

DDS Function Generator



FEATURE

- **Direct digital synthetic technology and abundant programmable logic components with high integration and good reliability**
- **Built-in SCM digital control, rolling menu indication**
- **Back light LCD with abundant information**
- **Operation keypad combined hand wheel, full digital control**
- **RS- 232C interface with PC has the whole set of dictate collection**
- **9 function wave, high resolution**
- **Linearity/log sweep, FSK ASK, PSK, AM, FM, PM**

Specification

Specification		GD-0005	GD-0010	GD-0020
Waveform		Sine, square, triangle, rising ramp, falling ramp, noise, SIN(x)/x, rising index, falling index		
Frequency	Sine	1mHz to 5MHz	1mHz to 10MHz	1mHz to 20MHz
	Square	1mHz to 5MHz	1mHz to 5MHz	1mHz to 5MHz
	Others	1mHz to 10kHz		
	Resolution	8 digits display		
	Stability	50ppm		
Signal	Square rising/ falling time	≤ 20ns		
	Square overshoot	≤ 5%		
	Dissymmetry(1kHz)	< 2%		
	Duty modulus	20% to 80%: ≤ 100kHz; 30% to 70%: 100kHz to 1MHz		
	Triangle, ramp linearity (1kHz)	Better than 1%		
Output	Amplitude(50Ω)	1mVpp to 10Vpp		
	Attenuation error(1kHz)	Better than 5%		
	Freq. Response (@1Vpp, 1kHz)	Better than 5%		
	Offset ratio (within 5Vpp)	- 100% to 100%		
	Impedance	50Ω		
	Setting resolution	3 digits		
Sweep	Type	Linearity/ logarithm		
	Direction	Positive/ negative ^e		
	Early/ final freq	0.1Hz to 5MHz	0.1Hz to 10MHz	0.1Hz to 20MHz
	Time	10ms to 40s		
AM	Waveform modulation	Any inner waveform		
	Freq. Modulation	100mHz to 20kHz		
	AM depth	0% to 120%		
	Source	Inner/ external		
FM	Waveform modulation	Any inner function waveform		
	Freq. Modulation	100mHz to 20kHz		
	Freq. Offset	0.1Hz to 5MHz	0.1Hz to 10MHz	0.1Hz to 20MHz
	Source	Inner		
PM	Waveform modulation	Any inner function waveform		
	Freq. Modulation	100mHz to 20kHz		
	Phase offset	- 360 ° to 360 °; resolution: 11.25 °		
	Source	Inner		
Power voltage		AC220V ± 10%; 50Hz 5%		
Dimension & weight		95H × 245W × 340D(mm); about 2Kg		