

TRANSCAT®

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35 Vantage Point Drive // Rochester, NY 14624 // Call 1.800.800.5001



FEATURES

- * 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

GFC-8131H(1.3GHz)

SPECIFICATIONS	
DISPLAY	8 digits with Hz, kHz, MHz, GHz, S, mS, μ S, nS 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 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	1M Ω //40pF
Attenuator	20dB
Trigger Level Adjustment	-2.5 VDC ~ + 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 0.1×10^{-11} 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	\leq 40mVrms (10mVrms typical)
Coupling	AC only
TIME BASE	
Aging rate	1PPM, per Month
Temperature	5PPM 23°C \pm 5°C
Line variation	0.005PPM for \pm 10% variation in line voltage
POWER SOURCE	AC 100V/120V/220V/230V \pm 10%, 50/60Hz
ACCESSORIES	Instruction Manual x 1, Power cord x 1 GTL-110 x 1, GTL-101 x 1
DIMENSIONS & WEIGHT	230(W) x 95(H) x 280(D)mm, Approx. 2.2kg

ORDERING INFORMATION

GFC-8131H 1.3GHz Intelligent Counter

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