

# Cursor Readout Analog Oscilloscope



## FEATURES

- \* 200MHz Bandwidth, Dual Channel, Delayed Sweep
- \* Auto Set
- \* Built-in 6 Digits Universal 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

## GOS-6200 (200MHz)

## SPECIFICATIONS

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

## GOS-6200(200MHz)

SPECIFICATIONS		
OUTPUT SIGNAL	Trigger Signal Output Calibrator Output	Voltage : approx. 25mV/div into 50Ω ;Frequency response : DC ~ 10MHz 1kHz square wave, 2Vpp ± 2%
CURSOR READOUT FUNCTION	Cursor Measurement Function Cursor Resolution Effective Cursor Range Panel Setting Display	$\Delta V, \Delta V\%, \Delta VdB, \Delta T, 1/\Delta T, \Delta T\%, \Delta \theta$ 1/100 div Vertical: ± 3div; 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 10MAG, delay time, HO Trigger: source, coupling, slope, level, TV-V, TV-H Others: X-Y, lock, save/recall MEM 0-9
AUTO MEASUREMENT FUNCTION	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 and CH2 as synchronous signal sources)
SPECIAL FUNCTION	Auto Set Panel Setting Save & Recall Panel Setups Lock	Input Channel: CH1, CH2; Frequency Response 50Hz ~ 50MHz 10 sets Provided
POWER SOURCE		AC 100V/120V/230V ± 10% , 50/60Hz
ACCESSORIES		Instruction manual x 1, Power cord x 1, GLF-250 Probe (10:1/1:1) x 2
DIMENSIONS & WEIGHT		310(W) x 150(H) x 470(D) mm ; Approx. 9kg

### AUTO AND CURSOR MEASUREMENT FUNCTIONS

AUTO Mode : Frequency

AUTO Mode : Period

RISE Time (  $\Delta T$  )

Voltage (  $\Delta V$  )

### AUTOSET FUNCTION

Before AUTOSET                      After AUTOSET  
Screen after unknown signal input.   Optimum screen display after pressing a button.

### TV FIELD/LINE SELECTOR

TV - H

TV - L

### ORDERING INFORMATION

GOS-6200 200MHz Cursor Readout Analog Oscilloscope

#### Option

Opt. 01 : GTC-001 Instrument Cart, 450(W) x 430(D) mm  
Opt. 02 : GTC-002 Instrument Cart, 330(W) x 430(D) mm