



The GOS-6100 Series Analog Oscilloscope satisfies the massive needs in diverse professional applications up to 100MHz bandwidth. The advanced Time Base Auto-range function acquires the waveform at the pushbutton convenience (GOS-6103/6103C only). Embedded with Delay Sweep and Hold Off features, the GOS-6100 Series is capable of measuring sophisticated signals. The Cursor Readout with 7 measurements, Panel Setup Save/Recall (GOS-6103/6103C only), and the built-in 6 Digit Universal Counter (GOS-6103C only) all make waveform observation and measurement easier, faster and more accurate.

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



GOS-6103C Without CE Approved

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

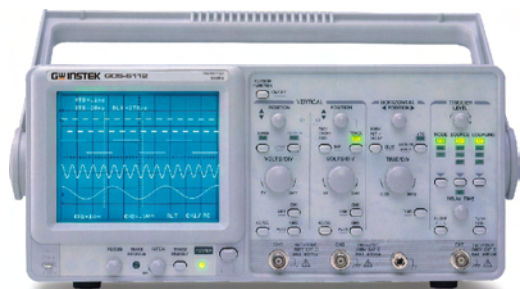
CURSOR MEASUREMENT FUNCTIONS



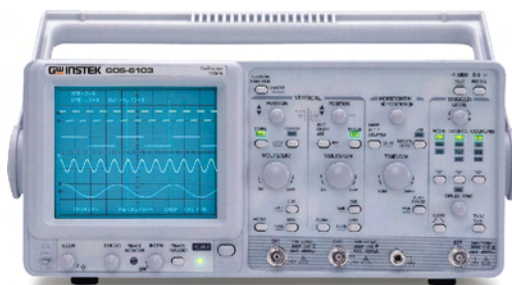
The unique easy-to-use cursor and numerical readouts make waveform observation and measurement easier, faster and more accurate. The on-screen cursors provide seven measurement functions (ΔV , $\Delta V\%$, ΔVdB , ΔT , $1/\Delta T$, $T\%$, $\Delta \theta$)

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	16 kV approx. (GOS-6103/GOS-6103C), 12kV approx. (GOS-6112)																						
Illumination	Continuously adjustable (GOS-6103/GOS-6103C)																						
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~100MHz(2mV/div);DC~20MHz																						
Rise Time	3.5ns (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 60MHz; 5 div at 100MHz (GOS-6112) 8 div at 100MHz (GOS-6103/GOS-6103C)																						
HORIZONTAL SYSTEM																							
Horizontal Modes	MAIN(A), ALT, DELAY(B)																						
A(main) Sweep Time	50ns~0.5s/div, continuously variable (UNCAL)																						
B(delay) Sweep Time	50ns~50ms/div																						
Accuracy	±3% (±5% at x 10 MAG)																						
Sweep Magnification	x 10 (maximum sweep time 5ns/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																						
Trigger Coupling	AC,DC,HFR,LFR																						
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> </tr> </thead> <tbody> <tr> <td rowspan="2">AUTO</td> <td>10 Hz ~ 20 MHz</td> <td>0.35 div</td> <td>50 mV</td> </tr> <tr> <td>20 MHz ~ 100 MHz</td> <td>1.5 div</td> <td>150 mV</td> </tr> <tr> <td rowspan="2">NORM</td> <td>DC ~ 20 MHz</td> <td>0.35 div</td> <td>50 mV</td> </tr> <tr> <td>20 MHz ~ 100 MHz</td> <td>1.5 div</td> <td>150 mV</td> </tr> <tr> <td>TV</td> <td>sync signal</td> <td>1 div</td> <td>200 mVpp</td> </tr> </tbody> </table>	Mode	Frequency	INT	EXT	AUTO	10 Hz ~ 20 MHz	0.35 div	50 mV	20 MHz ~ 100 MHz	1.5 div	150 mV	NORM	DC ~ 20 MHz	0.35 div	50 mV	20 MHz ~ 100 MHz	1.5 div	150 mV	TV	sync signal	1 div	200 mVpp
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TV sync	TV-V, TV-H																						
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, CH2, EXT ; Y-axis: selectable CH1, CH2, CH1 and CH2																						
Sensitivity Accuracy	2mV~5V/div±3% ; EXT : 0.1V/div ±5%																						
X-axis Bandwidth	DC~500kHz(-3dB)																						
Phase Error	3° or less from DC~50kHz																						
OUTPUT SIGNAL																							
Trigger Signal Output	Voltage: approx. 25mV/div into 50Ω ; Frequency response : DC ~ 10MHz																						
Calibrator Output	1kHz Square wave, 2Vpp ±2%																						



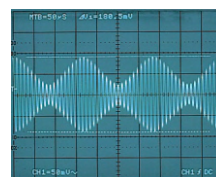
GOS-6112



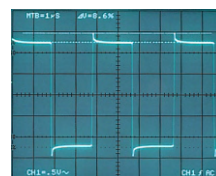
GOS-6103/6103C

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

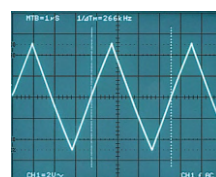
ORDERING INFORMATION	
GOS-6112	100MHz, 2-channel, Analog Oscilloscope
GOS-6103	100MHz, 2-channel, Analog Oscilloscope
GOS-6103C	100MHz, 2-channel, Analog Oscilloscope with 100MHz Frequency Counter
ACCESSORIES :	
User manual x 1; Power cord x 1; GTP-100A Probe x 2	
Optional Accessories	
GTC-001	Instrument Cart, 450(W) x 430(D) mm (120V Input Socket)
GTC-002	Instrument Cart, 330(W) x 430(D) mm (120V Input Socket)



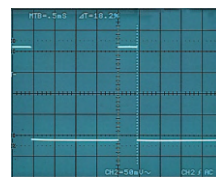
Voltage Measurement



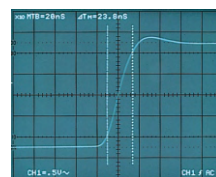
Voltage percentage Measurement



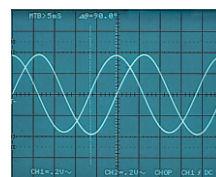
Frequency Measurement



Time percentage Measurement



Time Measurement



Phase Measurement