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Find the *Instek GFG-8250A* 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<br>≤1dB, below 5MHz |

**TRIANGLE WAVE**

| | |
|---|---|
| Linear | ≥ 98%, 0.5Hz ~ 100kHz<br>≥ 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) ;<br>≤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 |

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