



Scientech 4093 Frequency Counter is a multifunction Frequency Counter based on state of art technology. Scientech 4093 Frequency Counter measures signals over a wide range from 0.1Hz to 1000MHz. Two selectable gate time fixed values: 1s and 10s are provided.

Scientech 4093 Frequency Counter provides high performance, and stability at low cost. The Counter can measure Frequency and Period. It has 3 step Frequency range selection, and LCD display.

Features

- Frequency measurement from 0.1Hz to 1000MHz
- Frequency range selection in 3 steps
- Two selectable Gate time; 1s, 10s
- Frequency and Period measurement
- Digital readout with backlit LCD
- Microcontroller based design
- Attenuation of 20dB and input impedance of 1M Ω (Input A)
- Low power consumption
- Easy to operate
- Online Product Tutorial

Technical Specifications

Input characteristics

Input A	: Measuring range 0.1Hz - 20MHz
Frequency range	: DC coupled 0.1Hz - 100Hz AC coupled 100Hz - 20MHz
Sensitivity	: DC-0.1Hz - 1Hz, $\geq 350\text{mVrms}$ DC-1Hz - 100Hz, $\geq 80\text{mVrms}$ AC-100Hz - 20MHz $\geq 100\text{mVrms}$
Accuracy	: $\pm 0.5\%$ for 0.1Hz-100Hz $\pm 0.2\%$ for 100Hz-2MHz $\pm 0.02\%$ for 2MHz-20MHz
Input impedance	: 1M Ω
Attenuation	: x1, x20
Max. safety voltage	: 30V (DC/AC peak)
Input B	: Measuring range 20MHz - 1000MHz
Frequency range	: From 20MHz - 1000MHz
Sensitivity	: $\geq 80\text{mVrms}$
Coupling	: AC Only
Accuracy	: $\pm 0.02\%$ for 20MHz-100MHz $\pm 0.002\%$ for 100MHz-1000MHz
Input impedance	: 50 Ω
Max. safety voltage	: 3V

Frequency range selection in 3 steps:

Input A: - 0.1Hz - 2MHz

Input A: - 2MHz - 20MHz

Input B: - 20MHz - 1000MHz

Display : 16x2 LCD display with frequency range, frequency, period & gate time

Gate time setting: In two steps (1s & 10s)

Input	Frequency Range	Coupling	Gate time
Input A	0. 1Hz - 100Hz	DC	10s and 1s
Input A	100Hz - 2MHz	AC	1s
Input A	2MHz - 20MHz	AC	1s
Input B	20MHz - 1000MHz	AC	1s

Frequency Stability (Over Temp.) : $\pm 10\text{ppm}$ (- 20 ~ +70 °C)

Frequency Tolerance (at 25°C) : $\pm 10\text{ppm}$

General Information:

2 Input Channels : Input A for 0.1Hz - 20MHz;

Input B for 20MHz - 1000MHz

Mains Supply : 230V AC $\pm 10\%$, 50Hz

Operating Temperature : 0 - 40 °C, 85% RH

Product Tutorial : Online (on www.ScientechLearning.com)

Weight : 2kg (approx.)

Dimension (mm) : W 200 × D 280 × H 90

Accessories : Mains cord -1 no.

BNC – BNC Cable -1 no.