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Test & Measurement

- sales
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- calibration
- repair
- disposal

Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

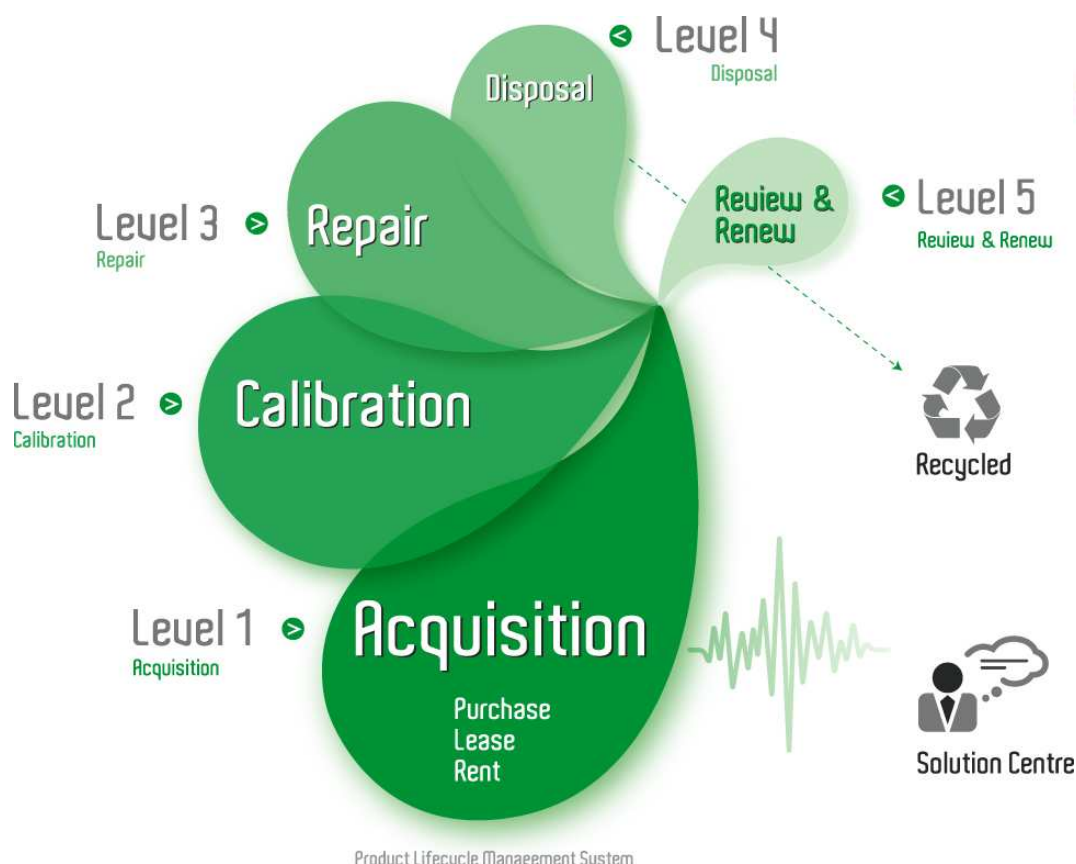
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150MHz/250MHz Digital Storage Oscilloscope


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

FEATURES

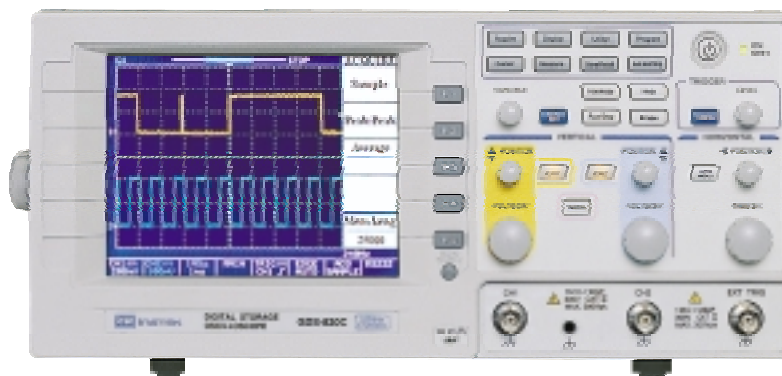
- * 150MHz/250MHz Bandwidth With Either Color or Monochrome LCD Display
- * 125k Long Memory and 12 Division Horizontal Display
- * 25GS/s Sampling Rate for Repetitive Waveforms
- * Advanced Trigger: Pulse Width, TV Line, Event Delay And Time Delay
- * Go-NoGo and Auto Setup Sequence
- * FFT Function
- * 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 × 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	AC、DC、Ground			
	Input Impedance	1MΩ ±2%, ~ 22pF		1MΩ ±2%, ~ 18pF	
	Polarity	Positive & Negative			
	Maximum Voltage Between Signal & Common at Input BNC	300V (DC+AC peak), CATII			
HORIZONTAL SYSTEM	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			
	BW Limit	20MHz (-3dB)			
	Time Base Range	1ns/div ~ 10s/div; Roll : 250ms/div~10s/div			
SIGNAL ACQUISITION SYSTEM	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			
	Real-Time Sample Rate	100MS/s maximum on each channel			
	Equivalent Sample Rate	25GS/s E.T. maximum on each channel			
TRIGGER	Record Length	125k/CH			
	Peak Detection	10ns (500ns/div~10s/div)			
	Acquisition Mode	Sample、Peak Detect、Average			
	Average	2, 4, 8, 16, 32, 64, 128, 256			
X-Y MODE	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			
CURSOR & MEASUREMENT	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-Axis Input / Y-Axis Input	Channel 1 / Channel 2			
	Phase Shift	± 3° at 100kHz			
CURSOR & MEASUREMENT	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(ΔV),Time difference between cursors(ΔT), Reciprocal of ΔT in hertz (1/ΔT)			

150MHz/250MHz Digital Storage Oscilloscope

A4



GDS-820C(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	± 15V
	Sensitivity	DC~30MHz : ~50mV ; 30~150MHz : ~100mV DC~30MHz:~50mV;30~150MHz :~100mV; 150MHz~250MHz : ~150mV
	Input Impedance Maximum Input	1MΩ± 2%, ~ 22pF 1MΩ± 2%, ~ 18pF 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

ORDERING INFORMATION

GDS-820C 150MHz, 2-channel, Color LCD Display DSO
GDS-820S 150MHz, 2-channel, Mono LCD Display DSO
GDS-840C 250MHz, 2-channel, Color LCD Display DSO
GDS-840S 250MHz, 2-channel, Mono LCD Display DSO

Option

Opt. 01: GPIB Interface (Factory installed)
Opt. 02: GTL-232 RS-232C Cable, 9-pin Female to 9-pin, Null Modem for Computer
Opt. 03: USB Cable, USB1.1 A-B Type Cable, 1800mm
Opt. 04: GSC-005 Soft Carrying Case
Opt. 05: GRA-405 Rack Mounting (19", 4U)
Opt. 06: GTC-001 Instrument Cart, 450(W) x 430(D) mm
Opt. 07: GTC-002 Instrument Cart, 330(W) x 430(D) mm