

GDS-300/ 200 Specifications

The specifications apply when the GDS-300/200 is powered on for at least 30 minutes under +20°C~+30°C.

Model	GDS-307	GDS-310	GDS-320	GDS-207	GDS-210	GDS-220
VERTICAL						
Channels	2 (BNC-Shield)					
Input Impedance	1MΩ±2%, 16.5pf approx.					
Maximum Input	CAT II 300VRMS					
Input Coupling	AC, DC, GND					
Bandwidth	DC~70MHz (-3dB)	DC~100MHz (-3dB)	DC~200MHz (-3dB)	DC~70MHz (-3dB)	DC~100MHz (-3dB)	DC~200MHz (-3dB)
Calculated Rise time	5ns	3.5ns	1.75ns	5ns	3.5ns	1.75ns
Sensitivity	2mV/div~10V/div (1-2-5 increments)					
Accuracy	±(3% x Readout + 0.1 div + 1mV)					
Bandwidth Limit	20MHz(-3dB)					
Polarity	Normal, Invert					
Offset Position Range	2mV/div~50mV/div : ±0.4V 100mV/div~500mV/div : ±4V 1V/div~5V/div : ±40V 10V/div : ±300V					
Waveform Signal Process	+, -, ×, ÷, FFT, FFTrms					
SIGNAL ACQUISITION						
Realtime sample rate	1GSa/s					
Memory depth	5M points per ch			1M points per ch		
Acquisition mode	Average: 2~256 waveforms Peak detect: 10ns sin(x)/x or ET					
Replay wfms.	30,000 wfms.					
TRIGGER						
Source	Ch1 or Ch2					
Trigger mode	Auto, Normal, Single, Force					
Trigger type	Edge, Pulse Width, Video, Alternate					
Trigger Holdoff	10ns ~ 10s					
Coupling	AC, DC, LFR, HFR, NR					
Sensitivity	DC~25MHz: approx. 0.5div or 5mV 25MHz~ 70/100/200MHz: approx. 1.5div or 15mV					
HORIZONTAL						
Range	5ns~100s/Div (1-2-5 increments)					
Roll	100ms/div ~ 100s/div					
Pre-trigger	10 div max.					

Post trigger	1,000 div max(depend on time base)	
Accuracy	±20ppm over any > 1ms time interval	
XY MODE		
Phase Shift	±3° at 100KHz	
CURSOR AND MEASUREMENT		
Cursors	Voltage difference between cursors(ΔV), Time difference between cursors(ΔT), frequency measure(1/ΔT)	
Auto-measurement	36 sets.	
Auto-counter	6 digits. Range: 2Hz to rated bandwidth	
Autoset	Available	
TEMPERATURE MEASUREMENT	Available	Non-Available
MISCELLANEOUS		
Multi-Language Menu	Available	
On-line Help	Available	
Time and Clock	Available	
BATTERY		
Battery power	Li-polymer 6000mAh, 7.4V (Built-in)	
Charge time	5.0 hour (75%)	
Operation time	4 hour, depending on operating condition.	
PROBE COMPENSATION		
	2V, 1KHz, 50% Duty cycle	
INTERFACE		
USB	USB Device (Isolation)	
Internal Flash Disk	120MB	
DISPLAY		
Type	7 inch	
Display resolution	480 x 800 pixels	
Display direction	Landscape & Portrait	
Backlight control	Manual adjustable, ECO mode	
Touch panel	Capacitive	
DMM (Digital Multi-Meter)		
DIGIT LEVEL	50,000 counts	5,000 counts
	CAT II 600VRMS, CAT III 300VRMS	
DC VOLTAGE		
Range	50mV, 500mV, 5V, 50V, 500V, 1000V 6 ranges	
Accuracy	GDS-307/310/320: 50mV, 500mV, 5V, 50V, 500V ±(0.05% + 5 digits), 1000V ±(0.1% + 5 digits) GDS-207/210/220: 50mV, 500mV, 5V, 50V, 500V, 1000V ±(0.1% + 5 digits)	
Input Impedance	10MΩ	

DC CURRENT	
Range	50mA, 500mA, 10A 3 ranges
Accuracy	GDS-307/310/320: 50mA ,500mA:±(0.1% +0.05mA), 10A ±(0.5% + 50mA) GDS-207/210/220: 50mA ,500mA: ±(0.5% + 0.05mA) , 10A ±(0.5% + 50mA)
AC VOLTAGE	
Range	50mV, 500mV, 5V, 50V, 700V 5 ranges
Accuracy	50mV, 500mV, 5V, 50V, 700V: ±(1.5% + 15 digits) at 50Hz-1kHz
AC CURRENT	
Range	50mA, 500mA, 10A 3 ranges
Accuracy	50mA, 500mA: ±(1.5% + 15 digits) at 50Hz-1kHz ; 10A :±(3% + 15 digits) at 50Hz-1kHz * Measure range: >10mA
RESISTANCE	
Range	500Ω, 5kΩ, 50kΩ, 500kΩ, 5MΩ, 5 range
Accuracy	500Ω, 5kΩ, 50kΩ, 500kΩ ±(0.3% + 0.01%) 5MΩ ±(0.5% + 0.1%) * Measure range: 50Ω to 5MΩ
DIODE TEST	Maximum forward voltage 1.5V, Open voltage 2.8V
CONTINUITY BEEP	< 15 Ω
Temperature Range	-50 ° C~+1000 ° C
Temperature Resolution	0.1 ° C
Thermocouple	B,E,J,K,N,R,S,T
Continuity Beep	<15 Ω
FUNCTIONS	Auto Range, Max, Min, Hold, Trend plot
POWER ADAPTOR	
Line Voltage	AC 100V~240V, 48~63Hz, Power Consumption 40W
DC Output	DC Output: 12V/3A, Double Shield
OPTION	
Differential Probe	Dual-channel, 40MHz, CAT II 600V
DIMENSIONS & WEIGHT	
	HxWxD(mm) 240.2mm x 136.0mm x59.7 mm 1.5Kg