

36204-TE

Mini Waveform Generator

Designed for the hobbyist; this compact, waveform generator uses Direct Digital Synthesis (DDS) to create waveforms. (Basically stored data in a ATmega48, 8 bit Microcontroller)

Power: 3.5-10VDC (5V nominal) @ ~170mA (5V)

Output Waveforms: Sine, Square, Triangle, Forward Sawtooth, Reverse Sawtooth

Frequency Range:

- Sine wave frequency range: 1 Hz ~ 500 kHz (Output flat to 200 kHz)
- Rectangle wave frequency range: 1 Hz ~ 20 kHz
- Triangle wave frequency range: 1 Hz ~ 20 kHz
- Sawtooth wave frequency range: 1 Hz ~ 20 kHz

NOTE: As the frequency further increases, the output decrease

Resolution: 1Hz

Sine Wave Distortion: <1% below 1kHz, <0.5% above 1kHz.

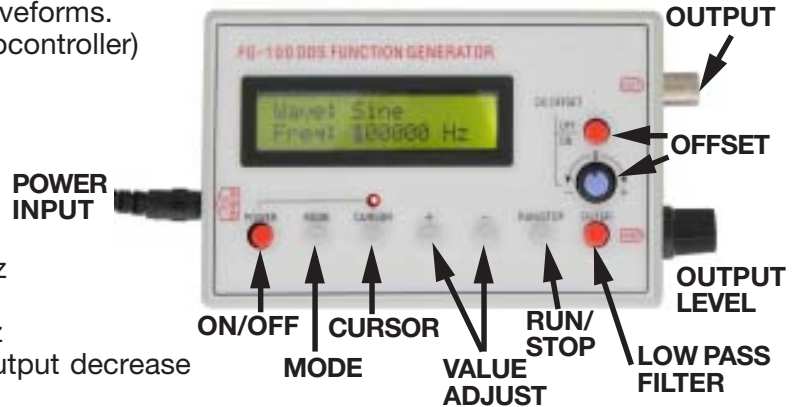
Output Amplitude: Adjustable ~ ± 10V (PP).

Output Impedance: 50 ohms.

DC Offset: ~maximum ± 10V, with shutdown function

Includes 1m power cable (USB Type A to 3.5mm Coaxial Plug)

L: 5-1/2" **W:** 3-1/8" **H:** 1-1/2" **WT:** .5



SETTING (Must be done at each Power On as Unit does NOT store parameters at power Off)

WAVEFORM

Connect Power

Set "OFFSET" to OFF & Control to "0" (Centered)

1: Press the "ON" button

Display shows a 100 kHz sine wave (weird, since 20K is Spec. Max??)
generator will be in STOP mode (MSD Flashing)

2: Press the "RUN/STOP" button, the Output turns off

3: Press the "MODE" button to scroll until the LCD Shows desired waveform (SINE,SAWTOOTH ect.).

FREQUENCY

4: Press "CURSOR" button to select the digit you want to adjust, this digit will flash.

5: Press the "+" and "-" buttons to set the value.

6: Press "CURSOR" button again to set additional digits

7: Press RUN/STOP, the selected waveform at the selected frequency will available at the BNC connector

8: Adjust Amplitude, OFFSET Voltage. (If needed)

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