

SPECIFICATIONS

	GX 305 / GX 310	GX 320
Man-machine interface		
Display	LCD (125 x 45 mm) – Adjustable brightness – Display of frequency on 5 digits 20 mm high	
Commands on front panel	19 direct-access commands (9 backlit and adjustable) – 1 Main Out On/Off key – 1 digital encoder wheel	
Adjustment of signal parameters	Continuous by the encoder, automatic Frequency and Level ranges, selection of the increment digit (F,P,N...)	
BNC output terminals on front panel	TTL & Sweep Out outputs	TTL, Sweep, Clock and Synch outputs
BNC input terminals on front panel	VCF In input	VCG, Gate, Clock and Synch inputs
Continuous signal generation		
Frequency	0.001 Hz to 5.000 MHz (10 ranges) (GX305) 0.001 Hz to 10.000 MHz (10 ranges) (GX310)	0.001 Hz to 20.000 MHz (11 ranges)
Resolution / Accuracy	5-digit display – resolution from 1 mHz to 1 kHz according to frequency range ± 20 ppm for F > 10 kHz, ± 30 ppm for F < 10 kHz	
Amplitude	1 mV to 20.0 Vpp with open circuit in 3 automatic ranges – 3-digit Vpp or Vrms display	
Flatness	< 5 % for 1 mHz < F < 10 MHz and ± 1dB up to 20 MHz (GX320) (specs. for level from 0.1 Vpp to 20 Vpp)	
Vdc offset	± 10 Vdc with open circuit – accuracy ± 5 % ± 5 mV	
Waveforms	Sine / Triangle (max frequency 2 MHz) / Square & "LOGIC" / TTL output	
Frequency sweep		
Modes	LIN (linear) or LOG (logarithmic)	
"INT" internal sweep	"Sawtooth" or "Triangle" mode – Unlimited excursion between "F Start" & "F Stop" (256 steps) Sweep time adjustable from 10 ms to 100 s	
"EXT" external sweep	Sweep by signal < 15 kHz, amplitude ± 10 V –VCF IN input impedance 10 kΩ approx.	
Modulations (GX 320)		
Internal AM modulation		Modulation by a sine signal with a frequency of 1 kHz Modulation rate 20 % or 80 %
External AM modulation		Modulation by a signal with a frequency < 15 kHz
Internal FM modulation		Modulation by a sine signal with a frequency < 1 kHz
External FM modulation		Modulation by a signal with a frequency < 15 kHz
SHIFT K function (GX 320)		FSK (Internal/External) = switching between Fstart & Fstop PSK (Internal/External) = phase switching ± 180°
BURST function		
Internal BURST		1 to 65,535 impulsions Pulse train period from 10 ms to 100 s
External BURST		1 to 65,535 impulsions – Synch/Period by a TTL signal with a frequency < 200 kHz (VCG IN input)
Gate function		Validation of the AC component of "Main Out" by a TTL signal with a frequency < 2 MHz (GATE IN input)
Synch function (GX 320)		
Several GX320s in cascade arrangement		Maximum frequency of signals generated 100 kHz Adjustment of phase shift across ± 180° (resolution 1°)
External frequencymeter		
Measurement range	5 Hz to 100 MHz	
Accuracy	± 0.05 % + 1 digit	
Safety / Max. acceptable voltage	300 V CAT I / 300 VRMS	
General specifications		
Configuration memories		Storage/Recall of 15 complete instrument configurations
Communication interface	"USB A/B" link for the programmable versions and Ethernet interface (GX 320-E)	
Mains power supply	230 V ±10 % (or 115 V ±10 %) – 50/60 Hz – 20 VA max. – Removable lead	
Safety / EMC	Safety as per IEC 61010-1 (2001) – EMC as per EN 61326-1 (2004)	
Mechanical specifications	227 (L) x 116 (H) x 180 (P) mm – Weight 2.8 kg	
Warranty / Origin	3 years – France	

State at delivery

Standard versions

- 1 function generator, 1 mains power lead, 1 CD-Rom containing 1 operating manual in 5 languages, 1 programming manual in FR+GB, Labwindows CVI / LabView drivers

Programmable versions

- 1 function generator, 1 mains power lead, 1 CD-Rom containing 1 operating manual in 5 languages, 1 programming manual in FR+GB, Labwindows CVI / LabView drivers, 1 USB A/B cable

Ethernet version

- As above + 1 cordon Ethernet

To order

- GX305: 5 MHz function generator
- GX310: 10 MHz function generator
- GX310-P: 10 MHz programmable function generator
- GX320: 20 MHz function generator
- GX320-E: 20 MHz programmable function generator

Accessories & spare parts

- AG1066-Z: Set of 2 BNC-Banana leads with rear connection
- HX0106: Set of 2 BNC-BNC leads
- HX0107: Set of 2 BNC-Banana adapters
- HA2004-Z: Set of BNC tee adapters



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