

## Function Generator Model GX320



Cat. #2138.02

DDS, 20MHz, USB

Generates precise, varied signals including waveforms, sine, triangle, square & LOGIC, and TTL output. Users can choose the number of cycles per time period, and can simulate complex signals. Direct Digital Synthesis (DDS) feature provides much greater accuracy and frequency stability than a traditional generator. Features a large LCD screen. Ideal for higher education, R&D engineers and scientific research.

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Display	LCD 4.92 x 1.77" (125 x 45mm) – Adjustable brightness Display of frequency on 5 digits 20mm 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 digital encoder, automatic Frequency and level ranges, selection of the increment digit (F, P, N...)
BNC Output Terminal	TTL, Sweep, Clock and Synch outputs
BNC Input Terminal	VCG, Gate, Clock and Synch outputs
Continuous Signal Generation	
Frequency	0.001Hz to 20MHz (11 ranges)
Resolution/Accuracy	5 digit display – resolution from 1mHz to 1kHz, $\pm 20\text{ppm}$ for $F > 10\text{kHz}$ , $\pm 30\text{ppm}$ for $F < 10\text{kHz}$ ,
Amplitude	1V to 20Vpp
Volt DC Offset	$\pm 10\text{VDC}$
Frequency Sweep	
Modes	LIN or LOG
“INT” Internal Sweep	“Sawtooth” or “Triangle” mode – sweep time adjustable from 10ms to 100s
“EXT” External Sweep	Sweep by signal $< 15\text{kHz}$ , amplitude $\pm 10\text{V}$ – VCF input impedance $10\text{K}\Omega$ approx.
Modulation	Internal / External AM/FM
Shift Key Function	FSK (Internal/External) = switching between Fstart & Fstop
	PSK (Internal/External) = phase switching $\pm 180^\circ$
Burst Function	Internal/External

For more details, download the datasheet or user manual at [www.aemc.com](http://www.aemc.com)

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Gate Function	Validation of the AC component of "Main out" by a TTL signal with a frequency <2MHz (GATE IN input)
Sync Function	
Several GX320 In Cascade Arrangement	Maximum frequency generated 100kHz Adjustment phase $\pm 180^\circ$ (Resolution $1^\circ$ )
External Frequency Meter	
Measurement Range	5Hz to 100MHz
Accuracy	$\pm 0.05\% + 1\text{ct}$
Max Acceptable Voltage	300V CAT I / 300VRMS

## General Specifications

Memory	Storage/Recall of 15 complete instruments configurations
Communication	USB A/B
Power Supply	115V $\pm 10\%$ (220V available upon request)
Dimensions	8.94 x 4.57 x 7.09" (227 x 116 x 180mm)
Weight	Approximately 6.2 lbs (2.8kg)
Safety Compliance	IEC 61010-1, EMC: EN61326-1

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