

Function Generator



GFG-8020H (2MHz)

GFG-8015G (2MHz)

FEATURES

- * Frequency Range: 0.2Hz ~ 2MHz
- * Coarse and Fine Tuning (GFG-8020H)
- * Waveforms: Sine, Triangle, Square, TTL Pulse
- * CMOS Output (GFG-8020H)
- * Built-in 4 Digit Counter (INT only) (GFG-8020H)

- * Large 0.5" LED Display (GFG-8020H)
- * Variable DC Offset Control
- * Output Overload Protection
- * VCF Input Function
- * 1000:1 Tuning Range (GFG-8015G)

SPECIFICATIONS	
MAIN OUTPUT	
Waveforms	SINE, TRIANGLE, SQUARE, TTL pulse and CMOS output
Amplitude	>20Vp-p (open circuit) >10Vp-p (into 50 Ω load)
Impedance	50 Ω \pm 10%
Attenuator	-20dB \pm 1.0dB (at 1kHz)
DC Offset	<-10V to > +10V (<-5V to > +5V into 50 Ω load)
Duty Control	1:1 to 10:1 continuously rating
Display	4 digits LED display
Frequency Range	0.2Hz to 2MHz 7 ranges
Frequency control	Separate coarse and fine tuning
SINE WAVE	
Distortion	<1% 0.2Hz ~ 20kHz, <2% 20kHz ~ 200kHz
Frequency Response	<0.2dB 0.2Hz ~ 100kHz, <1dB 100kHz ~ 2MHz
TRIANGLE WAVE	
Linear	98% 0.2Hz ~ 100kHz, 95% 100kHz ~ 2MHz
SQUARE WAVE	
Symmetry	<2% 0.2Hz ~ 100kHz
Rise/Fall Time	<120nS
CMOS OUTPUT	
Level	(4Vp-p \pm 1Vp-p) ~ (14.5Vp-p \pm 0.5Vp-p) adjustable
Rise/Fall Time	<120nS
TTL OUTPUT	
Level	>3Vp-p
Rise/Fall Time	<30nS
V.C.F.	
Input Voltage	Approx. 0V ~ 10V (\pm 1V) input for 10:1 frequency ratio
Input Impedance	10k Ω \pm 10%
FREQUENCY COUNTER	
Mode	Internal only
Range	0.2Hz ~ 2MHz
Accuracy	\pm Time base accuracy \pm 1 Count
Time Base	Oscillation frequency 3.58MHz, Temp. stability \pm 20PPM (23 $^{\circ}$ C \pm 5 $^{\circ}$ C)
Resolution	0.1Hz, 1Hz, 10Hz, 100Hz, 1kHz
POWER SOURCE	
	AC100V/120V/220V/230V \pm 10%, 50/60Hz
ACCESSORIES	
	Power cord x 1, Instruction manual x 1, GTL-101 x 1
DIMENSIONS & WEIGHT	
	230(W) x 95(H) x 280(D) mm, Approx. 2.1kg

ORDERING INFORMATION

GFG-8020H 2MHz Function Generator with 4 Digits LED Display, CMOS OUT

SPECIFICATIONS	
MAIN OUTPUT	
Waveforms	SINE, TRIANGLE, RAMP, SQUARE and TTL pulse Output
Amplitude	>20Vp-p (open circuit). > 10Vp-p (into 50 Ω load)
Impedance	50 Ω \pm 10%
Attenuator	-20dB, -20dB \pm 1.0dB (at 1kHz)
DC Offset	<-10V to > +10V (<-5V to > +5V into 50 Ω load)
Duty Control	1:1 to 10:1 continuously rating
Frequency Range	0.2Hz to 2MHz 7 ranges
Range Accuracy	\pm 5% + 1Hz (0.2, 2.0 position)
SINE WAVE	
Distortion	<1% 0.2Hz to 200kHz
Frequency Response	<0.1dB 0.2Hz to 100kHz <0.5dB 100kHz to 2MHz
TRIANGLE WAVE	
Linear	98% 0.2Hz to 100kHz, 95% 100kHz to 2MHz
SQUARE WAVE	
Symmetry	<2% 0.2Hz to 100kHz
Rise/Fall Time	<100nS
TTL OUTPUT	
Level	>3Vp-p
Rise/Fall Time	<25nS
V.C.F.	
Input Voltage	Approx. 0V to 10V (\pm 1V) input for 1000:1 frequency ratio
Impedance	10k Ω (\pm 10%)
POWER SOURCE	
	AC100V/120V/220V/230V \pm 10% , 50/60Hz
ACCESSORIES	
	Power cord x 1, Instruction manual x 1, GTL-101 x 1
DIMENSIONS & WEIGHT	
	230(W) x 95(H) x 280(D) mm, Approx. 2.0kg

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