

Instek Function Generator

Part No. 01GFG8250

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GFG-8250A

FEATURES

- Frequency Range \square 0.5Hz ~ 5MHz
- Waveforms \square Sine, Triangle, Square, Ramp, TTL and CMOS Output
- External Voltage Controlled Frequency (VCF) Function
- Duty Cycle Controlled with Signal Inversion Capability
- Variable DC Offset Control
- Two-Step (-20dB x 2) and Variable Attenuator
- Built-in 6 Digit Counter with INT./EXT. Function up to 150MHz / high resolution

SPECIFICATIONS

Main

Frequency Range	0.5Hz to 5 MHz (7 ranges)
Amplitude	>10Vp-p (into 50 Ω load)
Impedance	50 Ω \pm 10%
Attenuator	-20dB \pm 1dB x 2
DC Offset	<-5V ~ >5V (into 50 Ω load)
Duty Control	80% : 20% : 80% to 1MHz Continue variable
Display	6 digits LED display

Sine Wave

Distortion	\leq 1%, 0.5Hz ~ 100kHz
Flatness	\leq 0.3dB, below 500kHz \square \leq 1dB, below 5MHz

Triangle Wave

Linear	\geq 98%, 0.5Hz ~ 100kHz \square \geq 95%, 100kHz ~ 5MHz
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Square Wave

Symmetry	\pm 2%, 1Hz ~ 100kHz
Rise or Fall Time	\leq 50nS at maximum output (into 50 Ω load)

CMOS Output

Level	4Vpp±1Vpp ~ 14.5Vpp±0.5Vpp adjustable
Rise or Fall Time	≤120nS

TTL Output

Level	≥3Vpp
Fan Out	20 TTL load
Rise/Fall Time	≤25nS

VCF

Input Voltage	0V~10V ±1V(100 : 1)
Input Impedance	10kΩ ±10%

Frequency Counter

INT./EXT.	Switch selector
Range	0.5Hz ~ 5MHz (5Hz ~ 150MHz EXT.)
Accuracy	Timebase accuracy ±1 Count
Timebase	±20ppm (23°C±5°C) after 30 minutes warm up
Resolution	The maximum resolution is 100nHz for 1Hz and 1Hz for 100MHz
Input Impedance	1MΩ//150pF
Sensitivity	≤35mVrms (5Hz ~ 100MHz)□ ≤45mVrms (100MHz ~ 150MHz)

Power Source	AC 115V/230V±15%, 50/60Hz
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Accessories	Power cord ×1, Instruction manual × 1, GTL-101 × 2
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Dimensions & Weight	251(W) × 91(H) × 291(D) mm, Approx. 2.4kg
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