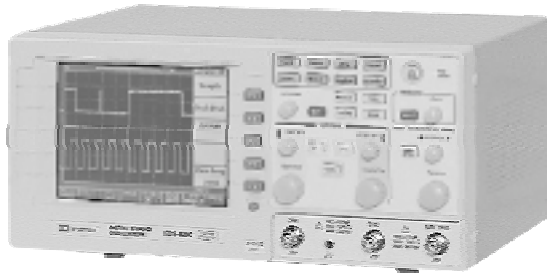


Digital Storage Oscilloscope



GDS-820,GDS-820S,GDS-820C GDS-840S,GDS-840C

Features

- 150MHz/250MHz Bandwidth With Either Color or Monochrome LCD Display
- 125K Long Memory and 12 Division Horizontal Display
- 25GS/s Sampling Rate for Repetitive Waveforms
- Advanced Trigger : Pulse Width , TV Line, Event Delay and Time Delay
- Go-No Go, Learn Mode and Auto Setup Sequence
- 15 Automatic Measurements
- FFT Function
- Built-In Help Menu, Multi-Language and PC Software
- Standard Interface: USB, RS-232C, Printer Port, Option: GPIB

New Bench-Mark of Mainstream DSO

GDS-820/GDS-840 series DSO, at 150MHz/ 250MHz bandwidth with color or Mono LCD display, are designed and built to meet the demands of a modern DSO in the main stream market today. The unmatched performance, user-friendly design and versatile interface make GDS-820/840 a very useful equipment for most of the applications in various fields.

Superior DSO Performance

With Equivalent Time Sampling Technique, GDS-820/840 series perform up to 25G S/s sampling capability and provide high resolution of 40ps for repetitive waveforms. Comparing with 1GS/s and 2GS/s sampling DSOs, GDS-820/840 gives higher or equal sampling rate and longer record length of a transient signal at the same time-base because of its 125K long memory. Furthermore, this series offer an alternative to view the signal with 12 horizontal divisions, which matches long memory applications! GDS-820/840 advanced trigger functions, such as Pulse Width, TV Line, Event-Delay, and Time-Delay, offer a very strong trigger capability that could only be found in a high-end DSO!

Valued Plus Features

The FFT function converts a captured waveform from time domain into frequency domain. The Go-No Go function gives an instant view of the performance of a

DUT or provides an easy way to baby-sit the abnormal event of a signal. The Learn Mode and Auto Setup Sequence function let the user complete his ATE test procedures without software programming. With almost everything you could expect from a DSO, GDS-820/840 provides you with the best solution for waveform measurements at a surprisingly affordable price.

User-friendly Design

The straightforward operation of GDS-820/840 lets the user get started with DSO measurements right after the power-on! The Auto-Set function enables the DSO to automatically adjust the set-up and display the waveform in a proper way! The on-screen Help Menu tells you the operation information you need. Besides, 15 auto measurement functions of GDS-820/840 give you direct readouts of most of the frequently measured parameters!

Versatile Interface

GDS-820/840 series (except GDS-820) provide various kinds of interface including USB,RS-232C and Printer Port as standard, and GPIB as optional. With USB and software, you can quickly send the signal from DSO to PC within a very short time. This enables the nearly synchronous waveform displays on both the DSO and the PC screen.

Applications

- * Education Lab and Training Institution
- * Production Test and Quality Inspection
- * Repair and After-Service
- * Circuit Design and Debug

150MHz



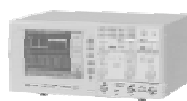
GDS-820

Mono Display W/O Interface



GDS-820S

Mono Display



GDS-820C

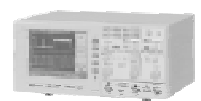
Color Display

250MHz



GDS-840S

Mono Display



GDS-840C

Color Display

GDS-800Series

GW INSTEK®

Specifications

		GDS-820	GDS-820S	GDS-820C	GDS-840S	GDS-840C
DISPLAY SYSTEM	Display Device	Mono (320*240) 5.7 inch LCD	Mono (320*240) 5.7 inch LCD	Color (320*240) 5.7 inch LCD	Mono (320*240) 5.7 inch LCD	Color (320*240) 5.7 inch LCD
	Display Contrast Waveform Display Graticule Display Mode	Adjustable 8x 10 divisions (8 x 12 div, when menu off) Dot, Vector, Accumulate				
VERTICAL SYSTEM	Bandwidth	150MHz(-3dB)			250MHz(-3dB)	
	Channels	2				
	Vertical Resolution	8-Bit				
	Vertical Sensitivity	2mV/div ~ 5V/div				
VERTICAL SYSTEM	Vertical Accuracy	± 3%				
	Rise Time	< 2.3ns			< 1.4ns	
	Input Coupling	AC · DC · Ground				
	Input Impedance	1MΩ ± 2%, ~22pF				
VERTICAL SYSTEM	Polarity	Positive & Negative				
	Maximum Voltage Between Signal & Common at Input BNC	300V (DC+AC peak) · CATII				
	Waveform Signal Process	CH1+CH2 · CH1-CH2 · FFT				
	Offset Range	2mV/div ~ 50mV/div : ±0.5V; 100mV/div ~ 500mV/div : ±5V; 1V/div ~ 5V/div : ±50V				
VERTICAL SYSTEM	BW Limit	20MHz (-3dB)				
	Time Base Range	1ns/div to 10s/div				
HORIZONTAL SYSTEM	Time Base Mode	Main · Window · Window Zoom · Roll · X-Y				
	Time Base Accuracy	± 0.01%				
HORIZONTAL SYSTEM	Delay Range	Pre-trigger : 20 div maximum; Post-trigger : 1000 div				
	Real-Time Sample Rate	100MS/s maximum on each channel				
SIGNAL ACQUISITION SYSTEM	Equivalent Sample Rate	25GS/s E.T. maximum on each channel				
	Record Length	125k/CH				
	Peak Detection	10ns (500ns/div ~ 10s/div)				
	Acquisition Mode	Sample · Peak Detect · Average				
SIGNAL ACQUISITION SYSTEM	Average	2 · 4 · 8 · 16 ·256				
	Trigger Source	CH1, CH2, Line, Ext				
	Mode	Auto Level · Auto · Normal · Single · TV · Time Delay · Event Delay · Edge · Pulse Width				
	Coupling	AC, DC, HF, LF, Noise Reject				
TRIGGER	Sensitivity	DC~25MHz : Approx 0.35div or 3.5mV			DC~25MHz : Approx 0.35div or 3.5mV	
		25MHz~150MHz : Approx 1.5div or 10mV			25MHz~250MHz : Approx 1.5div or 10mV	
X-Y MODE	X-Axis Input / Y-Axis Input Phase Shift	Channel 1 / Channel 2 ± 3° at 100kHz				
CURSOR & MEASUREMENT	Auto Voltage Measurement	$V_{pp}, V_{m_p}, V_{avg}, V_{m_s}, V_{hi}, V_{lo}, V_{m_x}, V_{m_ni}$				
	Auto Time Measurement	Freq, Period, Rise Time, Fall Time, Positive Width, Negative Width, Duty Cycle				
CURSOR & MEASUREMENT	Cursor Measurement	Voltage difference between cursors (ΔV) Time difference between cursors (ΔT)				
		Frequency different between cursors ($1/\Delta T$)				
FREQUENCY COUNTER	Readout Resolution	6 digits				
	Accuracy	± 50 ppm (all frequency reference errors are included) & 1 count errors				
FREQUENCY COUNTER	Frequency Range	AC Coupled, 10Hz minimum to rated bandwidth				
	Signal Source	All available trigger source except the Pulse Width & Video Trigger mode				
EXTERNAL TRIGGER	Range	± 15V				
	Sensitivity	DC~30MHz : ~50mV; 30~150MHz : ~100mV			DC~30MHz : ~50mV; 30~150MHz : ~100mV; 150MHz~250MHz : ~150mV	
	Input Impedance	1MΩ ±2%, ~22pF				
EXTERNAL TRIGGER	Maximum Input	300V (DC+AC peak) , CATII				
	AutoSet	"Autoset" can adjust vertical (Volt/div) , Horizontal (Sec/div) and Trigger level automatically				
CONTROL PANEL FUNCTION	Save/Recall	Up to 15 sets of measurement conditions can be saved and recalled				
	Waveform Trace Save/Recall	2 sets of waveform can be saved and recalled				
INTERFACE	USB	NA			Standard	
	RS-232C	NA			Standard	
	Printer Port	NA			Standard	
	GPIB	NA			Option	
POWER SOURCE	100V ~ 240V AC 48Hz ~63Hz, Auto selection					
ACCESSORIES	Instruction manual x 1 , power cord x 1 , probe x 1					
DIMENSIONS & WEIGHT	254D x 142H x 310W (mm), Approx. 4.1kg					

Specifications subject to change without notice.

Ordering Information

Standard Accessories

Probes-

GTP-150A-2 : 150MHz x10/x1 Switchable Passive Probes for GDS-820Series

GTP-250A-2 : 250MHz x10/x1 Switchable Passive Probes for GDS-840Series

Manual

Power cord

Option-

Opt. 01- GPIB Interface Module

Opt. 02- RS-232C Cable, 9-pin Female to 9-Pin Female, Null Modem, for Computers

ISO-9001 & ISO-14001 CERTIFIED MANUFACTURER



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