

- High accuracy frequency measurements to 3.0GHz
- Measures Frequency, Period, Time Interval, Ratio and Totalize
- High Stability TXCO
- Variable Trigger level on Inputs A and B
- Large Bright 8 digit LED display With gate time and function indicators
- Low Pass filter and X10 attenuator



SPECIFICATIONS

Frequency Measurement

Input A

Ranges

Low Range:

DC coupled: 0.1Hz to 10MHz

AC coupled: 10Hz to 100MHz

High Range: 10MHz to 100MHz

Best Resolution:

Low Range: 0.1Hz

High Range: 1Hz

Gate Times: 0.01s to 10s in 4 decades

Accuracy: \pm (Time base error + 1 count)

Input B: (Used only for Ratio A/B and Time interval)

Range:

DC coupled: 0.1 to 10MHz

AC coupled: 10Hz to 100MHz

Freq C

Range: 100MHz to 3.0GHz

Best Resolution: 10Hz

Gate Times: 0.0128s, 0.128s, 1.28s and 12.8s

Accuracy: \pm (Time base error + 1 count)

Totalize

Input: A

Frequency range: DC to 10MHz

Count Capacity: 0 to 99,999,999 counts

Resolution: 1 count

Minimum Pulse width: 250ns

Accuracy: \pm 1 count

Time Interval: (A \rightarrow B)

Inputs: A and B

Range: 0.5 μ s to 200ms (5Hz to 2MHz)

Minimum Pulse Width: 250ns

Best Resolution: 100ns

Multipliers: x1, x10, 100, 1000

Accuracy: \pm (Time base error + 1 count) \pm Input A

Trigger error \pm Multiplier

Ratio: (A/B)

Inputs: A and B

Range:

CHA: 10MHz to 100MHz

CHB: 0.1Hz to 10MHz

Resolution: Input B/(input A x multiplier)

Accuracy: \pm Input B trigger error/Input B x Gate time)

\pm 1 count

Period: Input A

Range: 0.5 μ s to 200ms (5Hz to 2MHz)

Minimum pulse width: 250ns

Best Resolution: 100ps

Accuracy: \pm (Time base error + 1 count) \pm Input A Trigger error

Input Characteristics:

Inputs A & B

Sensitivity: \leq 25mV

Input Impedance: 1M Ω + 40pF capacitance

Attenuator: x1, x10

Coupling: AC and DC

Low pass filter: To approx. 100KHz

Slope: Plus or Minus

Trigger level: \pm 350mV variable and 0V fixed

Maximum input volts: 250V DC or AC peak

Input C

Frequency Range: 100MHz to 3.0GHz

Sensitivity:

\leq 15mV (100MHz to 800MHz)

\leq 60mV (800MHz to 3.0 GHz)

Maximum input voltage: 3V rms

Attenuator: None

Input Impedance: 50 Ω

Coupling: AC

Time Base

Type: TXCO

Frequency: 10.00000MHz

Stability: \pm 3.0 PPM per week

Time base output: 500mV p-p into 50 Ω

General Specifications

AC input Volts: 100V/120V/220V/240V

Line Frequency: 50/60Hz

Power consumption: 20VA

Operating temperature: 0 to 40°C (32 to 104°F)

Size: 4.0" (H) x 10.0" (W) x 11.0" (D)

Weight: 5.25 lbs

Accessories: Manual, Line cord, BNC cable