

Test & Measurements Counters & Generators

▣ **Prottek-U2000A**.....

Universal Counter



▣ **Features**

- Built-in High Stability Crystal Oven Oscillator
- Multi-functional Measurement and Auto-correction
- 8 DIGIT LED
- Large Bandwidth
- Time Step Measurement
- 10MHz OUT

▣ **Specifications**

• **CH A Measurement (FREQ. A LOW/FREQ. A HI)**

Range	0.1Hz~10MHz:10Hz~10MHz (DC Coupling) 10Hz~10MHz:10Hz~10MHz (AC Coupling)
Input Voltage	25mV ~ 1Vrms(0.1Hz~100MHz)
Degrader 1/1	(Vp-p = 2 2Vrms)
Degrader 1/10	250mV ~ 10Vrms(0.1Hz~100MHz)
SLOPE	+, - (PULL)
LP FILTER	About 100KHz
Endurance Voltage	250V (DC+AC peak)
TRIGGER LEVEL	-350mV~+350mV (PRESET OVEN)
GATE Time	0.01s, 0.1s, 1s, 10sÀÇ 4 Step
Accuracy	±1 count ±time base error
Units	LO MODE : KHz HI MODE : MHz

- **CH C Measurement (FREQ. C)**

Range	100MHz ~ 1000MHz
Input Voltage	25mV ~ 1Vrms 100MHz ~ 2000MHz
Endurance Voltage	4Vrms
Input Impedance	About 50 Ω
Input Coupling	AC
GATE Time	0.0256s, 0.256s, 2.56s, 25.6s, 4 Step
Accuracy	± 1 count \pm time base error
Units	MHz

- **RATIO A/B Measurement**

Range	CH A Input (10MHz ~ 100MHz) CH B Input (0.1Hz ~ 10MHz)
Magnification	1, 10,100,1000 (4 MODE)
Resolution	\pm FREQ.B / (FREQ.A \times MAG)
CH B Input Capability	
Input Impedance	About 1M Ohm 3pF or less
SLOPE	+, - (PULL)
LP FILTER	About 100KHz, 3dB
Endurance Voltage	250V(DC+AC peak)
Degrader	1/1, 1/10
Input Coupling	AC, DC
TRIGGER LEVEL	-350mV ~ +350mV (PRESET)
Input Voltage	
Degrader 1/1	25mV ~ 1Vrms (Vp-p=2 $\sqrt{2}$ Vrms)
Degrader 1/10	250mV ~ 10Vrms (Vp-p=2 $\sqrt{2}$ Vrms)

- **Frequency Measurement (PERI. A) : CH A**

Pin(male) Range	0.5 μ s ~ 200,000 μ s (5Hz~2MHz)
Min. pulse width	250ns
Accuracy	± 1 count time base error \pm CH A TRIGGER error
Count Time	0.01s, 0.1s, 1s, 10s (4 MODE)

- **Time Step Measurement (TI A \leftrightarrow B) CH A TO CH B**

Range	0.5us ~ 200,000us (5Hz~2MHz)
Accuracy	±1 count time base error ±CH A TRIGGER error±MAG.
Count Time	1, 10, 100, 1000 (4 MODE)
Min. pulse width	250ns

- **Totalize (CH A)**

Range	0.5us ~ 200,000us (5Hz~2MHz)
Count Range	0 ~ 9999999 (OVERFLOW)
Count Control	Usage of Reset and Hold Switch

- **SELF CHECK**

Display	10 MHz
GATE Time	0.01s, 0.1s, 1s, 10s (OVERFLOW)
Unit	KHz

- **Reference Oscillator**

Reference Frequency	10 MHz, 3.90625MHz (OVEN)
RATE	$\pm 3 \times 10^{-7}$
Temperature Characteristics	$\pm 5 \times 10^{-6}$ (0iÉ~40iÉ) $\pm 5 \times 10^{-7}$ (0iÉ~30iÉ)
Power Characteristics	$\pm 1 \times 10^{-7}$ ($\pm 10\%$)
Preheat Time	20 min. at 25iÉ

- **Referece Oscillator Output**

Open Output Voltage	Over 1Vp-p at 1M¥Ø
50¥ØOutput Voltage	Over 500mVp-p

- General

Display Type: 8 digits, 14mm SEH<EMT LED, KHz, MHZ, us, OVER, GATE(LED, FUNCTION, GATE TIME, HOLD (LED)

- Dimension & Weight

262(W)×84(H)×230(D)mm, 2.35kg

- Accessories

.Power Cord1EA

.Fuse 2EA

.BNC-CLIPS 1EA