



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

The SC-7200 series is a lineup of highly reliable and user friendly multi-function universal counters. The SC-7205 — the basic 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. The model is suitable for R&D, QA and production.

## Specifications

<b>Frequency A</b>	1 MHz to 230 MHz (DC) 10 Hz to 230 MHz (AC)	<b>Standard time base</b>	10 MHz
<b>Measuring time</b>	1 ms to 10s (5 steps gate), Single, Input B	<b>Temperature coefficient</b>	±2.5 ppm (0 to +40°C)
<b>Frequency Line</b>	45 Hz to 440 Hz	<b>Stability</b>	±1 ppm/year
<b>Measuring time</b>	1 ms to 10s (5 steps gate)	<b>Output</b>	10 MHz CMOS Intensity modulation output
<b>Period A</b>	5 ns to 1000s (DC) 5 ns to 0.1s (AC)	<b>Input</b>	10 MHz ±50Hz
<b>Measuring time</b>	1 ms to 10s (5 steps gate), Single, Input B	<b>Coupling</b>	AC
<b>Duty A</b>	0 to 100%	<b>Input R</b>	6.4 kΩ approx.
<b>Measuring time</b>	1 ms to 10s (5 steps gate), Single	<b>Input voltage</b>	1 Vrms to 5 Vrms
<b>Pulse width A</b>	100 ns to 5s (1 ms to 10s gate) 100 ns to 1000s (Single gate)	<b>Display</b>	16 digits (10 digits data)
<b>Measuring time</b>	1 ms to 10s (5 steps gate), Single	<b>Update rate</b>	0.1 to 200s with 0.1s resolution
<b>Frequency ratio A/B</b>	5 x 10 <sup>-10</sup> to 2 x 10 <sup>11</sup>	<b>Masking</b>	1 to 9 digits
<b>Measuring time</b>	1 ms to 10s (5 steps gate)	<b>Math</b>	
<b>Time interval A→B</b>	100 ns to 5s (1ms to 10s gate) 100 ns to 100s (Single)	<b>Scaling</b>	(X-a)/b, c/X, X-Xref
<b>Measuring time</b>	1 ms to 10s (5 steps gate), Single	<b>Statistics</b>	Max, Min, Ave, Div
<b>Phase A→B</b>	0 to 360 degree	<b>Comparison</b>	2 Threshold values
<b>Measuring time</b>	1 ms to 10s (5 steps gate), Single	<b>Environmental condition</b>	
<b>Total A (Accumulation)</b>	Up to 4,294,967,295 counts	<b>Operating</b>	0 to +40°C/85%RH
<b>Min pulse width</b>	2.5n s	<b>Storage</b>	-20 to +60°C/90%RH
<b>Measuring time</b>	Manual	<b>Power</b>	
<b>Peak value Vp-A, Vp-B</b>	±2.5 V (1:1), ±50 V (20:1)	<b>Voltage</b>	AC100/110 to 120/220 to 240 V
<b>Resolution</b>	10 mV (1:1), 100 mV (20:1)	<b>Frequency</b>	50, 60, 400 Hz
<b>Bandwidth</b>	150 Hz to 50 MHz	<b>Consumption</b>	31 VA max. (Included Full Option)
<b>A, B input</b>		<b>Weight</b>	4 kg max. (Included Full Option)
<b>Input RC</b>	1MΩ approx. //20 pF max.	<b>Dimensions</b>	260(W) x 100(H) x 310(L) mm
<b>Max input voltage</b>	200 V peak	<b>Accessories</b>	2.4 m Power cord (1), Manual (1)
<b>Sensitivity</b>	30 mVrms (DC to 230 MHz): Manual Trigger, ATT 0 dB)	<b>Options</b>	
<b>Coupling</b>	AC/DC	<b>SC-701</b>	GP-IB
<b>Attenuator</b>	0 dB (1:1), 26 dB (20:1)	<b>SC-702</b>	Comparator out/Ext trigger
<b>Filter</b>	10 kHz (on/off)	<b>SC-703</b>	0.02 ppm/day and 0.1 ppm/year 10 MHz
<b>Trigger</b>	Auto, Manual (±2.5 V)	<b>SC-704</b>	0.002 ppm/day and 0.05 ppm/year 10 MHz
<b>Slope</b>	+/-		

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