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Triangle (max frequency 2 MHz) Square & pulse 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 e	ncoder and/or numeric keypad	
BNC output terminals on front panel	Generator outputs 1 & 2 - Separate adjustment (wave	eform, f, phase, amplitude, etc.), coupled or duplicated	
BNC I/O terminals on rear panel	TTL-compatible trigger an	d synchronization outputs	
Continuous signal generation			
Signal types	Sine, Square, Triangle, Ramp, Pulse, Wh	ite 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	Acquisition, transfer & modification of a signal acquired from an oscilloscope (OX6000, OX7000, Scopein@Box)		
with SX-GENE	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			
	Sine from 0.001 mHz to 25.000 MHz,	Sine from 0.001 mHz to 50.000 MHz,	
Frequency range	Triangle 300 kHz, Noise and Square 25 MHz, Pulse	Triangle 300 kHz, Noise and Square 50 MHz, Pulse 20 MHz	
	10 MHz, Arbitrary Signals 5 MHz	Arbitrary Signals 5 MHz	
Resolution / accuracy	7-digit display – resolution from 1 mHz		
	± 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 con	ntre les court-circuits	
Signal characteristics		50 10 4 00 4 051111 11 4 4 4 4	
Sine	Distortion < 0.2 % typical for f < 20 kHz, and harmo	nics < -50 dBc for DC < f < 25 MHz (level < 1 Vpp)	

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)

Linearity error < 1% max

Rise time < 12 ns (typ.) - Duty cycle 20-80% (DC < f < 20 MHz) - Pulse 20 ns to 2,000 s

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	Туре	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 μs 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 MΩ