

GX 1025
25 MHz

GX 1050
50 MHz



Multi-function communicating laboratory generators with built-in frequency meter:

- **Large high-contrast TFT colour screen** (320x240 mm)
- Frequency range from 0.001 mHz to 25 MHz (GX 1025) or 50 MHz (GX 1050)
- **DDS technology** on 2 outputs (coupling and duplication)
- 125 MS/s **sampling of signals** with 14-bit resolution
- AM, FM, FSK, ASK and PM modulation
- **SWEEP and BURST functions**
- External frequency meter from 100 mHz to 200 MHz
- **Programmable** via USB link with storage on USB key

Technical Specifications

GX 1025

GX 1050

Man-machine interface	
Display	Large high-contrast 3.5" TFT colour screen - resolution 320 x 240
Controls on front panel	18 direct-access buttons, 1 rotary button
Adjustment of signal parameters	Continuous adjustment by the encoder and/or numeric keypad
BNC output terminals on front panel	Generator outputs 1 & 2 - Separate adjustment (waveform, f, phase, amplitude, etc.), coupled or duplicated
BNC I/O terminals on rear panel	TTL-compatible trigger and synchronization outputs

Continuous signal generation	
Signal types	Sine, Square, Triangle, Ramp, Pulse, White Noise, Arbitrary Signal (48 pre-installed waveforms)
Arbitrary signal generation	
Resolution / Sampling rate	14 bits / 125 MS/s
Memory	16k memory depth (512k on CH1 only) - Storage of predefined or specific signals on USB key
Editing of signals with SX-GENE	Acquisition, transfer & modification of a signal acquired from an oscilloscope (OX6000, OX7000, Scopein@Box) Graphical or mathematical editing with the SX-GENE software Modification of a signal acquired and/or combination of standard signals from the generator
Signal frequency	
Frequency range	Sine from 0.001 mHz to 25.000 MHz, Triangle 300 kHz, Noise and Square 25 MHz, Pulse 10 MHz, Arbitrary Signals 5 MHz Sine from 0.001mHz to 50.000 MHz, Triangle 300 kHz, Noise and Square 50 MHz, Pulse 20 MHz Arbitrary Signals 5 MHz
Resolution / accuracy	7-digit display - resolution from 1 mHz to 1 kHz depending on frequency range ± 20 ppm for $F > 10$ kHz, ± 30 ppm for $F < 10$ kHz
Long-term drift	± 100 ppm / year
Temperature coefficient	< 5 ppm / °C
Amplitude	
Voltage levels	Output 1 = 2 mVpp ~ 10 Vpp 50 Ω 2 mVpp ~ 20 Vpp open circuit Output 2 = 2 mVpp ~ 3 Vpp 50 Ω 2 mVpp ~ 6 Vpp open circuit
Flatness	< 0.1 dB for $f < 100$ kHz
Vdc offset	Output 1 = ± 5 VDC at 50 Ω , Output 2 = 1,5 VDC at 50 Ω - accuracy $< 5\%$ ± 1 mV
Impedance / Protection	50 Ω / Protection contre les court-circuits
Signal characteristics	
Sine	Distortion $< 0.2\%$ typical for $f < 20$ kHz, and harmonics < -50 dBc for DC $< f < 25$ MHz (level < 1 Vpp)
Triangle (max frequency 2 MHz)	Linearity error $< 1\%$ max
Square & pulse	Rise time < 12 ns (typ.) - Duty cycle 20-80% (DC $< f < 20$ MHz) - Pulse 20 ns to 2,000 s

Modulation (internal or external source)			
AM modulation		FM modulation	
Carrier	Sine, Square, Triangle, Arbitrary (except DC)	Carrier	Sine, Square, Triangle, Arbitrary (except DC)
Modulated signals	Sine, Square, Ramp, Noise, Arbitrary (2 mHz-20 kHz)	Modulated signals	Sine, Square, Ramp, Triangle, Noise, Arbitrary (2 mHz-20 kHz)
Depth	0% to 120%	Frequency offset	0 to 12.5 MHz (GX1025) / 25 MHz (GX1050)
FSK modulation		ASK modulation	
Carrier	Sine, Square, Triangle, Arbitrary (except DC)	Carrier	Sine, Square, Triangle, Arbitrary (except DC)
Modulated signals	50% of duty cycle (2 mHz to 50 kHz)	Modulated signals	50% of duty cycle (2 mHz to 50 kHz)
PM modulation			
Carrier	Sine, Square, Triangle, Arbitrary (except DC)		
Modulated signals	Sine, Square, Ramp, Triangle, Noise, Arbitrary (2 mHz-20 kHz)		
Phase offset	0 to 360°		

Other functions			
Sweep		Burst	
Carrier	Sine, Square, Ramp, Triangle, Arbitrary (except DC)	Signals	Sine, Square, Ramp, Arbitrary (except DC)
Type	Linear/Logarithmic	Type	Short (1-50,000 cycles), Infinite, Gate
Direction	Increasing or Decreasing	Phase start/stop	-180° to +180°
Sweep time	1 ms to 500 s	Internal period	1 μ s to 500 s +/- 1%
Trigger	Manual, External, Internal		-

External frequency meter	
Measurement range / resolution	100 mHz to 200 MHz
Sensitivity / Input impedance	20 mVrms for 100 mHz $< f < 100$ MHz, 40 mVrms beyond / 1 M Ω

General Specifications

Storage	Storage of predefined or specific signals and complete instrument configurations
Communication interface	USB Device, USB host - GPIB, LAN option
Mains power supply	100-240 VACRMS 45-440 Hz CAT I - < 30 W
Software	The SX-GENE software can be downloaded free of charge from our support website, along with the LV and LW drivers
Mechanical specifications	L x H x P = 229 mm x 105 mm x 281 mm - 2.8 kg
Warranty	1 year

State at Delivery

GX1025 : 25 MHz arbitrary function generator
GX1050 : 50 MHz arbitrary function generator

State at Delivery

1 GX delivered with 1 mains power lead,
1 USB cable and an Operating Manual.



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