200/100/70/50 MHz DIGITAL STORAGE OSCILLOSCOPE



The GDS-1000B Series digital storage oscilloscopes equip with 200/100/70 MHz : 2 Channel models; 100/70/50 MHz : 4 Channel models, 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. 1 Mpts 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 provides serial bus analysis function with 10M long memory depth. Users can trigger, decode, and analyze frequently used I²C, SPI and UART serial bus and CAN/LIN bus, which is often used by automotive communications.

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/R Series

FEATURES

- 200/100/70/50 MHz : 2 Channel models ; 100/70/50 MHz : 4 Channel models
- 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
- I²C/SPI/UART/CAN/LIN Serial Bus Trigger and Decoding Functions
- 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



GDS-1000B Series

SPECIFICATIONS							
		GDS-1054B	GDS-1072B	GDS-1074B	GDS-1102B	GDS-1104B	GDS-1202B
VERTICAL	Channels Bandwidth Calculated Rise Time Bandwidth Limit	4 DC~50MHz(-3dB) 7ns 20MHz	2 + Ext DC~70MHz(-3dB) 5ns 20MHz	4 DC~70MHz(-3dB) 5ns 20MHz	2 + Ext DC~100MHz(-3dB) 3.5ns 20MHz	4 DC~100MHz(-3dB) 3.5ns 20MHz	2 + Ext DC~200MHz(-3dB) 1.75ns 20MHz
	Vertical Sensitivity Resolution Input Coupling Input Impedance DC Gain Accuracy* Polarity Maximum Input Voltage Offset Position Range Waveform Signal Process	AC, DC, GND 1MΩ// 16pF approx. ; GDS-1202B : 1MΩ// 14pF approx. ±3% Normal & Invert 300Vrms, CAT I (300Vrms CAT II with GTP-070B- 4/100B-4, 200B-4 10:1 probe) 1mV/div : ±1.25V ; 2mV/div ~ 100mV/div : ±2.5V ; 200mV/div ~ 10V/div : ±125V					
TRIGGER	Source Trigger Mode Trigger Type Holdoff range Coupling Sensitivity	CH1, CH2, CH3*, CH4*, Line, EXT**; *four channel models only.; **two channel models only Auto (supports Roll Mode for 100 ms/div and slower), Normal, Single Sequence Edge, Pulse Width, Video, Pulse Runt, Rise & Fall, Timeout, Alternate, Event-Delay(1~65535 events), Time-Delay(Duration, 4nS~10S) 4ns to 10s AC, DC, LF rej., Hf rej., Noise rej. 1div					
EXTERNAL TRIGGER	Range Sensitivity Input Impedance	±2.5V DC ~ 100MHz Approx. 100mV ; 100MHz ~ 200MHz Approx. 150mV 1MΩ±3%~16pF					
HORIZONTAL	Time base Range ROLL Pre-trigger Post-trigger Timebase Accuracy Real Time Sample Rate Record Length Acquisition Mode Peak Detection Average	Sns/div ~ 100s/div (1-2-5 increments) 100ms/div ~ 100s/div 10 div maximum 2,000,000 div maximum ±50 ppm over any ≥1 ms time interval 1GSa/s max. Max. 10Mpts Normal, Average, Peak Detect, Single 2nS (typical) selectable from 2 to 256					
X-Y MODE	X-Axis Input Y-Axis Input Phase Shift	Channel 1; Channel 3*(*four channel models only) Channel 2; Channel 4*(*four channel models only) ±3° at 100kHz					
CURSORS AND MEASUREMENT	Cursors Automatic Measurement Cursors Measurement Auto Counter	 Amplitude, Time, Gating available; Unit : Seconds(s), Hz(1/s), Phase(degree), Ration(%) 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, FRR, FRF, FFR, FFF, LRR, LFF, LFF, Phase Voltage difference between cursors (△V) Time ; difference between cursors (△T) 6 digits, range from 2Hz minimum to the rated bandwidth 					
CONTROL PANEL FUNCTION	Autoset Save Setup Save Waveform	Single-button, automatic setup of all channels for vertical, horizontal and trigger systems, with undo Autoset 20set 24set					
DISPLAY	TFT LCD Type Display Resolution Interpolation Waveform Display Waveform Update Rate Display Graticule Display Mode	7" TFT WVGA color display 800 horizontal × 480 vertical pixels (WVGA) Sin(x)/x Dots, vectors, variable persistence (16ms-4s), infinite persistence 50,000 waveforms per second, maximum 8 x 10 divisions YT, XY					
INTERFACE	USB Port Ethernet Port(LAN) Go-NoGo BNC Kensington Style Lock	USB 2.0 High-speed host port x1, USB High-speed 2.0 device port x1 RJ-45 connector, 10/100Mbps with HP Auto-MDIX (Only for 4 channel models.) 5V Max/10mA TTL open collector output Rear-panel security slot connects to standard kensington-style lock					
POWER SOURCE MISCELLANEOUS	Multi-Language Menu Operation Environment Online Help	AC 100V ~ 240V , 50Hz ~ 60Hz , Auto selection , Power consumption: 30 Watts Available Temperature : 0°C ~ 50°C. Relative Humidity ≤ 80% at 40°C or below; ≤ 45% at 41°C ~ 50°C Available					
DIMENSIONS & WEIGHT	380(W) × 208 (H) × 127.	· · · · · ·	0	200	Constituent in the		DC 10000 0000
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-1000BGE ORDERING INFORMATION OPTIONAL ASSESSORIES							DS-1000BGD2DF
GDS-1202B 200MHz, 2 channels, Digital Storage Oscilloscope GR-426 Rack Adapter Panel (2 input channel) GDS-1104B 100MHz, 4 channels, Digital Storage Oscilloscope GSC-008 Soft Impedance Adapter (2 input channel) GDS-1102B 100MHz, 2 channels, Digital Storage Oscilloscope GSC-008 Soft Impedance Adapter (2 input channel) GDS-1074B 70MHz, 4 channels, Digital Storage Oscilloscope GCP-300 300kHz/200A Current probe GCP-026P Power supply for current GDS-1074B 70MHz, 2 channels, Digital Storage Oscilloscope GCP-300 300kHz/200A Current probe GCP-025 25MHz High voltage differ GDS-1054B 50MHz, 4 channels, Digital Storage Oscilloscope GCP-500 50MHz/30A Current probe GDP-025 25MHz High voltage differ ACCESSORIES GDP-050 50MHz/30A Current probe GDP-050 50MHz High voltage differ							channel) upply for current probe channel) cope Probe, 35MHz ive Probe, BNC(P/M) igh voltage differential probe igh voltage differential probe
User manual CD x 1, Power cord x 1 GCP-1000 1MHz/70A Current probe							

User manual CD x 1, Power cord x 1 GTP-070B-4 : 70MHz(10:1/1:1) Switchable passive probe for GDS-1074B,GDS-1072B,GDS-1054B(one per channel) GTP-100B-4 : 100MHz(10:1/1:1) Switchable passive probe for GDS-1104B, GDS-1102B(one per channel) GTP-200B-4 : 200MHz(10:1/1:1) Switchable passive probe for GDS-1202B(one per channel)

Global Headquarters GOOD WILL INSTRUMENT CO., LTD. T +886-2-2268-0389 F +886-2-2268-0639

China Subsidiary

GOOD WILL INSTRUMENT (SUZHOU) CO., LTD. T +86-512-6661-7177 F +86-512-6661-7277

Malaysia Subsidiary GOOD WILL INSTRUMENT (SEA) SDN. BHD. T +604-6111122 F +604-6115225

Europe Subsidiary GOOD WILL INSTRUMENT EURO B.V. T +31(0)40-2557790 F +31(0)40-2541194

U.S.A. Subsidiary INSTEK AMERICA CORP. T +1-909-399-3535 F +1-909-399-0819

Japan Subsidiary TEXIO TECHNOLOGY CORPORATION. T +81-45-620-2305 F +81-45-534-7181

FREE DOWNLOAD

Software

OpenWave Software

Korea Subsidiary **GOOD WILL INSTRUMENT KOREA CO., LTD.** T +82-2-3439-2205 F +82-2-3439-2207

India Subsidiary GW INSTEK INDIA LLP. T +91-80-6811-0600 F +91-80-6811-0626



USB Driver ; LabView Driver

Simply Reliable

Need to get repairs/service?

service@szmatrix.com 0086 755 2836 4276

Driver