

# Digital Storage Oscilloscope

Part Nos. 01OSGDS2, 01OSGDS3, 01OSGDS4, 01OSGDS5

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**GDS-820S(150MHz)/GDS-840S(250MHz)**

**GDS-820C (150MHz)/GDS-840C (250MHz)**

## 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-NoGo and Auto Setup Sequence
- \* FFT Function
- \* Built-In Help Manual, Multi-Language and PC Software
- \* Standard Interface: USB, RS-232C, Printer Port, Go/NoGo Output
- \* Option: GPIB Interface

## SPECIFICATIONS

		GDS-820S	GDS-820C	GDS-840S	GDS-840C
<b>DISPLAY SYSTEM</b>	Display Device	Mono (320 x 240) 5.7 inch LCD	Color (320 x 240) 5.7 inch LCD	Mono (320 x 240) 5.7 inch LCD	Color (320 x 240) 5.7 inch LCD
	Display Contrast Waveform Display Graticule Display Mode	Adjustable 8 x 10 divisions ( 8 x 12 div, when menu off ) Dot, Vector, Accumulate			
<b>VERTICAL SYSTEM</b>	Bandwidth	150MHz		250MHz	
	Channels	2			
	Vertical Resolution	8-Bit			
	Vertical Sensitivity	2mV/div ~ 5V/div			
	Vertical Accuracy	± 3%			
	Rise Time	<2.3ns		<1.4ns	
	Input Coupling Input Impedance	AC · DC · Ground 1MΩ ±2%, ~ 22pF		1MΩ ±2%, ~ 18pF	
<b>HORIZONTAL SYSTEM</b>	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 BW Limit	2mV/div ~ 50mV/div : ± 0.5V; 100mV/div ~ 500mV/div : ± 5V; 1V/div ~ 5V/div : ± 50V 20MHz ( -3dB )			
<b>SIGNAL ACQUISITION SYSTEM</b>	Time Base Range	1ns/div ~ 10s/div; Roll : 250ms/div~10s/div			
	Time Base Mode	Main · Window · Window Zoom · Roll · X-Y			
	Time Base Accuracy Delay Range	± 0.01% Pre-trigger : 20 div maximum; Post-trigger : 1000 div			
<b>TRIGGER</b>	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~10s/div)			
<b>X-Y MODE</b>	Acquisition Mode	Sample · Peak Detect · Average			
	Average	2, 4, 8, 16, 32, 64, 128, 256			
	Trigger Source Mode	CH1, CH2, Line, Ext Auto Level · Auto · Normal · Single · TV · Time Delay · Event Delay · Edge · Pulse Width			
<b>CURSOR &amp; MEASUREMENT</b>	Coupling	AC, DC, HF, LF, Noise Reject			
	Sensitivity	DC~30MHz : 0.5div or 5mV 30MHz~150MHz : Approx 1.5div or 15mV		DC~30MHz : 0.5div or 5mV 30MHz~150MHz : 1.5div or 15mV 150MHz~250MHz : 2.0div or 20mV	
<b>CURSOR &amp; MEASUREMENT</b>	X-Axis Input / Y-Axis Input	Channel 1 / Channel 2			
	Phase Shift	± 3° at 100kHz			
<b>CURSOR &amp; MEASUREMENT</b>	Auto Voltage Measurement	$V_{pp}$ , $V_{amp}$ , $V_{avg}$ , $V_{rms}$ , $V_{hi}$ , $V_{lo}$ , $V_{max}$ , $V_{min}$			
	Auto Time Measurement	Freq, Period, Rise Time, Fall Time, Positive Width, Negative Width, Duty Cycle			
	Cursor Measurement	Voltage difference between cursors( $\Delta V$ ), Time difference between cursors( $\Delta T$ ), Reciprocal of $\Delta T$ in hertz (1/ $\Delta T$ )			



**GDS-820C (150MHz) / GDS-840C (250MHz)**

<b>SPECIFICATIONS</b>		
<b>FREQUENCY COUNTER</b>	<b>Readout Resolution Frequency Range Signal Source</b>	Max. 6 digits AC Coupled, 20Hz to rated bandwidth; resolution : 10Hz All available trigger source except the Pulse Width & Video Trigger mode
<b>EXTERNAL TRIGGER</b>	<b>Range</b>	$\pm 15V$
	<b>Sensitivity</b>	DC~30MHz : ~50mV ; 30~150MHz : ~100mV      DC~30MHz:~50mV;30~150MHz :~100mV; 150MHz~250MHz : ~150mV
	<b>Input Impedance Maximum Input</b>	1M $\Omega$ $\pm$ 2%, ~ 22pF      1M $\Omega$ $\pm$ 2%, ~ 18pF 300V ( DC+AC peak ) , CATII
<b>CONTROL PANEL FUNCTION</b>	<b>AutoSet Save/Recall Waveform Trace Save/Recall</b>	"Autoset" can adjust Vertical ( Volt/div ), Horizontal ( Sec/div ) and Trigger level automatically Up to 15 sets of measurement conditions can be saved and recalled 2 sets of waveform can be saved and recalled
<b>INTERFACE</b>	<b>Standard Option</b>	USB, RS-232C, Printer Port, Go/NoGo Output GPIB
<b>POWER SOURCE</b>		100V ~ 240V AC 47Hz ~ 63Hz, Auto selection
<b>ACCESSORIES</b>		Instruction manual x 1, Power Cord x 1 GDS-820 Series: GTP-150A Probe(10:1/1:1) x 2 GDS-840 Series: GTP-250A Probe(10:1/1:1) x 2
<b>DIMENSIONS &amp; WEIGHT</b>		310(W) x 142(H) x 254(D)mm , Approx. 4.1kg