

SPECIFICATIONS

MODEL		GFG-8215A/8216A/8217A/8219A	GFG-8250A / 8255A
MAIN	Frequency Range Amplitude Impedance Attenuator DC Offset Duty Control Display Range Accuracy	0.3Hz ~ 3MHz (7 Range) > 10Vpp (into 50 load) 50 ±10% -20dB ± 1dBx2 <-5V ~ >5V (into 50 load) 80% : 20% : 80% to 1MHz Continue variable 6 digit LED display *GFG-8215A does not have display. ±5%+1Hz (at 3 position) *only for GFG-8215A	0.5Hz ~5MHz (7 Range) > 10Vpp (into 50 load) 50 ±10% -20dB ± 1dBx2 <-5V ~ >5V (into 50 load) 80% : 20% : 80% to 1MHz Continue variable 6 digit LED display
SINE WAVE	Distortion Flatness	≤ 1%, 0.3Hz ~ 200kHz THD ≤ 35dB below fundamental in all range (Specification applied from MAX. to 1/10 level) < 0.3dB, 0.3Hz ~ 300kHz < 0.5dB, 300kHz ~ 3MHz	≤1%, 0.5Hz ~ 100kHz THD ≤ 30dB below fundamental in all range (Specification applied from MAX. to 1/10 level) ≤0.3dB, below 500kHz ≤1dB, below 5MHz
TRIANGLE WAVE	Linear	≥ 98%, 0.3Hz ~ 100kHz ≥ 95%, 100kHz ~ 3MHz	≥ 98%, 0.5Hz ~ 100kHz ≥ 95%, 100kHz ~ 5MHz
SQUARE WAVE	Symmetry Rise or Fall Time	± 2%, 0.3Hz ~ 100kHz ≤ 100nS at maximum output (into 50 load)	± 2%, 1Hz ~ 100kHz ≤ 50nS at maximum output (into 50 load)
CMOS OUTPUT	Level Rise or Fall Time	4Vpp ±1Vpp ~ 14.5Vpp ±0.5Vpp adjustable ≤ 120nS	4Vpp ±1Vpp ~ 14.5Vpp ±0.5Vpp adjustable ≤ 120nS
TTL OUTPUT	Level Fan Out Rise or Fall Time	≥ 3Vpp 20 TTL load ≤ 25nS	≥ 3Vpp 20 TTL load ≤ 25nS
VCF	Input Voltage Input Impedance	0V ~ 10V ±1V (100 : 1) 10k ±10%	0V ~ 10V ±1V (100 : 1) 10k ±10%
GCV (for GFG-8219A/8255A only)	Output Voltage	To set the voltage between 0V ~ 2V as per different frequency	To set the voltage between 0V ~ 2V as per different frequency
SWEEP OPERATION (for GFG-8217A/8219A/8255A only)	Sweep/Manual Sweep/Rate Sweep/Time Sweep/Mode	Switch selector 100 : 1 ratio max. and adjustable 0.5sec. ~ 30sec. adjustable Lin./Log. switch selector	Switch selector 100 : 1 ratio max. and adjustable 0.5sec. ~ 30sec. adjustable Lin./Log. switch selector
AMPLITUDE MODULATION (for GFG-8219A/8255A only)	Depth MOD. Frequency Carrier BW EXT Sensitivity	0 ~ 100% 400Hz (INT), DC ~ 1MHz(EXT.) 100Hz ~ 3MHz (-3dB) ≤ 10Vpp for 100% modulation	0 ~ 100% 400Hz (INT), DC ~ 1MHz(EXT.) 100Hz ~ 5MHz (-3dB) ≤ 10Vpp for 100% modulation
FREQUENCY MODULATION (for GFG-8219A/8255A only)	Deviation MOD. Frequency EXT. Sensitivity	0 ~ ±5% 400Hz (INT), DC ~ 20kHz(EXT.) ≤ 10Vpp for 10% modulation	0 ~ ±5% 400Hz (INT), DC ~ 20kHz(EXT.) ≤ 10Vpp for 10% modulation
FREQUENCY COUNTER (except GFG-8215A)	Int./Ext. Range Accuracy Time Base Resolution Input Impedance Sensitivity	Switch selector 0.3Hz ~ 3MHz (5Hz ~ 150MHz EXT.) Time base accuracy ±1 count ± 10ppm (23 °C ±5 °C) after 30 minutes warm up The maximum resolution is 100nHz for 1Hz and 1Hz for 100MHz 1M // 150pF ≤ 35mVrms (5Hz ~ 100MHz) ≤ 45mVrms (100MHz ~ 150MHz)	Switch selector 0.5Hz ~ 5MHz (5Hz ~ 150MHz EXT.) Time base accuracy ±1 count ± 10ppm (23 °C ±5 °C) after 30 minutes warm up The maximum resolution is 100nHz for 1Hz and 1Hz for 100MHz 1M // 150pF ≤ 35mVrms (5Hz ~ 100MHz) ≤ 45mVrms (100MHz ~ 150MHz)
GENERAL INFORMATION	Power Source Accessories Dimension Weight	AC115V, 230V ± 15%, 50 / 60Hz GTL-101 x 2 (GTL-101 x 1 for GFG-8215A) User manual x 1 251 (W) x 91 (H) x 291 (D) Approx. 2.0 kgs(GFG-8215A) Approx. 2.15kgs(GFG-8217A) Approx. 2.1 kgs(GFG-8216A) Approx. 2.2 kgs(GFG-8219A)	AC115V, 230V ± 15%, 50 / 60Hz GTL-101 x 2 User manual x 1 251 (W) x 91 (H) x 291 (D) Approx. 2.3 kgs (GFG-8250A) Approx. 2.4 kgs (GFG-8255A)

Specifications subject to change without notice. FG-820AGD0DH

Ordering Information

GFG-8215A	3MHz Function Generator	GFG-8219A	3MHz Function Generator With Counter, Sweep Mode & AM/FM Modulation
GFG-8216A	3MHz Function Generator With Counter	GFG-8250A	5MHz Function Generator With Counter
GFG-8217A	3MHz Function Generator With Counter x Sweep Mode	GFG-8255A	5MHz Function Generator With Counter, Sweep Mode & AM/FM Modulation

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