

50MHz Arbitrary Function Generator

FGX-295

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- Output range up to 50MHz for sine waveform and 25MHz for square waveform.
- 5 standard waveform: Sine, Square, Ramp, Pulse and Noise
- Arbitrary waveform function with 14bits, 125Mega sampling per sec.
- Flexible frequency sweep, burst waveform and modulation (AM, FM, PM, FSK and PWM) function.
- Standard equipment of USB, LAN and GP-IB
- Standard equipment of a useful PC application
- Memorizes up to 4kinds of an arbitrary waveform with 256 points.

Specifications

Output waveform			
Standard	Sine, Square, Ramp, Triangle, Pulse, Noise, DC		
Incorporated arbitrary	Exponential rise, Exponential fall, Reverse ramp, Sinc, Heart Pulse		
Waveform characteristics			
Sine	Frequency	1μHz to 50MHz	
Square	Frequency	1μHz to 25MHz	
Ramp, Triangle	Frequency	1μHz to 200kHz	
Pulse	Frequency	500μHz to 10MHz	
Noise	Bandwidth	approx. 20MHz	
Arbitrary	Frequency	1μHz to 10MHz	
	Waveform length	2K to 256K points	
	Amplitude resolution	14bits (including marks)	
	Sampling rate	125MS/s	
Common characteristics			
Frequency	Resolution	1μHz	
Amplitude	Range	50Ω termination	10mV(p-p) to 10V(p-p)
DC offset, DC	Range (peak AC+DC)	50Ω termination	±5V(p-p)
Main output	Impedance	Approx. 50Ω	
Sync output	Level	TTL (Impedance : approx. 50Ω)	
Internal frequency standard	Accuracy	±10ppm (90days)	±20ppm (1year)
	Lock range	10MHz ±500Hz	
External frequency standard (input)	Level	100mV(p-p) to 5V(p-p)	
	Lock range	10MHz	
External frequency standard (output)	Level	approx. 632mV(p-p) (0dBm)	
	Phase offset	Range	-360 degree to +360 degree
	Resolution	0.001 degree	
Modulation			
AM	Internal modulation	Sine, Square, Ramp, Triangle, Noise, Arbitrary	
	Frequency(Internal)	2mHz to 20kHz	
FM	Modulation	0.0% to 120.0%	
	Deviation	DC to 25MHz	
PM	Modulation	0.0 degree to 360 degree	
	Deviation	0.0 degree to 360 degree	
FSK	Internal modulation	duty cycle 50% square	
	Frequency(Internal)	2mHz to 100kHz	
External modulation input	Voltage range	±5V full scale	
	Input resistance	approx. 8.7kΩ	
	Bandwidth	DC to 20kHz	
Sweep	Waveform	Sine, Square, Ramp, Arbitrary	
	Sweep time	1ms to 500 second	
Burst	Waveform	Sine, Square, Ramp, Triangle, Noise, Arbitrary	
	Start/Stop, Phase	-360 degree to +360 degree	
	Internal period	1μs to 500 second	

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Limited sales area : China, Korea, Singapore, Malaysia, Thailand, Vietnam

Trigger		
Trigger input	Level	TTL compatible
Trigger output	Level	TTL compatible, Termination more than 1kΩ
	Max. speed	1MHz
Parallel output		
Clock output	Frequency	1μHz to 50MHz
Data output	Level	TTL compatible, Termination more than 2kΩ
General specification		
Power source	Voltage range	100V to 240V (50Hz/60Hz) 100V to 120V (400Hz)
	Power consumption	max. 80VA
Operational circumstances	Spec guaranty temperature range	18 degree. To 28 degree. (Humidity less than 80%, no condensation)
	Interface	USB (Type-B), GP-IB, LAN
Others	Dimensions	224(W)×107(H)×380(D)mm
	Weight	Approx. 3.6kg

● Application Software "WAVEPATT"

This application software enables to create on the PC, an arbitrary waveform that outputs from FGX-295. The created waveform is to be transmitted to FGX-295 through GP-IB, LAN or USB.

