Basic I/O Units

CS1 Basic I/O Units

■Input Units

	Product name	e Specifications	Mountable Racks							Words required	Current consumption		
Unit type			CPU	CPU Rack C200HX/				distance SYSMAC	(I/O bits:	(A)		Model	
			CS1V	V-BC □□2	Expansion I/O Rack	CS1	W-BI □□2	Expansion Rack	BUS Slave Rack	CIO 0000 to CIO 0319)	5 V system	26 V system	
	DC Input Unit	24 VDC, 7 mA, 16 inputs	Yes	Yes	No	Yes	Yes	Yes	No	1 word	0.10		CS1W-ID211
		24 VDC, 6 mA, 32 inputs	Yes	Yes	No	Yes	Yes	Yes	No	2 words	0.15		CS1W-ID231
		24 VDC, 7 mA, 64 inputs	Yes	Yes	No	Yes	Yes	Yes	No	4 words	0.15	-	CS1W-ID261
CS1 Basic		24 VDC, approx. 5 mA, 96 inputs	Yes	Yes	No	Yes	Yes	Yes	No	6 words	0.20		CS1W-ID291
I/O Units	AC Input Unit	100 to 120 VAC, 16 inputs 100 to 120 VDC, 16 inputs	Yes	Yes	No	Yes	Yes	Yes	No	1 word	0.11		CS1W-IA111
		200 to 240 VAC, 16 inputs	Yes	Yes	No	Yes	Yes	Yes	No	1 word	0.11		CS1W-IA211

■Output Units

	Product name	Specifications		Mountable Racks						C		rent						
Unit type				CPU	Rack	C200HX/ HG/HE	CS1W-BI Expansion		CS1 Long-	SYSMAC	Words required	consumption (A)		Model				
					V-BC	Expansion I/O Rack			BUS Slave Rack	requirea	5 V	26 V						
				□□3	□□2	II O TAUGA	□□3	□□2	1.001			system	system					
	Relay Output Units	250 VAC or 120 2 A max. Independent cor 8 outputs	•	Yes	Yes	No	Yes	Yes	Yes	No	1 word	0.10	0.006 per simulta-	CS1W-OC201				
		250 VAC or 120 2 A max. 16 outputs	VDC,	Yes	Yes	No	Yes	Yes	Yes	No	1 word	0.13	neously ON outputs	CS1W-OC211				
		12 to 24 VDC, 0.5 A 16 outputs	Sinking	Yes	Yes	No	Yes	Yes	Yes	No	1 word	0.17		CS1W-OD211				
		24 VDC, 0.5 A 16 outputs	Sourcing	Yes	Yes	No	Yes	Yes	Yes	No	1 word	0.17		CS1W-OD212				
	Transistor Output Units	12 to 24 VDC, 0.5 A 32 outputs	Sinking	Yes	Yes	No	Yes	Yes	Yes	No	2 words	0.27		CS1W-OD231				
		24 VDC, 0.5 A 32 outputs	Sourcing	Yes	Yes	No	Yes	Yes	Yes	No	2 words	0.27		CS1W-OD232				
CS1 Basic		12 to 24 VDC, 0.3 A 64 outputs	Sinking	Yes	Yes	No	Yes	Yes	Yes	No	4 words	0.39		CS1W-OD261				
I/O Office		24 VDC, 0.3 A 64 outputs	Sourcing	Yes	Yes	No	Yes	Yes	Yes	No	4 words	0.39		CS1W-OD262				
		12 to 24 VDC, 0.1 A 96 outputs	Sinking	Yes	Yes	No	Yes	Yes	Yes	No	6 words	0.48		CS1W-OD291				
							12 to 24 VDC, 0.1 A 96 outputs	Sourcing	Yes	Yes	No	Yes	Yes	Yes	No	6 words	0.48	
* Product	Triac Output Units	250 VAC, 2 A m. 8 outputs	ax.	Yes	Yes	No	Yes	Yes	Yes	No	1 word	0.23 max. (0.07 + 0.02 × number of ON points)		CS1W-OA201 *				
		Commercial Contractions of the Contraction of the C	250 VAC, 0.5 A 16 outputs ilable to order.	max.	Yes	Yes	No	Yes	Yes	Yes	No	1 word	0.406 max. (0.07 + 0.021 × number of ON points)		CS1W-OA211			

^{*} Product no longer available to order.

Replacing C200H I/O Units

This section shows the corresponding CS1 I/O models and notes for replacing C200H I/O Units (no longer available to order).

16-point DC Input Units

Item	C200H I/O Unit	Corresponding CS1 I/O Unit				
Model number	C200H-ID212	CS1W-ID211				
Description	16-point DC Input Units with terminal blocks					
	The terminal arrangement mu	ust be changed.				
Notes	The impedance increases (from $3k\Omega$ to $3.3k\Omega$). Checorrect operation is possible in cases where increasimpedance may influence operation.					
	The internal 5-V current cons 10mA to 100mA). Check that within the range of the power	the increased current is				

32-point DC Input Units

Item	C200H I/O Unit	Corresponding CS1 I/O Unit				
Model number	C200H-ID218	CS1W-ID231				
Description	32-point DC Input Units with connectors. The connectors, the pin arrangement, and the input specifications are the same.					
	There are 2 commons instead necessary.	d of 1. Connect where				
Notes	The internal 5-V current cons 100mA to 150mA). Check tha within the range of the power	at the increased current is				

32-point DC Input Units (cntd.)

Item	C200H I/O Unit	Corresponding CS1 I/O Unit					
Model number	C200H-ID216	CS1W-ID231					
Description	32-point DC Input Units with connectors. The connectors and the pin arrangement are the same. The input current increases, allowing use with a wider range of devices.						
	There are 2 commons instead of 1. Connect where necessary.						
Notes	The input specifications change (e.g., the impedance decreases and the input current increases from 4.1mA to 6mA.) Check that correct operation is possible in cases where changes in input specifications may influence operation.						
	The internal 5-V current cons 100mA to 150mA). Check that within the range of the power	at the increased current is					

64-point DC Input Units

Item	C200H I/O Unit	Corresponding CS1 I/O Unit				
Model number	C200H-ID219	CS1W-ID261				
Description	64-point DC Input Units with connectors. The connectors, the pin arrangement, and the input specifications are the same.					
	There are 4 commons instead necessary.	d of 2. Connect where				
Notes	The internal 5-V current consumption increases (from 120mA to 150mA). Check that the increased current is within the range of the power supply.					

64-point DC Input Units (cntd.)

Item	C200H I/O Unit	Corresponding CS1 I/O Unit				
Model number	C200H-ID217	CS1W-ID261				
Description	64-point DC Input Units with connectors. The connectors and the pin arrangement are the same. The input current increases, allowing use with a wider range of devices.					
	There are 4 commons instead necessary.	d of 2. Connect where				
Notes	The input specifications chan decreases and the input curre 6mA.) Check that correct ope where changes in input specioperation.	ent increases from 4.1mA to ration is possible in cases				
	The internal 5-V current cons 100mA to 150mA). Check tha within the range of the power	at the increased current is				

16-point Sinking Transistor Output Units

Item	C200H I/O Unit	Corresponding CS1 I/O Unit				
Model number	C200H-OD212	CS1W-OD211				
Description	16-point Transistor Output (sinking) Units with terminal blocks. The output current capacity increases (from 0.3A per point and 4.8A per Unit to 0.5A per point and 8A per Unit). The rated voltage range also increases (from 24V to any voltage in the range 12 to 24V.)					
	The terminal arrangement must be changed.					
Notes	The output specifications change. Check that correct operation is possible in cases where changes in output specifications may influence operation. (Residual voltage increases from 0.8V to 1.5V, ON response time increases from 0.1ms to 0.5ms, OFF response time increases from 0.3ms to 1ms.)					