

# Pulse Generator

Model : PG1000C



## Features and usage

1. The Pulse Signal Generator - Maximum Pulse Output Voltage can reach +5V(50ohm Load). Its Repeated Frequency Range is selected by the Internal Oscillator Frequency (1MHz-10MHz) and Crystal Oscillator Frequency (10MHz). (1Hz-10MHz to choose INT mode, 10Hz-10MHz to choose X-TAL Mode)
2. At X-TAL mode, using the knob, by the 7 pre-set frequency range, you can set a frequency accurately. At the INT mode, you can set a stochastic Repeated Frequency.
3. It can generate a Pulse Wave of high quality (1Hz-10MHz), thus it has a very wide application in all kinds of circuit test. In the analyzing and design of a digital circuit, it can be used as a Clock Pulse Source.

## Specifications

### 1.Oscillator Mode

INT Mode  
EXT. Mode : +(up) , -(down)  
Crystal Oscillator Mode : X-TAL  
Single Oscillator Mode : Manu

### 2.Oscillator Frequency

INT : 1Hz-10MHz / 1-7 ranges (Freq. changes at each range)  
X-TAL : 10,100,1K,1M,10M(Hz) (Frequency stability:  $\pm 100$ ppm)

### 3.External Input

Max. Input Voltage : -1V, +10V  
Input Voltage :  $\geq +1V$   
Pulse width :  $\geq 20nS$   
Frequency width : 10Hz-10MHz

### 4.Single Oscillator Mode Input

Method : press the switch

### 5.Pulse Output

Output voltage : 0 ~ +5V adjustable (50 $\Omega$  Load)  
0 ~ +10V adjustable (open status)  
Rising time : <10nS (50 $\Omega$  Load, +2.5V -- +5V)  
Falling time : <10nS (50 $\Omega$  Load, +2.5V -- +5V)  
Period INT : 100nS-1000mS/ 1-7 ranges (Freq. changes at each range)  
X-TAL : 100nS-100mS /1-7 ranges (Freq. fixed)  
Delay time : 0-50mS/1-7 ranges (Freq. changes at each range)  
Pulse width : 50nS-50mS /1-7ranges (Freq. Changes at each range)

### 6.Trigger Output

Output Method : C-MOS (74HCO2)(50 $\Omega$  Load,  $\geq 1V$ )  
Pulse width : about 20nS

### 7.OSC output

Output Method : C-MOS (74CO4)( 50 $\Omega$  Load,  $\geq 1V$ )

### 8.Frequency counter

Display : 4 digits, high brightness LED display  
Range : 10Hz-20MHz  
Accuracy : 0.01% $\pm$ 1digit  
Sensitivity : 50mVrms,10Hz-20MHz  
Max. Input Level : 140Vp-p  
Input Resistance : 1M $\Omega$

### 9.Power

Voltage : AC100, 120, 220, 230 $\pm$ 10%  
Frequency : 50HZ, 60HZ

### 10.Power Consumption : <15VA

### 11.Working environment

Temperature : +5 $^{\circ}C$  - +40 $^{\circ}C$   
Humidity : <85%RH (+40 $^{\circ}C$ )