



## **GF-232B** 3 MHz function generator



## **Features**

- Multiple waveforms: Sine, Square and Triangle.
- ✓ Frequency and TTL outputs.
- ✓ High resolution using DDS technology.
- ✓ High frequency accuracy: ±20 ppm.
- Low distortion: -55 dBc @ ≤200 kHz.
- High resolution: 0.1 Hz.
- 6 digit LED display with waverform and frequency indicator.
- ✓ Economical type, low cost.
- Output overload protection.

SPECIFICATIONS	GF-232B	Triangle wave	
Main output Output waveforms	Sine, Square, Triangle	Linearity	≥ 98 % (from 0.1 Hz to 100 kHz) ≥ 95 % (from 100 kHz to 1 MHz)
Amplitude range10 Vpp (50 $\Omega$ load)mpedance50 $\Omega$ ±10 %Attenuator-40 dB ±10 %	Square wave Simmetry Rise / Fall time	± 5 % of period +4 ns (0.1 Hz to 100 kHz) ≤ 100 ns at maximum output, (50 Ω load)	
DC Offset Duty range Display	From < -5 V to > +5 V (50 Ω load) From 25 % to 75 %, ≤ (Square Wave) 6 digits LED display	TTL output Level Fan out	≥ 3 Vpp 20 TTL Load
Frequency Waveform range Sine / Square Triangle Resolution Stability	From 0.1 Hz to 3 MHz From 0.1 Hz to 1 MHz 0.1 Hz maximum ±20 ppm	Rise/fall time  Power supply Voltage  Frequency	± 5 % of period +4 ns (0.1 Hz to 100 kHz) ≤ 100 ns at maximum output, (50 Ω load)  ≥ 3 Vpp 20 TTL Load ≤ 25 ns  100 / 120 / 220 / 240 V AC ±10 % (voltage setting is factory installed) 50 / 60 Hz  Indoor use, Install category II Pollution degree 2 From 0 to 40 °C operation From -10 to 70 °C storage ≤ 80 % (from 0 to 40 °C) operation ≤ 70 % storage  251 (W.) × 91 (H.) × 291 (D.) mm Approx 2.1 kg
Accuracy Aging	±20 ppm ±5 ppm / year	Operating environmental conditions	Indoor use, Install category II Pollution degree 2
Sine wave Harmonic distortion (*)	≥ -55 dBc (from 0.1 Hz to 200 kHz) ≥ -40 dBc (from 0.2 MHz to 2 MHz) ≥ -35 dBc (from 2 MHz to 3 MHz)	Temperature  Max. humidity	From -10 to 70 °C storage  ≤ 80 % (from 0 to 40 °C) operation  ≤ 70 % storage
Flatness (**)	< ±0.3 dB (from 0.1 Hz to 1 MHz) < ±0.5 dB (from 1 MHz to 2 MHz) < ±1 dB (from 2 MHz to 3 MHz)	Mechanical features Dimensions Weight	251 (W.) × 91 (H.) × 291 (D.) mm Approx 2.1 kg

Specifications valid after a working time of 30 minutes @ 18 °C ~ 28 °C ambient temperature.

- (\*) Harmonic distortion specification valid at maximum position without any attenuation to 1/10 of any combination setting, TTL Off.
- (\*\*) Flatness specification valid at the maximum amplitude relating to 1 kHz.