

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
DISPLAY SYSTEM	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			
VERTICAL SYSTEM	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	
Polarity Maximum Voltage Between Signal & Common at Input BNC Waveform Signal Process Offset Range BW Limit	Positive & Negative 300V (DC+AC peak), CATII CH1+CH2 · CH1-CH2 · FFT 2mV/div ~ 50mV/div : ± 0.5V; 100mV/div ~ 500mV/div : ± 5V; 1V/div ~ 5V/div : ± 50V 20MHz (-3dB)				
HORIZONTAL SYSTEM	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	± 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~10s/div)			
	Acquisition Mode Average	Sample · Peak Detect · Average 2, 4, 8, 16, 32, 64, 128, 256			
TRIGGER	Trigger Source Mode	CH1, CH2, Line, Ext 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 : Approx 1.5div or 15mV		DC~30MHz : 0.5div or 5mV 30MHz~150MHz : 1.5div or 15mV 150MHz~250MHz : 2.0div or 20mV	
X-Y MODE	X-Axis Input / Y-Axis Input Phase Shift	Channel 1 / Channel 2 ± 3° at 100kHz			
CURSOR & MEASUREMENT	Auto Voltage Measurement Auto Time Measurement Cursor Measurement	V _{pp} · V _{amp} · V _{avg} · V _{rms} · V _{ni} · V _{lo} · V _{max} · V _{min} Freq, Period, Rise Time, Fall Time, Positive Width, Negative Width, Duty Cycle Voltage difference between cursors(ΔV), Time difference between cursors(ΔT), Reciprocal of ΔT in hertz (1/ΔT)			



GDS-280C (150MHz) / GDS-840C (250MHz)

SPECIFICATIONS		
FREQUENCY COUNTER	Readout Resolution Frequency Range Signal Source	Max. 6 digits AC Coupled, 20Hz to rated bandwidth; resolution : 10Hz All available trigger source except the Pulse Width & Video Trigger mode
EXTERNAL TRIGGER	Range	$\pm 15V$
	Sensitivity	DC~30MHz : ~50mV ; 30~150MHz : ~100mV
	Input Impedance	1M Ω \pm 2%, ~ 22pF
	Maximum Input	300V (DC+AC peak), CATII
CONTROL PANEL FUNCTION	AutoSet Save/Recall Waveform Trace Save/Recall	"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
INTERFACE	Standard Option	USB, RS-232C, Printer Port, Go/NoGo Output GPIB
POWER SOURCE		100V ~ 240V AC 47Hz ~ 63Hz, Auto selection
ACCESSORIES		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
DIMENSIONS &WEIGHT		310(W) x 142(H) x 254(D)mm , Approx. 4.1kg