



- 1 MHz to 2 GHz
- 2 GHz, 230 MHz, 2 inputs (A, C inputs)
- 10 MHz base clock
- 1 ppm/year stability
- 10 digits display
- Math operation
- GP-IB

The SC-7200 series is a lineup of highly reliable and user friendly multi-function universal counters. The SC-7206 — the second model of the SC-7200 series — provides full capabilities, including frequency, period, time interval, pulse width, phase, frequency ratio, duty factor and event accumulation measurement, with an excellent time base specification of 1 ppm/year stability. This model is suitable for R&D, QA and production.

Specifications

Frequency C	50 MHz to 2 GHz	Output	10 MHz CMOS
Measuring time	1 ms to 10s (5 steps gate)		Intensity modulation output
Frequency A	1 mHz to 230 MHz (DC)	Input	10 MHz \pm 50 Hz
	10 Hz to 230 MHz (AC)	Coupling	AC
Measuring time	1 ms to 10s (5 steps gate), Single	Input R	6.4 k Ω approx.
Period A	5 ns to 1000s (DC)	Input voltage	1 Vrms to 5 Vrms
	5 ns to 0.1s (AC)	Display	16 digits (10 digits data)
Measuring time	1 ms to 10s (5 steps gate), Single	Update rate	0.1 to 200s with 0.1s resolution
Duty A	0 to 100%	Masking	1 to 9 digits
Measuring time	1 ms to 10s (5 steps gate), Single	Math	
Pulse width A	100 ns to 5s (1ms to 10s g gate)	Scaling	(X-a)/b, c/X, X-Xref
	100 ns to 1000s (Single gate)	Statistics	Max, Min, Ave, Div
Measuring time	1 ms to 10s (5 steps gate), Single	Comparison	2 Threshold values
Total A (Accumulation)	Up to 4,294,967,295 counts	GP-IB	Available
Min pulse width	2.5 ns	Environmental condition	
Measuring time	Manual	Operating	0 to +40°C/85%RH
Peak value Vp-A	\pm 2.5 V (1:1), \pm 50 V (20:1)	Storage	-20 to +60°/90%RH
Resolution	10 mV (1:1), 100 mV (20:1)	Power	
Bandwidth	150 Hz to 50 MHz	Voltage	AC100/110 to 120/220 to 240 V
A input		Frequency	50, 60, 400 Hz
Input RC	1 M Ω approx. //20 pF max.	Consumption	33 VA max. (Included Full Option)
Max input voltage	200 V peak	Weight	4 kg max. (Included Full Option)
Sensitivity	30 mVrms (DC to 230 MHz: Manual Trigger, ATT 0 dB)	Dimensions	260(W) x 100(H) x 310(L) mm
	AC/DC	Accessories	2.4 m Power cord (1), Manual (1)
Coupling	AC/DC	Options	
Attenuator	0 dB (1:1), 26 dB (20:1)	SC-702	Comparator out/Ext trigger
Filter	10 kHz (on/off)	SC-703	0.02 ppm/day and 0.1 ppm/year 10 MHz
Trigger	Auto, Manual (\pm 2.5V)	SC-704	0.002 ppm/day and 0.05 ppm/year 10 MHz
Slope	+/-		
C input			
Input R	50 Ω approx.		
Max input voltage	+30 dBm		
Sensitivity	-20 dBm (100 M to 300 MHz), -25 dBm (300 M to 2 GHz)		
	AC		
Coupling	AC		
Burst detect	Available		
Standard time base	10MHz		
Temperature coefficient	\pm 2.5 ppm (0 to +40°C)		
Stability	\pm 1 ppm/year		

Note: Only one of the SC-703 and SC-704 models is available.