



Introduction

Function Generator can generate multiple waveforms such as sine wave, square wave, triangle wave, pulse wave, and arbitrary wave. The frequency range up to 15MHz with duty cycle adjustment, sweep frequency, frequency signal frequency and counter function, and the output signal, amplitude, and frequency can be simultaneously. The series signal generator has excellent amplitude and frequency characteristics, the appearance of this instrument is exquisite and beautiful.

| Technical Parameters | | |
|----------------------------------|---|--------------------------------------|
| Frequency characteristics | | |
| Sine wave frequency range | | 0~15MHz |
| Square wave frequency range | | 0~15MHz |
| Triangle wave frequency range | | |
| Pulse wave frequency range | | |
| TTL digital wave frequency range | | 0~6MHz |
| Arbitrary frequency range | | |
| Pulse width adjustment range | | 100nS~4000S |
| Square wave rise time | | ≤25ns |
| Minimum frequency resolution | | 0.01uHz (0.00000001Hz) |
| Frequency accuracy | | ±20ppm |
| Frequency stability | | ±1ppm/3hours |
| Waveform characteristics | | |
| Waveform type | Sine, Square, pulse (adjustable duty cycle, precise adjustment of pulse width and period), triangular wave, partial sine wave, CMOS wave, DC level (set DC amplitude by adjusting offset), half wave, full Wave, positive staircase wave, anti-ladder wave, noise wave, exponential rise, exponential drop, multisonic wave, Symplectic pulse and Lorenz pulse and 60 arbitrary waveforms | |
| Wave length | | 2048 points |
| Waveform sampling rate | | 266MSa/s |
| Waveform vertical resolution | | 14-bits |
| Sine wave | Harmonic Suppression | ≥45dBc(<1MHz); ≥40dBc(1MHz~20MHz) |
| | Total harmonic distortion | <0.8%(20Hz~20kHz,0dBm) |
| Square wave and | Overshoot | ≤5% |
| Pulse wave | Duty cycle adjustment range | 0.1%~99.9% |
| Partial sine wave | Duty cycle adjustment range | 0.1%~99.9% |
| Sawtooth wave | Linearity | ≥98%(0.01Hz~10kHz) |

Note: Specifications are subject to change.

| Output characteristics | | |
|---|--|--|
| Sine wave amplitude range | Frequency \leq 10MHz | |
| | 2mVpp~20Vpp | |
| Square wave/Triangle wave amplitude range | Frequency \leq 10MHz | |
| | 2mVpp~20Vpp | |
| Amplitude resolution | 1mV | |
| Amplitude stability | \pm 0.5%/5 hours | |
| Flatness of amplitude | \pm 5%(<10MHz); \pm 10%(>10MHz) | |
| Waveform output | | |
| Output impedance | 50 Ω \pm 10% (typical) | |
| Protection | All signal outputs can work within 60 when the load is short-circuited. | |
| DC offset | | |
| Offset adjustment range | Output amplitude > 2V | |
| | -9.99V~9.99V | |
| Offset resolution | 0.01 V | |
| Phase characteristics | | |
| Phase adjustment range | 0~359.9° | |
| Phase resolution | 0.1° | |
| TTL/CMOS output | | |
| Low level | <0.3V | |
| High level | 1V~10V | |
| Level rise/fall time | \leq 20ns | |
| External measurement function | | |
| Frequency meter function | Frequency measurement range | 1Hz~100MHz |
| | Measurement accuracy | Gate time 0.01S~10s continuous adjustment |
| Counter function | Counting range | 0-4294967295 |
| | Coupling method | DC and AC coupling methods |
| | Counting method | Manually |
| Input signal voltage range | 2Vpp~20Vpp | |
| Pulse width measurement | 0.01us resolution, maximum measurable 20s | |
| Period measurement | 0.01us resolution, maximum measurable 20s | |
| Sweep Function | | |
| Sweep channel | CH1 or CH2 | |
| Sweep type | Linear sweep, logarithmic sweep | |
| Sweep time | 0.1s~999.9s | |
| Setting range | Any setting between the maximum output frequency of the corresponding model of the starting point (0.01Hz) and the end point | |
| Sweep direction | Forward, reverse and round trip | |
| Bursting function | | |
| Number of pulses | 1-1048575 | |
| Burst mode | Manual burst, CH2 burst, external burst (AC), external burst (DC) | |
| General specifications | | |
| Display | Display type | 2.4 inch TFT color LCD display |
| Store and load | Quantity | 100 |
| | Position | 00 to 99 (00 memory location parameter is loaded by default as power on) |
| Arbitrary wave | Quantity | 1 to 60 total 60 groups (15 groups by default as power on) |
| Interface | Interface mode | USB to serial interface |
| | Extension interface | With TTL level mode serial interface for user secondary development |

Note: Specifications are subject to change.

| | | |
|---------------------------|---------------------|--|
| | Communication speed | Adopt standard 115200bps |
| | Protocol | Using the command line, the protocol is made public |
| Power supply | Voltage range | DC5V \pm 0.5V |
| Manufacturing technology | | Surface mount technology, large-scale integrated circuits, high reliability, long service life |
| Prompt tone | | Users can turn on or off by setting program |
| Operating characteristics | | All key operations, knob continuous adjustment |
| Environmental conditions | | Temperature: 0~40 oC Humidity: <80% |

Accessories

The contents of accessories are as follows. If the contents do not match or the instrument is damaged, contact the dealer or the company.

| | | |
|---|---|-------------|
| Host: Series Dual Channel Signal Generator | : | 1Pcs |
| Accessories: Power Adapter | : | 1pcs |
| USB cable | : | 1pcs |
| Signal connection cable | : | 2pcs |
| User manual | : | 1pcs |
| CD | : | 1pcs |

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