



GOS-6200 (200MHz)

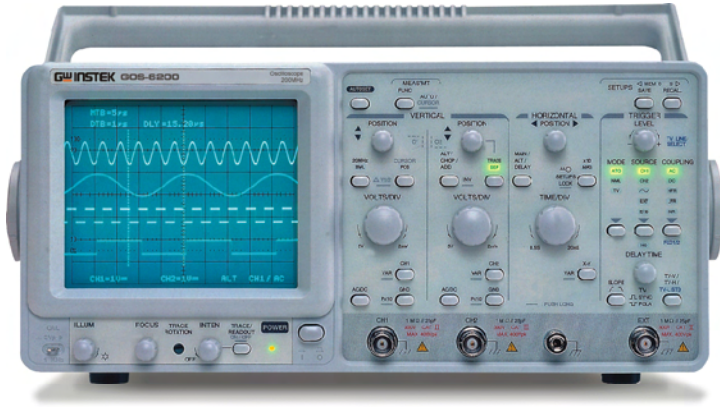


FEATURES

- * 200MHz Bandwidth, Dual Channel, Delayed Sweep
- * Auto Set
- * Built-in 6 Digits Counter
- * Cursor Readout with 7 Measurements
- * 10 Sets Memory for Front Panel Setting Save & Recall
- * TV-Line Selection (NTSC, PAL, SECAM)
- * Panel Setup Lock of Digital-Control Functions
- * Buzzer Alarm
- * LED Indicators
- * Trigger Signal Output
- * Z-axis Modulation Input
- * SMD Technology, High Stability and Reliability

The GOS-6200 Analog Oscilloscope satisfies the massive needs in diverse professional applications up to 200MHz bandwidth. Embedded with Delay Sweep and Hold Off features, the GOS-6200 is capable of measuring sophisticated signals. The Cursor Readout with 7 measurements, Panel Setup Save/Recall, and the built-in 6 Digit Universal Counter all make waveform observation and measurement easier, faster and more accurate. The advanced Time Base Auto Range function, acquired the waveform at the pushbutton convenience, and counter function are the extra benefits available in GOS-6200.

SPECIFICATIONS																																
CRT																																
Type	6-inch rectangular type with internal graticule; 0%, 10%, 90% and 100% markers 8 x 10 div (1 div = 1 cm)																															
Accelerating Potential	14 kV approx.																															
Illumination	Continuously adjustable																															
Z-axis input	Coupling : DC Sensitivity: 5V or more Maximum input voltage : 30V (DC + AC peak) at 1kHz or less Bandwidth : DC ~ 5 MHz																															
VERTICAL SYSTEM																																
Sensitivity	2mV~5V/div, 11 step in 1-2-5 sequence																															
Sensitivity Accuracy	≤ 3% (5div at the center of display)																															
Vernier Vertical Sensitivity	Continuously variable to 1/2.5 or less of panel-indicate value																															
Bandwidth(-3dB)	DC~200MHz (5mV/div:DC~150MHz) ; (2mV/div:DC~20MHz)																															
Rise Time	1.75ns (5mV/div:2.33ns) ; (2mV/div:17.5ns)																															
Signal Delay	Leading edge can be monitored																															
Max. Input Voltage	400V(DC+AC peak) at 1kHz or less																															
Input Coupling	AC, DC, GND																															
Input Impedance	1MΩ ± 2% // approx. 25pF																															
Vertical Mode	CH1, CH2, DUAL(CHOP/ALT), ADD, CH2 INV.																															
Bandwidth Limited	20MHz																															
Common-Mode Rejection Ratio	50:1 or better at 50kHz																															
Dynamic Range	8 div at 100MHz; 5div at 200MHz																															
HORIZONTAL SYSTEM																																
Horizontal Modes	MAIN(A), ALT, DELAY(B)																															
A(main) Sweep Time	20ns~0.5s/div, continuously variable (UNCAL)																															
B(delay) Sweep Time	20ns~50ms/div																															
Accuracy	± 3% (±5% at x 10 MAG)																															
Sweep Magnification	x 10 (maximum sweep time 2ns/div)																															
Hold Off Time	Variable																															
Delay Time	1 μs~5s																															
Delay Jitter	Better than 1:20000																															
Alternate Separation	Variable																															
TRIGGER																																
Trigger Modes	AUTO, NORM, TV																															
Trigger Source	CH1, CH2, LINE, EXT, EXT/10																															
Trigger Coupling	AC, DC, HFR, LFR, NR																															
Trigger Slope	"+" or "-" polarity or TVsync polarity																															
Trigger Sensitivity	<table border="1"> <thead> <tr> <th>Mode</th> <th>Frequency</th> <th>INT</th> <th>EXT</th> <th>EXT/10</th> </tr> </thead> <tbody> <tr> <td rowspan="2">AUTO</td> <td>10 Hz ~ 20 MHz</td> <td>0.35 div</td> <td>50 mV</td> <td>500 mV</td> </tr> <tr> <td>20 MHz ~ 200 MHz</td> <td>1.5 div</td> <td>150 mV</td> <td>1.5 V</td> </tr> <tr> <td rowspan="2">NORM</td> <td>DC ~ 20 MHz</td> <td>0.35 div</td> <td>50 mV</td> <td>500 mV</td> </tr> <tr> <td>20 MHz ~ 200 MHz</td> <td>1.5 div</td> <td>150 mV</td> <td>1.5 V</td> </tr> <tr> <td>TV</td> <td>sync signal</td> <td>1 div</td> <td>200 mV pp</td> <td>2 V pp</td> </tr> </tbody> </table>				Mode	Frequency	INT	EXT	EXT/10	AUTO	10 Hz ~ 20 MHz	0.35 div	50 mV	500 mV	20 MHz ~ 200 MHz	1.5 div	150 mV	1.5 V	NORM	DC ~ 20 MHz	0.35 div	50 mV	500 mV	20 MHz ~ 200 MHz	1.5 div	150 mV	1.5 V	TV	sync signal	1 div	200 mV pp	2 V pp
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Trigger Level Range	INT : ±4div or more; EXT : ±0.4V or more; EXT/10 : ± 4V or more																															
TV Triggering	Mode : TV-V, TV-H, TV-LINE																															
TV-Line Selection	<table border="1"> <thead> <tr> <th>Standard</th> <th>Field 1</th> <th>Field 2</th> </tr> </thead> <tbody> <tr> <td>NTSC (525H)</td> <td>1H ~ 263H</td> <td>1H ~ 262H</td> </tr> <tr> <td>PAL (625H)</td> <td rowspan="2">1H ~ 313H</td> <td rowspan="2">1H ~ 312H</td> </tr> <tr> <td>SECAM (625H)</td> </tr> </tbody> </table>				Standard	Field 1	Field 2	NTSC (525H)	1H ~ 263H	1H ~ 262H	PAL (625H)	1H ~ 313H	1H ~ 312H	SECAM (625H)																		
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Max. External Input Voltage	400V(DC+AC peak) at 1kHz																															
External Input Impedance	1M ±5% // approx.25pF																															
X-Y OPERATION																																
Mode	X-axis: selectable CH1, EXT, EXT/10 ; Y-axis: selectable CH1, CH2, CH1 and CH2																															
Sensitivity Accuracy	2mV~5V/div ± 3%; EXT : 0.1V/div ± 5%; EXT/10 : 1V/div ± 5%																															
X-axis Bandwidth	DC~500kHz(-3dB)																															
Phase Error	3° or less from DC~50kHz																															

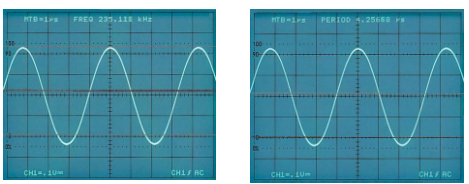


GOS-6200

AUTO AND CURSOR MEASUREMENT FUNCTIONS

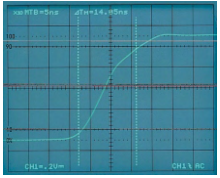
SPECIFICATIONS	
OUTPUT SIGNAL	
Trigger Signal Output	Voltage : approx. 25mV/div into 50Ω; Frequency response : DC ~ 10MHz
Calibrator Output	1kHz square wave, 2Vpp ± 2%
CURSOR READOUT FUNCTION	
Cursor Measurement Function	ΔV , $\Delta V\%$, ΔVdB , ΔT , $1/\Delta T$, $\Delta T\%$, $\Delta \theta$
Cursor Resolution	1/100 div
Effective Cursor Range	Vertical: ±3div; Horizontal: ±4 div
Panel Setting Display	Vertical: V/div(CH1,CH2),UNCAL,ALT/CHOP/ADD,INV, probe factor,AC/DC/GND Horizontal: s/div(MTB, DTB), UNCAL, x 10MAG, delay time , Hold-off Trigger: source, coupling, slope, level, TV-V, TV-H Others: X-Y, lock, save/recall MEM 0-9
AUTO MEASUREMENT FUNCTION	
Parameter Function	FREQ, PERIOD, \pm WIDTH, \pm DUTY (+ or - polarity selected by trigger slope)
Display Digits	Max. 6-digits, decimal
Frequency Range	50Hz ~ 200MHz
Accuracy	1kHz ~ 200MHz : ±0.01%; 50Hz ~ 1kHz : ±0.05%
Measuring Sensitivity	> 2 DIV (Measuring source selected from CH1 and CH2 as synchronous signal sources)
SPECIAL FUNCTION	
Auto Set	Input Channel: CH1, CH2; Frequency Response 50Hz ~50MHz
Panel Setting Save & Recall	10 sets
Panel Setups Lock	Provided
POWER SOURCE	
AC 100V/120V/230V±10% , 50/60Hz	
DIMENSIONS & WEIGHT	
310(W) x 150(H) x 470(D) mm ; Approx. 9kg	

ORDERING INFORMATION	
GOS-6200	200MHz Cursor Readout Analog Oscilloscope
ACCESSORIES :	
User manual x 1, Power cord x 1, GTP-250A Probe x 2	
Optional Accessories	
GTC-001	Instrument Cart, 450(W) x 430(D) mm (120V Input Socket)
GTC-002	Instrument Cart, 330(W) x 430(D) mm (120V Input Socket)

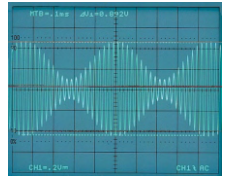


AUTO Mode : Frequency

AUTO Mode : Period

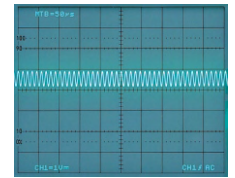


RISE Time (ΔT)

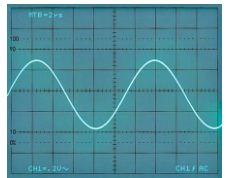


Voltage (ΔV)

AUTOSET FUNCTION

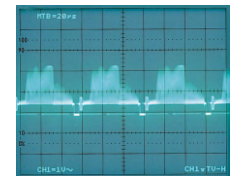


Before AUTASET
Screen after unknown signal input.

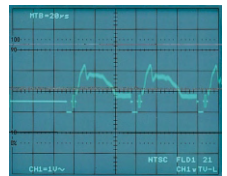


After AUTASET
Optimum screen display after pressing a button.

TV-H, TV-V, FIELD/LINE SELECTOR



TV - H



TV - L