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TECHNOLOGY GROUP

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Artisan Technology Group
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Find the *Instek GFG-8255A* at our website: *Click HERE*

Function Generator



GFG-8255A (5MHz)



GFG-8250A (5MHz)

FEATURES

* Frequency Range: 0.5Hz ~ 5MHz
* Waveforms: Sine, Triangle, Square, Ramp, TTL and CMOS Output
* External Voltage Controlled Frequency (VCF) Function
* Duty Cycle Control with Signal Inversion Capability
* Variable DC Offset Control
* Two-Step (-20dBx2) and Variable Attenuator
* Built-in 6 Digit Counter with INT/EXT Function Up to 150MHz / High Resolution
* INT/EXT AM/FM Modulation (GFG-8255A)
* GCV Output for Synchronization (GFG-8255A)
* LIN/LOG Sweep Mode (GFG-8255A)

SPECIFICATIONS

MAIN

Frequency Range	0.5Hz ~ 5MHz (7 Range)
Amplitude	> 10Vpp (into 50Ω load)
Impedance	50Ω ± 10%
Attenuator	-20dB ± 1dBx2
DC Offset	<-5V ~ >5V (into 50Ω load)
Duty Control	80% : 20% : 80% to 1MHz Continue variable
Display	6 digit LED display

SINE WAVE

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

TRIANGLE WAVE

Linear	≥ 98%, 0.5Hz ~ 100kHz ≥ 95%, 100kHz ~ 5MHz

SQUARE WAVE

Symmetry	± 2%, 1Hz ~ 100kHz
Rise or Fall Time	≤ 50nS at maximum output (into 50Ω 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 or Fall Time	≤ 25nS

VCF

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

GCV(FOR GFG-8255A ONLY)

Output Voltage	To set the voltage between 0V ~ 2V as per different frequency

SWEEP OPERATION (FOR GFG-8255A ONLY)

Sweep/Manual	Switch selector
Sweep/Rate	100 : 1 ratio max. and adjustable
Sweep/Time	0.5sec. ~ 30sec. adjustable
Sweep/Mode	Lin./Log. switch selector

AMPLITUDE MODULATION (FOR GFG-8255A ONLY)

Depth	0 ~ 100%
MOD. Frequency	400Hz (INT), DC ~ 1MHz(EXT.)
Carrier BW	100Hz ~ 5MHz (-3dB)
EXT Sensitivity	≤ 10Vpp for 100% modulation

FREQUENCY MODULATION (FOR GFG-8255A ONLY)

Deviation	0 ~± 5%
MOD. Frequency	400Hz (INT), DC ~ 20kHz(EXT.)
EXT. Sensitivity	≤ 10Vpp for 10% modulation

FREQUENCY COUNTER

INT./EXT.	Switch selector
Range	0.5Hz ~ 5MHz (5Hz ~ 150MHz EXT.)
Accuracy	Time base accuracy ± 1 count
Time Base	±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
AC115V/230V ± 15%, 50/60Hz

ACCESSORIES
Instruction manual x 1, Power cord x 1, GTL-101 x 2

DIMENSIONS & WEIGHT
251(W) x 91(H) x 291(D)mm, Approx. 2.4kg

ORDERING INFORMATION

GFG-8255A	5MHz Function Generator with Lin/Log Sweep, GCV Function, AM/FM Modulation
GFG-8250A	5MHz Function Generator

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

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