

DDS Function Generator

Protek GD-0000N Series**Features**

- DDS(Direct Digital Synthesis) Technology
- Sine Wave Frequency Range (1 μ Hz ~ 20MHz)
- 9 Waveforms Support
- Built-in LCD
- Full Digital Control with Keypad and Rotary Knob
- RS-232C Interface

Specification

		Protek GD-0005N	Protek GD-0010N	Protek GD-0020N	
1	Waveform	Sine, Triangle, Square, Rising Slope, Declining Slope, Random Noise, SIN(x)/x, Rising/Drop Exponent, Pulse Waveform			
2	Frequency	Sine	1 μ Hz ~ 5MHz	1 μ Hz ~ 10MHz	
		Square	1 μ Hz ~ 5MHz	1 μ Hz ~ 10MHz	
		Other Wave	1 μ Hz ~ 1MHz		
		Resolution	8 Bits or 0.1 μ Hz		
3	Signal	Square Rising / Falling Time	≤ 15 ns (50 Ω Load, 1 Vpp)		
		Square Overshoot	$\leq 5\%$		
		Asymmert (1kHz)	$\leq 1\% + 20$ ns		
		Duty Modulus	0.1% ~ 99.9 (<10kHz) / 1% ~ 99% (10kHz ~ 100kHz) / 3% ~ 97% (<1MHz)		
		Triangle, Ramp Linearity	<0.1%		
4	Output	Amplitude Setting	1mVpp ~ 20Vpp(Hign Impedance)		
			0.5mVpp ~ 10Vpp(50 Ω)		
		Deviation Ratio (5Vpp)	-100% ~ 100%		
	Impedance	50 Ω			
5	Sweep	Type	Linearity / Logarithm		
		Direction	Positive / Negative		
		Early / Final Freq.	1Hz ~ 5MHz	1Hz ~ 10MHz	1Hz ~ 20MHz
6	AM	Waveform Modulation	Any Inner Function Waveform		
		Freq. Modulation	100MHz ~ 20kHz		
		AM Depth	0% ~ 100%		
		Source	Inner / External		
7	FM	Waveform Modulation	Any Inner Function Waveform		
		Freq. Modulation	100MHz ~ 20kHz		
		Freq. Offset	1Hz ~ 5MHz	1Hz ~ 10MHz	1Hz ~ 20MHz
		Source	Inner		
8	PM	Waveform Modulation	Any Inner Function Waveform		
		Freq. Modulation	100MHz ~ 20kHz		
		Phase Offset	360 Degree		
		Source	Inner		
9	Frequency Counter	Range	1 Hz ~ 100 MHz		
		Input Signal	100mV		
10	Mechanics	Power	AC 220V $\pm 10\%$, 50Hz $\pm 5\%$		
		Dimension	95 mm(H) x 245 mm(W) x 340 mm(D)		
		Weight	About 2kg		