

Protek-9100

MultiFunctions Counter



**Features**

- Overload Protection
- Built-in Correction
- Built-in Crystal Oven Oscillator
- Multi-function Measurement
- RS232C Interface and GPIB (Optional)
- 8 Digit LED

**Specification**

- Measurement / Frequency
  - Channel(A)

Range	10Hz ~ 10MHz (10MHz Range) 10MHz ~ 100MHz (100MHz Range)
Resolution	10MHz Range : 1, 10, 100MHz (Selection of Gate Time) 100MHz Range : 10, 100, 1000Hz (Selection of Gate Time)
Gate Time	0.01s, 0.1s, 1s
Accuracy	$\pm 1$ count $\pm$ time base error

- Frequency Measurement (Channel B)

Range	100MHz ~ 1GHz
Resolution	100Hz, 1KHz, 10KHz
Gate Time	0.027s, 0.27s, 2.7s
Accuracy	±1count ±time base error

- Channel(B)

Range	10Hz ~ 2.5MHz
Resolution	$10^{-7s}$ , $10^{-8s}$ , $10^{-9s}$ , $10^{-10s}$
Accuracy	±1count ±time base error

- Accumulation (Channel A)

Range	10Hz ~ 10MHz
Resolution	1 count

• Input Characteristics

- Channel(A)

Sensitivity	10MHz Range : 25mVrms, 10Hz~8MHz 50mVrms, 10Hz~8MHz 100MHz Range: 25mVrms, 10MHz~80MHz 50mVrms, 80MHz~100MHz
Degration	x2, x20 (Fixed Degrator)
Filter	LOW PASS ~ 100KHz, -3dB LOW PASS ~ 150KHz, -3dB (20dB Degrator)
Impedance	About 10K Ohm
Max. Input	250V (DC+AC rms)
Reference Frequency	10MHz (OVER)

- Channel(B)

Sensitivity	205mVrms
Impedance	About 50 Ohm
Max. Input	3V

- Time Base(Reference Oscillator)

Frequency	10MHz, 3.90625MHz (OVEN)
Short Term Stability	$\pm 3 \times 10^{-9}$ (1sec average)
Long Term Stability	$\pm 2 \times 10^{-5}$ /month
Temperature Stability	$\pm 1 \times 10^{-5}$ (0°C~40°C)
Voltage Stability	$\pm 1 \times 10^{-7}$

- General  
Counter: 8 Digit LED (Fixed Point, G, O, F, KHz, MHz, us display)
- Operation Voltage:  
AC 110V, 117V, 220V, 240V  $\pm 10\%$ , 50/60Hz, preheating 20 Min.
- Dimension & Weight : 205(W)x76(H)x267(D)mm, 2.15kg
- Basic Accessories
  - Power Cord 1EA
  - Fuse 2EA
  - CABLE (BNC-CLIP) 1EA
  - Manual 1EA