

The brand new portable 7" full touch panel capacitive LCD, featuring multi-point touch panel method which allows engineers to move waveform position, adjust waveform size, and set trigger conditions easily, subverts the traditional handheld instrument. With this unique feature, engineers can retrieve DUT's signals easily under the complex working environment. Landscape or portrait measurement display not only clearly shows waveforms under full screen status but also combines multi-functional measurement environment to achieve unimaginable measurement results.

Built-in, the second to none, the longest 5M sample memory depth helps engineers diagnose waveforms in great details. The long memory depth can record detailed waveform data and help engineers reproduce the original waveforms while engineers are conducting long observation or retrieving detailed transient signals. Any delicate changes of analog waveforms can be clearly presented in front of engineers when they adjust time scale from long to short that leaves no measurement problems unanswered.

Built-in 50,000 counts (GDS-300) or 5,000 counts (GDS-200) DMM helps engineers accurately measure DUT's electric parameters including not only measurements of D.C. voltage, A.C. voltage, D.C. current, A.C. current, resistance and diode polarity, but also temperature measurement and monitoring. The analysis of trend diagrams further completes test and measurement. DMM can simultaneously work with oscilloscope to conduct multi-measurement tasks.

Normally, engineers wish to effectively record intermittent signals while retrieving a series of signals during a long period of time. GDS-300/GDS-200's built-in 30,000 consecutive waveform records logging function not only records 30,000 waveform records in a long period of time but also replays the recorded data that allows engineers to identify intermittent problems occurred during the recorded time. Leave no problems unidentified.

Engineers need to isolate power and solve corresponding grounding issue while conducting circuit debugging. One of the criteria engineers must overcome is to maintain system grounding and isolation safety in the strict test and measurement environment such as no grounding system or no isolation. GDS-300/200 provide optional differential probe to effectively assist engineers in solving isolation and grounding problems that elevates the efficiency and safety of test and measurement.

Engineers often need some calculation tool software to conduct circuit design and debugging analysis during the R&D process. GDS-300/200 oscilloscopes, with the built-in standard engineering calculator, allow engineers to verify parameters during the test and measurement process. While using unknown resistance, engineers can obtain resistance value via color coding calculation software. If any attenuator was designed in the circuit, GDS-300/200 can also provide corresponding attenuator model and attenuation value calculation.

GDS-300/200 Series

FEATURES

- 200/100/70MHz Bandwidth Selections, Two Input Channels
- 1GSa/s Maximum Sample Rate
- Maximum 5M/1M Memory Depth Per Channel
- 7" 800 x 480 Full Touch Panel Capacitive LCD Multi-Point Control, Landscape and Portrait Display
- Built-In 50,000/5,000 Counts DMM
- 30,000 Consecutive Waveform Records Logging Function, Replay Measurement Results Any Time
- Temperature Measurement and Logging Function
- Built-In Engineering Calculator, SMD Resistance Coding, Color Coding Info, and Attenuator Calculation Application Software
- Optional Differential Probe to Achieve Isolation Effect



GDS-300/200 Series Front



GDS-300 Series Rear Panel



GDS-200 Series Rear Panel

APPLICATIONS

- Large Electric System Tests
- Power Product Tests
- Motor Tests
- Solar Power Battery Inspection and Repair
- Maintenance Personnel Always on Field Assignments



SPECIFICATIO	NS							
		GDS-307	GDS-310	GDS-320	GDS-207	GDS-210	GDS-220	
VERTICAL	Channels Input Impedance Maximum Input	2 (BNC-Shield) 1M Ω ±2%, 16.5pf approx. CAT II 300VRMS						
	Input Coupling Bandwidth Calculated Rise Time	<5ns	DC~100MHz (-3dB) <3.5ns	<1.75ns	C) DC~70MHz (-3dB) <5ns	DC~100MHz(-3dB) <3.5ns	DC~200MHz (-3d <1.75ns	
	Sensitivity Accuracy Bandwidth Limit Polarity	2mV/div~10V/div (1-2-5 increments) ±(3% x Readout + 0.1 div + 1mV) 20MHz(-3dB) Normal, Invert						
SIGNAL ACQUISITION	Offset Position Range Realtime Sample Rate	2mV/div~50mV/div: ±0.4V; 100mV/div~500mV/div: ±4V; 1V/div~5V/div: ±40V; 10V/div: ±300V 1GSa/s						
•	Memory Depth Acquisition Mode Replay Wfms.	bepth 5Mpoints per ch 1Mpoints per ch 1Mpoints per ch Average: 2~256 waveforms; Peak detect: 10ns; sin(x)/x or ET						
TRIGGER	Source Trigger mode Trigger type Trigger Holdoff Coupling Sensitivity	Ch1 or Ch2 Auto, Normal, Single, Force Edge, Pulse Width, Video, Alternate 10ns ~ 10s AC, DC, LFR, HFR, NR DC~25MHz: approx. 0.5div or 5mV; 25MHz~70/100/200MHz: approx. 1.5div or 15mV						
HORIZONTAL	Range Roll Pre-trigger Post-trigger Accuracy	5ns~100s/Div (1-2-5 increments) 100ms/div ~ 100s/div 10 div max. 1,000 div max(depend on time base) ±20ppm over any > 1ms time interval						
XY MODE	Phase Shift	±3° at 100KHz						
CURSOR AND MEASUREMENT	Cursors Auto-measurement Auto-counter Autoset	Voltage difference between cursors(△V), Time difference between cursors(△T), frequency measure(1/△T) 36 sets. 6 digits. Range: 2Hz to rated bandwidth						
TEMPERATURE MEASUREMENT		Available			Non-Available			
MISCELLANEOUS	Multi-Language Menu On-line Help Time and Clock	Available Available Available						
BATTERY	Battery power Charge time Operation time	Li-polymer 6100mA/hr, 7.4V (Built-in) 2.0 hour (75%) 4.1 hour, depending on operating condition.						
PROBE COMPENSATION		2V, 1kHz, 50% D						
INTERFACE	USB Internal Flash Disk	USB Device (Isol 120MB	ation)					
DISPLAY	Type Display Resolution Display Direction Backlight Control Touch Panel	7 inch 480 x 800 pixels Landscape & Por Manual adjustab Capacitive						
DMM	Digit Level	50,000 counts			5000 counts			
	DC Voltage Range Accuracy Input Impedance DC Current Range Accuracy	CAT II 600VRMS, CAT III 300VRMS 50mV, 500M, 500V, 500V, 1000V 6 ranges GDS-320/310/307:50mV,500MV,5V,50V,500V \pm (0.05%+5digits); GDS-220/210/207:50mV,500MV,5V,500V,1000V \pm (0.1%+5digits) 10M Ω 50mA, 500mA, 10A 3 ranges GDS-320/310/307:50mA \sim 500mA, 2 range , \pm (0.1% + 5 digits),10A \pm (0.5% + 1 digit)						
	AC Voltage Range Accuracy	GDS-220/210/207:50mA~500mA, 10A 3 ranges, ±(0.5% + 1 digit) 50mV, 500mV, 5V, 50V, 700V 5 ranges 50mV, 500mV, 5V, 5V, 700V ±(1.5% + 15 digits) at 50Hz~1kH						
	AC Current Range Accuracy	50mA, 500mA, 10A 3 ranges 50mA, 500mA, ±(1.5% + 15 digits) at 50Hz~1kHz; 10A ±(3% + 15 digits) at 50Hz~1kHz *Measurement range:>10mA						
	RESISTANCE Range Accuracy Diode Test	500Ω , $5K\Omega$, $50K\Omega$, $500K\Omega$, $5M\Omega$ 6 range 500Ω , $5K\Omega$, $500K\Omega$, $500K\Omega$ $\pm 0.3\% + 3$ digits); $5M\Omega\pm 0.5\% + 5$ digits) *Measurement range: $50\Omega-5M\Omega$ Maximum forward voltage 1.5V, Open voltage 2.8V						
	Temperature Range (thermocouple) Resolution	-50°C ~ +1000°C 0.1°C						
	Thermocouple Continuity Beep Functions	B, E, J, K, N, R, S, T \star Specifications do not include probe accuracy. Temperature specifications only apply to the GDS-320/310/307. < 15 Ω Auto Range, Max, Min, Hold, Trend plot						
POWER ADAPTOR OPTION	Line Voltage Differential Probe	AC 100V~240V, 47~63Hz, Power Consumption 40W; DC Output : 12V/3A, Double Shield Dual-channel, 40MHz, CAT II 600V						
DIMENSIONS & WEIGHT		240.2(W) x 136.0	(H) x 59.7(D) mm;	11 0	pecifications subject to			

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GDS-320 200MHz, 2 Channels, Digital Oscilloscope GDS-310 100MHz, 2 Channels, Digital Oscilloscope GDS-307 70MHz, 2 Channels, Digital Oscilloscope GDS-220 200MHz, 2 Channels, Digital Oscilloscope GDS-210 100MHz, 2 Channels, Digital Oscilloscope GDS-207 70MHz, 2 Channels, Digital Oscilloscope

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GTP-150B-2 150MHz Probe, Suitable for GDS-307/207, GDS-310/210
GTP-250B-2 250MHz Probe, Suitable for GDS-320/220 GTL-207

Multimeter Test Lead x 2 OPTIONAL ASSESSORIES

GDP-040D 40MHz Dual-channel Differential Probe Protective Films for 7" Touch Screen USB Cable, USB 2.0, A-mini B Type, 1400mm **GPF-700** GTL-253

GCL-001 GTL-131

Specifications subject to change without notice. $\,$ DS300200GD1DH

GSC-011 GAP-001

GWS-001

Vertical Calibration Cable Test Clip, Suitable for GDP-040D

Soft Carrying Case Soft Carrying Bag AC-DC Adaptor Wrist Strap

OpenWave 200 Software

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