



Function Generator

OFG1600 Series

- 16 commonly used waveforms and AM, FM, PM, PWM, FSK modulation types.
- Sine waveform frequency range: 10 μ Hz ~ 3, 5, 10, 20 MHz; 10 μ Hz frequency resolution.
- Economic and lightweight.
- USB interface.

Model			OFG1603	OFG1605	OFG1610	OFG1620	
Frequency	Range	Sine	10 μ Hz ~ 3 MHz	10 μ Hz ~ 5 MHz	10 μ Hz ~ 10 MHz	10 μ Hz ~ 20 MHz	
		Square	10 μ Hz ~ 5 MHz				
		Others	10 μ Hz ~ 1 MHz				
	Resolution	10 μ Hz					
	Accuracy	\pm 50 ppm					
Waveform	Type		16 waveform, sine, square, ramp, exp, log, noise, etc.				
	Length		1024 points				
	Sampling Rate		100 MSa/s				
	Vertical Resolution		8 bits				
	Sine	Harmonic Distortion	\leq -40 dBc (\leq 5 MHz) : \leq -35 dBc (>5 MHz)				
		Total Distortion	\leq 0.5% (20 Hz ~ 20 kHz, 20 Vpp)				
	Square	Rise / Fall Edge Time	\leq 35 ns; overshoot: \leq 10 %				
		Duty Cycle	0.1% ~ 99.9%				
Ramp	Symmetry	0.0% ~ 100.0%					
Amplitude	Range	Frequency \leq 8 MHz	0 ~ 10 Vpp (50 Ω), 0 ~ 20 Vpp (open circuit)				
		Frequency>8 MHz	0 ~ 9 Vpp (50 Ω), 0 ~ 18 Vpp (open circuit)				
	Resolution	5 mVpp (Amplitude>2 Vpp) 0.5 mVpp (Amplitude \leq 2 Vpp)					
DC Offset (Ampl. 0 Vpp)	Range	\pm 5 Vdc (50 Ω), \pm 10 Vdc (open circuit)					
	Resolution	5 mVdc					
Modulation	AM, FM	Carrier Waveform	16 waveforms, sine, square, ramp, etc. (only pulse for PWM)				
		Modulating Waveform	16 waveforms, sine, square, ramp, etc.				
	PM, PWM	Modulating Frequency	40 mHz ~ 20 kHz				
		FSK	Carrier Waveform	16 waveforms, sine, square, ramp, etc.			
			Modulating Waveform	Square			
FSK Rate	40 mHz ~ 100 kHz						
Frequency Sweep	Sweep Mode		Linear or logarithmic				
	Sweep Range		Start/Stop Frequency can be set arbitrarily				
	Sweep Time		50 ms ~ 500 s				
Burst	Burst Waveform		16 waveforms, Sine, Square, Ramp, etc.				
	Burst Count		1 ~ 1000000				
	Internal Period		1 μ s ~ 20 s				
	Start/Stop Phase		0° ~ 360°				
Sync Output	Waveform Characteristic		Square, edge time \leq 20 ns				
	Output Level		TTL compatible, low level <0.3 V, high level >4 V				
General Characteristics	Power		AC 100 ~ 240 V, 45 ~ 65 Hz, < 20 VA				
	Display		VFD display				
	Dimension & Weight		256 x 101 x 318 mm; approx. 1.5 kg				