

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	N2						
		GDS-307	GDS-310	GDS-320	GDS-207	GDS-210	GDS-220
VERTICAL	Channels Input Impedance Maximum Input Input Coupling	2 (BNC-Shield) 1MΩ±2%, 16.5pf approx. CAT II 300VRMS AC, DC, GND DC~70MHz(-3dB) DC~100MHz (-3dB) DC~200MHz (-3dB) DC~70MHz (-3dB) DC~100MHz (-3dB) DC~200MHz (-3dB) Solution Solutio					
	Bandwidth Rise Time Sensitivity						
	Accuracy Bandwidth Limit Polarity Offset Position Range	±(3% x Readout + 0.1 div + 1mV) 20MHz(-3dB) Normal, Invert 2mV/div~50mV/div: ±0.4V; 100mV/div~500mV/div: ±4V; 1V/div~5V/div: ±40V; 10V/div: ±300V					
SIGNAL ACQUISITION	Realtime Sample Rate Memory Depth Acquisition Mode	1GSa/s 5Mpoints per ch Average : 2~256 v	waveforms; Peak de	etect : 10ns: sin(x)/	1Mpoints per ch	1	
	Replay Wfms.	30,000 wfms.	waverorms, reak ac	.teet . 10113, 3111(x)/	X 01 E1		
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. 0.5diy or 5mV; 25MHz~ 70/100/200MHz: approx. 1.5diy 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	36 sets.	e between cursors(!Hz to rated bandw		ce between cursors (\triangle T), frequency me	asure(1/△T)
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	2.0 hour (75%)	nA/hr, 7.4V (Built-ining on operating co				
PROBE COMPENSATION		2V, 1kHz, 50% D	uty cycle				
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	50mV, 500mV, 5\ GDS-320/310/307: 10M Ω 50mA, 500mA, 1	OA 3 ranges	500V±(0.05%+5digit	s); GDS-220/210/207:5		1000V±(0.1%+5digi
	AC Voltage Range Accuracy	GDS-320/310/307:50mA ~ 500mA, 2 range, ±(0.1% + 5 digits),10A±(0.5% + 1 digit) GDS-220/210/207:50mA~500mA, 10A 3 ranges, ±(0.5% + 1 digit) 50mV, 500mV, 5V, 5V, 700V 5 ranges 50mV, 500mV, 5V, 50V, 700V ±(1.5% + 15 digits) at 50Hz~1kH					
	AC Current Range Accuracy	50mA, 500mA, 10A 3 ranges 50mA, 500mA, $\pm (1.5\% + 15 \text{ digits})$ at 50Hz~1kHz; $\pm 100 \pm 1000 \pm 100 \pm 1000 \pm 1$					
	RESISTANCE Range Accuracy Diode Test	500Ω , $5K\Omega$, $50K\Omega$, $500K\Omega$, $5M\Omega$ 6 range 500Ω , $5K\Omega$, $500K\Omega$ $\pm (0.3\% + 3 \text{ digits})$; $5M\Omega \pm (0.5\% + 5 \text{ digits})$ *Measurement range: 50Ω ~5MΩ Maximum forward voltage 1.5V, Open voltage 2.8V					
	Temperature Range (thermocouple) Resolution Thermocouple	-50°C ~ +1000°C 0.1°C B, E, J, K, N, R, S, T *Specifications do not include probe accuracy. Temperature specifications only apply to the GDS-320/310/307.					
	Continuity Beep Functions	< 12 77	, Min, Hold, Trend		C	, 11 /	· · · · · · · · · · · · · · · · · · ·
POWER ADAPTOR OPTION	Line Voltage Differential Probe	AC 100V~240V, 4 Dual-channel, 40	7~63Hz, Power Co MHz, CAT II 600V	nsumption 40W; D	C Output : 12V/3A, [Double Shield	
DIMENSIONS & WEIGHT		240.2(W) x 136.0	(H) x 59.7(D) mm;	Approx. 1.5 Kg			

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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

GTL-207

GDP-040D GPF-700

GTL-253 OpenWave 200

INSTEK AMERICA CORP.

OPTIONAL ASSESSORIES

Global Headquarters
GOOD WILL INSTRUMENT CO., LTD. T+886-2-2268-0389 F+886-2-2268-0639

China Subsidiary

GOOD WILL INSTRUMENT (SUZHOU) CO., LTD. T +86-512-6661-7177 F +86-512-6661-7277

Malaysia Subsidiary

GOOD WILL INSTRUMENT (M) SDN. BHD. T+604-6309988 F+604-6309989

Europe Subsidiary
GOOD WILL INSTRUMENT EURO B.V. T+31(0)40-2557790 F+31(0)40-2541194

U.S.A. Subsidiary

T+1-909-5918358 F+1-909-3990819

Japan Subsidiary

TEXIO TECHNOLOGY CORPORATION.

Quick start guide x 1, User manual CD x 1, Power cord x 1
GTP-150B-2 150MHz Probe, Suitable for GDS-307/207, GDS-310/210
GTP-250B-2 250MHz Probe, Suitable for GDS-320/220

40MHz Dual-channel Differential Probe

Protective Films for 7" Touch Screen USB Cable, USB 2.0, A-mini B Type, 1400mm

Multimeter Test Lead x 2

Software

T+81-45-620-2305 F+81-45-534-7181

Korea Subsidiary

GOOD WILL INSTRUMENT KOREA CO., LTD.

T+82-2-3439-2205 F+82-2-3439-2207



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

Vertical Calibration Cable

Test Clip, Suitable for GDP-040D

Specifications subject to change without notice. DS300200GD1DH

GSC-010 GSC-011

GWS-001

GCL-001 GTL-131

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