



**GFC-8270H (2.7GHz)**  
**GFC-8131H (1.3GHz)**

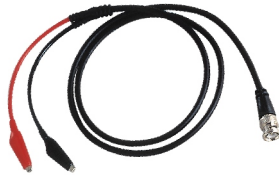
The GFC-8000 Series performs virtually all of the counting measurements required in laboratories, in terms of both period and frequency. A bright red 8 digit LED display with an included overflow indicator provides a clear view. Both models feature a stable time base with a maximum resolution of 100nHz and 10nS at 1Hz for frequency and period measurement, respectively. Gate time can be configured for fast response (5 digits/10ms) or accuracy (7 digits/s) for more control. For high frequency needs, the GFC-8270H can operate at up to 2.7GHz. The GFC-8000 Series feature easy operation with a simple front panel interface, suitable for both portable and bench-top use.

## FEATURES

- \* Frequency and Period Measurement
- \* High Resolution at Both High and Low Frequency
- \* 0.01Hz~2.7GHz Frequency Range(GFC-8270H)
- \* 0.01Hz~1.3GHz Frequency Range(GFC-8131H)
- \* 10mV rms High Sensitivity
- \* 100nHz Resolution for 1Hz
- \* Variable Trigger Level Control
- \* Microprocessor Controlled Intelligent Counter(only GFC-8270H)

### GTL-101 Test Lead

BNC-Alligator Heads



### GTL-110 Test Lead

BNC-BNC Heads



SPECIFICATIONS	
<b>DISPLAY</b>	
	8 digits with Hz, kHz, MHz, GHz, S, mS, $\mu$ S, nS and overflow
<b>GATE TIME</b>	
	Variable from 10ms to 10s, or 1 period of input depending on whichever is greater
<b>ACCURACY</b>	
	$\pm$ (Resolution $\pm$ timebase error)
<b>CHANNEL A</b>	
<b>Range</b>	DC coupled 0.01Hz ~ 120MHz AC coupled 30Hz ~ 120MHz
<b>Sensitivity</b>	10mV rms typical, 50mV rms max
<b>Coupling</b>	AC or DC, switchable
<b>Filter</b>	Low pass, switchable in or out for channel A -3dB point of nominally 100kHz
<b>Impedance</b>	1M //40pF
<b>Attenuator</b>	1/1 or 1/20dB
<b>Trigger Level</b>	-2.5 VDC ~ + 2.5 VDC
<b>Adjustment</b>	
<b>Resolution</b>	For frequency measurement, the maximum resolution is 100nHz for 1Hz and 0.1Hz for 100MHz inputs respectively. For period measurement, the maximum resolution is 10nS for 1Hz and $0.1 \times 10^{-10}$ S for 100MHz inputs respectively. At least, the display is 7 digits for 1sec, 6 digits for 100ms, 5 digits for 10ms gate time respectively.
<b>Period Range</b>	8nS to 100S at least 7 digits displayed for per second of gate time
<b>CHANNEL B</b>	
<b>Range</b>	50MHz ~ 2.7GHz for GFC-8270H 50MHz ~ 1.3GHz for GFC-8131H
<b>Sensitivity</b>	$\leq$ 50mVrms (10mVrms typical) for GFC-8270H $\leq$ 40mVrms (10mVrms typical) for GFC-8131H
<b>Coupling</b>	AC only
<b>TIME BASE</b>	
<b>Aging rate</b>	1PPM, per Month
<b>Temperature</b>	5PPM $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$
<b>Line variation</b>	0.005ppm for $\pm$ 10% variation
<b>POWER SOURCE</b>	
	AC 100V/120V/220V/230V $\pm$ 10%, 50/60Hz
<b>DIMENSIONS &amp; WEIGHT</b>	
	230(W) x 95(H) x 280(D)mm, Approx. 2.2kg

## ORDERING INFORMATION

- GFC-8131H** 1.3GHz Intelligent Counter  
**GFC-8270H** 2.7GHz Intelligent Counter

ACCESSORIES :

User manual x 1 , Power cord x 1 , GTL-110 x 1 , GTL-101 x 1

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