

## 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
<b>VERTICAL</b>						
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)
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					
<b>SIGNAL ACQUISITION</b>						
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.					
<b>TRIGGER</b>						
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					
<b>HORIZONTAL</b>						
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					

<b>XY MODE</b>	
Phase Shift	±3° at 100KHz
<b>CURSOR AND MEASUREMENT</b>	
Cursors	Voltage difference between cursors( $\Delta V$ ), Time difference between cursors( $\Delta T$ ), frequency measure( $1/\Delta T$ )
Auto-measurement	36 sets.
Auto-counter	6 digits. Range: 2Hz to rated bandwidth
Autoset	Available
<b>TEMPERATURE MEASUREMENT</b>	Available   Non-Available
<b>MISCELLANEOUS</b>	
Multi-Language Menu	Available
On-line Help	Available
Time and Clock	Available
<b>BATTERY</b>	
Battery power	Li-polymer 6100mA/hr, 7.4V (Built-in)
Charge time	2.0 hour (75%)
Operation time	4.1 hour, depending on operating condition.
<b>PROBE COMPENSATION</b>	
	2V, 1KHz, 50% Duty cycle
<b>INTERFACE</b>	
USB	USB Device (Isolation)
Internal Flash Disk	120MB
<b>DISPLAY</b>	
Type	7 inch
Display resolution	480 x 800 pixels
Display direction	Landscape & Portrait
Backlight control	Manual adjustable, ECO mode
Touch panel	Capacitive
<b>DMM (Digital Multi-Meter)</b>	
<b>DIGIT LEVEL</b>	50,000 counts   5,000 counts CAT II 600VRMS, CAT III 300VRMS
<b>DC VOLTAGE</b>	
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
<b>DC CURRENT</b>	
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% + 3 digits) 5MΩ ±(0.5% + 5 digits)  * 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
<b>POWER ADAPTOR</b>	
Line Voltage	AC 100V~240V, 48~63Hz, Power Consumption 40W
DC Output	DC Output: 12V/3A, Double Shield
<b>OPTION</b>	
Differential Probe	Dual-channel, 40MHz, CAT II 600V
<b>DIMENSIONS &amp; WEIGHT</b>	
HxWxD(mm)	240.2mm x 136.0mm x59.7 mm 1.5Kg