

Special product features

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DDS Generator and Frequency Meter

Model GX320

Cascade arrangement for simulating complex signals with 20MHz and integrated external frequency meter



► SPECIFICATIONS

MODEL	GX320	
INTERFACE		
Display	LCD (125 x 45mm) – Adjustable brightness Display of frequency on 5 digits 20mm high	
Commands	19 direct-access commands (9 backlit and adjustable) 1 Line 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	TTL, Sweep, Clock and Synch outputs	
BNC Input Terminals	VCG, Gate, Clock and Synch inputs	
CONTINUOUS SIGNAL GENERATION		
Frequency	0.001Hz to 20.000MHz (11 ranges)	
Resolution/Accuracy	5-digit display – resolution from 1mHz to 1kHz according to frequency range, ± 20ppm for F > 10kHz, ± 30ppm for F < 10kHz	
Amplitude	1mV to 20.0Vpp with open circuit in 3 automatic ranges – 3-digit Vpp or Vrms display	
Flatness	± 1dB up to 20MHz (specs. for level from 0.1Vpp to 20Vpp)	
Vdc Offset	± 10Vdc with open circuit – accuracy ± 5% ± 5mV	
Waveforms	Sine/Triangle (max frequency 2MHz)/Square & "LOGIC"/TTL output	
FREQUENCY		
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 10ms to 100s	
"EXT" internal sweep	Sweep by signal < 15kHz, amplitude ± 10V VCF IN input impedance 10kΩ approx.	
MODULATIONS		
Internal AM	Modulation by a sine signal with a frequency of 1kHz Modulation rate 20% or 80%	
External AM	Modulation by a signal with a frequency < 15kHz	
Internal FM	Modulation by a sine signal with a frequency of 1kHz	
External FM	Modulation by a signal with a frequency < 15kHz	
FUNCTIONS		
Shift K	FSK (Internal/External) = switching between F start & F stop PSK (Internal/External) = phase switching ± 180°	
Burst	Internal External	1 to 65,535 impulsions pulse train period from 10ms to 100s 1 to 65,535 impulsions – Synch/Period by a TTL signal with a frequency < 200 kHz (VCG IN input)
Gate	Validation of the AC component of "Line Out" by a TTL signal with a frequency < 2MHz (GATE IN input)	
Synch	Maximum frequency of signals generated 100kHz Adjustment of phase shift across ± 180° (resolution 1°)	
EXTERNAL FREQUENCYMETER		
Measurement Range	5Hz to 100MHz	
Accuracy	± 0.05% + 1 count	
Safety/Max Acceptable Voltage	300V CAT I/300VRMS	
GENERAL SPECIFICATIONS		
Configuration Memories	Storage/Recall of 15 complete instrument configurations	
Communication Interface	"USB A/B" link for the programmable versions and Ethernet interface	
Power Supply	115V ± 10% or 230V ± 10%; 50/60Hz – 20VA max. – Internal selection	
Safety/EMC	Safety as per IEC 61010-1 (2001) – EMC as per EN 61326-1 (2004)	

► FEATURES

- Frequency range from 20MHz
- DDS technology and frequency accuracy of ±20ppm
- Frequency adjustment stable to the nearest digit
- "LOGIC signal" function for direct adjustment of high and low levels
- LIN or LOG sweep, triangle or sawtooth, with adjustable duration from 10ms to 100s
- Internal and external AM & FM modulation, GATE, BURST, FSK and PSK functions
- Adjustable phase synchronization of several generators in a cascade arrangement
- 100MHz frequency meter, 300V CAT I
- Storage of 15 complete instrument configurations
- Versions programmable via USB link and Ethernet with standard SCPI protocol

CATALOG NO.	DESCRIPTION
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2138.02	Function Generator Model GX320 (DDS, 20MHz, USB)
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