

Digital Oscilloscopes

GW INSTEK



GDS-800 Series

- 60, 100, 150 & 250MHz Bandwidth Models Available.
- 125k Memory.
- Colour or Monochrome Display.
- USB & GPIB Available.
- 15 Auto Measurements.

	GDS-840S	GDS-840C	GDS-820S	GDS-820C	GDS-810S	GDS-810C	GDS-806S	GDS-806C
Display System								
Display Device	5.7" LCD (Mono)	5.7" LCD (Colour)	5.7" LCD (Mono)	5.7" LCD (Colour)	5.7" LCD (Mono)	5.7" LCD (Colour)	5.7" LCD (Mono)	5.7" LCD (Colour)
Display Contrast	Adjustable							
Waveform Display Graticule	8 x 10 Divisions (8 x 12 with Menu Off)							
Display Mode	Dot, Vector, Accumulate							
Vertical System								
Bandwidth (-3dB)	250MHz		150MHz		100MHz		60MHz	
Number of Channels	2							
Rise Time	< 1.4ns		< 2.3ns		< 3.5ns		< 5.8ns	
Vertical Resolution	8-bit							
Vertical Sensitivity & Accuracy	2mV ~ 5V, ± 3%							
Input Coupling	AC, DC, Ground							
Input Impedance	1MΩ ± 2%, ~ 18pF		1MΩ ± 2%, ~ 22pF		1MΩ ± 2%, ~ 18pF			
Polarity	Positive & Negative							
Maximum Voltage Between Signal & Common at Input BNC	300V (DC + AC Peak), CATII							
Waveform Math Operators	CH1 + CH2, CH1-CH2, FFT							
Offset Range	2mV/div ~ 50mV/div: ± 0.5V; 100mV/div ~ 500mV/div: ± 5V; 1V/div ~ 5V/div: ± 50V							
BW Limit	20MHz (-3dB)							
Horizontal System								
Time Base Range	1ns/div ~ 10s/div (1-2-5 Increments); Roll Mode: 250ms/div ~ 10s/div							
Time Base Mode	Main, Window, Window Zoom, Roll, X-Y							
Time Base Accuracy	± 0.01%							
Delay Range	Pre-Trigger : 20 div Maximum; Post-Trigger: 1000 div							
Signal Acquisition System								
Real-Time Sample Rate	100MS/s Maximum on Each Channel							
Equivalent Sample Rate	25GS/s E.T. Maximum on Each Channel							
Record Length	125k/CH							
Peak Detection	10ns (500ns/div ~ 0s/div)							
Acquisition Mode	Sample, Peak Detect, Average							
Average	2, 4, 8, 16, 32, 64, 128, 256							
Trigger								
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							
Sensitivity	DC ~ 30MHz : 0.5div or 5mV 30MHz ~ 150MHz : 1.5div or 15mV 150MHz ~ 250MHz : 2.0div or 20mV	DC ~ 30MHz : 0.5div or 5mV ~ 150MHz : Approx. 1.5div or 15mV	DC ~ 25MHz : Approx. 0.5div or 5mV 25MHz ~ 100MHz : Approx. 1.5div or 15mV	DC ~ 25MHz : Approx. 0.5div or 5mV 25MHz ~ 60MHz : Approx. 1.5div or 15mV				
X-Y Mode								
X-Axis Input / Y-Axis Input	CH 1 / CH 2							
Phase Shift	± 3° at 100kHz							

	GDS-840S	GDS-840C	GDS-820S	GDS-820C	GDS-810S	GDS-810C	GDS-806S	GDS-806C
Cursor & Measurement Auto Voltage Measurement Auto Time Measurement Cursor Measurement	Vpp, Vamp, Vavg, Vrms, Vhi, Vlo, Vmax, Vmin Freq, Period, Rise Time, Fall Time, Positive Width, Negative Width, Duty Cycle Voltage Difference Between Cursors (ΔV), Time Difference Between Cursors (ΔT), Reciprocal in Hertz ($1 / \Delta T$)							
Frequency Counter Readout Resolution Frequency Range Signal Source	6 Digits AC Coupled, 20Hz ~ Rated Bandwidth; Resolution : 10Hz All Available Trigger Sources Except Pulse Width & Video Trigger Modes							
Adjustable Probe Compensation Signal								
Frequency Range	N/A			1kHz ~ 100kHz in 1kHz Steps				
Duty Cycle	N/A			5% ~ 95% in 5% Steps				
External Trigger								
Range	$\pm 15V$							
Sensitivity	$\leq 30MHz: \leq 50mV;$ $> 30MHz: \leq 100mV;$	$\leq 30MHz: \leq 50mV;$ $> 30MHz: \leq 100mV$	$\leq 25MHz: \leq 50mV;$ $> 25MHz: \leq 100mV$	$\leq 25MHz: \leq 50mV;$ $> 25MHz: \leq 100mV$				
Input Impedance	$1M\Omega \pm 2\%, \sim 18pF$		$1M\Omega \pm 2\%, \sim 22pF$		$1M\Omega \pm 2\%, \sim 18pF$			
Maximum Input	300V (DC+AC Peak), CATII							
Control Panel Function								
AutoSet	"Autoset" Can Adjust Vertical (Volt/div), Horizontal (Sec/div) and Trigger Level Automatically							
Save Recall Waveform Trace Save/Recall	Up to 15 Sets of Measurement Conditions Can Be Saved & Recalled 2 Sets of Waveform Data Can Be Saved & Recalled							
Interface								
Standard	USB, RS-232C, Printer Port, Go/NoGo Output			RS-232				
Option 01	GPIB Interface			GPIB Interface				
Option 11	N/A			USB, Printer Port, Go/NoGo Output				
General								
Power Source	100V ~ 240V AC 47Hz ~ 63Hz							
Accessories	Instruction Manual x 1, Power Cord x 1							
	GTP-250A Probe (10:1/1:1) x 2	GTP-150A Probe (10:1/1:1) x 2	GTP-100A Probe (10:1/1:1) x 2	GTP-060A Probe (10:1/1:1) x 2				
Dimensions	310mm (W) x 142mm (H) x 254mm (D)			310mm (W) x 142mm (H) x 254mm (D)				
Weight	4.1kg			3.8kg				

		ORDERING INFORMATION			
		GDS-840C	GDS-840S	GDS-820C	GDS-820S
	GDS-810C	250MHz, 2-Channel, Colour LCD Display DSO.			
	GDS-810S	250MHz, 2-Channel, Mono LCD Display DSO.			
	GDS-806C	150MHz, 2-Channel, Colour LCD Display DSO.			
	GDS-806S	150MHz, 2-Channel, Mono LCD Display DSO.			
	Option 01	GPIB Interface.			
	Option 02	RS-232C Cable, 9-Pin Female to 9-Pin, Null Modem For Computer.			
	Option 03	USB Cable, USB1.1 A-B Type Cable, 1800mm.			
	Option 04	GSC-005 Soft Carrying Case.			
	Option 05	GRA-405 Rack Adapter Panel.			
	Option 06	GTC-001 Instrument Cart, 450mm (W) x 430mm (D).			
	Option 07	GTC-002 Instrument Cart, 330mm (W) x 430mm (D).			
Option 11	USB Interface, Printer Port, Go/NoGo Output.				