

## Cursor Readout Analog Oscilloscope



### FEATURES

- \* 100MHz Bandwidth, Dual Channel, Delayed Sweep
- \* Built-In 6 Digit Universal Counter (GOS-6103C)
- \* 10 Sets Memory for Front Panel Setting Save & Recall (GOS-6103/GOS-6103C)
- \* Time Base Auto-range (GOS-6103/GOS-6103C)
- \* Cursor Readout with 7 Measurements
- \* Panel Setup Lock of Digital-Control Functions
- \* Buzzer Alarm
- \* LED Indicators
- \* TV Synchronization
- \* Trigger Signal Output
- \* Z-Axis Modulation Input
- \* SMD Technology, High Stability and Reliability

### GOS-6112/6103/6103C (100 MHz)

#### SPECIFICATIONS

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<b>CRT</b>	Type	6-inch rectangular type with internal graticule; 0%, 10%, 90% and 100% markers. 8 x 10 div (1 div = 1 cm)			
	Accelerating Potential Illumination Z-axis input	16 kV approx. (GOS-6103/GOS-6103C), 12kV approx. (GOS-6112) Continuously adjustable (GOS-6103/GOS-6103C) Coupling : DC Sensitivity: 5V or more Maximum input voltage : 30V (DC + AC peak) at 1kHz or less Bandwidth : DC ~ 5 MHz			
<b>VERTICAL SYSTEM</b>	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	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~100MHz(2mV/div:DC~20MHz) 3.5ns (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 60MHz; 5div at 100MHz (GOS-6112) 8 div at 100MHz (GOS-6103/GOS-6103C)			
<b>HORIZONTAL SYSTEM</b>	Horizontal Modes A(main) Sweep Time B(delay) Sweep Time Accuracy Sweep Magnification Hold Off Time Delay Time Delay Jitter Alternate Separation	MAIN(A), ALT, DELAY(B) 50ns~0.5s/div, continuously variable (UNCAL) 50ns~50ms/div ± 3% (± 5% at x 10 MAG) x 10 (maximum sweep time 5nS/div) Variable 1 μs~5s Better than 1:20000 Variable			
<b>TRIGGER</b>	Trigger Modes Trigger Source Trigger Coupling Trigger Slope Trigger Sensitivity	AUTO, NORM,TV CH1,CH2,LINE,EXT AC,DC,HFR,LFR "+" or "-" polarity or TVsync polarity			
	TV sync Max. External Input Voltage External Input Impedance	TV-V, TV-H 400V(DC+AC peak) at 1kHz 1MΩ ± 5% // approx.25pF			
<b>X-Y OPERATION</b>	Mode Sensitivity Accuracy X-axis Bandwidth Phase Error	X-axis: selectable CH1, CH2, EXT ; Y-axis: selectable CH1, CH2, CH1 and CH2 2mV~5V/div ± 3% ; EXT : 0.1V/div ± 5% DC~500kHz(-3dB) 3° or less from DC~50kHz			
<b>OUTPUT SIGNAL</b>	Trigger Signal Output Calibrator Output	Voltage: approx. 25mV/div into 50Ω ; Frequency response : DC ~ 10MHz 1kHz Square wave, 2Vpp ± 2%			

# Cursor Readout Analog Oscilloscope



**GOS-6112**

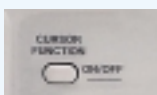


**GOS-6103/6103C**

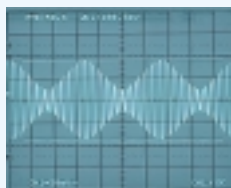
## SPECIFICATIONS

<b>CURSOR READOUT FUNCTION</b>	<b>Cursor Measurement Function</b> <b>Cursor Resolution</b> <b>Effective Cursor Range</b> <b>Panel Setting Display</b>	$\Delta V, \Delta V\%, \Delta VdB, \Delta T, 1/\Delta T, \Delta T\%, \Delta \theta$ 1/100 DIV Vertical: $\pm 3$ div ; Horizontal: $\pm 4$ 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 (GOS-6103/GOS-6103C)
<b>AUTO MEASUREMENT FUNCTION (GOS-6103C)</b>	<b>Parameter Function</b> <b>Display Digits</b> <b>Frequency Range</b> <b>Accuracy</b> <b>Measuring Sensitivity</b>	FREQ, PERIOD, $\pm$ WIDTH, $\pm$ DUTY (+ or - polarity selected by trigger slope) Max. 6-digits, decimal 50Hz ~ 100MHz 1kHz ~ 100MHz : $\pm 0.01\%$ ; 50Hz ~ 1kHz : $\pm 0.05\%$ > 2 div (Measuring source selected from CH1 and CH2 as synchronous signal sources)
<b>SPECIAL FUNCTION</b>	<b>TIME/DIV Auto Range</b> <b>Panel Setting Save &amp; Recall</b> <b>Panel Setups Lock</b>	Provided (GOS-6103/GOS-6103C) 10 sets (GOS-6103/GOS-6103C) Provided
<b>POWER SOURCE</b>		AC 100V/120V/230V $\pm 10\%$ , 50/60Hz
<b>ACCESSORIES</b>		Instruction manual x 1; Power cord x 1; LF-210E Probe (10:1/1:1) x 2
<b>DIMENSIONS &amp; WEIGHT</b>		310(W) x 150(H) x 455(D) mm ; Approx. 9kg

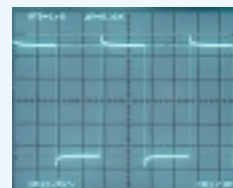
## CURSOR MEASUREMENT FUNCTIONS



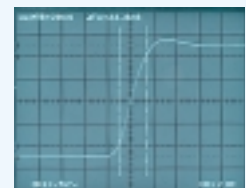
The unique easy-to-use cursor and numerical readouts make waveform observation and measurement easier, faster and more accurate. The on screen cursors provide seven measurement functions ( $\Delta V, \Delta V\%, \Delta VdB, \Delta T, 1/\Delta T, T\%, \Delta \theta$ )



**Voltage Measurement**



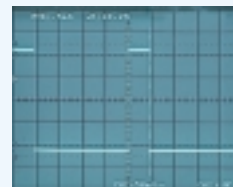
**Voltage percentage Measurement**



**Time Measurement**



**Frequency Measurement**



**Time percentage Measurement**



**Phase Measurement**

## ORDERING INFORMATION

**GOS-6112** 100MHz, 2-channel, Analog Oscilloscope  
**GOS-6103** 100MHz, 2-channel, Analog Oscilloscope  
**GOS-6103C** 100MHz, 2-channel, Analog Oscilloscope with 100MHz Frequency Counter

### 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

NOTE : GOS-6103C Without  Approved