

Programmable Controller C200H-series

Replacement Guide From C200H to CJ2

C200H-CPU0

C200H-CPU2

CJ2H-CPU6

CJ2M-CPU1□

CJ2M-CPU3□

Replace Guide About this document This document provides the reference information for replacing C200H PLC systems with CS1 series PLC. This document does not include precautions and reminders ;please read and understand the important precautions and reminders described on the manuals of PLCs (both of PLC used in the existing system and PLC you will use to replace the existing PLC) before attempting to start operation.

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Related Manuals

CPU Units

Man.No.	Model	Manual
W472	CJ2H-CPU6□-EIP	CJ2 CPU Unit Hardware USER'S MANUAL
	CJ2H-CPU6□	
	CJ2-CPU□□	
W473	CJ2H-CPU6□-EIP	CJ2 CPU Unit Software USER'S MANUAL
	CJ2H-CPU6□	
	CJ2M-CPU□□	
W486	CJ2M-CPU +CH2M-MD21	CJ2M Pulse I/O Module USER'S MANUAL
W474	CS1G/H-CPU□□H	CS/CJ/NSJ Series INSTRUCTIONS REFERENCE MANUAL
	CS1G/H-CPU□□-V1	
	CS1D-CPU□□H	
	CS1D-CPU□□S	
	CJ1H-CPU□□H-R	
	CJ1G/H-CPU□□H	
	CJ1G-CPU□□P	
	CJ1M/G-CPU□□	
	NSJ(B)	
W342	CS1G/H-CPU□□H	CS/CJ/CP/NSJ Series Communications Commands REFERENCE MANUAL
	CS1G/H-CPU□□-V1	
	CS1D-CPU□□H	
	CS1D-CPU□□S	
	CS1W-SCU□□-V1	
	CS1W-SCB□□-V1	
	CJ1H-CPU□□H-R	
	CJ1G/H-CPU□□H	
	CJ1G-CPU□□P	
	CJ1M/G-CPU□□	
	CJ1W-SCU□□-V1	
	CP1H-X0000-0	
	CP1H-XA	
	CP1H-Y0000-0	
	NSJ0-000(B)-000	
W341	CQM1H-PRO01	CS/CJ Series Programming Consoles OPERATION MANUAL
	CQM1-PRO01	
	C200H-PRO27	
	CS1W-KS001	
W302	C200HX/HG/HE	SYSMAC α INSTALLATION GUIDE
	-CPUnn/CPUnn-Z	
W303	C200HX/HG/HE	SYSMAC α OPERATION MANUAL
W322	C200HX-CPU -ZE	SYSMAC $lpha$ OPERATION MANUAL
	C200HG-CPU□□-ZE	
	C200HE-CPU -ZE	

Special I/O Units

Man.No.	Model	Manual
W368	CS1W-PTS□□	CS/CJ Series Analog I/O Units OPERATION MANUAL
	CS1W-PTW□□	
	CS1W-PDC□□	
	CS1W-PTR□□	
	CS1W-PPS□□	
	CS1W-PMV□□	
	CJ1W-PTS□□	
	CJ1W-PDC□□	
	CJ1W-PH41U	
W345	CS1W-AD0□□-V1/-AD161	CS/CJ Series Analog I/O Units OPERATION MANUAL
	CS1W-DA0□□	
	CS1W-MAD44	
	CJ1W-AD0□□-V1/-AD042	
	CJ1W-DA0□□/-DA042V	
	CJ1W-MAD42	
W396	CJ1W-TC _{□□□}	CJ Series Temperature Control Units OPERATION MANUAL
W401	CJ1W-CT021	CJ Series High-speed Counter Units OPERATION MANUAL
W397	CJ1W-NC□□3	CJ Series Position Control Units OPERATION MANUAL
W477	CJ1W-NC□□4	CJ Series Position Control Units OPERATION MANUAL
W426	CS1W-NC□71	CS/CJ Series Position Control Units OPERATION MANUAL
	CJ1W-NC□71(-MA)	
W435	CS1W-MCH71	CS/CJ series Motion Control Units OPERATION MANUAL
	CJ1W-MCH71	
W336	CS1W-SCB□□-V1	CS/CJ Series Serial Communications Boards Serial Communications Units
	CS1W-SCU□□-V1	OPERATION MANUAL
	CJ1W-SCU□□-V1	
W440	CS1W-FLN22	CS/CJ Series FL-net Units OPERATION MANUAL
	CJ1W-FLN22(100BASE-TX)	
V236	CS1W-SPU01	CS/CJ Series SPU Units OPERATION MANUAL
	CS1W-SPU02-V2	
	CJ1W-SPU01-V2	
V237	WS02-SPTC1-V2	SPU-Console OPERATION MANUAL
W124	C200H-TS001/002/101/102	C200H Temperature Sensor Units OPERATION MANUAL
W127	C200H-AD001/DA001	C200H Analog I/O Units OPERATION GUIDE
W325	C200H-AD003	C200H Analog I/O Units OPERATION MANUAL
	C200H-DA003/DA004	
	C200H-MAD01	
W225	C200H-TC001/002/003	C200H Temperature Control Units OPERATION MANUAL
	C200H-TC101/102/103	
W240	C200H-TV001/002/003	C200H Heat/Cool Temperature Control Units OPERATION MANUAL
	C200H-TV101/102/103	·
W241	C200H-PID01/02/03	C200H PID Control Unit OPERATION MANUAL
W141	C200H-CT001-V1/CT002	C200H High-speed Counter Units OPERATION MANUAL
W311	C200H-CT021	C200H High-speed Counter Units OPERATION MANUAL
W224	C200H-CP114	C200H Cam Positioner Units OPERATION MANUAL
W334	C200HW-NC113/213/413	C200HW Position Control Units OPERATION MANUAL
W137	C200H-NC111	C200H Position Control Units OPERATION MANUAL
W128	C200H-NC112	C200H Position Control Units OPERATION MANUAL
W166	C200H-NC211	C200H Position Control Units OPERATION MANUAL
W314	C200H-MC221	C200H Motion Control Units OPERATION MANUAL:INTRODUCTION
W315	C200H-MC221	C200H Motion Control Units OPERATION MANUAL: INTRODUCTION C200H Motion Control Units OPERATION MANUAL: DETAILS
W165	C200H-ASC02	C200H ASCII Units OPERATION MANUAL
W306	C200H-ASC02	C200H ASCII Units OPERATION MANUAL C200H ASCII Units OPERATION MANUAL
W257	CVM1-PRS71	CVM1-PRS71 Teaching Box OPERATION MANUAL
W304	C200HW-COM01	C200HW Communication Boards OPERATION MANUAL
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Network Communications Units

Man.No.	Model	Manual
W309	CS1W-CLK23	Controller Link Units OPERATION MANUAL
	CS1W-CLK21-V1	
	CJ1W-CLK23	
	CJ1W-CLK21-V1	
	C200HW-CLK21	
	CVM1-CLK21	
	CQM1H-CLK21	
	CS1W-RPT0□	
W370	CS1W-CLK13	Optical Ring Controller Link Units OPERATION MANUAL
VV370	CS1W-CLK13	Optical King Controller Link Onlis OF ERATION MANOAL
	CVM1-CLK12(H-PCF Cable)	
	CS1W-CLK53	
	CS1W-CLK52-V1	
14/40=	CVM1-CLK52(GI Cable)	
W465	CS1W-EIP21	CS/CJ Series EtherNet/IP Units OPERATION MANUAL
	CJ1W-EIP21	
	CJ2H-CPU6□-EIP	
	CJ2M-CPU3□	
W420	CS1W-ETN21	CS/CJ Series Ethernet Units OPERATION MANUAL Construction of Networks
	CJ1W-ETN21 (100Base-TX)	
W421	CS1W-ETN21	CS/CJ Series Ethernet Units OPERATION MANUAL Construction of Applications
	CJ1W-ETN21(100Base-TX)	
W456	CS1W-CRM21	CS/CJ Series CompoNet Master Units OPERATION MANUAL
	CJ1W-CRM21	
W457	CRT1	CRT1 Series CompoNet Slave Units and Repeater Unit OPERATION MANUAL
W380	CS1W-DRM21-V1	CS/CJ Series DeviceNet Units OPERATION MANUAL
	CJ1W-DRM21	
W267	CS1W/CJ1W/C200HW	DeviceNet OPERATION MANUAL
11201	DRT1/DRT2	BONION OF ENVIRONE
	GT1	
	CVM1	
W266	C200HW-SRM21-V1	CompoBus/S OPERATION MANUAL
W200	CS1W-SRM21	Composition Wandar
	CJ1W-SRM21	
	CQM1-SRM21-V1	
14/400	SRT1/SRT2	D. I. D. I. D. O. K. I.D. I. I.O. OVOTEMMANUM
W136	C500-RM001-(P)V1	C series Rack PCs Optical Remote I/O SYSTEM MANUAL
	C120-RM001(-P)	
	C500-RT001/RT002-(P)V1	
	C500/C120-LK010(-P)	
	C200H-RM001-PV1	
	C200H-RT001/002-P	
	B500-I/O	
W308	C200HW-ZW3DV2/ZW3PC2	Controller Link Support Software OPERATION MANUAL
	3G8F5-CLK11/21	
	3G8F6-CLK21	
W120	C500-RM201/RT201	C series Rack PCs Wired Remote I/O SYSTEM MANUAL
	C200H-RM201/RT201/202	
	G71-IC16/OD16	
	G72C-ID16/OD16	
	S32-RS1	
W379	CVM1-DRM21-V1	DeviceNet Master Units OPERATION MANUAL
-	C200HW-DRM21-V1	
W347	C200HW-DRT21	DeviceNet Slaves OPERATION MANUAL
	CQM1-DRT21	
	DRT1	
W135	C200H-LK401	C Series PC Link SYSTEM MANUAL
VV 133	C500-LK009-V1	O GOLGE F O LITE OF OT LIVE IVIANOAL
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Support Software

Man.No.	Model	Manual
W463	CXONE-AL□□C-V4	CX-One FA Integrated Tool Package SETUP MANUAL
W446	CXONE-AL□□D-V4	CX-Programmer OPERATION MANUAL
W447		CX-Programmer OPERATION MANUAL : Function Blocks/Structured Text
W366		CX-Simulator OPERATION MANUAL
W464		CX-Integrator OPERATION MANUAL
W344		CX-Protocol OPERATION MANUAL
W433		CX-Position OPERATION MANUAL
W436		CX-Motion-NCF OPERATION MANUAL
W448		CX-Motion-MCH OPERATION MANUAL

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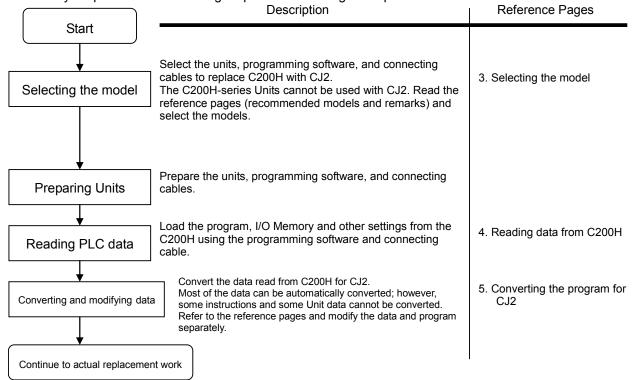
C200H Replacement Guide From C200H to CJ2

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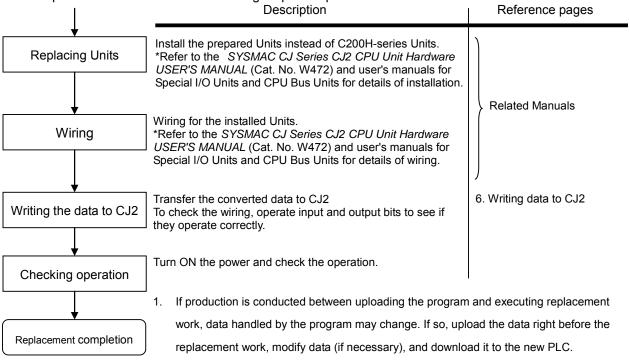
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1. Work flow

1) Preliminary Steps: Take the following steps before starting the replacement work.



2) Actual replacement work: Take the following steps to replace C200H with CJ2.



so, it is necessary to adjust cycle time in the PLC Setup.

The cycle time of C200H and CJ2 are different, which may affect system operation. If

2. Selecting the replacement method

When C200H-series Basic I/O Units are replaced with CJ-series Basic I/O Units, rewiring is required. When C200H-ID215 and C200H-OD215 C200H High-density I/O Units are replaced with CJ-series I/O Units, the same connecting cables that were connected to C200H High-density I/O Units can be used.

Replacement method	Description	
Using Conversion Cables for C200H High-density I/O Units	Replace C200H-ID215 with CJ1W-ID231, and connect CJ1W-ID231 using the same connecting cables used for C200H-ID215. In the same way, replace C200H-OD215 with CJ1W-OD231, and connect CJ1W-OD231 using the same cable used for C200H-OD215. Pros: Rewiring of I/O Units is not required, which reduces replacement time.	CJ1W-ID231 Conversion Cable XW2Z-S010 Cable XW2Z-S011 Connecting cable that was connected to C200H-ID215 (reuse) CJ1W-ID231 Conversion Cable XW2Z-S010 Connecting cable that was connected to C200H-ID215 (reuse)

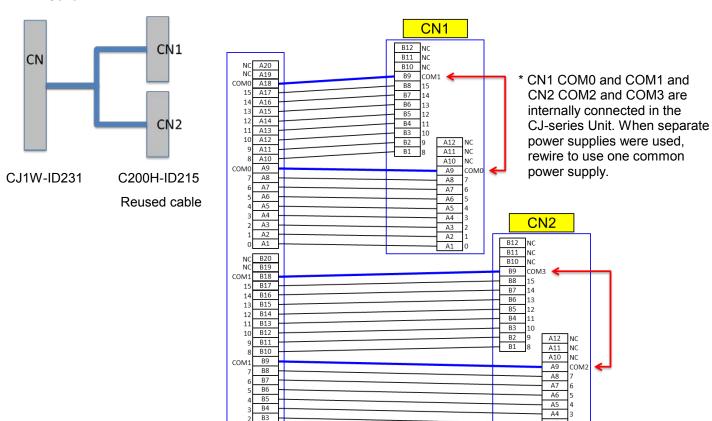
Replacement of C200H-ID215 and C200H-OD215 using Conversion Cables

The same connecting cables that were connected to C200H-ID215 and C200H-OD215 can be used to replace them with CJ1W-ID231 and CJ1W-OD231.

C200H-series Unit	CJ-series Unit	Conversion Cable
C200H-ID215	CJ1W-ID231	XW2Z-S010
C200H-OD215	CJ1W-OD231	XW2Z-S011

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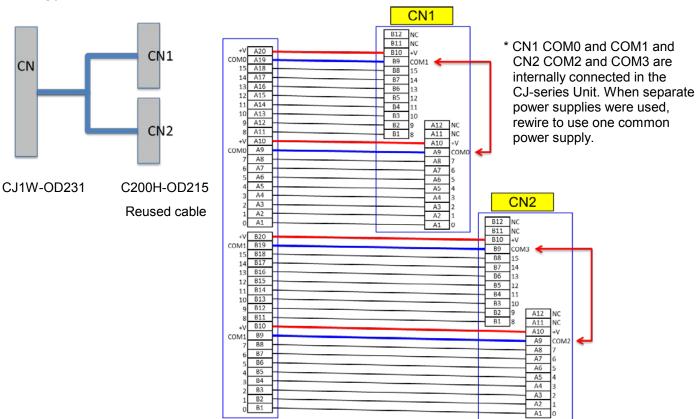
XW2Z-S010



	C200H-ID215	CJ1W-ID231	Remarks
Rated input voltage	24 VDC	24 VDC	
Operating input voltage	20.4 to 26.4 VDC	20.4 to 26.4 VDC	
Input impedance	5.6 kΩ	5.6 kΩ	Make sure that the connected device operates correctly.
Input current	4.1 mA typical (at 24 VDC)	14 MA IVNICALIAL 24 VIJUA	Make sure that the connected device operates correctly.
ON voltage	14.4 VDC min.	19 VDC min.	Make sure that the connected device operates correctly.
OFF voltage	5 VDC max.	5 VDC max.	
ON response time	2.5 ms max./15 ms max. (switchable)	8 ms max. (switchable)	Can be set to between 0 and 32 ms in the PLC Setup.
OFF response time	2.5 ms max./15 ms max. (switchable)	8 ms max. (switchable)	Can be set to between 0 and 32 ms in the PLC Setup.
No. of circuits	8 points/common x 4 circuits (32 inputs)	16 points/common x 2 circuits (32 inputs)	The number of circuits decreased from 4 to 2. Rewire if separate power supplies are used.
High-speed inputs	8 points (when pin 2 of the DIP switch is ON)	Not supported	Use CJ1W-IDP01 for high-speed inputs.

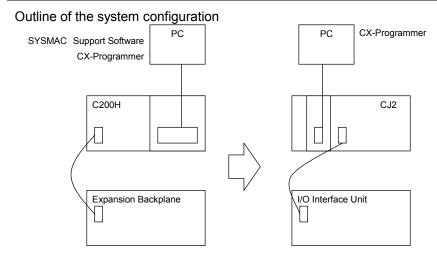
A3 A2

XW2Z-S011



	C200H-OD215	CJ1W-OD231	Remarks
Rated voltage	5 to 24 VDC	12 to 24 VDC	We recommend you to use 24 VDC instead if 5 VDC is used.
Max. switching capacity	16 mA/4.5 VDC to 100 mA/26.4 VDC 0.8 A/common, 3.2 A/Unit	0.5 A/point, 2 A/common, 4 A/Unit	
Leakage current	0.1 mA max.	0.1 mA max.	
Residual voltage	0.7 V max.	ii 5 V max	Make sure that the connected device operates correctly.
ON response time	0.2 ms max.	0.1 ms max.	Make sure that the connected device operates correctly.
OFF response time	0.6 ms max.	IO A IOS IOAX	Make sure that the connected device operates correctly.
No. of circuits	8 points/common x 4 circuits (32 outputs)	16 points/common x 2 circuits (32 outputs)	The number of circuits decreased from 4 to 2. Rewire if separate power supplies are used.
Fuses	4 (1 fuse/common)	None	When protection is required, connect a protective device externally.
External power supply	5 to 24 VDC±10%, 90 mA min. 2.8 mA x no. of ON outputs	10.2 to 26.4 VDC, 30 mA min.	
Dynamic outputs	30 mA min.	Not supported	Dynamic outputs are not supported.

3. Selecting the model



The table below lists the C200H-series Units and each corresponding CJ-series Unit. Select the CJ-series Unit which is compatible with the C200H-series Unit or which has similar specifications to the C200H-series Unit. Refer to the CJ2H-CPU6¬-EIP/CJ2H-CPU6¬/CJ2M-CPU¬ SYSMAC CJ Series CJ2 CPU Unit Hardware USER'S MANUAL (Cat. No. W472) for details of the Units.

< CPU Rack >

Unit name	C200H-series Unit	CJ-series Unit	Description
CPU Unit	C200H-CPU01 C200H-CPU02 C200H-CPU03 C200H-CPU21 C200H-CPU22 C200H-CPU23	[CJ2H] CJ2H-CPU64(-EIP) CJ2H-CPU65(-EIP) CJ2H-CPU66(-EIP) CJ2H-CPU67(-EIP) CJ2H-CPU68(-EIP) [CJ2M] CJ2M-CPU11/CPU31 CJ2M-CPU12/CPU32 CJ2M-CPU13/CPU33 CJ2M-CPU14/CPU34 CJ2M-CPU15/CPU35	UM 50K steps UM 100K steps UM 150K steps UM 250K steps UM 250K steps UM 400K steps *The EIP models have one built-in EtherNet/IP port. UM 5K steps UM 10K steps UM 20K steps UM 20K steps UM 30K steps UM 60K steps *The CPU3□ models have one built-in EtherNet/IP port.
CPU Unit-mounting	C120-LK201 (RS-232C)	Serial port (RS-232C) built	*To replace C120-LK202, use NT-AL001 to
Host Link Unit	C120-LK202 (RS-422)*	in the CPU Unit.	convert RS-232C into RS-422.
Power Supply Unit	(For C200H-CPU01/02/21/22)	CJ1W-PA202 (AC Power Supply Unit) CJ1W-PA205C (AC Power Supply Unit) CJ1W-PA205R (AC Power Supply Unit)	To use RUN output, prepare an Output Unit separately. With replacement notification function. With RUN output.
	(For C200H-CPCPU03/23)	CJ1W-PD022 (DC Power Supply Unit, non-insulated type) CJ1W-PD025 (DC Power Supply Unit)	To use RUN output, prepare an Output Unit separately. To use RUN output, prepare an Output Unit separately.
CPU Backplane	C200H-BC031(-□□) C200H-BC051(-□□) C200H-BC081(-□□) C200H-BC101(-□□)	Unnecessary [DIN Track] PFP-50N PFP-100N PFP-100N2	CJ-series Units are installed on the DIN Track. The CPU Backplane is not required.
I/O Control Unit	Unnecessary	CJ1W-IC101	Required to connect a CJ-series Expansion Rack to a CJ-series CPU Rack.

< Memory Cassettes >

Unit name	C200H-series Unit	CJ-series Unit	Description
Memory Unit	RAM Unit C200H-MR431 (Battery type) C200H-MR432 (Capacitor type) C200H-MR831 (Battery type) C200H-MR832 (Capacitor type) C200H-MR433 (Battery type, with clock function) C200H-MR833 (Battery type, with clock function)	None	The CJ2-series CPU Unit has a nonvolatile memory for user program in it. The Memory Unit is not required. It also has the clock function.
	EEPROM Unit C200H-ME431 C200H-ME432 (with clock function) C200H-ME831 C200H-ME832 (with clock function)	None	The CJ2-series CPU Unit has a nonvolatile memory for user program in it. The Memory Unit is not required. It also has the clock function. The program file and the parameters are stored in the memory card. It is possible to execute operation by reading them when the PLC is turned ON. (Automatic File Transfer at Startup)
	EPROM Unit C200H-MP831	None	The CJ2-series CPU Unit has a nonvolatile memory for user program in it. The Memory Unit is not required. It also has the clock function. The program file and the parameters are stored in the memory card. It is possible to execute operation by reading them when the PLC is turned ON. (Automatic File Transfer at Startup)

< Expansion Rack >

Unit name	C200H-series Unit	CJ-series Unit	Description
Power Supply Unit	C200H-PS221	CJ1W-PA202	
		(AC Power Supply Unit)	
		CJ1W-PA205C	With replacement notification function.
		(AC Power Supply Unit)	
		CJ1W-PA205R	The RUN output does not operate.
		(AC Power Supply Unit)	
	C200H-PS211	CJ1W-PD022	
		(DC Power Supply Unit,	
		non-insulated type)	
		CJ1W-PD025	
		(DC Power Supply Unit)	
Backplane	C200H-BC031(-□□)	Unnecessary	CJ-series Units are installed on the DIN
(Expansion Backplane)	C200H-BC051(-□□)		Track. The Backplane is not required.
	C200H-BC081(-□□)	[DIN Track]	
	C200H-BC101(-□□)	PFP-50N	
		PFP-100N	
		PFP-100N2	
I/O Interface Unit	Unnecessary	CJ1W-II101	Required for each CJ-series Expansion
			Rack.
I/O Connecting Cable	C200H-CN311 (0.3 m)	CS1W-CN313 (0.3 m)	Connects an I/O Control Unit to an I/O
	C200H-CN711 (0.7 m)	CS1W-CN713 (0.7 m)	Interface Unit or connects an I/O Interface
	C200H-CN221 (2 m)	CS1W-CN223 (2 m)	Unit to another I/O Interface Unit.
	C200H-CN521 (5 m)	CS1W-CN323 (3 m)	
	C200H-CN131 (10 m)	CS1W-CN523 (5 m)	
		CS1W-CN133 (10 m)	
ĺ		CS1W-CN133-B2 (12 m)	

< I/O Units and CPU Bus Units>

Unit name	C200H-series Unit	CJ-series Unit	Description
Basic I/O Unit	C200H-I	CJ1W-I	Refer to Appendix E. Table of Input/Output
	C200H-O	CJ1W-O	Units for CJ-series Basic I/O Units
	C200H-M _{□□□}	CJ1W-M _{□□□}	corresponding to C200H-series Basic I/O Units.
Special I/O Unit	C200H-0000	CJ1W-0000	Select a required model to replace the C200H-series Unit. Refer to the manuals of Special I/O Units for specifications. When there is no CJ-series Special I/O Unit which has the same functions and specifications as the C200H-series Unit, we recommend you to use another CJ-series Special I/O Unit instead.
Communication Unit	[SYSMAC LINK] Coaxial: C200H-SLK21-V1 C200HS-SLK22 C200HW-SLK23/24 Optical: C200H-SLK11 C200HS-SLK12 C200HS-SLK12	[SYSMAC LINK] None [Controller Link] Wired: CJ1W-CLK23 Optical: None	SYSMAC LINK cannot be used with the CJ2-series CPU Unit. We recommend you to use Controller Link instead. Refer to the Controller Link Units Operation Manual (Cat. No. W309) for details.
	[SYSMAC NET] C200H-SNT31 C200HS-SNT32	[SYSMAC NET] None [Controller Link] Wired: CJ1W-CLK23. Optical: None	SYSMAC NET cannot be used with the CJ2-series CPU Unit. We recommend you to use Controller Link instead. Refer to the Controller Link Units Operation Manual (Cat. No. W309) for details.
	[Host Link]	[Serial Communications]	C200H-series Host Link Units cannot be used with the CJ2-series CPU Unit. Refer to the SYSMAC CS/CJ Series Serial Communications Boards/Units OPERATION MANUAL (Cat. No. W336) for details.
	C200H-LK101-PV1	None	The CJ Series does not have an Optical-type
			Serial Communications Board/Unit. Use the
		CJ1W-SCU21-V1 (+ optical link module)	wired type instead or use an external optical link module.
	C200H-LK201-V1	CJ1W-SCU21-V1 CJ1W-SCU41-V1 Host Link port built in the CPU Unit *For CJ2M-CPU3□, CP1W-CIF01 is required.	Use one of the left CJ-series Units/Boards *CJ2M-CPU3□ does not have a built-in Host Link port. Purchase the CP1W-CIF01 RS-232C Option Board.
	C200H-LK202-V1	CJ1W-SCU31-V1 CJ1W-SCU41-V1	Use one of the left CJ-series Units/Boards.
	[PC Link] C200H-LK401	[PC Link] None [Controller Link]	PC Link cannot be used with the CJ2-series CPU Unit. We recommend you to use Controller Link instead.
		Wired: CJ1W-CLK23. Optical: None	Refer to the <i>Controller Link Units Operation Manual</i> (Cat. No. W309) for details.
	[SYSMAC BUS] Wired: C200H-RM201 Optical: C200H-RM001-PV1	[SYSMAC BUS] None [CompoNet] CJ1W-CRM21 [DeviceNet] CJ1W-DRM21 [CompoBus/S] CJ1W-SRM21	SYSMAC BUS cannot be used with the CJ2-series CPU Unit. We recommend you to use left networks instead. Refer to the CS/CJ series CompoNet Master Units OPERATION MANUAL (Cat. No. W456) and CompoNet Slave Units and Repeater Unit OPERATION MANUAL (Cat. No. W457) for details of CompoNet. Refer to the CS1W-DRM21(-V1),CJ1W-DRM21 CS/CJ SERIES DeviceNet UNITS OPERATION MANUAL (Cat. No. W380) for details of DeviceNet. Refer to the
			C200HW/CS1W/CJ1W/CQM1/SRT1/SRT2 CompoBus/S OPERATION MANUAL (Cat. No. W266) for details of CompoBus/S.

< Support Software and Peripheral Devices >

Name	C200H-series Unit	CJ-series Unit	Description
Support Software	SYSMAC Support Software CX-Programmer	CX-One CXONE-AL□□C-V□/ AL□□D-V□ (CX-Programmer)	SYSMAC Support Software cannot be used with the CJ2-series CPU Unit.
Peripheral Interface Unit, Connecting Cable	C200H-IP007	Commercially available USB cable	USB 2.0 (or 1.1) cable (A connector – B connector) 5.0 m max
Programming Console	C120-PRO15 C120-PRO25	None	Use the CX-Programmer or Programming Console function of the NS-series Programmable Terminal.
PROM Writer	C500-PRW06	None	EPROM cannot be used with the CJ2-series CPU Unit. Save the data using a PC (CX-Programmer).
Floppy disk interface	C500-FD103	None	Save the data using a PC (CX-Programmer).
Printer interface unit	C500-PRT01 C2000-MP103-V□	None	Print the data using a PC (CX-Programmer).

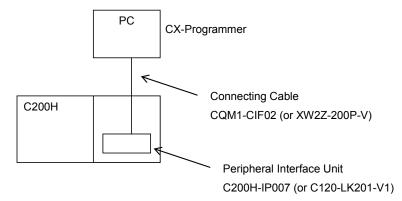
Other remarks

- (1) The CJ2-series CPU Unit is separated from the Power Supply Unit although the C200H-series CPU Unit is combined with the Power Supply Unit.
- (2) The PFP-50N/100N/100N2 DIN Track and C200H-DIN01 Mounting Bracket can be used to install the CJ-series Units on the DIN Track.
- (3) The CJ-series Unit has an installation structure to be insulated from the control panel (DIN Track). The C200H-ATT31/51/81/A1 Insulation Plate for CPU Backplane is not required.

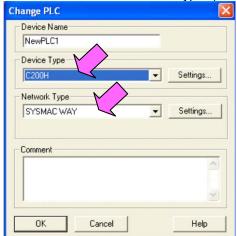
4. Reading data from C200H

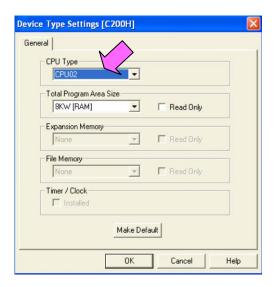
Load the ladder program and Data Memory from C200H using the CX-Programmer.

Required items	Support Software	CX-One	
·	(PC)	(CXONE-AL == C-V=, CXONE-AL == D-V=)	
		or	
		CX-Programmer (WS02-CXPC□-V□)	
	Peripheral Interface Unit and	C200H-IP007 and CQM1-CIF02	
	Connecting Cable	or	
		C120-LK201-V1 and XW2Z-200P-V	



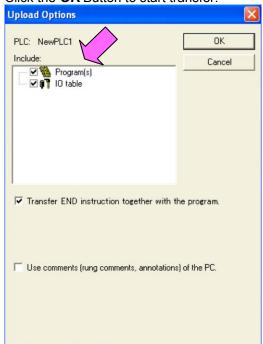
- (1) Mount the Peripheral Interface Unit to C200H and connect it with a PC.
- (2) Start up the CX-Programmer. (Select *All Program OMRON CX-One CX-Programmer CX-Programmer* from the Windows Start Menu.)
- (3) Select C200H for the Device Type. (Select *New* from the File Menu to display the below dialog box.)





- (4) Select Work Online from the PLC Menu to go online.
- (5) Transfer the ladder program and I/O table. (Select *Transfer From PLC* from the PLC Menu.)

Click the **OK** Button to start transfer.



(6) <u>Transfer the PLC memory data (Data Memory)</u>. (Select *Edit - Memory* from the PLC Menu.)



Scroll and select all the areas. Click the *Transfer from PLC* Button to start transfer.

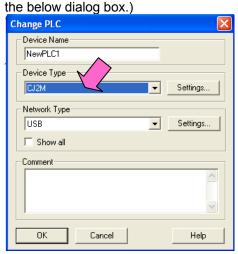


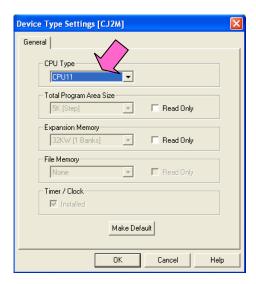
- (7) Select Work Online from the PLC Menu to go offline.
- (8) Save the program with a new project name. (Select **Save As** from the File Menu.)

5. Converting the program for CJ2

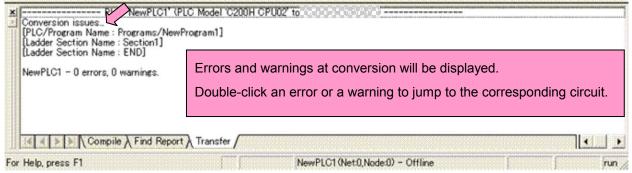
On the CX-Programmer, convert the program for CJ2.

- (1) Start the CX-Programmer and open the saved program file for C200H. (Select *Open* from the File Menu.)
- (2) Change the Device Type from C200H to CJ2M or CJ2H. (Select *Change Model* from the PLC Menu to display





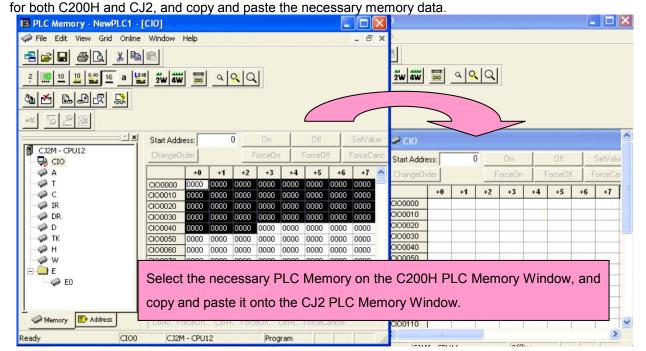
(3) The instructions are automatically converted. The Output Window shows the conversion results. Double-click an error shown on the Output Window to jump to the corresponding section of the ladder program.



Some instructions cannot be converted. Modify the ladder program by referring to *Appendix A. Instructions* converted by Change Model on CX-Programmer.

You can check the program by selecting *Compile* from the Program Menu. The Output Window shows the checking results.

(4) The PLC memory data cannot be maintained when the PLC model is changed. Open the PLC Memory Window

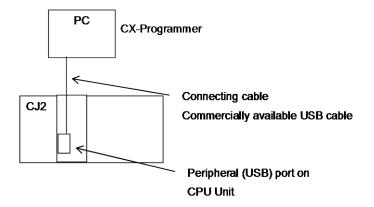


- (5) The I/O allocation of C200H is partly different from that of CJ2. Refer to *Appendix B. Change of unit area allocation* and modify the ladder program.
- (6) The PLC settings of C200H are partly different from those of CJ2. Refer to *Appendix C. Change in PLC settings* and change the PLC settings.
- (7) Select Compile from the Program Menu to check the program. If an error is detected, correct it.
- (8) Save the program with a new project name. (Select Save As from the File Menu.)

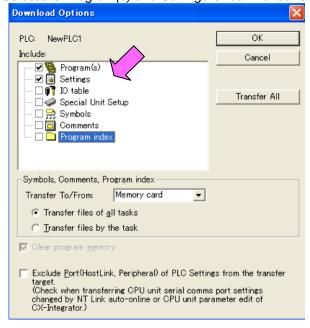
6. Writing data to CJ2

Transfer the converted and modified program, PLC settings, and Data Memory to CJ2.

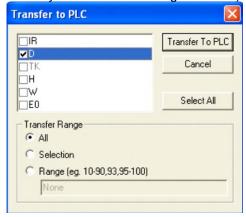
Transfer the converted and modified program, i to settings, and bata memory to cot.			
Required items	Support Software	CX-One	
	(PC)	CXONE-ALooC-Vo/ ALooD-Vo	
		(CX-Programmer)	
	Connecting cable	Commercially available USB cable	
		USB 2.0 (or 1.1) cable	
		(A connector – B connector) 5.0 m max.	



- (1) Connect CJ2 with a PC.
- (2) Start the CX-Programmer and open the converted program file for CJ2.
- (3) Go online with CJ2.
- (4) Transfer the ladder program and PLC settings to CJ2. (Select *Transfer To PLC* from the PLC Menu.) Select the *Program*(s) and *Settings* Check Boxes. Click the *OK* Button to start transfer.



(5) Select *Edit - Memory* from the PLC Menu to display the below dialog box. Select the PLC memory (Data Memory Area: D and Holding Area: HR) and click the *Transfer to PLC* Button to start transfer.



(6) Select Work Online from the PLC Menu to go offline.

7. Appendix

Appendix A. Instructions converted by Change Model on CX-Programmer

- (1) The data type of operand is changed from BCD to binary for some instructions.
- (2) The number of operands is changed for some instructions.
- (3) Interrupt control instructions must be changed. (Use MSKS, MSKR, CLI, DI, and EI).

Refer to the list below for details. The table lists the instructions which differ between before and after conversion. The other instructions remain unchanged after conversion.

Instruction for C200H	Instruction for CJ2	Operand	Number of operands
JMP(04)	JMP(004) or	When #0 is set to the operand, JMP is converted to	#0: Changed from 1 to 0
····· (• ·)	JMP0(515)	JMP0 and the operand is deleted.	<> #0: Same
	()	If a value other than #0 is set, the operand is the same.	
JME(05)	JME(005) or	When #0 is set to the operand, JME is converted to	#0: Changed from 1 to 0
()	JME0(516)	JME0 and the operand is deleted.	<> #0: Same
		If a value other than #0 is set, the operand is the same.	
WSFT(16)	Same as C200H	#0 is added to the first operand.	Changed from 2 to 3
- (- /		WSFT St E → WSFT #0 St E	
FUN17	ASFT(017)	Same as C200H	Same
XFER(70)	XFERC(565)	Same as C200H	Same
MOVB(82)	MOVBC(568)	Same as C200H	Same
DIST(80)	DISTC(566)	Same as C200H	Same
COLL(81)		Same as C200H	Same
FUN60	COLLC(567)	Same as C200H	
	CMPL(060)		Same
FUN19	MCMP(019)	Same as C200H	Same
FUN63	LINE(063)	Changed from BCD data to binary data.	Same
FUN64	COLM(064)	Changed from BCD data to binary data.	Same
FUN65	SEC(065)	Same as C200H	Same
FUN66	HMS(066)	Same as C200H	Same
INC(38)	++B(594)	Same as C200H	Same
DEC(39)	B(596)	Same as C200H	Same
ADD(30)	+B(404)	Same as C200H	Same
ADDL(54)	+BL(405)	Same as C200H	Same
SUB(31)	-B(414)	Same as C200H	Same
SUBL(55)	-BL(415)	Same as C200H	Same
MUL(32)	*B(424)	Same as C200H	Same
MULL(56)	*BL(425)	Same as C200H	Same
DIV(33)	/B(434)	Same as C200H	Same
DIVL(57)	/BL(435)	Same as C200H	Same
		Same as C200H	
ADB(50)	+(400)		Same
SBB(51)	-(410)	Same as C200H	Same
MLB(52)	*(420)	Same as C200H	Same
DVB(53)	/(430)	Same as C200H	Same
FUN69	APR(069)	Same as C200H	Same
FUN89	Not supported	Combine and use the following instructions: MSKS(69 DI(693), EI(694)	0), CLI(691), MSKR(692),
STEP(08)	Same as C200H	The CIO, Holding, Work, Auxiliary, Link Areas are all	Same
3167(00)	Same as G20011	converted into the Work Area.	Jame
SNXT(09)	Same as C200H	Same as C200H	Same
0147(1(00)	Use a differentiated	Came as 020011	Game
	execution		
	condition for the		
	SNXT instruction.		
FAL(06)	Same as C200H	#0 is added to the second operand.	Changed from 1 to 2.
. , _(\\\\)	Junio 43 020011	FAL N → FAL N #0	Changea nom 1 to 2.
FALS(07)	Same as C200H	#0 is added to the second operand.	Changed from 1 to 2.
17120(01)	Came as 020011	FALS N → FALS N #0	Changed Holli 1 to 2.
MSG(46)	MSG(046)	#0 is added to the first operand.	Changed from 1 to 2.
10133(40)	W3G(040)	MSG FM → MSG #0 M	Changed Holli 1 to 2.
			1
		The number of characters (words) to be registered from	
		The number of characters (words) to be registered from the first message word is changed from 16 characters (8	
FUN47	Not supported	The number of characters (words) to be registered from the first message word is changed from 16 characters (8 words) to 32 characters (16 words).	_
FUN47 FUN67	Not supported	The number of characters (words) to be registered from the first message word is changed from 16 characters (8 words) to 32 characters (16 words). Use MSG(046) instead.	Same
FUN67	BCNTC(621)	The number of characters (words) to be registered from the first message word is changed from 16 characters (8 words) to 32 characters (16 words). Use MSG(046) instead. Same as C200H	Same
FUN67 WDT(94)	BCNTC(621) WDT(094)	The number of characters (words) to be registered from the first message word is changed from 16 characters (8 words) to 32 characters (16 words). Use MSG(046) instead. Same as C200H Control data configuration is changed.	Same Same
FUN67 WDT(94) FUN61	BCNTC(621) WDT(094) Not supported	The number of characters (words) to be registered from the first message word is changed from 16 characters (8 words) to 32 characters (16 words). Use MSG(046) instead. Same as C200H Control data configuration is changed. Use IORF (097) instead.	
FUN67 WDT(94) FUN61 FUN18	BCNTC(621) WDT(094) Not supported Enter the settings in	The number of characters (words) to be registered from the first message word is changed from 16 characters (8 words) to 32 characters (16 words). Use MSG(046) instead. Same as C200H Control data configuration is changed. Use IORF (097) instead. the PLC Setup.	Same
FUN67 WDT(94) FUN61 FUN18 FUN48	BCNTC(621) WDT(094) Not supported Enter the settings in Not supported	The number of characters (words) to be registered from the first message word is changed from 16 characters (8 words) to 32 characters (16 words). Use MSG(046) instead. Same as C200H Control data configuration is changed. Use IORF (097) instead. the PLC Setup.	
FUN67 WDT(94) FUN61 FUN18 FUN48 FUN49	BCNTC(621) WDT(094) Not supported Enter the settings in Not supported Enter the settings in	The number of characters (words) to be registered from the first message word is changed from 16 characters (8 words) to 32 characters (16 words). Use MSG(046) instead. Same as C200H Control data configuration is changed. Use IORF (097) instead. the PLC Setup. — the PLC Setup.	Same —
FUN67 WDT(94) FUN61 FUN18 FUN48	BCNTC(621) WDT(094) Not supported Enter the settings in Not supported	The number of characters (words) to be registered from the first message word is changed from 16 characters (8 words) to 32 characters (16 words). Use MSG(046) instead. Same as C200H Control data configuration is changed. Use IORF (097) instead. the PLC Setup.	Same

Appendix B. Change of unit area allocation

This section describes the differences in unit area allocation between C200H and CJ2. Refer to related manuals for details.

Item	C200H	CJ2	Description
I/O allocation Basic I/O	"Free location and fixed word allocation"	"Free location and free word allocation" Change the word and bit addresses used in the program.	
I/O allocation Special I/O	IR 100 to IR 199 (10 words allocated for each Unit No.) DM 1000 to DM 1999 (100 words allocated for each Unit No.)	CIO 2000 to CIO 2199 (10 words allocated for each Unit No.) D20000 to D21999 (100 words allocated for each Unit No.) Change the word and bit addresses used in the program.	Refer to the CJ2H-CPU6□-EIP/CJ2H-CPU 6□/CJ2M-CPU□□ SYSMAC CJ SERIES CJ2 CPU UNIT SOFTWARE USER'S MANUAL (Cat. No. W473) for details on I/O allocation.
I/O allocation Group-2 High-density I/O	IR 030 to IR 049 (2 or 4 words allocated for each I/O word)	The allocation is decided in the same way as Basic I/O Units depending on the installed position (rack and slot). Change the word and bit addresses used in the program.	
Special Relay Area (SR)	SR 236 to SR 255	(1) Auxiliary Area and bits Change the word and bit addresses used in the program. (2) Condition flags and clock pulses Change the arithmetic flags in the program to the condition flags. Clock pulses are specified using global symbols, such as "P_0.1ms" and "P_1ms".	In CJ2, operation flags and condition flags are specified by labels.
Link Relay Area (LR)	LR 00 to 63	None	PC Link cannot be used with CJ2.
SYSMAC BUS Area	IR 050 to 099	None	SYSMAC BUS cannot be used with CJ2.
Error Log Area	DM 969 to DM 999	A100 to A199	Change the program if the Error Log Area is read in the program.

Appendix C. Change in PLC Settings

pendix o. onange in i	LO octungo		
Item	C200H	CJ2	Description
Startup mode	Setting switch on the memory unit	Set Startup Mode in the PLC Setup.	
Constant Cycle Time Function	Constant Cycle Time (FUN18)	Set Cycle Time in the PLC Setup.	Use the DI (DISABLE INTERRUPTS) instruction and EI (ENABLE INTERRUPTS) instruction to maintain concurrency between cyclic tasks and interrupt tasks.

Appendix D. Change of execution timing etc.

ıρ	pendix D. Change of e	execution timing etc.		
	Item	C200H	CJ2	Description
	Interrupt execution method and execution timing	Write interrupt programs in subroutines.	Write interrupt programs in interrupt tasks.	In CJ2, interrupt tasks are executed even when an instruction is being executed or I/O is being refreshed.
	Cycle time	-	The cycle time is shortened with CJ2. If the system operation is affected by cycle time, check the operation after conversion.	To keep the same cycle time as C200H, set Minimum Cycle Time in the PLC Setup.
	Read Protection function	FUN49	Use password protection function of the CX-Programmer.	

Appendix E. Table of Input/Output Units

■ Input Unit

- (1) The terminal block of the CJ-series Unit differs from that of the C200H-series Unit. Change the wiring.
- (2) If a different type of connector is used, change the wiring.
- (3) If the input specifications differ, make sure that the system operates correctly.
- (4) If the number of circuits increases, rewire the terminals to each common terminal.
- (5) If internal current consumption is different, make sure the power supply capacity is large enough.
- (6) Refer to the related manuals for details. Although CJ-series Units have basic functions of C200H-series Units, some specifications may differ.

< DC Input Units >

C200H -series Unit	Corresponding CJ-series Unit	Description	Difference
C200H-ID211	CJ1W-ID211	DC Input Unit with terminal	1) Terminal block
12 to 24 VDC, 10 mA, Terminal block, 8 inputs	24 VDC, 7 mA, Terminal block, 16 inputs	block for 8 inputs. Replace this unit with a DC Input Unit with 16 inputs.	 2) Input points (8 points → 16 points) 3) Input circuit specifications Input impedance (2 kΩ → 3.3 kΩ) ON voltage (10.2 VDC → 14.4 VDC) OFF voltage (3 VDC → 5 VDC) 4) Internal current consumption (5 VDC: 10 mA → 80 mA)
C200H-ID212	CJ1W-ID211	DC Input Unit with terminal	1) Terminal block
24 VDC, 7 mA, Terminal block, 16 inputs	24 VDC, 7 mA, Terminal block, 16 inputs	block for 16 inputs.	 2) Input circuit specification Input impedance (3 kΩ → 3.3 kΩ) 3) Internal current consumption (5 VDC: 10 mA → 80 mA)
C200H-ID215	CJ1W-ID231	DC Input Unit with connector	1) Connector
24 VDC, 4.1 mA, Connector, 32 inputs (Special I/O)	24 VDC, 4.1 mA, Connector, 32 inputs	for 32 inputs.	Use the XW2Z-S010 Conversion Cable to reuse the connecting cable. 2) No. of circuits (8 points/common x 4 circuits → 16 points/common x 2 circuits) 3) Input circuit specification ON voltage(14.4 VDC → 19 VDC) 4) Internal current consumption (5 VDC: 130 mA → 90 mA)
C200H-ID216	CJ1W-ID231	DC Input Unit with connector	1) No. of circuits (32 points/common x 1 circuit
24 VDC, 4.1 mA, Connector, 32 inputs (Group-2)	24 VDC, 4.1 mA, Connector, 32 inputs	for 32 inputs.	→ 16 points/common x 2 circuits) 2) Input circuit specification ON voltage (14.4 VDC → 15.4 VDC) 3) Internal current consumption (5 VDC: 100 mA → 90 mA)
C200H-ID218	CJ1W-ID231	DC Input Unit with connector	1) No. of circuits (32 points/common x 1 circuit
24 VDC, 6 mA, Connector, 32 inputs (Group-2)	24 VDC, 4.1 mA, Connector, 32 inputs	for 32 inputs.	→ 16 points/common x 2 circuits) 2) Internal current consumption (5 VDC: 100 mA → 90 mA)
C200H-ID111	CJ1W-ID261	DC Input Unit with connector	1) No. of circuits (32 points/common x 2 circuits
12 VDC, 4.1 mA, Connector, 64 inputs (Group-2)	24 VDC, 4.1 mA, Connector, 64 inputs	for 64 inputs.	→ 16 points/common x 4 circuits) 2) Input circuit specifications Input voltage (12 VDC → 24 VDC) Input impedance (2.7 kΩ → 5.6 kΩ) ON voltage (8 VDC → 19 VDC) OFF voltage (3 VDC → 5 VDC) 3) Internal current consumption (5 VDC: 120 mA → 90 mA)
C200H-ID217	CJ1W-ID261	DC Input Unit with connector	1) No. of circuits (32 points/common x 2 circuits
24 VDC, 4.1 mA, Connector, 64 inputs (Group-2)	24 VDC, 4.1 mA, Connector, 64 inputs	for 64 inputs.	→ 16 points/common x 4 circuits) 2) Input circuit specification ON voltage (14.4 VDC → 19 VDC) 3) Internal current consumption (5 VDC: 120 mA → 90 mA)
C200H-ID219	CJ1W-ID261	DC Input Unit with connector	1) No. of circuits (32 points/common x 2 circuits
24 VDC, 6 mA, Connector, 64 inputs (Group-2)	24 VDC, 4.1 mA, Connector, 64 inputs	for 64 inputs.	→ 16 points/common x 4 circuits) 2) Input circuit specifications Input impedance (3.9 kΩ → 5.6 kΩ) ON voltage (15.4 VDC → 19 VDC) 3) Internal current consumption (5 VDC: 120 mA → 90 mA)

< TTL Input Unit >

C200H-series Unit	Corresponding CJ-series Unit	Description	Difference
C200H-ID501		TTL Input Unit with connector to	for 32 inputs. The CJ Series does not have the
5 VDC, 3.5 mA, Connector, 32 inputs (Special I/O)	No replacement model	same type of Unit. Use the CJ1W-ID231 24-VDC	Input Unit or CJ1W-MD563 TTL I/O Unit instead.

< AC Input Units >

C200H-series Unit	Corresponding CJ-series Unit	Description	Difference
C200H-IA121	CJ1W-IA111	100 VAC Input Unit with	1) Terminal block
100 to 120 VAC, 10 mA, Terminal block, 8 inputs	100 to 120 VAC, 7 mA, Terminal block, 16 inputs	terminal block for 8 inputs. Replace this unit with a 100 VAC Input Unit with 16 inputs.	 2) Input points (8 points → 16 points) 3) Input circuit specifications Input impedance (9.7 kΩ → 14.5 kΩ) ON voltage (60 VAC → 70 VAC) 4) Internal current consumption (5 VDC: 10 mA → 90 mA)
C200H-IA221	CJ1W-IA201	200 VAC Input Unit with	1) Terminal block
200 to 240 VAC, 10 mA, Terminal block, 8 inputs	200 to 240 VAC, 9 mA, Terminal block, 8 inputs	terminal block for 8 inputs.	2) Input points (8 points → 8 points*) *16 I/O bits (1 word) are allocated. 3) Internal current consumption (5 VDC: 10 mA → 80 mA)
C200H-IA122/IA122V 100 to 120 VAC, 10 mA, Terminal block, 16 inputs, IA122V: Complying with EC Directive	CJ1W-IA111 100 to 120 VAC, 7 mA, Terminal block, 16 inputs	100 VAC Input Unit with terminal block for 16 inputs.	 Terminal block Input circuit specifications Input impedance (9.7 kΩ → 14.5 kΩ) ON voltage (60 VAC → 70 VAC) Internal current consumption (5 VDC: 10 mA → 90 mA)
C200H-IA222/IA222V	CJ1W-IA201	200 VAC Input Unit with	1) Terminal block
200 to 240 VAC, 10 mA, Terminal block, 16 inputs, IA222V: Complying with EC Directive	200 to 240 VAC, 9 mA, Terminal block, 8 inputs	terminal block for 16 inputs. Replace this unit with two 200 VAC Input Units with 8 inputs.	 2) No. of circuits (16 points/common x 1 circuit → 8 points/common x 1 circuit x 2) 3) Internal current consumption (5 VDC: 10 mA → 80 mA x 2)

< AC/DC Input Units >

< AC/DC Input Units >			
C200H-series Unit	Corresponding CJ-series Unit	Description	Difference
C200H-IM211	CJ1W-ID211	AC/DC Input Unit with	1) Terminal block
12 to 24 VAC/VDC , Terminal block, 8 inputs	24 VDC, 7 mA, Terminal block, 16 inputs	terminal block for 8 inputs. Replace this unit with a DC Input Unit with 16 inputs. *The CJ Series does not have an AC/DC Input Unit. If this Unit is used with AC inputs, change the wiring for DC inputs.	 2) Input points (8 points → 16 points) 3) Input circuit specifications Input voltage range (12 to 24 VAC/VDC → 24 VDC) Input impedance (2 kΩ → 3.3 kΩ) ON voltage (10.2 VDC → 14.4 VDC) OFF voltage (3 VDC → 5 VDC) 4) Internal current consumption (5 VDC: 10 mA → 80 mA)
C200H-IM212	CJ1W-ID211	AC/DC Input Unit with	1) Terminal block
24 VAC/VDC , Terminal block, 16 inputs	24 VDC, 7 mA, Terminal block, 16 inputs	terminal block for 16 inputs. Replace this unit with a DC Input Unit with 16 inputs. *The CJ Series does not have an AC/DC Input Unit. If this Unit is used with AC inputs, change the wiring for DC inputs.	 2) No. of circuits (16 points/common x 1 circuit → 8 points/common x 2 circuits) 3) Input circuit specifications Input voltage range (24 VAC/VDC → 24 VDC) Input impedance (3 kΩ → 3.3 kΩ) 4) Internal power consumption (5 VDC: 10 mA → 80 mA)

■ Output Unit

- (1) The terminal block of the CJ-series Unit differs from that of the C200H-series Unit. Change the wiring.
- (2) If a different type of connector is used, change the wiring.
- (3) If the number of circuits increases, rewire the terminals to each common terminal.
- (4) If the output specifications differ, make sure that the system operates correctly.
- (5) The relay lifetime may vary depending on usage when a different relay is used. Refer to *A-1-3 Precautions on Contact Output Unit* of the *CJ2H-CPU6*□*-EIP/CJ2H-CPU6*□*/CJ2M-CPU*□□ SYSMAC CJ Series CJ2 CPU Unit Hardware USER'S MANUAL (Cat. No. W472) for details.
- (6) If internal current consumption is different, make sure the power supply capacity is large enough.
- (7) If the voltage and current consumption of the external power supply differ, make sure the power supply capacity is large enough.
- (8) Refer to the related manuals for details. Although CJ-series Units have basic functions of C200H-series Units, some specifications may differ.

< Relay Output Units >

C200H-series Unit	Corresponding CJ-series Unit	Description	Difference
C200H-OC223	CJ1W-OC201	Relay Output Unit with	1) Terminal block
250 VAC/24 VDC, 2 A, Terminal block, 5 outputs (independent contacts)	250 VAC/24 VDC, 2 A, Terminal block, 8 outputs (independent contacts)	terminal block for 5 outputs (independent contacts). Replace this unit with a Relay Output Unit with 8 outputs (independent contacts).	 2) Output points (independent contacts 5 points → 8 points) 3) Output circuit specifications ON/OFF response time (10 ms → 15 ms) Used relay 4) Internal current consumption (5 VDC: 10 mA → 90 mA, 26 VDC: 46 mA → 24 VDC: 48 mA)
C200H-OC224	CJ1W-OC201	Relay Output Unit with	1) Terminal block
250 VAC/24 VDC, 2 A, Terminal block, 8 outputs (independent contacts)	250 VAC/24 VDC, 2 A, Terminal block, 8 outputs (independent contacts)	terminal block for 8 outputs (independent contacts).	 2) Output circuit specifications ON/OFF response time (10 ms → 15 ms) Used relay 3) Internal current consumption (5 VDC: 10 mA → 90 mA, 26 VDC: 75 mA → 24 VDC: 48 mA)
C200H-OC224V, OC224N	CJ1W-OC201	Relay Output Unit with	1) Terminal block
250 VAC/24 VDC, 2 A, Terminal block, 8 outputs (independent contacts)	250 VAC/24 VDC, 2 A, Terminal block, 8 outputs (independent contacts)	terminal block for 8 outputs (independent contacts).	 2) Output circuit specification Used relay 3) Internal current consumption (5 VDC: 10 mA → 90 mA, 26 VDC: 90 mA → 24 VDC: 48 mA)
C200H-OC221	CJ1W-OC211	Relay Output Unit with	1) Terminal block
250 VAC/24 VDC, 2 A, Terminal block, 8 outputs	250 VAC/24 VDC, 2 A, Terminal block, 16 outputs	terminal block for 8 outputs. Replace this unit with a Relay Output Unit with 16 outputs.	 2) Output points (8 points → 16 points) 3) Output circuit specifications ON/OFF response time (10 ms → 15 ms) Used relay 4) Internal current consumption (5 VDC: 10 mA → 110 mA, 26 VDC: 75 mA → 24 VDC: 96 mA)
C200H-OC222	CJ1W-OC211	Relay Output Unit with	1) Terminal block
250 VAC/24 VDC, 2 A, Terminal block, 12 outputs	250 VAC/24 VDC, 2 A, Terminal block, 16 outputs	terminal block for 12 outputs. Replace this unit with a Relay Output Unit with 16 outputs.	 2) Output points (12 points → 16 points) 3) No. of circuits (12 points/common x 1 circuit → 8 points/common x 2 circuits) 4) Output circuit specifications ON/OFF response time (10 ms → 15 ms) Used relay 5) Internal current consumption (5 VDC: 10 mA → 110 mA, 26 VDC: 75 mA → 24 VDC: 96 mA)
C200H-OC222V, OC222N	CJ1W-OC211	Relay Output Unit with	1) Terminal block
250 VAC/24 VDC, 2 A, Terminal block, 12 outputs	250 VAC/24 VDC, 2 A, Terminal block, 16 outputs	terminal block for 12 outputs. Replace this unit with a Relay Output Unit with 16 outputs.	 2) Output points (12 points → 16 points) 3) No. of circuits (12 points/common x 1 circuit → 8 points/common x 2 circuits) 4) Output circuit specification Used relay 5) Internal current consumption (5 VDC: 10 mA → 110 mA, 26 VDC: 90 mA → 24 VDC: 96 mA)

< Relay Output Units >

C200H-series Unit	Corresponding CJ-series Unit	Description	Difference
C200H-OC225	CJ1W-OC211	Relay Output Unit with	1) Terminal block
250 VAC/24 VDC, 2 A, Terminal block, 16 outputs	250 VAC/24 VDC, 2 A, Terminal block, 16 outputs	terminal block for 16 outputs.	2) No. of circuits (16 points/common x 1 circuit → 8 points/common x 2 circuits) 3) Output circuit specifications ON/OFF response time (10 ms → 15 ms) Used relay 4) Internal current consumption (5 VDC: 10 mA → 110 mA, 26 VDC: 75 mA → 24 VDC: 96 mA)
C200H-OC226, OC226N	CJ1W-OC211	Relay Output Unit with	1) Terminal block
250 VAC/24 VDC, 2 A, Terminal block, 16 outputs	250 VAC/24 VDC, 2 A, Terminal block, 16 outputs	terminal block for 16 outputs.	 2) No. of circuits (16 points/common x 1 circuit → 8 points/common x 2 circuits) 3) Output circuit specification Used relay 4) Internal current consumption (5 VDC: 10 mA → 110 mA, 26 VDC: 90 mA → 24 VDC: 96 mA)

< Transistor Output Units >

Transistor Output Units > C200H-series Unit		Description	Difference
	Corresponding CJ-series Unit	Description	Difference
C200H-OD411 12 to 48 VDC, 1 A, Sinking, Terminal block, 8 outputs	CJ1W-OD211 12 to 24 VDC, 0.5 A, Sinking, Terminal block, 16 outputs	Transistor Output Unit with terminal block for 8 outputs. Replace this unit with a Transistor Output Unit with 16 outputs.	 Terminal block Output points (8 points → 16 points) Output circuit specifications Voltage range (12 to 48 VDC → 12 to 24VDC) Output capacity (1 A/point, 3 A/Unit → 0.5 A/point, 5 A/Unit) Residual voltage (1.4 V → 1.5 V) ON response time (0.2 ms → 0.1 ms) OFF response time (0.3 ms → 0.8 ms) Internal current consumption (5 VDC: 140 mA → 100 mA)
C200H-OD213	CJ1W-OD211	Transistor Output Unit with	1) Terminal block
24 VDC, 2.1 A, Sinking, Terminal block, 8 outputs	12 to 24 VDC, 0.5 A, Sinking, Terminal block, 16 outputs	terminal block for 8 outputs. Replace this unit with a Transistor Output Unit with 16 outputs.	2) Output points (8 points → 16 points) 3) Output circuit specifications Output capacity (2.1 A/point, 5.2 A/Unit → 0.5 A/point, 5 A/Unit Residual voltage (1.4 V → 1.5 V) ON response time (0.2 ms → 0.1 ms) OFF response time (0.3 ms → 0.8 ms) 4) Internal current consumption (5 VDC: 140 mA → 100 mA)
C200H-OD214	CJ1W-OD212	Transistor Output Unit with	1) Terminal block
24 VDC, 0.8 A, Sourcing, Terminal block, Load short circuit protection, 8 outputs	24 VDC, 0.5 A, Sourcing, Terminal block, Load short circuit protection, 16 outputs	terminal block for 8 outputs. Replace this unit with a Transistor Output Unit with 16 outputs.	 2) Output points (8 points → 16 points) 3) Output circuit specifications Output capacity (0. 8A/point, 2.4 A/Unit → 0.5 A/point, 5 A/Unit) ON response time (1 ms → 0.5 ms) 4) Internal current consumption (5 VDC: 140 mA → 100 mA)
C200H-OD216	CJ1W-OD212	Transistor Output Unit with	1) Terminal block
5 to 24 VDC, 0.3 A, Sourcing, Terminal block, 8 outputs	24 VDC, 0.5 A, Sourcing, Terminal block, Load short circuit protection, 16 outputs	terminal block for 8 outputs. Replace this unit with a Transistor Output Unit with 16 outputs.	2) Output points (8 points → 16 points) 3) Output circuit specifications Output voltage range (5 to 24 VDC → 24 VDC) ON response time (1.5 ms → 0.5 ms) OFF response time (2 ms → 1 ms) 4) Internal current consumption (5 VDC: 10 mA → 100 mA, 26 VDC: 75 mA → 0 mA) 5) External power supply (Not required → 24 VDC/40 mA)
C200H-OD211	CJ1W-OD211	Transistor Output Unit with	1) Terminal block
24 VDC, 0.3 A, Sinking, Terminal block, 12 outputs	12 to 24 VDC, 0.5 A, Sinking, Terminal block, 16 outputs	terminal block for 12 outputs. Replace this unit with a Transistor Output Unit with 16 outputs.	2) Output points (12 points → 16 points) 3) Output circuit specifications Residual voltage (1.4 V → 1.5 V) ON response time (0.2 ms → 0.1 ms) OFF response time (0.3 ms → 0.8 ms) 4) Internal current consumption (5 VDC: 160 mA → 100 mA)

< Transistor Output Units >

< Transistor Output Units >		1	
C200H-series Unit	Corresponding CJ-series Unit	Description	Difference
C200H-OD217	CJ1W-OD212	Transistor Output Unit with	1) Terminal block
5 to 24 VDC, 0.3 A, Sourcing, Terminal block, 12 outputs	24 VDC, 0.5 A, Sourcing, Terminal block, Load short circuit protection, 16 outputs	terminal block for 12 outputs. Replace this unit with a Transistor Output Unit with 16 outputs.	2) Output points (12 points → 16 points) 3) Output circuit specifications Output voltage range (5 to 24 VDC → 24 VDC) ON response time (1.5 ms → 0.5 ms) OFF response time (0.5 ms → 1.0 ms) 4) Internal current consumption (5 VDC: 10 mA → 100 mA, 26 VDC: 75 mA → 0 mA) 5) External power supply
200011 20042	0.141W 0.0044	Topografia de la Contra de Librita de dis	(Not required → 24 VDC: 40 mA)
C200H-OD212 24 VDC, 0.3 A, Sinking, Terminal block, 16 outputs	CJ1W-OD211 12 to 24 VDC, 0.5 A, Sinking, Terminal block, 16 outputs	Transistor Output Unit with terminal block for 16 outputs.	Terminal block Output circuit specifications Residual voltage (1.4 V → 1.5 V) ON response time (0.2 ms → 0.1 ms) OFF response time (0.3 ms → 0.8 ms) Internal current consumption (5 VDC: 180 mA → 100 mA,)
C200H-OD21A	CJ1W-OD212	Transistor Output Unit with	1) Terminal block
24 VDC, 1.0 A, Sourcing, Terminal block, Load short circuit protection, 16 outputs	24 VDC, 0.5 A, Sourcing, Terminal block, Load short circuit protection, 16 outputs	terminal block for 16 outputs.	2) Output circuit specifications Output capacity (1 A/point, 4 A/Unit → 0.5 A/point, 5 A/Unit) Residual voltage (0.8 V → 1.5 V) ON response time (0.1 ms → 0.5 ms) OFF response time (0.3 ms → 1.0 ms) 4) Internal current consumption (5 VDC: 160 mA → 100 mA) 5) Alarm output (Supported → Not supported)
C200H-OD218	CJ1W-OD231	Transistor Output Unit with	1) No. of circuits (32 points/common x 1 circuit
4.5 to 26.3 VDC, 0.1A, Sinking, Connector, 32 outputs (Group-2)	12 to 24 VDC, 0.5A, Sinking, Connector, 32 outputs	connector for 32 outputs.	→ 16 points/common x 2 circuits) 2) Output circuit specifications Output voltage range (5 to 24 VDC → 12 to 24 VDC) Residual voltage (0.8 V → 1.5 V) OFF response time (0.4 ms → 0.8 ms) 3) Internal current consumption (5 VDC: 180 mA → 140 mA)
C200H-OD215	CJ1W-OD231	Transistor Output Unit with	1) Connector
4.5 to 26.3 VDC, 0.1 A, Sinking, Connector, 32 outputs (Special I/O)	12 to 24 VDC, 0.5A, Sinking, Connector, 32 outputs	connector for 32 outputs. *The CJ-series Unit does not support dynamic outputs. Change the wiring for static outputs.	Use the XW2Z-S011 Conversion Cable to reuse the connecting cable. 2) Output method (Dynamic or static mode → Static mode only) Based on specifications in static output mode 3) No. of circuits (8 points/common x 4 circuits → 16 points/common x 2 circuits) 4) Output circuit specifications Output voltage range (5 to 24 VDC → 12 to 24 VDC) Residual voltage (0.7 V → 1.5 V) ON response time (0.2 ms → 0.1 ms) OFF response time (0.6 ms → 0.8 ms) 5) Internal current consumption (5 VDC: 220 mA → 140 mA)
C200H-OD21B	CJ1W-OD232	Transistor Output Unit with	1) No. of circuits (32 points/common x 1 circuit
24 VDC, 0.5 A, Sourcing, Connector, Load short circuit protection, 32 outputs (Group-2)	24 VDC, 0.5 A, Sourcing, Connector, Load short circuit protection, 32 outputs	connector for 32 outputs.	→ 16 points/common x 2 circuits) 2) Output circuit specifications Output capacity (0.5 A/point, 5 A/Unit → 0.5 A/point, 2.5 A/common, 4 A/Unit) Residual voltage (0.8 V → 1.5 V) ON response time (0.1 ms → 0.5 ms) OFF response time (0.3 ms → 1 ms) 3) Internal current consumption (5 VDC: 180 mA → 150 mA)
C200H-OD219	CJ1W-OD261	Transistor Output Unit with	1) No. of circuits (32 points/common x 2 circuits
4.5 to 26.3 VDC, 0.1 A, Sinking, Connector, 64 outputs (Group-2)	12 to 24 VDC, 0.3 A, Sinking, Connector, 64 outputs	connector for 64 outputs	→ 16 points/common x 4 circuits) 2) Output circuit specifications Output voltage range (5 to 24 VDC -> 12 to 24 VDC) Residual voltage (0.8 V → 1.5 V) ON response time (0.1 ms → 0.5 ms) OFF response time (0.4 ms → 1.0 ms) 3) Internal current consumption (5 VDC: 270 mA → 170 mA)

< TTL Output Unit >

C200H-series Unit	Corresponding CJ-series Unit	Description	Difference
C20011-Series Offic	Corresponding Co-series Offic	Description	Dillerence
C200H-OD501		TTL Output Unit with connecto	r for 32 outputs. The CJ Series does not have the
5 VDC, 35 mA, Connector, 32 outputs (Special I/O)	No replacement model	same type of Unit. Use C200H-OD501 with CJ2 or use the CJ1W-OD231 T	
oz outputs (opecial i/o)		CJ1W-MD563 TTL I/O Unit ins	•

< Triac Output Units >

C200H-series Unit	Corresponding CJ-series Unit	Description	Difference
C200H-OA223 250 VAC, 1.2 A, Terminal block, 8 outputs	CJ1W-OA201 250 VAC, 0.6 A, Terminal block, 8 outputs	Triac Output Unit with terminal block for 8 outputs.	Terminal block Output circuit specifications Output capacity (1.2 A/point, 4 A/unit → 0.6 A/point, 2.4 A/Unit) Max. inrush current
			 (15 A/100 ms, 30 A/10 ms → 15 A/10 ms) Residual voltage (50 to 1200 mA: 1.5 VAC, 10 to 50 mA: 5 VAC → 1.6 VAC). 3) Internal current consumption (5 VDC: 180 mA → 220 mA)
C200H-OA221	CJ1W-OA201	Triac Output Unit with	1) Terminal block
250 VAC, 1.2 A, Terminal block, 8 outputs	8 outputs	terminal block for 8 outputs.	2) Output circuit specifications Output capacity (1 A/point, 4 A/unit → 0.6 A/point, 2.4 A/Unit) Max. inrush current (No regulation → 15 A/10 ms) Residual voltage (1.2 VAC → 1.6 VAC) OFF response time (1/2 of load frequency or less → 1/2 of load frequency + 1 ms or less) 3) Internal current consumption (5 VDC: 140 mA → 220 mA)
C200H-OA224	CJ1W-OA201	Triac Output Unit with	1) Terminal block
250 VAC, 0.5 A, Terminal block, 12 outputs	8 outputs	terminal block for 12 outputs. Replace this unit with two Triac Output Units with 8 outputs.	 2) Output points (12 points → 8 points x 2) 3) No. of circuits (12 points/common x 1 circuit → 8 points/common x 1 circuit x 2) 4) Output circuit specifications Output capacity (250 VAC 0.5 A/point, 2 A/unit → 0.6 A/point, 2.4 A/Unit x 2) Max. inrush current (10 A/100 ms, 20 A/10 ms → 15 A/10 ms) Residual voltage (50 to 500 mA: 1.5 VAC, 10 to 50 mA: 5 VAC → 1.6 VAC). 5) Internal current consumption (5 VDC: 270 mA → 220 mA x 2)
C200H-OA222V 250 VAC, 0.3 A, Terminal block,	CJ1W-OA201 250 VAC, 0.6 A, Terminal block,	Triac Output Unit with terminal block for 12 outputs.	 Terminal block Output points (12 points → 8 points x 2)
12 outputs (CE marked)	8 outputs	Replace this unit with two Triac Output Units with 8 outputs.	3) No. of circuits (12 points → 6 points x 2) 3) No. of circuits (12 points/common x 1 circuit → 8 points/common x 1 circuit x 2) 4) Output circuit specifications Max. inrush current (No regulation → 15 A/10 ms) Residual voltage (1.2 VAC → 1.6 VAC) ON response time (1/2 of load frequency or less → 1 ms or less) OFF response time (1/2 of load frequency or less → 1/2 of load frequency + 1 ms or less). 5) Internal current consumption (5 VDC: 200 mA → 220 mA x 2)

■ I/O Unit

- (1) The CJ Series has following I/O Units: CJ1W-MD23□, CJ1W-MD26□, and CJ1W-MD563.
- (2) Refer to the related manuals for details. Although CJ-series Units have basic functions of C200H-series Units, some specifications may differ.

< DC Input/Transistor Output Units >

C200H-series Unit	Corresponding CJ-series Unit	Description	Difference
C200H-MD115 12 VDC/16 inputs (4.1 mA), 12 VDC/16 outputs (0.1A, Sinking), Connector (Special I/O)	CJ1W-MD231 24 VDC/16 inputs (7 mA), 12 to 24VDC/16 outputs (0.5 A, Sinking), Connector	I/O Unit with connector for 16 inputs and 16 outputs. *The CJ-series Unit does not support dynamic outputs. Change the wiring for static outputs.	1) Connector 2) Output method (Dynamic or static mode → Static mode only) 3) Internal current consumption (5 VDC: 180 mA → 130 mA) Based on specifications in static output mode < Output circuit > 4) No. of circuits (8 points/common x 2 circuits → 16 points/common x 1 circuit) 5) Output circuit specifications Output voltage range (5 to 24 VDC → 12 to 24 VDC) Residual voltage (0.7 V → 1.5 V) ON response time (0.2 ms → 0.1 ms) OFF response time (0.6 ms → 0.8 ms) < Input circuit > 6) No. of circuits (8 points/common x 2 circuits → 16 points/common x 1 circuit) 7) Input circuit specifications Input voltage (12 VDC → 24 VDC) Input impedance (2.7 kΩ → 3.3 kΩ) ON voltage (8 VDC → 14.4 VDC) OFF voltage (3 VDC → 5 VDC)
C200H-MD215 24 VDC/16 inputs (4.1 mA), 5 to 24 VDC/16 outputs (0.1 A, Sinking), Connector (Special I/O)	CJ1W-MD231 24 VDC/16 inputs (7 mA), 12 to 24VDC/16 outputs (0.5 A, Sinking), Connector	I/O Unit with connector for 16 inputs and 16 outputs. *The CJ-series Unit does not support dynamic outputs. Change the wiring for static outputs.	1) Connector 2) Output method (Dynamic or static mode → Static mode only) 3) Internal current consumption (5 VDC: 180 mA → 130 mA) Based on specifications in static output mode < Output circuit > 4) No. of circuits (8 points/common x 2 circuits → 16 points/common x 1 circuit) 5) Output circuit specifications Output voltage range (5 to 24 VDC → 12 to 24 VDC) Residual voltage (0.7 V → 1.5 V) ON response time (0.2 ms → 0.1 ms) OFF response time (0.6 ms → 0.8 ms) < Input circuit > 6) No. of circuits (8 points/common x 2 circuits → 16 points/common x 1 circuit) 7) Input circuit specification Input impedance (5.6 kΩ → 3.3 kΩ)

< TTL I/O Unit >

C200H-series Unit	Corresponding CJ-series Unit	Description	Difference
C200H-series Unit C200H-MD501 5 VDC/16 inputs (3.5 mA), 5 VDC/16 outputs (35 mA, Sinking), Connector (Special I/O)	CJ1W-MD231 3.5 mA), 24 VDC/16 inputs (7 mA), 12 to 24VDC/16 outputs "The CJ-series Unit does no	1) Connector 2) Output method (Dynamic or static mode → Static mode only) 3) Internal current consumption (5 VDC: 180 mA → 130 mA) Based on specifications in static output mode < Output circuit > 4) No. of circuits (8 points/common x 2 circuits → 16 points/common x 1 circuit) 5) Output circuit specifications Output voltage range	
		` '	5) Output circuit specifications
			Input impedance (1.1 k $\Omega \rightarrow$ 3.3 k Ω) ON voltage (3 VDC \rightarrow 14.4 VDC) OFF voltage (1 VDC \rightarrow 5 VDC)

MEMO

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