

Analogue Oscilloscopes

GW INSTEK

GOS Series, High Frequency Models

- 100 & 200MHz Bandwidths.
- Cursor Readout with 7 Measurements.
- Z-Axis Input.
- Processor Control.



		GOS-6200	GOS-6103	GOS-6112
CRT	Type	6-Inch Rectangular Type With Internal Graticule; 0%, 10%, 90% & 100% Markers 8 x 10 div (1 div = 1cm)		
	Accelerating Potential	Approx. 14kV	Approx. 16kV	Approx. 12kV
	Illumination	Continuously Adjustable	Continuously Adjustable	No Adjustment
	Z-Axis Input	Coupling : DC Sensitivity: 5V or More Maximum Input Voltage: 30V (DC + AC Peak) at 1kHz or Less Bandwidth: DC ~ 5MHz		
Vertical System	Sensitivity	2mV ~ 5V/Div, 11 Step in 1-2-5 Sequence		
	Sensitivity & Accuracy	≤ 3% (5div at the Centre of Display)		
	Vernier Vertical Sensitivity	Continuously Variable to 1/2.5 or Less of Displayed Value		
	Bandwidth (-3dB)	DC ~ 200MHz (5mV/div : DC ~ 150MHz)	DC ~ 100MHz (2mV/div : DC ~ 20MHz)	
	Rise Time	(2mV/div : DC ~ 20MHz) 1.75ns (5mV/div : 2.33ns) ; (2mV/div : 17.5ns)	3.5ns (2mV/div : 17.5ns)	
	Signal Delay Maximum Input Voltage Input Coupling Input Impedance Vertical Mode Bandwidth Limited Common-Mode Rej. Ratio	Leading Edge Can Be Monitored 400V (DC + AC Peak) at 1kHz or Less AC, DC, GND 1MΩ ± 2% / Approx. 25pF CH1, CH2, DUAL (CHOP/ALT), ADD, CH2 INV 20MHz 50:1 or Better at 50kHz		
Dynamic Range	8 div at 100MHz ; 5 div at 200MHz	8 div at 100MHz	8 div at 60MHz 5 div at 100MHz	
Horizontal	Horizontal Modes	MAIN (A), ALT, DELAY (B)		
	A (Main) Sweep Time	20ns ~ 0.5s/div, Cont. Var. (Uncal.)	50ns ~ 0.5s/div, Continuously Variable (Uncal.)	
	B (Delay) Sweep Time	20ns ~ 50ms/div	50ns ~ 50ms/div	
	Accuracy	± 3% (± 5% at x 10 MAG)		
	Sweep Magnification	x 10 (Max. Sweep time 2ns/div)	x 10 (Maximum Sweep Time 5ns/div)	
	Hold Off Time Delay Time Delay Jitter Alternate Separation	Variable 1µs ~ 5s Better than 1:20000 Variable		
	Trigger	Trigger Modes	AUTO, NORM, TV	AUTO, NORM, TV
Trigger Source		CH1, CH2, LINE, EXT, EXT/10	CH1, CH2, LINE, EXT	
Trigger Coupling		AC, DC, HFR, LFR, NR	AC, DC, HFR, LFR	
Trigger Slope		"+" or "-" Polarity or TV sync Polarity		

GOS-6200					GOS-6103				GOS-6112				
Trigger Sensitivity													
Mode	Frequency	INT	EXT	EXT/10	Mode	Frequency	INT	EXT					
AUTO	10Hz ~ 20MHz 20MHz ~ 200MHz	0.35 div 1.5 div	50 mV 150 mV	500 mV 1.5 V	AUTO	10Hz ~ 20MHz 20MHz ~ 100MHz	0.35 div 1.5 div	50 mV 150 mV					
NORM	DC ~ 20MHz 20MHz ~ 200MHz	0.35 div 1.5 div	50 mV 150 mV	500 mV 1.5 V	NORM	DC ~ 20MHz 20MHz ~ 100MHz	0.35 div 1.5 div	50 mV 150 mV					
TV	Sync Signal	1 div	200 mVpp	2 Vpp	TV	Sync Signal	1 div	200 mVpp					
TV-Line Selection													
Standard			Field 1			Field 2							
NTSC (525H)			1H ~ 263H			1H ~ 262H							
PAL (625H)			1H ~ 313H			1H ~ 312H							
SECAM (625H)			1H - 313H			1H ~ 312H							
TV Sync	TV-V, TV-H, TV-LINE												
Maximum Input	400V (DC+AC Peak) at 1kHz												
Ext. Impedance	1MΩ ± 5% // Approx. 25pF												
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X-Y Operation	Mode	X-Axis : Selectable CH1, EXT, EXT/10		X-Axis: Selectable CH1, CH2, EXT			
		Y-Axis: Selectable CH1, CH2, CH1 & CH2					
	Sensitivity & Accuracy	2mV ~ 5V/div: ± 3% EXT: 0.1V/div: ± 5 % EXT/10 : 1V/div: ± 5%		2mV ~ 5V/div: ± 3% EXT: 0.1V/div: ± 5 %			
	X-Axis Bandwidth Phase Error	DC ~ 500kHz (-3dB) 3° or Less from DC ~ 50kHz					
Output Signal	Trigger Signal Output Calibrator Output	Voltage: Approx. 25mV / Div into 50Ω ; Frequency Response: DC ~ 10MHz 1kHz Squarewave, 2Vpp ± 2%					
Cursor Readout Function	Cursor Measurement Cursor Resolution Effective Cursor Range Panel Setting Display	ΔV, ΔV%, ΔVdB, ΔT, 1/ΔT, ΔT%, ΔØ 1/100 Div Vertical: ± 3 Div ; Horizontal: ± 4 Div Vertical: V/Div (CH1, CH2), UNCAL, ALT / CHOP / ADD, INV, Probe Factor, AC / DC / GND Horizontal: s/Div (MTB, DTB), UNCAL x 10MHG, Delay Time, HO Trigger: Source, Coupling, Slope, Level, TV-V, TV-H Others: X-Y, Lock, Save/Recall MEM 0-9 (Not GOS-6112)					
Auto Measurement Function (GOS-6200 only)	Parameter Function Display Digits Frequency Range Accuracy Measuring Sensitivity	FREQ, PERIOD, ± WIDTH, ± DUTY (+ or - Polarity Selected by Trigger Slope) Max. 6-Digits, Decimal 50Hz ~ 200MHz 1kHz ~ 200MHz : ± 0.01% ; 50Hz ~ 1kHz : ± 0.05% > 2 Div (Measuring Source Selected From CH1 & CH2 as Synchronous Signal Sources)					
Special Function	Auto Set Setup Save/Recall Panel Setups Lock	Time Base & Vertical 10 Sets of Memory Provided	Time Base Only 10 Sets of Memory Provided	N/A	N/A	N/A	N/A
General	Power Source Accessories	AC 100V / 120V / 230V ± 10%, 50/60Hz Instruction Manual x 1, Power Cord x 1					
	Dimensions & Weight	GLF-250 Probe (10:1/1:1) x 2 310mm (W) x 150mm (H) x 470mm (D); 9kg		LF-210E Probe (10:1/1:1) x 2 310mm (W) x 150mm (H) x 455mm (D); 9kg			

ORDERING INFORMATION			
GOS-6200	200MHz, Cursor Readout, Analogue Oscilloscope	GTC-001	Instrument Cart, 450mm (W) x 430mm (D)
GOS-6112	100MHz, 2-Channel, Analogue Oscilloscope	GTC-002	Instrument Cart, 330mm (W) x 430mm (D)
GOS-6103	100MHz, 2-Channel, Analogue Oscilloscope		

