

DDS Function/Arbitrary Waveform Generator

GPS-2100 Series

The Function/Arbitrary Waveform Generators adopt the direct digital synthesis (DDS) technology, which can provide stable, high-precision, pure and low distortion signals. Its combination of excellent system features, easiness in usage and versatile functions makes this generator a perfect solution for your job now and in the future.

The function generator has a clear and simple front-panel. The user-friendly panel layout and instructions, versatile terminals, direct graph interface,



• Features:

- DDS technology provides precise, stable and low distortional output signal.
- Double output
- 3.5TFT color LCD display.
- 125MSa/s sampling rate, 14-bit resolution.
- 5 standard waveforms: Sine, Square, Ramp, Pulse, Noise
- Self-defined arbitrary waveform
- Multiple modulation function, various modulated waveform: AM, FM, PM, ASK, FSK, Sweep and Burst.
- Multiple I/O: external modulation source, external 10 MHz reference input, external trigger source, waveform output, synchronous signal output.
- Support USB storage device. Software updating could also be performed using USB devices.
- Up to 16k sample points of internal waveform depth, which can rebuild or simulate any complex waveform.

Specifications

Model No.	GPS-2105	GPS-2110	GPS-2120	GPS-2125	GPS-2150
Bandwidth/ Max. output frequency	5MHz	10MHz	20MHz	25MHz	50MHz
Output channels	2				
Sample rate	125 MSa/s				
Arbitrary waveform length	16 kpts				
Frequency resolution	1 μ Hz				
vertical resolution	14 bits				
Waveform	Sine, Square, Triangular, Pulse, Gaussian Noise. 48 types of arbitrary waveform				
Sine	1 μ Hz ~ 5MHz	1 μ Hz ~ 10MHz	1 μ Hz ~ 20MHz	1 μ Hz ~ 25MHz	1 μ Hz ~ 50MHz
Square	1 μ Hz ~ 5MHz	1 μ Hz ~ 10MHz	1 μ Hz ~ 20MHz	1 μ Hz ~ 25MHz	1 μ Hz ~ 25MHz
Pulse	500 μ Hz ~ 5MHz	500 μ Hz ~ 10MHz	500 μ Hz ~ 10MHz	500 μ Hz ~ 10MHz	500 μ Hz ~ 10MHz
Ramp/Triangular	1 μ Hz ~ 300KHz	1 μ Hz ~ 300KHz	1 μ Hz ~ 300KHz	1 μ Hz ~ 300KHz	1 μ Hz ~ 300KHz
Gaussian white noise	5MHz (-3dB)	10MHz (-3dB)	20MHz (-3dB)	25MHz (-3dB)	50MHz (-3dB)
Arbitrary waveform	1 μ Hz ~ 5MHz	1 μ Hz ~ 5MHz	1 μ Hz ~ 5MHz	1 μ Hz ~ 5MHz	1 μ Hz ~ 5MHz
Modulation	AM, FM, I				
Amplitude range	2 mVpp ~ 10 Vpp (50 Ω) , 4 mVpp ~ 20 Vpp (high impedance)				
Other functions	Frequency counter: Max. frequency 200MHz				
Standard interface	USB Host & Device				
Optional interfaces	GPIO(IEEE-488), LAN				

Display	
Display type	3.5" TFT-LCD , 320x240
Power	
Voltage	100~240 VAC _{RMS} , 45~440 Hz, CATII , 30W
Environment	
Temperature	Operation: 0°C--50°C , Storage: -20°C--60°C
Cooling method	natural cooling down
Others	
Dimension	Width: 229mm , Height: 105mm , Depth: 281mm
Weight	N.W: 2.8 Kg , G.W: 4.2 Kg

Standard Accessories:

- User Manual
- CD(including EasyWave1.0 computer software system)
- Power Cord that fits the standard of destination country
- USB Cable