

## 2MHz FUNCTION GENERATOR



GFG-8020H (2MHz)



### FEATURES

- \* Frequency Range: 0.2Hz ~ 2MHz
- \* Coarse and Fine Tuning
- \* Waveform : Sine, Triangle, Square, TTL Pulse
- \* CMOS Output
- \* Built-in 4 Digit Counter(INT only)
- \* Large 0.5" LED Display
- \* Variable DC Offset Control
- \* Output Overload Protection
- \* VCF Input Function

The GFG-8020H Function Generator delivers the most economic solution available for signal generating demand within 2MHz frequency range. The GFG-8020H offers extra values with CMOS output, built-in 4-digit counter, Coarse and Fine tuning with 1000 : 1 Tuning Range, and LED display. Together with the standard functions such as Variable DC Offset Control, Output Overload Protection, and VCF input, the GFG-8020H is the best economic choice for educational usage and production lines at the most competitive price.

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

### ORDERING INFORMATION

**GFG-8020H** 2MHz Function Generator with 4 Digits LED Display, TTL/CMOS Output  
 ACCESSORIES :  
 User manual x 1, Power cord x 1, Test lead GTL-101 x 1

## 2MHz FUNCTION GENERATOR



GFG-8015G (2MHz)



### FEATURES

- \* Frequency Range : 0.2Hz ~ 2MHz
- \* Waveforms : Sine, Triangle, Square, TTL Pulse
- \* Variable DC Offset Control
- \* Output Overload Protection
- \* VCF Input Function
- \* 1000 : 1 Tuning Range

The GFG-8015G Function Generator delivers the most economic solution available for signal generating demands within 2MHz frequency range. The GFG-8015G offers extra values of TTL output and 1000:1 Tuning Range. Together with the standard functions such as Variable DC Offset Control, Output Overload Protection, and VCF input, The GFG-8015G is the most affordable choice for Educational usage and production lines at the most competitive price.

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

### ORDERING INFORMATION

**GFG-8015G** 2MHz Function Generator  
 ACCESSORIES :  
 User manual x 1, Power cord x 1, Test lead GTL-101 x 1