# FUNCTION GENERATOR

## 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 µHz freq resolution).
- ✓ Vertical resolution: 14 bits, up to 1 M artitrary 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).

| Specifications | GF-857 |
|---|---|
| **Number of channels** | 2 (independent) |
| **Frequency output** | 10 MHz |
| **Sample rate** | 125 MS/s |
| **Vertical resolution** | 14 bits |
| **Waveforms (output)** | |
| Standard | Sine, Square, Pulse, Ramp, and Noise |
| Arbitrary | Exponential rise, Exponential fall, Sin (x)/x, Step wave and others. Total: 45 built-in waveforms and user-defined arbitrary waveform |
| **Frequency resolution** | |
| Sine | 1 µHz - 10 MHz |
| Square | 1 µHz - 5 MHz |
| Pulse | 1 µHz - 5 MHz |
| Ramp | 1 µHz - 1 MHz |
| Noise | 25 MHz (-3 dB) (typ) |
| Arbitrary waveform | 1 µHz - 10 MHz |
| **Amplitude** | |
| Amplitude | 1 mVpp - 10 Vpp (50 Ω)<br>1 mVpp - 20 Vpp (Impedancia alta) |
| Resolución | 1 mVpp |
| Impedancia de carga | 50 Ω típico |
| **Offset DC** | |
| Margen (AC+DC) | ±5 V (50 Ω), ±10 V (high impedance) |
| Resolution | 1 mV |

| | |
|---|---|
| **Arbitrary waveform** | |
| Wavelength | 2 pts to 8K pts |
| Non-volatile memory | 64 MB |
| **Modulation** | |
| Waveform | AM, FM, PM, FSK, sweep and burst |
| Modulation frequency | 2 mHz to 20 kHz (FSK 2 mHz - 100 kHz) |
| **Frequency meter** | |
| Functions | Frequency peryod, +Width, -Width, Duty Cycle |
| Frequency margin | 100 mHz to 200 MHz |
| Resolution | 6 digits |
| **Input / Output** | |
| Screen | 4" (480 x 320 pixels) LCD |
| Type | Frequency meter<br>External modulation input<br>External trigger input<br>External reference clock Input / Output |
| Communication interface | USB *host*, USB device, RS-232 (optional) |
| **Accessories** | Control sostware, Quick reference guide, USB cable, Power cord, BNC/Q9 cable |
| **Mechanical features** | |
| Dimensions | 235 (W.) x 110 (H.) x 295 (D.) mm |
| Weight | 3 kg |

| Power amplifier module (optional) | | | |
|---|---|---|---|
| **Input impedance** | 50 kΩ | **Max power output** | 10 W |
| **Max input voltage** | 2,2 Vpp | **Output impedance** | <2 Ω |
| **Max output voltage** | 22 Vpp | **Gain** | x10 |
| **Output slew rate** | 10 V/µs | **Offset** | <7 % |
| | | **Bandwidth (at full power)** | DC 100 kHz |