GDS-1000A Series

150MHz/100MHz/60MHz DIGITAL STORAGE OSCILLOSCOPE

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CE USB SD Card PC Software Labview Driver

GDS-1000A Series is a general purpose 2-channel oscilloscope and originally designed to meet educational and industrial requirements without specializing in DSO features. This series provides three selective bandwidths of 60MHz, 100MHz and 150MHz together with innovative human machine interface design plus an TFT color LCD display, users will enjoy better measurement experience!

GDS-1000A series offers dual sampling mode, giving users two options for 1GSa/s Real-Time sampling or 25GSa/s high-speed Equivalent sampling rate. What's more, with high-speed wave handling capability, more advanced triggering functions, and 2.5 kg light-weight design, it is a powerful functional oscilloscope with the best price than ever. Ultimately, GDS-1000A series is considered for the replacement of analog oscilloscope and further promoted as a personal DSO affordable to any situation such as each student in educational labs, service technicians, or industrial field needing big quantity.

Besides, the requirement of measuring data exchange and analysis is intergraded into the GDS-1000A series. The convenient PC standard interface is also available, such as USB interface and SD card socket. This two build-in standard interface capability enable the performance of remote control or data transferring to a desktop/laptop for documenting purpose and enhance your work efficiency.

Easy to use

Several acquisition mode and 27 auto measurement functions help user to measure the accurate property of waveforms. The advanced auto-set function makes GDS-1000A Series catch waveform automatically and display waveform quickly. With arithmetic functions, FFT function keeps user being aware of the results by updating value immediately. Without almost extra-calculation GDS-1000A series can provide sufficient information of testing.

SD Card & USB Device supported

A total of 15 waveforms could be saved into the internal memory for later recall and display, and 2 saved reference waveforms plus 2 live waveforms could be shown on the screen at the same time for comparison. SD card mass storage and USB device port are supported, providing storage/transfer of measurement data and remote control for diversified solutions.

FEATURES

- 150/100/60 MHz Bandwidths
- Sample Rates up to 1 GSa/s Real-Time Maximum, 25Gsa/s Equivalent-Time
- 2M Points Record Length Maximum
- 2mV~10V Vertical Scale
- 1ns~50s Horizontal Range
- TFT LCD Display Panel
- Up to 27 Automatic Measurements
- Up to 10ns Peak Detection for Glitch Capture
- Advanced Video, Pulse Width Trigger
- Cursor Tracking
- Versatile Math Functions + ,– , X , FFT , FFTrms
- SD Card Supported
- On-Line Help and Multi-Language Operating Supported

GDB-02 Oscilloscope Education and Training Kit



APPLICATIONS

- Laboratories and Educational Facilities
- Product Testing and Quality Assurance
- Service Operation and Post-Sales Support
- Product Development and Debugging

GW INSTEK
Made to Measure Since 1975

SPECIFICATIONS

		GDS-1062A	GDS-1102A	GDS-1152A
VERTICAL	Channels	2	2	2
	Bandwidth	DC~60MHz(-3dB)	DC~100MHz(-3dB)	DC~150MHz(-3dB)
	Rise Time	<5.8ns Approx.	<3.5ns Approx.	<2.3ns Approx.
	Sensitivity	2mV/div ~ 10V/div (1-2-5 increments)		
	Accuracy	± (3% x |Readout| + 0.1 div + 1mV)		
	Input Coupling	AC, DC & Ground		
	Input Impedance	1MΩ± 2%, ~15pF		
	Polarity	Normal & Invert		
	Maximum Input	300V (DC+AC peak), CATII		
	Waveform Signal Process	+ , — , X, FFT, FFTrms		
	Offset Range	2mV/div ~ 50mV/div : ±0.4V ; 10mV/div ~ 500mV/div : ±4V ; 1V/div ~ 10V/div : ±40V		
	Bandwidth Limit	20MHz (- 3dB)		
TRIGGER	Sources	CH1 , CH2 , Line , EXT		
	Modes	AUTO, NORMAL, SINGLE, TV, Edge, Pulse width		
	Coupling	AC , DC , LF rej. , HF rej. , Noise rej.		
	Sensitivity	DC ~ 25MHz: Approx. 0.5div or 5mV; 25MHz ~ 60/100/150MHz: Approx. 1.5div or 15mV		
EXT TRIGGER	Range	±15V		
	Sensitivity	DC ~ 25MHz : ~ 50mV ; 25M ~ 60/100/150MHz : ~100mV		
	Input Impedance	1MΩ ±2% , ~ 15pF		
	Maximum Input	300V (DC＋AC peak) , CATII		
HORIZONTAL	Range	1ns/div ~ 50s/div (1-2-5 increments); ROLL : 250ms/div ~ 50s/div		
	Modes	MAIN, WINDOW, WINDOW ZOOM, ROLL, X-Y		
	Accuracy	±0.01%		
	Pre-Trigger	10 div maximum		
	Post-Trigger	1000 div		
X-Y MODE	X-Axis Input	Channel 1		
	Y-Axis Input	Channel 2		
	Phase Shift	±3°at 100kHz		
SIGNAL ACQUISITION	Real-Time Sample Rate	1GSa/s maximum		
	Equivalent Sample Rate	25GSa/s maximum		
	Vertical Resolution	8 Bits		
	Record Length	2M Points maximum		
	Acquisition Mode	Normal, Peak Detect, Average		
	Peak Detection	10ns(500ns/div ~ 50s/div)		
	Average	2 , 4 , 8 , 16 , 32 , 64 , 128 , 256		
CURSORS AND MEASUREMENT	Voltage Measurement	V_{pp} , V_{amp} , V_{avg} , V_{rms} , V_{hi} , V_{lo} , V_{max} , V_{min} , Rise Preshoot/Overshoot, Fall Preshoot/Overshoot		
	Time Measurement	Freq , Period , Rise Time , Fall Time , Positive Width , Negative Width , Duty Cycle		
	Delay Measurement	Eight different delay measurement		
	Cursors Measurement	Voltage difference between cursors (ΔV) Time difference between cursors (ΔT)		
	Auto Counter	Resolution : 6 digits Accuracy : ±2% Signal Source: All available trigger source except the Video trigger mode		
ADJUSTABLE PROBE COMPENSATION SIGNAL	Frequency Range	1kHz ~ 100kHz, 1kHz/STEP		
	Duty Cycle Range	5% ~ 95%, 5%/STEP		
CONTROL PANEL FUNCTION	Autoset	Adjust Vertical VOLT/DIV, Horizontal TIME/DIV, and Trigger level automatically		
	Save Setup	Up to 15 sets of measurement conditions		
	Save Waveform	15 sets of waveform		
DISPLAY	TFT LCD Type	5.6 inch		
	Display Resolution	234 (Vertically) x 320 (Horizontally) Dots		
	Display Graticule	8 x 10 divisions		
	Display Brightness	Adjustable		
INTERFACE	USB Device	USB1.1 & 2.0 full speed compatible (printers and flash disk not supported)		
	SD Card Slot	Image (BMP) waveform data (CSV) and setup (SET)		
POWER SOURCE	Line Voltage Range	AC 100V ~ 240V , 48Hz ~ 63Hz , Auto selection		
MISCELLANEOUS	Multi-Language Menu	Available		
	Online Help	Available		
DIMENSIONS & WEIGHT	310(W) x 142 (H) x 140(D)mm, Approx. 2.5kg			

Specifications subject to change without notice. DS-1000AGD1DH

ORDERING INFORMATION

GDS-1062A 60MHz, 2 channel, 1GSa/s & 2M Memory DSO
GDS-1102A 100MHz, 2 channel, 1GSa/s & 2M Memory DSO
GDS-1152A 150MHz, 2 channel, 1GSa/s & 2M Memory DSO

ACCESSORIES

User manual x1, Power cord x1
Probe GTP-060A-4 or equivalent : 60MHz (10:1/ 1:1) Switchable passive probe for GDS-1062A (one per channel)
Probe GTP-100A-4 or equivalent : 100MHz (10:1/ 1:1) Switchable passive probe for GDS-1102A (one per channel)
Probe GTP-150A-2 or equivalent : 150MHz (10:1/ 1:1) Switchable passive probe for GDS-1152A (one per channel)

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