Powertronic Venda, locação e manutenção.

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B+K PRECISION counters provide versatility and reliability for a broad spectrum of laboratory and service applications. In addition to frequency measurement, most B+K PRECISION counters also provide period and totalize measurement capabilities.

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COUNTER TERMS

FREQUENCY RATIO—Measurement of the frequency ratio of two different input signals as applied to two different input channels.

PERIOD—The time required for a single cycle of the input event to occur. Measured in seconds or fractions of a second and is the reciprocal of frequency. (i.e., Time = 1/Frequency). PERIOD AVERAGING—Sampling a number of input periods and displaying the average of these sampled periods.

PRESCALER—A frequency divider circuit which extends the high frequency measurement capability of a counter.

SENSITIVITY—The lowest amplitude (strength) signal that the counter will count.

TCXO—Temperature Compensated Crystal Oscillator. The time base of the highest quality frequency counters is a TCXO, which provides high accuracy and stability.

TIME BASE ACCURACY—The accuracy of a counter is determined by the stability of its internal time base. Stability is measured in parts per million (ppm), while undergoing temperature and operating voltage variations.

TIME INTERVAL—Measurement of the time difference from the edge of one channel's input signal to the edge of another channels's input signal.

TOTALIZE—Continuous counting of the number of events that have occurred since the counter was reset.



Model 1823

- Eight-digit display provides up to 0.1 Hz resolution
- Period mode provides greater accuracy at low frequencies
- Ratio mode combines two input frequencies and displays their ratio
- Totalize mode and Time interval mode add versatility
- Large bright LED display
- Selectable attenuators and low-pass filter prevent miscounts due to input noise



Model 1803D & 1804D

- Selectable gate times 0.1 sec and 1.0 sec
- 7 digit LED display
- High accuracy time display
- Compact bench top AC powered counter
- Wide measuring range up to:
 - 200MHz(model 1803D) 1.0GHz(model 1804D)

Model 1875

Handheld portable instrument for field use

- High sensitivity for VHF and UHF frequencies
- Wide measuring range up to 2.5GHz
- Data hold, Relative, and Memory (Max, Min, Average reading)

Specifications

specific			models			
	1856C	1823	1803D	1804D	1875	
Range	2.4GHz	175 MHz	200MHz	1.0GHz	2.5GHz	
FUNCTIONS						
Frequency	√	√	V	V	V	
Totalize	√	√				
Period	√	√				
Time Interval		√				
Ratio		√				
Time Base Stability	±0.1ppm	±0.1ppm	±0.1ppm	±0.1ppm	±4ppm	
Best Resolution	0.1 Hz	0.1 Hz	l Hz	l Hz	0.1 Hz	
No. of Digits	8	8	7	7	8	
Display Hold	√	√				
Low Pass Filter	1	1				
Sensitivity	10 mVrms	20 mVrms	25 mVrms	50mV	50mV	
Remote Start-Stop	1	1				
Self Test	1	1				



Model 1856C

■ Wide measuring range up to 2.4GHz

- Bright eight-digit LED display
- Period mode for accurate low frequency measurement
- Totalize mode permits counting of individual events
- Accurate TCXO time base



1875

Counters

Specifications

Specificat	18560	1823	1803D	1804D	<u>models</u> 1875
FREQUENCY					
KHz MODE	5Hz to 10MHz sinewave	5Hz to 175MHz	10Hz to 25MHz sinewave	10Hz to 16Mhz	10Hz to 10MHz
MHz MODE	5Hz to 100MHz sinewave	SOKHz to 175MHz	10Hz to 200MHz sinewave	10HZ to 16MHZ	10MHz to 500Hz
MHZ MODE	50MHz to 2.4GHz	50MHz to 175MHz sinewave	TOWINZ to 2001/01/2 sillewave		100MHz to 2.5GHz
	sinewave (prescale)	SOIVINZ to 17 SIVINZ SILIEWAVE			
ACCURACY	±Time base accuracy +1 count	\pm 1 count \pm 1 time base error	±Time base acc	ureau LL count	+ (Annual dat)
PERIOD CHARACTERISTICS	\pm nine base accuracy \pm 1 count	\pm 1 count \pm 1 time base error	± Time base acc	uracy + r count	\pm (4ppm + dgt)
RANGE	0.285 //- 1- 200.000 //-	0.5 //- 1- 200.000 //-	Dava natamula	Deservet such	
CONTROL	0.285 μ s to 200,000 μ s Manual reset and hold from the	0.5 μ s to 200,000 μ s Manual reset and hold from the	Does not apply	Does not apply	10Hz to 10MHz
CONTROL					
	front panel START/	front panel START/			
	STOP jack is low	STOP jack is low			
INPUT CHARACTERISTICS	20 m)/ mag. 511= to 20 MU	20 mV rms. 5 Hz to 5 MHz	25 mV mm 511= to 20 MU	501/	< 50
SENSITIVITY	20 mV rms, 5Hz to 30 MHz, 50 mV rms above 100 MHz		25 mV rms, 5Hz to 30 MHz, 50 mV rms	50mV	\leq 50mV, 5Hz - 100MH
	SU mV rms above TOU MHZ	50 mV rms, 5 Hz to 125 MHz		(10Hz to 200MHz)	≤ 100mV,
		100 mV rms, 125 MHz to	30 MHz to 100 MHz		100MHz - 120GHz
		150 MHz			
		150 mV rms, 150 MHz to			
		175 MHz			
MPEDANCE	1 MΩ (<40 pF)	1 MΩ (<40 pF)	Direct: IMQ	$HF = IM\Omega$, $VHF = 50\Omega$	
ATTENUATOR	X1/X10, switch selectable	X1/X10, switch selectable		16	High, Low on C channe
COUPLING	AC	AC	AC	AC	AC
FILTER	100 kHz, -3 dB switch selectable	100 kHz, -3 dB switch selectable			
PRESCALE	10 m)/ mms 20 MU- 50 MU -	Dees not onnly	Dage not onnly	Dees not comb	Dees not arrit
SEINSTITIVITY	10 mV rms, 30 MHz, 50 MHz to	Does not apply	Does not apply	Does not apply	Does not apply
	600 MHz, 25 mV rms,				
	600 MHz to 1.3 GHz,				
	50 mV 1.3 GHz to 2.4 GHz				
IMPEDANCE	50 Ω				
COUPLING	AC				
MAXIMUM INPUT	I V rms				
TOTALIZE START/STOP INPUT					
CHARACTERISTICS					
LOGIC LEVELS	Standard TTL levels	Standard TTL levels			
LOADING	One standard TTL gate	One standard TTL gate			
TIME BASE CHARACTERISTICS					
STANDARD TYPE	TXCO	Crystal controlled oscillator	Crystal controlled		Crystal oscillator
FREQUENCY	10 MHz	10 MHz (INT, EXT)	10 MHz	5.24288MHz	4.194MHz
STABILITY	±0.1 ppm (±1 Hz)	±0.1 ppm (±1 Hz)	±0.1 ppm	±0.1 ppm	±4ppm + 1 dgt.
LINE VOLTAGE STABILITY	<±0.1 ppm ±10%	Less I ppm with ±			
	10% line volt variation	10% line volt variation			
TEMPERATURE STABILITY	\pm 1ppm (from 0°C to 28°C)	± 1 ppm (from 0°C to 28°C)	$<\pm 10$ ppm from 0° to 50°C,	$<\pm10$ ppm from	0.1 ppm/°C
	0° C to 50°C ambient, ± 0.5 ppm	0° C to 50°C ambient, ±0.5 ppm	2 ppm 20°C to 30°C	0° to 50°C	
	from 18°C to 28°C	from 18°C to 28°C			
EXTERNAL TIME BASE INPUT		10 MHz, >1.77V rms			
DISPLAY CHARACTERISTICS					
DISPLAY	0.56" seven segment LED -	0.56" seven segment LED -	0.43" seven segment LED -	ç	0.5" (13mm) LCD,
	8 digits	8 digits	7 digits	LED - 7 digits	8 digits
LED INDICATORS	For kHz, MHz, μ sSEC, Gate,	For KHz, MHz, μ sSEC, Gate,	N/A	N/A	N/A
	and overflow indicators	and overflow indicators			
GENERAL					
POWER REQUIREMENTS	120/220/240 VAC ± 10%,	120/220/240 VAC ± 10%,	9VDC 300mA	7-10VDC	4 x 1.5V AA batteries,
50/60 Hz 12W	50/60 Hz 12W	Battery operation: 6AA		with 800mA	optional AC/DC adapte
DIMENSIONS (H x W x D)	4.5 x11.75 x10.375"	2.8 x10.2x8.3"	2.1x 9.06x6.18"	2.1x 9.06x6.18"	6.8 x 3.1x1.4"
	(114 x 298 x 264mm)	(71 x 261 x 211 mm)	(54 x 230 x 157mm)	(54 x 230 x 157mm)	(173 x 80 x 35 mm)
WEIGHT	3.98 lbs (1.8 kg)	3.98 lbs (1.8 kg)	24 oz (680 g)	24 oz (680 g)	12 oz (340 g)
Accessories				One Y	(ear Warranty
SUPPLIED: Instruction N	Ianual, all models; AC adapter for mod	tel 1803D			
SUPPLIED: Instruction M OPTIONAL:	Ianual, all models; AC adapter for mod AT-21 antenna kit, PR-37A x1/x10/REF. Probe	del 1803D AT-21 antenna kit, PR-37A x1/x10/REF. Probe	PR-37A x1/x10/REF. Probe	AT-21 antenna Kit	9VDC 300mA AC/DC adapter, AT-20 antenn

