

GFC-8270H / GFC-8131H Specifications

The specifications apply when the GFC-8270H / GFC-8131H is powered on for at least 30 minutes under +20°C~+30°C.



GFC-8270H



GFC-8131H

DISPLAY	
	8 digits with Hz, kHz, MHz, GHz, s, ms, μ s, and overflow
GATE TIME	
	Variable from 10ms to 10s, or 1 period of input depending on whichever is greater
ACCURACY	
	\pm (resolution \pm timebase error)
CHANNEL A	
Range	DC coupling: 0.01Hz ~ 120MHz AC coupling: 30Hz ~ 120MHz
Sensitivity	10mV typical, 50mV maximum
Coupling	AC or DC, selectable
Filter	Low pass, selectable in or out for channel A (-3dB point, nominal 100kHz)
Impedance	1M Ω // 40pF
Attenuator	1/1 or 1/20dB
Trigger Level	-2.5VDC ~ +2.5VDC
Adjustment Resolution	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 input, and 0.1x10 ⁻¹⁵ s for 100MHz inputs respectively.
Display Accuracy	7 digits for 1 sec gate time 6 digits for 100ms gate time 5 digits for 10ms gate time
Period Range	8ns ~ 100s (at least 7 digits displayed per gate time)
CHANNEL B	
Range	50MHz ~ 2.7GHz for GFC-8270H 50MHz ~ 1.3GHz for GFC-8131H
Sensitivity	<50mVrms (10mVrms typical) for GFC-8270H <40mVrms (10mVrms typical) for GFC-8131H
Coupling	AC only

TIME BASE	
Aging Rate	1ppm per month
Temperature	5ppm, 23°C ± 5°C
Line Variation	0.005ppm for ± 10% variation
POWER SOURCE	
	AC 100V/120V/220V/230V ±10%, 50/60Hz; Power consumption: 15VA max.
DIMENSIONS & WEIGHT	
	230(W) × 95(H) × 280(D) mm Approx. 2.2kg