

## GF-857B INDEPENDENT DUAL CHANNEL ARBITRARY WAVEFORM GENERATOR



**TWO INDEPENDENT CHANNELS**

**CREATE YOUR OWN WAVE FORMS USING THE PC SOFTWARE AND GENERATE THEM IN THE INSTRUMENT**

- ✓ Advanced DDS technology, max 10 MHz freq output.
- ✓ Up to 125 MS/s sampling rate (1  $\mu$ Hz freq resolution).
- ✓ Vertical resolution: 14 bits, up to 1 M arbitrary waveform length.
- ✓ Comprehensive waveform output: 5 basic waveforms and 45 built-in arbitrary waveforms.
- ✓ Comprehensive modulation functions: AM, FM, PM, FSK, PWM, Sweep and Burst.
- ✓ Built-in high accuracy frequency counter, supported range from 100 mHz to 200 MHz.
- ✓ SCPI support.
- ✓ 4" high resolution LCD (480 x 320 pixels).

<b>Specifications</b>	<b>GF-857</b>	<b>Arbitrary waveform</b>	
<b>Number of channels</b>	2 (independent)	Wavelength	2 pts to 8K pts
<b>Frequency output</b>	10 MHz	Non-volatile memory	64 MB
<b>Sample rate</b>	125 MS/s	<b>Modulation</b>	
<b>Vertical resolution</b>	14 bits	Waveform	AM, FM, PM, FSK, sweep and burst
<b>Waveforms (output)</b>		Modulation frequency	2 mHz to 20 kHz (FSK 2 mHz - 100 kHz)
Standard	Sine, Square, Pulse, Ramp, and Noise	<b>Frequency meter</b>	
Arbitrary	Exponential rise, Exponential fall, Sin (x)/x, Step wave and others. Total: 45 built-in waveforms and user-defined arbitrary waveform	Functions	Frequency period, +Width, -Width, Duty Cycle
<b>Frequency resolution</b>		Frequency margin	100 mHz to 200 MHz
Sine	1 $\mu$ Hz - 10 MHz	Resolution	6 digits
Square	1 $\mu$ Hz - 5 MHz	<b>Input / Output</b>	
Pulse	1 $\mu$ Hz - 5 MHz	Screen	4" (480 x 320 pixels) LCD
Ramp	1 $\mu$ Hz - 1 MHz	Type	Frequency meter
Noise	25 MHz (-3 dB) (typ)		External modulation input
Arbitrary waveform	1 $\mu$ Hz - 10 MHz		External trigger input
<b>Amplitude</b>		Communication interface	External reference clock Input / Output
Amplitude	1 mVpp - 10 Vpp (50 $\Omega$ ) 1 mVpp - 20 Vpp (Impedancia alta)	<b>Accessories</b>	USB host, USB device, RS-232 (optional)
Resolución	1 mVpp	<b>Mechanical features</b>	
Impedancia de carga	50 $\Omega$ típico	Dimensions	235 (W.) x 110 (H.) x 295 (D.) mm
<b>Offset DC</b>		Weight	3 kg
Margen (AC+DC)	$\pm 5$ V (50 $\Omega$ ), $\pm 10$ V (high impedance)		
Resolution	1 mV		
<b>Power amplifier module (optional)</b>		<b>Max power output</b>	10 W
<b>Input impedance</b>	50 k $\Omega$	<b>Output impedance</b>	<2 $\Omega$
<b>Max input voltage</b>	2,2 Vpp	<b>Gain</b>	x10
<b>Max output voltage</b>	22 Vpp	<b>Offset</b>	<7 %
<b>Output slew rate</b>	10 V/ $\mu$ s	<b>Bandwidth (at full power)</b>	DC 100 kHz