Intelligent Counter

GFC-8270H(2.7GHz)

*** Frequency, Period Measurement**
*** Microprocessor Controlled Intelligent Counter**
*** High Resolution at Both High and Low Frequency**
*** 0.01Hz ~ 2.7GHz Frequency Range**
*** 10mV rms High Sensitivity**
*** 100nHz Resolution for 1Hz**
*** Self Diagnosis Routine**
*** Variable Trigger Level Control**
*** Display Hold Function**

SPECIFICATIONS	
DISPLAY	8 digits with Hz, kHz, MHz, GHz, S, mS,mS, nS and overflow
GATE TIME	Variable from 10ms to 10s, or 1 period of input whichever is greater
ACCURACY	±(Resolution±timebase error)
CHANNEL A	
Range	DC coupled 0.01Hz ~ 120MHz AC coupled 30Hz ~ 120MHz
Sensitivity	10mV rms typical, 50mV rms max
Coupling	AC or DC switchable
Filter	Low pass, switchable in or out for channel A -3dB point of nominally 100kHz
Impedance	1MW//40pF
Attenuator	20dB
Trigger Level Adjustment	-2.5 VDC to + 2.5 VDC
Resolution	The maximum resolution is 100nHz for 1Hz and 0.1Hz for 100MHz inputs respectively for frequency measurement and 100nS for 1Hz and 10^{-15}S for 100MHz inputs respectively for period measurement At least 7,6,5 digits are displayed for 1 sec, 100mS, 10mS gate time respectively
Period Range	8nS to 100S at least 7 digits displayed for per second of gate time
CHANNEL B	
Range	50MHz to 2.7GHz
Sensitivity	≤ 50mVrms (10mVrms typical)
Coupling	AC only
TIME BASE	
Aging rate	1PPM, per Month
Temperature	5PPM 23℃±5℃
Line variation	± 0.005PPM for ±10% variation
POWER SOURCE	AC 100V/120V/ 220V/240V ±10%, 50/60Hz
ACCESSORIES	Power cord x 1, Instruction Manual x 1 GTL-110 x 1, GTL-101 x 1
DIMENSIONS & WEIGHT	230(W) x 95(H) x 280(D)mm, Approx. 2.2kg

GFC-8131H(1.3GHz)

*** Frequency and Period Measurement**
*** High Resolution at Both High and Low Frequency**
*** 0.01Hz ~ 1.3GHz Frequency Range**
*** 10mV rms High Sensitivity**
*** 100nHz Resolution for 1Hz**
*** Variable Trigger Level Control**
*** Display Hold Function**

SPECIFICATIONS	
DISPLAY	8 digits with Hz, kHz, MHz, GHz, S, mS,mS, nS and overflow
GATE TIME	Variable from 10ms to 10s, or 1 period of input depending on whichever is greater
ACCURACY	±(Resolution±timebase error)
CHANNEL A	
Range	DC coupled 0.01Hz ~ 120MHz AC coupled 30Hz ~ 120MHz
Sensitivity	10mV rms typical, 50mV rms max
Coupling	AC or DC, switchable
Filter	Low pass, switchable in or out for channel A -3dB point of nominally 100kHz
Impedance	1MW//40pF
Attenuator	20dB
Trigger Level Adjustment	-2.5 VDC to + 2.5 VDC
Resolution	The maximum resolution is 100nHz for 1Hz and 0.1Hz for 100MHz inputs respectively for frequency measurement and 10nS for 1Hz and $0.1x10^{-15}$S for 100MHz inputs respectively for period measurement At least 7,6,5 digits are displayed for 1 sec, 100mS, 10mS gate time respectively
Period Range	8nS to 100S at least 7 digits displayed for per second of gate time
CHANNEL B	
Range	50MHz to 1.3GHz
Sensitivity	≤ 40mVrms (10mVrms typical)
Coupling	AC only
TIME BASE	
Aging rate	1PPM, per Month
Temperature	5PPM 23℃±5℃
Line variation	0.005PPM for ±10% variation in line voltage
POWER SOURCE	AC 100V/120V/220V/230V ±10%, 50/60Hz
ACCESSORIES	Power cord x 1, Instruction Manual x 1 GTL-110 x 1, GTL-101 x 1
DIMENSIONS & WEIGHT	230(W) x 95(H) x 280(D)mm, Approx. 2.2kg