

Universal counter SC-7205A

Made in Japan

Excellent quality beyond imagination from its price



GPIB Interface

(factory option)

SC-701



High stable clock option

(factory option) [Build to order]

SC-703A

Digital I/O Interface

(factory option)

SC-702



Specifications

Input	CH-A, CH-B	Impedance		1M Ω // 20p or less
		Input withstand voltage		200V (DC+ACpeak)
		Frequency		DC~230MHz
		Input voltage range	ATT OFF / ON	± 2.5 V Peak / ± 50 V Peak
		Trigger level accuracy	ATT OFF / ON	10% \pm 30mV (+2V~-2V: $\pm 3\%$) / 10% \pm 300mV (+40V~-40V: $\pm 3\%$)
		Slope/ Bandwidth limitation		+, - / Low pass filter 10kHz
	EXT-B	Dual operation is performed with the CH-B input terminal, and the electrical specification is the same as the CH-B input specification.		
Functions	FREQ A, FREQ B	Measurement range	Input coupling DC / AC	0.6mHz ~ 230MHz / 10Hz ~ 450MHz
		Gate selection		Single / EXT-B / Time (1ms~10s)
	FREQ LINE	Measurement range		45Hz ~ 440Hz
		Gate time		0.1s/1s/10s
	PERIOD A	Measurement range	Input coupling DC / AC	5ns ~ 1,717s / 5ns ~ 0.1s
		Gate selection		Single / EXT-B / Time (1ms~10s)
	DUTY A	Input signal range	Input coupling DC / AC	0.6mHz~230MHz / 10Hz~230MHz
		Measurement range	Single / Time	0.01 μ ~99.999,999,99 [%] / 2 μ ~99.999,998 [%]
		Gate selection		Single / Time (1ms~10s)
	PULSE WIDTH A	Minimum pulse width / MAX repetition frequency		6ns / 80MHz
		Measurement range	Single	100ns~1,717s
			Time	100ns~1/2 gate time (In order to make an average measurement, the period of the measured signal needs to be less than 1/2 of 1m to 10s gate)
	Gate selection		Single / Time (1ms~10s)	
	TIME INTERVAL A→B	Minimum time interval / MAX repetition frequency		6ns / 80MHz
		Measurement range	Single	100ns~109,951s
			Time	100ns~1/2 gate time (In order to make an average measurement, the period of the measured signal needs to be less than 1/2 of 1m to 10s gate)
	Gate selection		Single / Time (1ms~10s)	
	FREQ A/B	Input signal frequency range	Input coupling DC / AC	0.6mHz~230MHz / 10Hz~230MHz
		Measurement range	Internal gate (1ms~10s)	1E-9~1E+9
		Gate selection		Time (1ms~10s)
	PHAS A→B	Minimum interval time		6ns (If the phase difference is 0 or less than 6 ns, it can not be measured.)
		MAX repetition frequency		80MHz
Measurement range		Single / Time	0.1 μ ~359.999,999,9 [°] / 10 μ ~359.999,99 [°]	
Gate selection		Single / Time (1ms~10s)		
TOT A	Minimum pulse width		2.5ns	
	Input signal frequency range	Input coupling DC / AC	DC~230MHz / 10Hz~230MHz	
	Measurement range		0 to 4, 294, 967, 295 counts at scaling operation off.	
	Measurement gate		Time (1ms~10s), EXT-B	
Peak voltage measurement		○		
Measurement function / Calculation		Repeat[RES] / Single[SGL] / HOLD[HOLD] / Scaling, Static and comparison calculation		
Pannel setup		Internal memory (10)		
Internal standard clock		Oscillation frequency / Temperature characteristic / Temporal change 10MHz / ± 2.5 ppm / 0°C ~ +40°C / ± 1.0 ppm / year		
External reference clock input		Input frequency / Amplitude / Input resistance / Coupling 10MHz \pm 50Hz (± 5 ppm) / 1V rms ~ 5V rms Threshold = 0V / 6.4k Ω / AC		
Reference oscillator output	Output		CMOS level	
	Reference frequency output		The 10 MHz stability is the same as the reference oscillator mounted on the main unit.	
	Maker output		The band is 5 MHz. Output L during the actual measurement period	
Interface		RS-232C (Standard attachment)		
Options	Interface		GPIB SC-701 (factory option), Digital I/O SC-702 (factory option)	
	High stable clock		SC-703A (factory option) [Oscillation frequency: 10MHz, Temperature characteristic ± 0.05 ppm (0 to +40°C range based on +25°C)]	
Power supply	Voltage / Frequency		Rated AC100V / 110-120V (Factory option) / 220-240V (Factory option) / Rated 50 / 60 / 400Hz	
	Power consumption		MAX. 31VA (AC100V, When SC-701, 702, 703A mounted.)	
Dimensions / Weight		W210W x H99H x 353D mm / 4.0kg or less (When SC-701, 702, 703A mounted.)		
Standard accessories		Power code, Manual(CD), User's guide		
Environment		Operation temperature / Warm up time 0°C to +40°C with 80%RH or less and no condensation / Over 60 minutes		