL open collector output				
	Kensington Style Lock	Rear-panel security slot connects to standard kensington-style lock				
POWER SOURCE		AC 100V ~ 240V , 50Hz ~ 60Hz , Auto selection , Power consumption: 30 Watts				
MISCELLANEOUS	Multi-Language Menu	Available				
	Operation Environment	Temperature : 0°C ~ 50°C. Relative Humidity ≤ 80% at 40°C or below ; ≤ 45% at 41°C ~ 50°C				
MISCELLANEOUS	Online Help	Available				
	DIMENSIONS & WEIGHT	380(W) x 208 (H) x 127.3(D)mm, Approx. 2.8kg				

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

Specifications subject to change without notice. DS-1000BGD1DH

ORDERING INFORMATION

GDS-1104B	100MHz, 4 channels, Digital Storage Oscilloscope
GDS-1102B	100MHz, 2 channels, Digital Storage Oscilloscope
GDS-1074B	70MHz, 4 channels, Digital Storage Oscilloscope
GDS-1072B	70MHz, 2 channels, Digital Storage Oscilloscope
GDS-1054B	50MHz, 4 channels, Digital Storage Oscilloscope

ACCESSORIES

User manual x1, Power cord x1
GTP-100B-4 100MHz Passive Probe. Suitable for GDS-1104B, GDS-1102B
GTP-070B-4 70MHz Passive Probe. Suitable for GDS-1074B, GDS-1072B, GDS-1054B

OPTIONAL ASSESSORIES

GDB-03	Demo Board
GTL-110	Test lead, BNC to BNC heads
GTL-246	USB cable, USB 2.0 A-B type cable 4P, 1200mm

FREE DOWNLOAD

Software	OpenWave Software
Driver	USB Driver ; LabView Driver

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