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

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; 5div 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	1μs~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	(see table below)
	TV sync	TV-V, TV-H
	Max. External Input Voltage	400V(DC+AC peak) at 1kHz
	External Input Impedance	1MΩ±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

Mode	Frequency	INT	EXT
AUTO	10 Hz ~ 20 MHz 20 MHz ~ 100 MHz	0.35 div 1.5 div	50 mV 150 mV
NORM	DC ~ 20 MHz 20 MHz ~ 100 MHz	0.35 div 1.5 div	50 mV 150 mV
TV	sync signal	1 div	200 mV_{pp}

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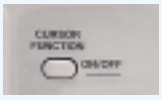
GOS-6112

GOS-6103/6103C

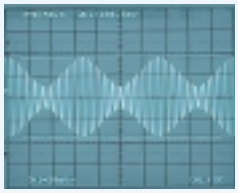
SPECIFICATIONS

CURSOR READOUT FUNCTION	**Cursor Measurement Function**	△V, △V%, △VdB, △T, 1/△T, △T%, △ θ
	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 , HO 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, ±WIDTH, ±DUTY (+ or - polarity selected by trigger slope)
	Display Digits	Max. 6-digits, decimal
	Frequency Range	50Hz ~ 100MHz
	Accuracy	1kHz ~ 100MHz : ±0.01% ; 50Hz ~ 1kHz : ±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±10% , 50/60Hz
ACCESSORIES		Instruction manual x 1; Power cord x 1; LF-210E Probe (10:1/1:1) x 2
DIMENSIONS & WEIGHT		310(W) x 150(H) x 455(D) mm ; Approx. 9kg

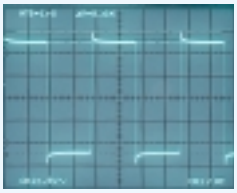
CURSOR MEASUREMENT FUNCTIONS



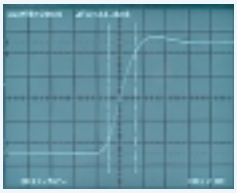
The unique easy-to-use cursor and numerical readouts make waveform observation and measurement easier, faster and more accurate. The on screen cursors provide seven measurement functions (△V, △V%,△VdB,△T, 1/△ T,T%,△θ)



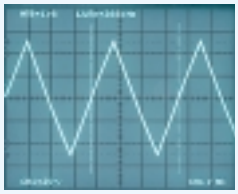
Voltage Measurement



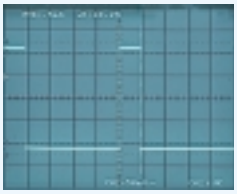
Voltage percentage Measurement



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 CE Approved