

Programmable Controller C200HX/HG/HE

Replacement Guide From C200HX/HG/HE to CS1

C200HE-CPU (-Z)

C200HG-CPU□3(-Z)

C200HX-CPU□□(-Z)

CS1G-CPU4□H

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
W394	CS1G/H-CPU□□H	CS/CJ/NSJ Series PROGRAMMING 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)	
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 ₀ -000(B)-000	
W342	CS1G/H-CPU□□H	CS/CJ/CP/NSJ Series Communications Commands REFERENCE MANUAL
	CS1G/H-CPUnn-V1	CO/CO/CI / NOO COMMINIMATICALION COMMINIMATICA (LE EXEMPLE MATION LE
	CS1D-CPUDDH	
	CS1D-CPU _{□□} S	
	CS1W-SCU _{DD} -V1	
	CS1W-SCB _□ -V1	
	CJ1H-CPU _□ H-R	
	CJ1G/H-CPUDDH	
	CJ1G-CPU _{□□} P	
	CJ1M/G-CPU _{□□}	
	CJ1W-SCU _{□□} -V1	
	CP1H-X0000-0	
	CP1H-XA0000-0	
	CP1H-Y0000-0	
	NSJ0-0000(B)-000	
W341	CQM1H-PRO01	CS/CJ Series Programming Consoles OPERATION MANUAL
VV 34 1	CQM1-PRO01	CO/OS Series i Togramming Consoles Of ETATION WANDAL
	C200H-PRO27	
	CS1W-KS001	
W339	CS1G/H-CPU□□H	CS Series OPERATION MANUAL
W339	CS1G/H-CPU _D -V1	CS Selles OFERATION MANUAL
14/000		OVOMA C -: INOTALLATION OUIDE
W302	C200HX/HG/HE	SYSMAC $lpha$ INSTALLATION GUIDE
M000	-CPU==/CPU==-Z	OVOMA C ODERATION MANUAL
W303	C200HX/HG/HE	SYSMAC α OPERATION MANUAL
W322	C200HX-CPU -ZE	SYSMAC α OPERATION MANUAL
	C200HG-CPU _□ -ZE	
	C200HE-CPU _□ -ZE	
W227	CV500/CV1000	FINS Commands Reference Manual
	C200H/C1000H/C2000H/	
	3G8F5	

Special I/O Units

Man.No.	Model	Manual
W426	CS1W-NC□71 CJ1W-NC□71(-MA)	CS/CJ Series Position Control Units OPERATION MANUAL
W435	CS1W-MCH71 CJ1W-MCH71	CS/CJ series Motion Control Units OPERATION MANUAL
W440	CS1W-FLN22 CJ1W-FLN22(100BASE-TX)	CS/CJ Series FL-net Units OPERATION MANUAL
W336	CS1W-SCBoo-V1 CS1W-SCUoo-V1 CJ1W-SCUoo-V1	CS/CJ Series Serial Communications Boards Serial Communications Units OPERATION MANUAL
W345	CS1W-AD000-V1/-AD161 CS1W-DA000 CS1W-MAD44	CS/CJ Series Analog I/O Units OPERATION MANUAL
	CJ1W-AD0 _□ -V1/-AD042 CJ1W-DA0 _□ -DA042V CJ1W-MAD42	
W368	CS1W-PTSDD CS1W-PTWDD CS1W-PDCDD CS1W-PTRDD CS1W-PMVDD CJ1W-PTSDD CJ1W-PDCDD CJ1W-PH41U	CS/CJ Series Analog I/O Units OPERATION MANUAL
W902	CS1W-CT021/041	CS Series High-speed Counter Units OPERATION MANUAL
W378	CS1W-HIO01-V1 CS1W-HCP22-V1 CS1W-HCA22-V1 CS1W-HCA12-V1	CS Series Customizable Counter Units OPERATION MANUAL
W384	CS1W-HIO01 CS1W-HCP22 CS1W-HCA22	CS Series Customizable Counter Units PROGRAMMING MANUAL
W376	CS1W-NC _{□□□}	CS Series Position Control Units OPERATION MANUAL
W359	CS1W-MC□□□-V1	CS Series Motion Control Units 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
W229	C200H-AD002/-DA002	C200H Analog I/O Units OPERATION MANUAL
W325	C200H-AD003 C200H-DA003/-DA004 C200H-MAD01	C200H Analog I/O Units OPERATION MANUAL
W225	C200H-TC001/002/003 C200H-TC101/102/103	C200H Temperature Control Units OPERATION MANUAL
W240	C200H-TV001/002/003 C200H-TV101/102/103	C200H Heat/Cool Temperature Control Units OPERATION MANUAL
W241	C200H-PID01/02/03	C200H PID Control Unit OPERATION MANUAL
W141	C200H-CT001-V1 C200H-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:DETAILS
W165	C200H-ASC02	C200H ASCII Units OPERATION MANUAL
W306	C200H-ASC11/21/31	C200H ASCII Units OPERATION MANUAL

Man.No.	Model	Manual
W304	C200HW-COM01	C200HW Communication Boards OPERATION MANUAL
	C200HW-COM02-V1 to	
	C200HW-COM06-EV1	
W257	CVM1-PRS71	Teaching Box OPERATION MANUAL

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
	CS1W-CLK12-V1	
	CVM1-CLK12(H-PCF Cable)	
	CS1W-CLK53	
	CS1W-CLK52-V1	
	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
	DRT1/DRT2	
	GT1	
	CVM1	
W266	C200HW-SRM21-V1	CompoBus/S OPERATION MANUAL
	CS1W-SRM21	
	CJ1W-SRM21	
	CQM1-SRM21-V1	
	SRT1/SRT2	
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	

Man.No.	Model	Manual
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
	C500-LK009-V1	

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	
W464	CX-Integrator OPERATION MANUAL	
W344		CX-Protocol OPERATION MANUAL

C200HX/HG/HE Replacement Guide From C200HX/HG/HE to CS1

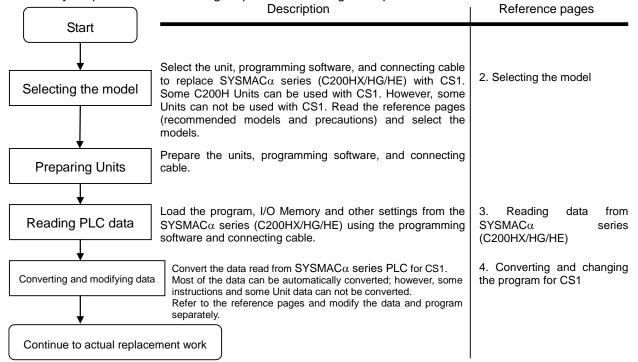
Table of Contents

1.	Work flow	2
	Selecting the replacement method	
3.	Selecting the model	4
4.	Reading data from SYSMACα series (C200HX/HG/HE)	9
5.	Converting and changing the program for CS1	12
6.	Writing data to CS1	14
7.	Appendix	16
	Appendix A. Instructions converted by Change Model on CX-Programmer	16
	Appendix B. Change of unit area allocation	19
	Appendix C. Change in PLC Settings	19
	Appendix D. Change of execution timing etc	19
	Appendix E. Table of Input/Output Units	20

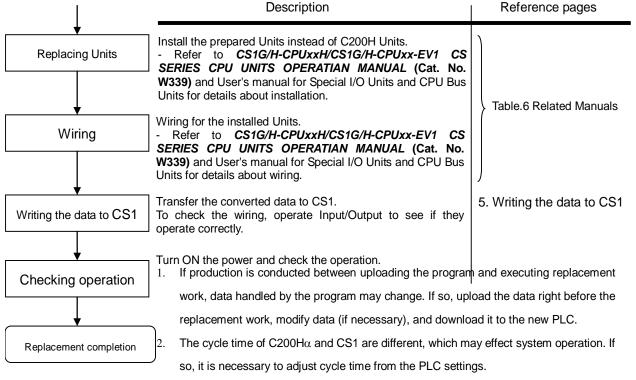
This replacement guide describes the procedure to rebuild the system which uses the SYSMAC α series PLC by introducing the CS1-series PLC instead. The CS1-series has functions which can replace the functions and operation of SYSMAC α series (C200HX/HG/HE). Take the below work flow to replace your system. Also, refer to the reference pages for details.

1. Work flow

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

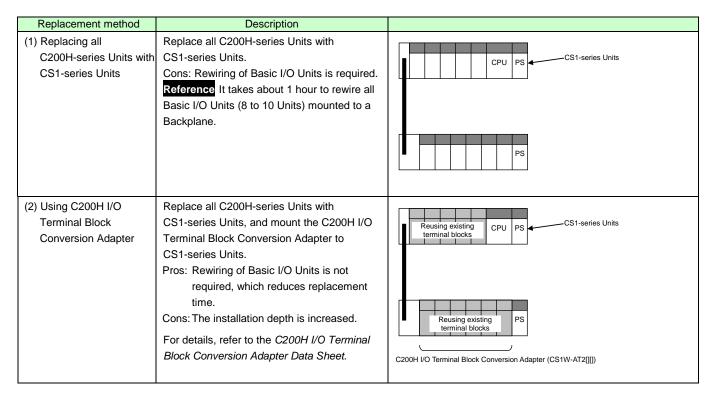


2) Actual replacement work: Take the steps below to replace the SYSMAC α series (C200HX/HG/HE) to CS1.



2. Selecting the replacement method

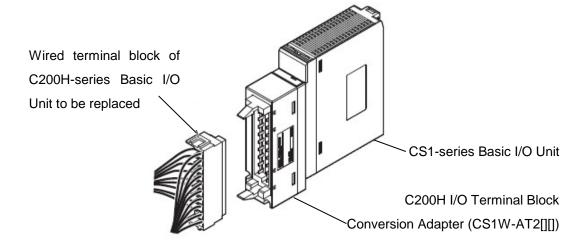
When C200H-series Basic I/O Units are replaced with CS1-series Basic I/O Units, rewiring is required. The C200H I/O Terminal Block Conversion Adapter that allows the terminal block of the C200H-series Basic I/O Unit to be reused for the CS1-series Basic I/O Unit is available. This enables efficient replacement by eliminating rewiring and wiring check times.



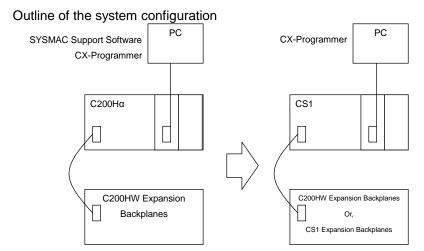
Note 1. Depending on the type of Basic I/O Unit, there may be some restrictions (e.g. change in I/O specifications or wiring) or some models cannot be used.

- 2. When you reuse a terminal block with wiring, confirm that there is no problem in the terminal block and wiring conditions.
 - The screws are securely tightened.
 - The cables are not damaged.
 - There is no rust or corrosion.
 - The terminal block is not damaged. (The terminal block is securely inserted and fixed.)

Image of replacement using C200H I/O Terminal Block Conversion Adapter



3. Selecting the model



The table below lists the models of SYSMAC α series units and each corresponding models of CS1-series. Select the CS1-series model which is compatible with the C200H Series model. Or, select the CS1-series model with similar specification to the C200H Series Unit.

Refer to the manuals below for details.

- CS1-series: CS1G/H-CPU**H/CS1G/H-CPU**-EV1 CS SERIES CPU UNITS OPERATIAN MANUAL (Cat. No. W339)
- · C200Hα series: Programmable Controllers C200HX-CPU

 -E/-ZE, C200HE-CPU

 -E/-ZE INSTALLATION GUIDE (Cat. No. W302)

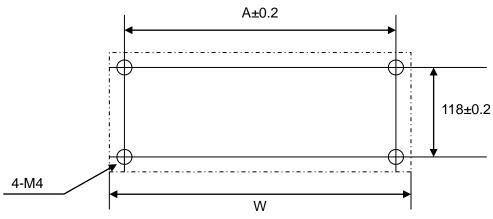
< CPU Units and Power Supply Units >

Unit name	SYSMACα Series	CS1-series	Description
CPU Units	C200HE-CPU11(-Z) C200HE-CPU32(-Z) C200HE-CPU42(-Z)	CS1G-CPU42H	UM 10K steps
	C200HG-CPU33(-Z) C200HG-CPU43(-Z) C200HG-CPU53(-Z) C200HG-CPU63(-Z)	CS1G-CPU43H	UM 20K steps
	C200HX-CPU34(-Z) C200HX-CPU44(-Z) C200HX-CPU54(-Z) C200HX-CPU64(-Z)	CS1G-CPU44H	UM 30K steps
	C200HX-CPU65-Z C200HX-CPU85-Z	CS1G-CPU45H	UM 60K steps
Memory Casette	C200HW-ME□□K C200HS-MP16K	HMC-EF	
Power Supply Units	C200HW-PA000 C200HW-PD000	C200HW-PA=== C200HW-PD===	The Power Supply Units of SYSMACα series can be used with CS1-series, if its capacity is larger than the total current consumption of the new PLC.
Backplanes (CPU Backplane)	C200HW-BC031 C200HW-BC051 C200HW-BC081-V1 C200HW-BC101-V1	CS1W-BC033/BC032 CS1W-BC053/BC052 CS1W-BC083/BC082 CS1W-BC103/BC102	The installation hole position is the same. Note: CS1W-BC□□2 can not be used with C200H Units.
Communication Boards	C200HW-COM01	Unnecessary*	*It is not necessary to mount the communication unit for networks such as SYSMAC LINK and SYSNET.
	C200HW-COM02(-V1)	CS1W-SCB21-V1	
	C200HW-COM03(-V1)	CS1W-SCB41-V1	
	C200HW-COM04(-V1)	CS1W-SCB21-V1	
	C200HW-COM05(-V1)	CS1W-SCB21-V1	
	C200HW-COM06(-V1)	CS1W-SCB41-V1	
CPU Backplane Insulation Plates	C200H-ATT31 C200H-ATT51 C200H-ATT81 C200H-ATTA1	Unnecessary*	* The backplane of the CS1-series has an installation structure to be insulated from the control board etc., CPU Backplane Insulation Plates are unnecessary.

<I/O Expansion System>

Unit name	SYSMACα Series	CS1-series	Description	
Power Supply Units	C200HW-PA=== C200HW-PD===	C200HW-PA=== C200HW-PD===	The Power Supply Units of SYSMAC α series can be used with CS1-series, if its capacity is larger than the total current consumption of the new PLC.	
Backplanes (Expansion Backplanes)	C200HW-BI031 C200HW-BI051 C200HW-BI081-V1 C200HW-BI101-V1	C200HW-BI031 C200HW-BI051 C200HW-BI081-V1 C200HW-BI101-V1 Or, CS1W-BI033/BI032 CS1W-BI053/BI052 CS1W-BI083/BI082 CS1W-BI083/BI102	C200HW Expansion Backplane can be used with CS1-series. When the unit of the CS1-series is used, use the CS1 Expansion Backplane (CS1W-Bluc), instead of C200HW Backplane. Attention: The installation hole position of CS1 Expansion Backplane changes with the number of slot (3, 5, 8 and 10 slots). CS1W-Bluc2 can not be used with C200H Units.	
Connecting Cables for Expansion Backplanes	C200H-CN□□1	CS1W-CN _□ 3	This cable connetct a CS1 CPU Backplane and a CS1 Expansion Backplanes. This cable connetcts a CS1 Backplane (CPU/Expansion) and an Expansion I/O Backplanes (C200HW-BI□□1).	
		C200H-CN _□ 1	This cable connetcts two CS1 Expansion Backplanes (C200HW-Blact).	
Backplane Insulation Plates	C200HW-ATT32 C200HW-ATT52 C200HW-ATT82 C200HW-ATTA2	[When using C200HW Expansion Backplanes] C200HW-ATT32 C200HW-ATT52 C200HW-ATT82 C200HW-ATTA2 [When using CS1 Expansion Backplanes] Unnecessary*	*The backplane of the CS1-series has an installation structure to be insulated from the control board etc., Backplane Insulation Plates are unnecessary.	

Expansion Backplane installation hole dimension



Model	A/W		Model	A/W
C200HW-BI031	175 / 189	->	CS1W-BI033	246 / 260
C200HW-BI051	245 / 259	->	CS1W-BI053	316 / 330
C200HW-BI081-V1	350 / 364	->	CS1W-BI083	421 / 435
C200HW-BI101-V1	420 / 434	->	CS1W-BI103	491 / 505

<I/O Units, CPU Bus Units>

Unit name	SYSMACα Series	CS1-series	Description
Basic I/O Units	C200H-IDDD C200H-ODDDD	C200H-I=== C200H-O===	C200H-series Basic I/O Units can be used with CS1-series.
	C200H-Maaa	C200H-Mana Or, CS1W-lana	Refer to Appendix E. Table of Input/Output Units for CS1 Basic Input/Output Units corresponding to C200H Basic Input/Output
		CS1W-O CS1W-M	Units. We recommend replacing the C200H-series Basic Units with CS1-series Basic I/O Units
Chariel I/O Unita	C200II	C200H	for maintenance purpose.
Special I/O Units	C200H-0000	C200H-0000 Or, CS1W-0000	C200H-series Special I/O Units can be used with CS1-series Units. However, there are some remarks to be followed.
			To improve the system performance and to facilitate maintenance, we recommend you to use the CS1-series Unit instead.
Communications Units	[SYSMAC LINK] Coaxial cable type:	[SYSMAC LINK] Coaxial cable type:	C200HW-SLK can not be used with CS1-series.
	C200HW-SLK23/24 Optical Fiber Cable type: C200HW-SLK13/14	CS1W-SLK21 Optical Fiber Cable type: CS1W-SLK11	Refer to the SYSMAC CS1W-SLK11/21 SYSMAC LINK Units OPERATIAN MANUAL (Cat. No. W367) for details about
	SZOSTW SZIKTOJ 14	Or, [Controller Link]	SYSMAC LINK. We recommend you to use the Controller
		Wire type:CS1W-CLK23 Optical Fiber Cable type: CS1W-CLK13/53	Link instead. Refer to the Controller Link Units (Wire type) Operation Manual (Cat, No. W309)
			and Controller Link Units (H-PCF Optical Fiber Cable ring connection) Operation Manual (Cat, No. W370)
	[SYSNET] C200HS-SNT32	[SYSNET] None [Controller Link]	SYSNET can not be used with CS1-series. We recommend you to renewal the system with Controller Link.
		Wire type: CS1W-CLK23 Optical Fiber Cable type:	Refer to the Controller Link Units (Wire type) Operation Manual (Cat, No. W309)
		CS1W-CLK13/53	and Controller Link Units (H-PCF Optical Fiber Cable ring connection) Operation Manual (Cat, No. W370)
	[Controller Link] Wire type: C200HW-CLK21	[Controller Link] Wire type: CS1W-CLK23	C200HW-CLK21 can not be used with CS1-series. To use the CS1-series, change
			the related area, including status area. Refer to the Controller Link Units (Wire type) Operation Manual (Cat, No. W309).
	[Host Link]	[Serial Communication]	C200H Host Link Unit can not be used with CS1-series.
			Refer to the SYSMAC CS/CJ Series Serial Communications Boards/Units OPERATIAN MANUAL (Cat. No. W336) for
	C200H-LK101-PV1	None	details. The CS1-series does not have the
		CS1W-SCU21-V1 (+ optical link module)	Optical-type Serial Communications Board/Unit. Use the wire-type instead, or use an external optical link module.
	C200H-LK201-V1	CS1W-SCU21-V1 CS1W-SCB21-V1 CS1W-SCB41-V1	Use one of the left CS1-series Unit/Board.
		Host Link port built-in the CPU Unit	
	C200H-LK202-V1 [PC Link]	CS1W-SCU31-V1 CS1W-SCB41-V1 [PC Link]	This Unit can not be used with CS1-series. Use one of the left CS1-series Unit/Board. PC Link Unit can be used with CS1-series.
	C200H-LK401	C200H-LK401	The link area allocation, etc. must be modified.
		[Controller Link] Wire type: CS1W-CLK23 Optical Fiber Cable type:	We recommend you to use the Controller Link instead. Refer to the Controller Link Units (Wire
		CS1W-CLK13/53	type) Operation Manual (Cat, No. W309) and Controller Link Units (H-PCF Optical Fiber Cable ring connection) Operation

Unit name	SYSMACα Series	CS1-series	Description
Communications Units	[CompoBus/S] C200HW-SRM21(-V1)	[CompoBus/S] C200HW-SRM21(-V1) Or, CS1W-SRM21	C200HW-SRM21(-V1) can be used with CS1-series; however, I/O allocation must be changed. There are also some points to follow, when CS1W-SRM21 is replaced. Refer to the C200HW-SRM21-V1, CS1W-SRM21, CJ1W-SRM21, CQM1-SRM21, TQM1-SRM21-V1, SRT1 Series, SRT2 Series CompoBus/S OPERATIAN MANUAL (Cat. No. W226) for details about CompoBus/S.
	[DeviceNet] C200HW-DRM21(-V1)	[DeviceNet] C200HW-DRM21(-V1) Or, CS1W-DRM21-V1	C200HW-DRM21 (-V1) can be used with CS1-series; however, program including I/O allocation must be changed. Refer to the SYSMAC CS/CJ SeriesCS Series: CS1W-DRM21(-V1) CJ-Series: CJ1W-DRM21 DeviceNet Units OPERATIAN MANUAL (Cat. No. W380) for details.
	[SYSBUS] Wire type: C200H-RM201 Optical Fiber Cable type: C200H-RM001-PV1	[SYSBUS] Wire type: C200H-RM201 Optical Fiber Cable type: C200H-RM001-PV1	SYSBUS Unit can be used with CS1-series. However, relay area allocation, etc. must be modified.
		[CompoNet] CS1W-CRM21 [DeviceNet] CS1W-DRM21-V1 [CompoBus/S] CS1W-SRM21	To improve the system performance and to facilitate maintenance, 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 SYSMAC CS/CJ SeriesCS Series: CS1W-DRM21(-V1) CJ-Series: CJ1W-DRM21DeviceNet Units OPERATIAN MANUAL (Cat. No. W380) for details about DeviceNet. Refer to the C200HW-SRM21-V1, CS1W-SRM21, CJ1W-SRM21, CJ1W-SRM21, CQM1-SRM21-V1, SRT1 Series, SRT2 Series CompoBus/S OPERATIAN MANUAL (Cat. No. W226) for details about CompoBus/S.
	[PC Card Unit] C200HW-PCU01 C200HW-PCS01-V1	[PC Card Unit] None [Memory card] HMC-EF□□□ [Ethernet] CS1W-ETN21 [EtherNet/IP] CS1W-EIP21	PC Card Unit can not be used with CS1-series. Insert the memory card into the CS1-series CPU Unit to save and retrieve PLC memory area contents between the CPU Unit and the memory card. Moreover, the communication can be made with the Ethernet Unit and the EtherNet/IP Unit.

<Support software and peripheral devices>

Name	SYSMACα Series	CS1-series	Description
Support software	SYSMAC Support Software CX-Programmer	CX-One CXONE-ALDDC-VD/ ALDD-VD (CX-Programmer Ver.3.0 or higher)	SYSMAC Support Software can not be used with CS1-series.
Peripheral Interface Unit, connecting cable	CQM1-CIF02	CS1W-CN226/626	
Programming Console	C200H-PRO27 (+C200H-CN□□2) CQM1-PRO01	C200H-PRO27(+CS1W-CN _□ 4) CQM1-PRO01(+CS1W-CN114)	CS1W-CN□□4 is a Programming Console Connecting Cable.

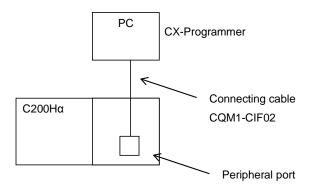
Other remarks

- (1) The DIN track (PFP-50N/100N/100N2) and mounting bracket (C200H-DIN01) can be used for the CS1 backplane, too.
- (2) I/O Unit blacket can not be used with CS1-series. The Units of CS1-series can be secured with screws. They do not require brackets.

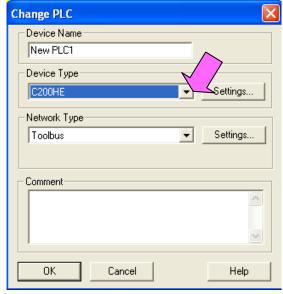
4. Reading data from SYSMACα series (C200HX/HG/HE)

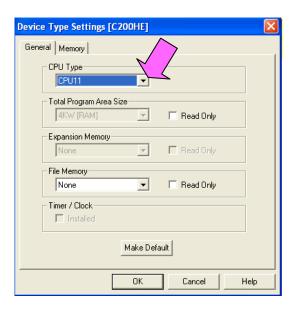
Load the ladder program, PLC settings, and Data Memory from the 200HX/HG/HE using the CX-Programmer.

Required items	Support software (PC)	CX-One (CXONE-AL==C-V=, CXONE-AL==D-V=) Or,
		CX-Programmer (WS02-CXPC□-V□)
	Connecting cable	CQM1-CIF02

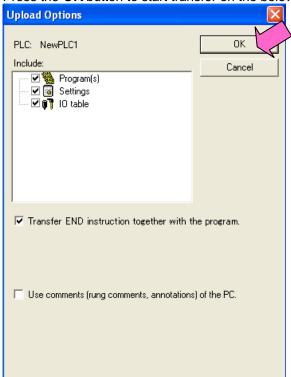


- (1) Connect a SYSMAC α series (C200HX/HG/HE) and PC using the connecting cable.
- (2) Start up the CX-Programmer. (On the Start menu, select *All Program OMRON CX-One CX-Programmer CX-Programmer*.)
- (3) Select C200HE/HG/HX for the Device Type. (Select File New to display below dialog.)





- (4) Connect the PLC and the PC online. (Select PLC Work Online.)
- (5) Transfer the ladder program, PLC settings and I/O Table to the PC. (Select **PLC Transfer From PLC**.) Press the **OK** button to start transfer on the below dialog.



(6) Load the PLC memory data (Data Memory). (Select **PLC** on the menu bar and then click **Edit - Memory**.)



Scroll and check all the areas. Press the *Transfer from PLC* button to start loading.

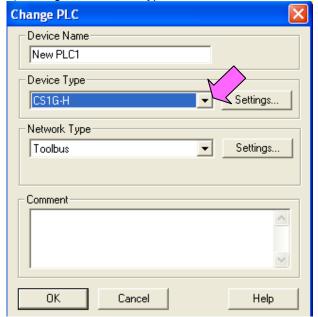


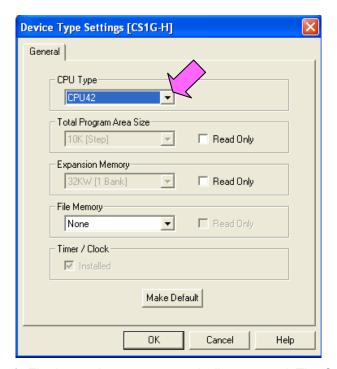
- (7) Make the CX-Programmer offline. (Select *PLC Work Online*.)
- (8) Save the program by specifiyng the project name. (Select *File Save As.*)

5. Converting and changing the program for CS1

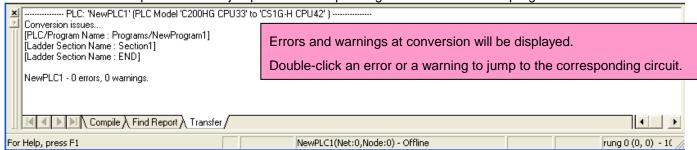
On the CX-Programmer, convert the program for CS1.

- 1) Start the CX-Programmer and open the program file for SYSMACa. (Select *File Open*.)
- 2) Change the Device Type from SYSMACa to CS1. (Select PLC Change Model.)





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.

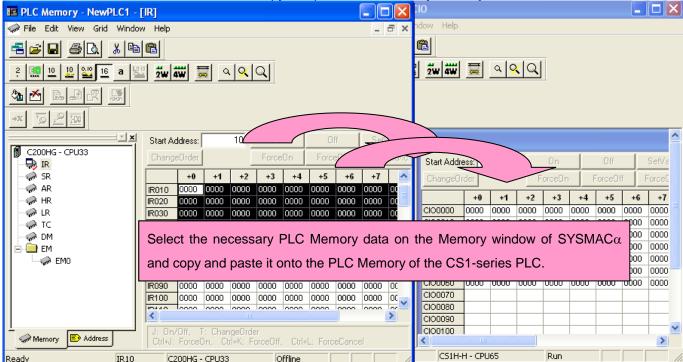


Some instructions can not be converted. Modify the ladder program by refferring to *Appendix A. Instructions* converted by Change Model on CX-Programmer.

You can check the program by selecting **Program - Compile** (Program Check). The Output Window shows the checking results.

The PLC memory data cannot be maintained when PLC model is changed. Open the PLC Memory window for

both SYSMAC α and CS1-series PLCs and copy and paste the necessary memory data after conversion.

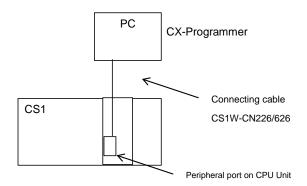


- 5) The I/O allocation of SYSMACα series is partly different from that of CS1-series. Refer to *Appendix B. Change of data area allocation* and modify the ladder program.
- 6) The PLC settings of SYSMACα series are partly different from that of CS1-series. Refer to *Appendix C. Change in PLC settings* and change the PLC settings.
- 7) Select Program Compile to check the program. If an error is detected, correct it.
- 8) Save the program by specifiyng the project name. (Select File Save As.)

6. Writing data to CS1

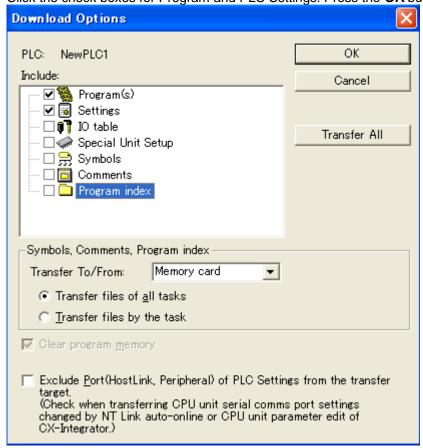
Transfer the converted/modified program, PLC settings and Data Memory to the CS1.

	Transfer and converted/incamed program, i 20 comings and Data Memory to the Con-				
Required items	Support software	CX-One			
	(PC)	CXONE-AL□□C-V□/ AL□□D-V□			
		(CX-Programmer)			
	Connecting cable	CS1W-CN226/626			



- (1) Connect the CS1 and the PC using the connecting cable.
- (2) Start the CX-Programmer and open the converted program file.
- (3) Connect the CS1 and the CX-Programmer online.
- (4) Transfer the ladder program and PLC settings to the CS1. (Select *PLC Transfer To PLC*.)

 Click the check boxes for Program and PLC Settings. Press the *OK* button to start transfer.



(5) Select *PLC* on the menu bar and then click *Edit - Memory* to display below dialog. Transfer the PLC memory (Data Memory: D and Holding Relay: HR) after selecting the transfer data. Click the *Transfer to PLC* button.



(6) Make the CX-Programmer offline.

7. Appendix

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

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

Refer to the table below for detail. The table lists the instructions which are automatically converted producing some difference between instructions before and after conversion. The other instructions are automatically converted.

Instruction SYSMACα	for Instruction for CS1	Operand	Number of Operand
JMP(4)	JMP(4) or, JMP0(515)	If the operand data is #0, this instruction is automatically converted into JMP0 instruction and the operand data is deleted.	1->0
		The instruction is not changed if the operand data is not #0.	Same
JME(5)	JME(5) or, JME0(516)	If the operand data is #0, this instruction is automatically converted into JME0 instruction and the operand data is deleted.	1->0
E41 (0)	EAL(0)	The instruction is not changed if the operand data is not #0.	Same
FAL(6)	FAL(6)	#0 data is added to the second operand. FAL N -> FAL N #0	1->2
FALS(7)	FALS(7)	#0 data is added to the second operand. FALS N -> FALS N #0	1->2
STEP(8)	STEP(8)	The operand data must be set by Work Area (WR) or Index Resistors (indirect). Change the operand.	Same
SNXT(9)	SNXT(9)	The operand data must be set by Work Area (WR) or Index Resistors (indirect).	Same
SCAN(18)	None	Change the operand. Enter the value in the "Constant Cycle Time" from PLC settings.	<u> </u>
ADD(30)	+BC(406)	Same as SYSMACα	Same
SUB(31)	-BC(416)		Same
MUL(32)	*B(424)	Same as SYSMACα	
` '		Same as SYSMACα	Same
DIV(33)	/B(434)	Same as SYSMACα	Same
INC(38)	++B(452)	Same as SYSMACα	Same
DEC(39)	B(454)	Same as SYSMACa	Same
MSG(46)	MSG(46)	#0 data is added to the first operand. MSG S -> MSG #0 S The number of character (words) to be registered is changed. 16 characters (8ch) -> 32 characters (16ch)	1->2
LMSG(47)	None	Use MSG (46) instead.	
TERM(48)	None	To execute keyboard mapping function, use the function on Touch Panels.	
ADB(50)	+C(402)	Same as SYSMACα	Same
SBB(51)	-C(412)	Same as SYSMACα	Same
MLB(52)	*U(422)	Same as SYSMACα	Same
DVB(53)	/U(432)	Same as SYSMACα	Same
ADDL(54)	+BCL(407)	Same as SYSMACα	Same
SUBL(55)	-BCL(417)	Same as SYSMACα	Same
MULL(56)	*BL(425)	Same as SYSMACα	Same
DIVL(57)	/BL(435)	Same as SYSMACα	Same
MPRF(61)	None	Use IORF (97) instead.	
LINE(63)	LINE(63)	The data type of second operand is changed from BCD data to BIN data.	Same
		For a constant data, "#" is automatically changed to "&" To use word data, change the data type of the word from BCD to BIN.	
COLM(64)	COLM(64)	The data type of third operand is changed from BCD data to BIN data. For a constant data, "#" is automatically changed to "&" To use word data, change the data type of the word from BCD to BIN.	Same

Instruction SYSMACα	for Instruction for CS1	Operand	Number of Operand
BCNT(67)	BCNTC(621)	Same as SYSMACα	Same
XFER(70)	XFERC(565)	Same as SYSMACα	Same
DIST(80)	DISTC(566)	Same as SYSMACα	Same
COLL(81)	COLLC(567)	Same as SYSMACα	Same
MOVB(82)	MOVBC(568)	Same as SYSMACα	Same
TTIM(87)	TTIM(87)	There is not third operand (reset input contact No.). Add the reset input. (Refer to figure below). TTIM(087) 000	3->2
		#3000 200.00	
		TTIM(087) 200.00	
INT(89)	None	Select and use the instruction below, depending on the function. SET INTERRUPT MASK: MSKS(690) CLEAR INTERRUPT: CLI(691) READ INTERRUPT MASK: MSKR(692) DISABLE INTERRUPTS: DI(693) ENABLE INTERRUPTS: EI(694) Scheduled Interrupt Interval: Enter the settings from PLC Settings	
SEND(90)	SEND(90)	The control data type (third operand) is different. Refer to the manual to change the settings.	Same
WDT(94)	WDT(94)	The control data type is different. Refer to the manual to change the settings.	Same
RECV(98)	RECV(98)	The control data type (third operand) is different. Refer to the manual to change the settings.	Same
BXFR(125)	None	Use XFER(70) or XFERC(565) instead.	
FCS(180)	FCS(180)	The control data type (first operand) is different. Refer to the manual to change the settings.	Same
SRCH(181)	SRCH(181)	The control data to specify table length (first operand) is different. Refer to the manual to change the settings.	Same
MAX(182)	MAX(182)	The control data type (first operand) is different. Refer to the manual to change the settings.	Same
MIN(183)	MIN(183)	The control data type (first operand) is different. Refer to the manual to change the settings.	Same
SUM(184)	SUM(184)	The control data type (first operand) is different. Refer to the manual to change the settings.	Same
PID(190)	PID(190)	The PID parameter (second operand) is different. Refer to the manual to change the settings.	Same
AVG(195)	AVG(195)	The data type of second operand is changed from BCD data to BIN data. For a constant data, "#" is automatically changed to "&" To use word data, change the data type of word from BCD to BIN.	Same
DSW(210)	DSW(210)	The fourth and fifth operand is added. The fourth operand specifies the number of digits that will be read. Check if the number of digits after convertion is the same as the number specified by this operand. The fifth operand uses one word for work word. It is not possible to use this work word for another purpose; change to another area when the area assigned by conversion is an area used by another purpose.	3->5
HKY(212)	HKY(212)	The fourth operand is added. The fourth operand uses one word for work word. It is not possible to use this work word for another purpose; change to another area when the area assigned by conversion is an area used by another purpose.	3->4

Instruction SYSMACα	for	Instruction for CS1	Operand	Number of Operand
MTR(213)		MTR(213)	The fourth operand is added. The fourth operand uses one word for work word. It is not possible to use this work word for another purpose; change to another area when the area assigned by conversion is an area used for another purpose.	3->4
7SEG(214)		7SEG(214)	The fourth operand is added. The fourth operand uses one word for work word. It is not possible to use this work word for another purpose; change to another area when the area assigned by conversion is an area used for another purpose.	3->4
IORD(222)		IORD(222)	The operand data is different.	Same
IOWR(223)		IOWR(223)	The operand data is different.	Same
RXD(235)		RXD(235)	It is not possible to specify the Peripheral Port on this instruction. The data type of third operand (Number of bytes to store) is changed from BCD data to BIN data. For a constant data, "#" is automatically changed to "&" To use word data, change the data type of word from BCD to BIN.	Same
TXD(236)		TXD(236)	It is not possible to specify the Peripheral Port on this instruction. The data type of third operand (Number of bytes to store) is changed from BCD data to BIN data. For a constant data, "#" is automatically changed to "&" To use word data, change the data type of word from BCD to BIN.	Same
STUP(237)		STUP(237)	The port selection (first operand) data is different. Refer to the manual to change the settings.	
PMCR(260)		PMCR(260)	The control data type (first operand) is different. Refer to the manual to change the settings.	3->4
CMCR(261)		None	Insert the memory card into CPU Unit and use FREAD(700) or FWRIT(701) instead.	
FPD(269)		FPD(269)	The data type of control data for FAL number (first operand) and error monitoring time setting (second operand) is different. They are changed from BCD to BIN.	
XDMR(280)		なし	Use XFER(70) or XFERC(565) instead.	
EMBC(281)		EMBC(281)	The data type of operand is changed from BIN data to BCD data. For a constant data, "#" is automatically changed to "&" To use word data, change the data type of word from BCD to BIN.	Same
TST(350)		TST(350)	The data type of second operand is changed from BCD data to BIN data. For a constant data, "#" is automatically changed to "&" To use word data, change the data type of word from BCD to BIN.	
TSTN(351)		TSTN(351)	The data type of second operand is changed from BCD data to BIN data. For a constant data, "#" is automatically changed to "&" To use word data, change the data type of word from BCD to BIN.	
ADBL(480)		+CL(403)	Same as SYSMACα	Same
SBBL(481)		-CL(413)	Same as SYSMACα	Same
MBSL(482)		*L(421)	Same as SYSMACα	Same
DBSL(483)		/L(431)	Same as SYSMACα	Same
MBS(484)		*(420)	Same as SYSMACα	Same
DBS(485)		/(430)	Same as SYSMACα	Same
BXF2		None	Use XFER(70) or XFERC(565) instead.	<u> </u>
XFR2		None	Use XFER(70) or XFERC(565) instead.	
IEMS		None	Specify another address by using index register.	

Appendix B. Change of unit area allocation

This section describes the difference of unit area allocation in C200H α and CS1-series. Refer to related manuals for details

This section describes the			efer to related manuals for details.
Item	SYSMACα Series	CS1-series	Description
I/O allocation	"Free location and fixed	"Free location and free channel"	For CS1-series, it is necessary to
Basic I/O	channel"	Change the channel and bit	register I/O table.
		address used in the program.	
I/O allocation	IR 100 to 199	CIO 2000 to 2199	Refer to the
Special I/O Units	IR 400 to 459	(10 words allocated for each Unit	CS1G/H-CPU**H/CS1G/H-CPU**-EV
	(10 words allocated for each	No.)	1 CS SERIES CPU UNITS
	Unit No.)	DM20000 to 21999	OPERATIAN MANUAL (Cat. No.
	DM1000 to 2599	(100 words allocated for each Unit	W339) for details on I/O allocation.
	(100 words allocated for each	No.)	
	Unit No.)	Change the channel and bit	
1/0 !! .:	15.00.	address used in the program.	
I/O allocation	IR 30 to 49	The allocation is decided in the	
Special I/O Units	IR 330 to 341	same way as a Basic I/O Units	
(Group-2)	(2 or 4 words allocated for each Unit)	depending on the installed	
	Offit)	position (rack and slot). Change the channel and bit	
		address used in the program.	
Link Relay Area (LR)	LR00 to 63	CIO 1000 to 1199	
Auxiliary Relay Area	SR 236 to 255	(1)AR Area and Bit	Operation flags and condition flags of
/ taxillary reday / trea	SR 256 to 299	Change the channel and bit	CS1 can be specified by label.
	C. C 200 to 200	address used in the program.	cer can se opecinea sy lasen
Auxiliary Relay Area	AR 00 to 27	(2)Condition flags and Clock	
(AR)		pulse	
, ,		Change the operation flag and the	
		clock pulse in the program to the	
		condition flag and the clock pulse,	
		respectively.	
Auxiliary Relay Area for	SR 247 to 250	CIO 247 to 250	
PC Link	(In Auxiliary Relay Area)	and	
		A442	
Optical I/O Unit and	IR 200 to 231	CIO 3100 to 3131	
I/OTerminal Area			
DeviceNet	IR 50 to 99	[C200H DeviceNet Relay Area]	
SYSBUS Remote I/O	IR 350 to 399	CIO 50 to 99	
		CIO 350 to 399	
		[SYSBUS Relay Area]	
		CIO 3000 to 3079	
		Change the channel and bit address used in the program.	
Work Area	IR 310 to 329	CIO 1200 to 1499	
WOIK Alea	IR 342 to 349	CIO 1200 to 1499 CIO 3800 to 6143	
	IR 460 to 511	WR 000 to 511	
Temporary Relay Area	TR0 to 7	TR0 to 15	
(TR)	110.07	11.0.0.10	
Holding Relay Area(HR)	HR00 to 99	HR 000 to 959	
History Log Área	DM 6000 to 6030	AR 100 to A199	Change the program if the Error
			History Area is read in the program.

Appendix C. Change in PLC Settings

Item	SYSMACα Series	CS1-series	Description
PLC settings	Always uses DM area (DM6600 to 6655) for PLC settings.	Uses dedicated area for PLC settings (there is no address for setting by users).	Refer to related manuals for details.

Appendix D. Change of execution timing etc

Item	SYSMACα Series	CS1-series	Description
Interrupt execution method and execution timing	Write the interrupt program in subroutine.	Write the interrupt program in interrupt task.	For CS1, an Interrupt Task is executed even when an instruction is being executed or I/O refreshing.
I/O Table Creation	Unnecessary	Necessary For CS1-series, it is necessary to register I/O table with a peripheral devices, such as CX-Programmer.	
Cycle Time	-	The cycle time is shortened with CS1. If the system operation is affected by cycle time, check the operation with the converted program.	To obtain the same cycle time as C200H, set the time from the "Constant Cycle Time" in the PLC settings.

Appendix E. Table of Input/Output Units

- Input Unit

- (1) If different terminal block or connector is used, you have to change the wiring.
- (2) If the input circuit specification is not the same, check if there is no problem in operation.
- (3)If the number of circuit is different (increased), wire and connect the terminals and each common terminals.
- (4)If the current consumption is different, check if enough power supply capacity is provided.
- (5)C200H-series Units can be used with CS1-series CPU Units.
- (6)Refer to related manuals for details, even if functions of C200H-series are supported by CS1-series Units, since a part of specifications may differ.

DC Input Unit

C200H Series Unit	Corresponding CS1-series Unit	Description	Difference
C200H-ID211	CS1W-ID211	DC Input Unit with terminal	Terminal block
12 to 24 VDC,10mA, Terminal	24VDC, 7mA, Terminal block, 16	block for 8 inputs	2) Input points (8 -> 16 points)
block, 8 inputs	inputs	Replace this unit with a DC	Input circuit specification
		Input Unit with 16 inputs.	Input voltage range (12 to 24 VDC ->
			24VDC)
			Input impedance $(2k\Omega -> 3.3k\Omega)$
			ON Voltage(10.2VDC->14.4VDC)
			OFF Voltage(3VDC->5VDC)
			4) Internal current consumption(5VDC: 10mA->100mA)
C200H-ID212	CS1W-ID211	DC Input Unit with terminal	1) Terminal block
24 VDC, 7mA, Terminal	24VDC, 7mA, Terminal block, 16	block for 16 inputs.	2) Number of circuit (16 points/common x1
block, 16 inputs	inputs	Discourse to imputer	circuit -> 8 points/common x2 circuits)
block, To inputs			3) Input circuit specification
			Input impedance(3kΩ->3.3kΩ)
			4) Internal current consumption
			(5VDC:10mA->100mA)
C200H-ID215	CS1W-ID231	DC Input Unit with connector	1) Connector
24 VDC, 4.1mA, Connector	24VDC, 6mA, Connector, 32	for 32 inputs.	2) (8 points/common x4 circuits->16
32 inputs (Special I/O G)	inputs		points/common x2 circuits)
,			Input circuit specification
			Input impedance($5.6k\Omega$ -> $3.9k\Omega$)
			ON Voltage(DC14.4V->DC15.4V)
			4)Internal current consumption
		201 111 11 11	(5VDC:130mA->150mA)
C200H-ID216	CS1W-ID231	DC Input Unit with connector	1) Number of circuit(32 points/common x1
24 VDC, 4.1mA, Connector,	24VDC, 6mA, Connector, 32	for 32 inputs.	circuit ->16 points/common x2 circuits) 2) Input circuit specification
32 inputs (Group-2)	inputs		
			Input impedance(5.6kΩ->3.9kΩ) ON Voltage(DC14.4V->DC15.4V)
			3) Internal current consumption
			(5VDC:100mA->150mA)
C200H-ID218	CS1W-ID231	DC Input Unit with connector	1) Number of circuit (32 points/common x1
24 VDC, 6.0mA, Connector,	24VDC, 6mA, Connector, 32	for 32 inputs.	circuit ->16 points/common x2 circuits)
32 inputs (Group-2)	inputs		Internal current consumption
			(5VDC:100mA->150mA)
C200H-ID111	CS1W-ID261	DC Input Unit with connector	1) Number of circuit (32 points/common x2
12 VDC, 4.1mA, Connector,	24VDC, 6mA, Connector, 64	for 64 inputs.	circuit->16 points/common x4 circuits)
64 inputs (Group-2)	inputs		Input circuit specification Input voltage(12VDC->24VDC)
			Input impedance (2.7kΩ->3.9kΩ)
			ON Voltage(8VDC->15.4VDC)
			OFF Voltage(3VDC->5VDC)
			3) Internal current consumption
			(5VDC:120mA->150mA)
C200H-ID217	CS1W-ID261	DC Input Unit with connector	1) Number of circuit (32 points/common x2
24 VDC, 4.1mA, Connector,	24VDC, 6mA, Connector, 64	for 64 inputs.	circuit ->16 points/common x4 circuits)
64 inputs (Group-2)	inputs		2) Input circuit specification
• • •			Input impedance (5.6k Ω ->3.9k Ω)
			ON Voltage (14.4VDC->15.4VDC)
			Internal current consumption
000011 10040	OOAW IDOOA	DC lanest linit with a const	(5VDC:120mA->150mA)
C200H-ID219	CS1W-ID261	DC Input Unit with connector	1) Number of circuit (32 points/common x2
24 VDC, 6.0mA, Connector,	24VDC, 6mA, Connector, 64	for 64 inputs.	circuit ->16 points/common x4 circuits) 2) Internal current consumption
64 inputs (Group-2)	inputs		,
			(5VDC:120mA->150mA)

<TTL Input Unit>

C200H Series Unit	Corresponding CS1-series Unit	Description	Difference
C200H-ID501	No replacement model	TTL Input Unit with connector for 32 inputs. The CS1-series does not have	
5VDC, 3.5mA, Connector, 32 inputs (Special I/O Unit)		the same type of Unit. Use the C200H-ID501 with CS1 TTL Input/Output Unit (CS1W-N	, or use 24VDC Input Unit (CS1W-ID231) or ID561) instead.

<AC Input Unit>

C200H Series Unit	Corresponding CS1-series Unit	Description	Difference
C200H-IA121 100-120VAC/10mA, and	CS1W-IA111 100-120VAC/10mA, 100 to	100VAC Input Unit with terminal block for 8 inputs.	1) Terminal block 2) Input points (8 -> 16 points)
Terminal block, 8 inputs	120VDC/1.5mA, Terminal block, 16 inputs	Replace this unit with a 100VAC Input Unit with 16 inputs.	3) Input circuit specification Input impedance (9.7kΩ/50Hz->10kΩ/50Hz) ON Voltage (60V->65V) 4) Internal current consumption (5VDC:10mA->110mA)
C200H-IA221	CS1W-IA211	200VAC Input Unit with	1) Terminal block
200-240VAC/10mA, and Terminal block, 8 inputs	200-240VAC/10mA, Terminal block, 16 inputs	terminal block for 8 inputs. Replace this unit with a 200VAC Input Unit with 16 inputs.	2) Input points (8 -> 16 points) 3) Internal current consumption (5VDC:10mA->110mA)
C200H-IA122/IA122V	CS1W-IA111	100VAC Input Unit with	Terminal block
100-120VAC/10mA, Terminal block, 16 inputs, IA122V: Complying with EC Directive	100-120VAC/10mA, 100 to 120VDC/1.5mA, Terminal block, 16 inputs	terminal block for 16 inputs.	 2) Number of circuit (16 points/common x1 circuit ->8 points/common x2 circuits) 3) Input circuit specification Input impedance (9.7kΩ/50Hz->10kΩ/50Hz) ON Voltage (60VAC->65VAC) Internal current consumption (5VDC:10mA->110mA)
C200H-IA222/IA222V	CS1W-IA211	200VAC Input Unit with	1) Terminal block
200-240VAC/10mA, Terminal block, 16 inputs, IA222V: Complying with EC Directive	200-240VAC/10mA, Terminal block, 16 inputs	terminal block for 16 inputs.	2) Number of circuit (16 points/common x1 circuit ->8 points/common x2 circuits) 3) Internal current consumption (5VDC:10mA->110mA)

<AC/DC Input Unit>

C200H Series Unit	Corresponding CS1-series Unit	Description	Difference
C200H-IM211	CS1W-ID211	AC/DC Input Unit with	1) Terminal block
12-24 VAC/VDC , Terminal	24 VDC, 7mA, Terminal block, 16	terminal block for 8 inputs.	2) Input points (8 -> 16 points)
block, 8 inputs	inputs	Replace this unit with a DC	3) Input circuit specification
		Input Unit with 16 inputs. *The CS1-series does not	Input voltage range(12 to 24 VAC/VDC->24VDC)
		have the AC/DC Input Unit. If	Input impedance($2k\Omega$ ->3.3k Ω)
		this Unit is used with AC	ON Voltage (10.2VDC->14.4VDC)
		inputs, continue using this	OFF Voltage (3VDC->5VDC)
		Unit or change the wiring for	Internal current consumption
		DC inputs	(5VDC:10mA->100mA)
C200H-IM212	CS1W-ID211	AC/DC Input Unit with	1) Terminal block
24 VAC/VDC , Terminal	24 VDC, 7mA, Terminal block, 16	terminal block for 16 inputs. Replace this unit with a DC	2) Number of circuit (16 points/common x1 circuit ->8 points/common x2 circuits)
block, 16 inputs	inputs	Input Unit with 16 inputs.	3) Input circuit specification
		* The CS1-series does not	Input voltage range (24VAC/VDC->24VDC),
		have the AC/DC Input Unit. If	and input impedance ($3k\Omega$ ->3.3k Ω)
		this Unit is used with AC	4) Internal power consumption
		inputs, continue using this	(5VDC:10mA->100mA)
		Unit or change the wiring for	
		DC inputs.	

■ Output Unit

- (1) If different terminal block or connector is used, you have to change the wiring.
- (2) If the number of circuit is different (increased), wire and connect the terminals and each common terminals.
- (3) If the output specification is not same, check if there is no problem in operation.
- (4) The relay lifetime might change depending on the usage, when the used relay is different. Refer to the Appendix F Restrictions in Using C200H Special I/O Units of CS1G/H-CPU**H/CS1G/H-CPU**-EV1 CS SERIES CPU UNITS OPERATIAN MANUAL (Cat. No. W339) for details of the Output Units.
- (5) If the current consumption is different, check if enough power supply capacity is provided
- (6) If the voltage and current consumption of external power supply is different, check if enough power supply capacity is provided.
- (7) C200H-series Units can be used with CS1-series CPU Unit.
- (8) Refer to related manuals for details, even if functions of C200H-series are supported by CS1-series Units, since a part of specifications may differ.

<Relay Output Units>

C200H Series Unit	Corresponding CS1-series Unit	Description	Difference
C200H-OC223	CS1W-OC201	Relay Output Units with	1) Terminal block
250VAC/24VDC, 2A,	250 VAC or 120 VDC,	terminal block for 5 outputs	Output points (independent contacts 5
Terminal block, 5 outputs	2 A max., terminal block, 8	(independent contacts).	points -> 8 points)
(independent contacts)	outputs (Independent contacts)	Replace this unit with a Relay	3) Output circuit specification
, ,		Output Unit with 8 outputs	ON/OFF response time(10ms->15ms)
		(independent contacts).	Used relay
			Internal current consumption
			(5VDC:10mA->100mA,
			26VDC:46mA->48mA)
C200H-OC224	CS1W-OC201	Relay Output Units with	1) Terminal block
250VAC/24VDC, 2A,	250 VAC or 120 VDC,	terminal block for 8 outputs	Output circuit specification
Terminal block, 8 outputs	2 A max., terminal block, 8	(independent contacts).	ON/OFF response time(10ms->15ms)
(independent contacts)	outputs (Independent contacts)		Used relay
			3) Internal current consumption
			(5VDC:10mA->100mA,
	00.000	D 1 0 1 11 11 11	26VDC:75mA->48mA)
C200H-OC224V, OC224N	CS1W-OC201	Relay Output Units with	1) Terminal block
250VAC/24VDC, 2A,	250 VAC or 120 VDC,	terminal block for 8 outputs	2) Output circuit specification
Terminal block, 8 outputs	2 A max., terminal block, 8	(independent contacts).	Used relay 3) Internal current consumption
(independent contacts)	outputs (Independent contacts)		(5VDC:10mA->100mA, 26VDC:90mA->
			(5VDC.10IIIA->100IIIA, 26VDC.90IIIA->
C200H-OC221	CS1W-OC211	Relay Output Units with	1) Terminal block
250VAC/24VDC, 2A,	250 VAC or 120 VDC,	terminal block for 8 outputs.	2) Output points(8 -> 16 points)
Terminal block, 8 outputs	2 A max., terminal block,	Replace this unit with a Relay	3) Output circuit specification
Terrilliai block, 8 outputs	16 outputs	Output Unit with 16 outputs.	ON/OFF response time(10ms->15ms)
	10 outputs	Output Offit With 10 outputs.	Used relay
			4) Internal current consumption (DC5V:
			10mA->100mA, DC26V:75mA->96mA)
C200H-OC222	CS1W-OC211	Relay Output Units with	1) Terminal block
250VAC/24VDC, 2A,	250 VAC or 120 VDC,	terminal block for 12 outputs.	2) Output points(12 -> 16 points)
Terminal block, 12 outputs	250 VAC of 120 VDC, 2 A max., terminal block,	Replace this unit with a Relay	3) Number of circuit(12 points/common x1
Terminal block, 12 outputs	16 outputs	Output Unit with 16 outputs.	circuit -> 8 points/common x2 circuits)
	10 outputs	Output Offit With 10 outputs.	4) Output circuit specification
			ON/OFF response time(10ms->15ms)
			Used relay
			5) Internal current consumption
			(5VDC:10mA->100mA,
			26VDC:75mA->96mA)
C200H-OC222V, OC222N	CS1W-OC211	Relay Output Units with	1) Terminal block
250 VAC/24VDC,	250 VAC or 120 VDC,	terminal block for 12 outputs.	2) Output points (12 -> 16 points)
2A, Terminal block, 12	2 A max.	Replace this unit with a Relay	3) Number of circuit (12 points/common x1
outputs	16 outputs	Output Unit with 16 outputs.	circuit ->8 points/common x2 circuits)
			Output circuit specification
			Used relay
			5) Internal current consumption
			(5VDC:10mA->100mA,
			26VDC:90mA->96mA)

<Relay Output Units>

C200H Series Unit	Corresponding CS1-series Unit	Description	Difference
C200H-OC225	CS1W-OC211	Relay Output Units with	1) Terminal block
250VAC/24VDC, 2A, Terminal block, 16 outputs	250VAC/120VDC, 2A, Terminal block, 16 outputs	terminal block for 16 outputs.	2) Number of circuit (16 points/common x1 circuit ->8 points/common x2 circuits) 3) Output circuit specification ON/OFF response time (10ms->15ms) Used relay 4) Internal current consumption (5VDC: 10mA->100mA, 26VDC: 75mA->96mA)
C200H-OC226, OC226N	CS1W-OC211	Relay Output Units with	1) Terminal block
250VAC/24VDC, 2A, Terminal block, 16 outputs	250VAC/120VDC, 2A, Terminal block, 16 outputs	terminal block for 16 outputs.	2) Number of circuit (16 points/common x1 circuit ->8 points/common x2 circuits) 3) Output circuit specification Used relay 4) Internal current consumption (5VDC:10mA->100mA, 26VDC:90mA->96mA)

<Transistor Output Units>

<transistor output="" units=""></transistor>			
	Corresponding CS1-series Unit	Description	Difference
C200H Series Unit C200H-OD411 12-48 VDC, 1A, Sinking, Terminal block, 8 outputs C200H-OD213 24 VDC, 2.1A, Sinking, Terminal block, 8 outputs	Corresponding CS1-series Unit CS1W-OD211 12-24 VDC, 0.5A, Sinking, Terminal block, 16 outputs CS1W-OD211 12-24 VDC, 0.5A, Sinking, Terminal block, 16 outputs	Transistor Output Units with terminal block for 8 outputs. Replace this unit with a Transistor Output Unit with 16 outputs. Transistor Output Units with terminal block for 8 outputs. Replace this unit with a	1) Terminal block 2) Output points (8 -> 16 points) 3) Output circuit specification Output capacity (1A/point, 3A/Unit -> 0.5A/point, 8A/Unit) Voltage range(12 to 48 VDC-> 12 to 24VDC) Residual voltage(1.4V->1.5V) ON response time(0.2ms->0.5ms) OFF response time(0.3ms->1.0ms) 4) Internal current consumption(5VDC:140mA->170mA) 1) Terminal block 2) Output points (8 -> 16 points) 3) Output circuit specification
, ,		Transistor Output Unit with 16 outputs.	Output capacity (2.1A/point, 5.2A/Unit -> 0.5A/point, 8A/Unit) Residual voltage(1.4V->1.5V) ON response time(0.2ms->0.5ms) OFF response time(0.3ms->1.0ms) 4) Internal current consumption(5VDC:140mA->170mA)
C200H-OD214 24 VDC, 0.8A, Sourcing, Terminal block, load short circuit protection, 8 outputs	CS1W-OD212 12-24 VDC, 0.5A, Sourcing, Terminal block, load short circuit protection, 16 outputs	Transistor Output Units with terminal block for 8 outputs. Replace this unit with a Transistor Output Unit with 16 outputs.	1) Terminal block 2) Output points (8 -> 16 points) 3) Output circuit specification Output capacity(0.8A/point, 2.4A/Unit -> 0.5A/point, 5A/Unit) ON response time(1ms->0.5ms) 4) Internal current consumption (5VDC:140mA->170mA)
C200H-OD216	CS1W-OD212	Transistor Output Units with	1) Terminal block
5 - 24 VDC, 0.3A, Sourcing, Terminal block, 8 outputs	12-24 VDC, 0.5A, 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 -> 16 points) 3) Output circuit specification Output voltage range(5 to 24 VDC-> 24VDC) 4) Internal current consumption (5VDC:10mA->170mA,26VDC:75mA->0mA) 5) External power supply (Not required -> DC24V/40mA)
C200H-OD211	CS1W-OD211	Transistor Output Units with terminal block for 12 outputs.	1) Terminal block
24 VDC, 0.3A, Sinking, Terminal block, 12 outputs	12-24 VDC, 0.5A, Sinking, Terminal block, 16 outputs	Replace this unit with a Transistor Output Unit with 16 outputs.	2) Output points (12 -> 16 points) 3) Number of circuit (12 points/common x1 circuit -> 8 points/common x2 circuits) 4) Output circuit specification Residual voltage(1.4V->1.5V) ON response time(0.2ms->0.5ms) OFF response time(0.3ms->1.0ms) 5) Internal current consumption(5VDC:160mA->170mA)

<Transistor Output Units>

<transistor output="" units=""></transistor>			
C200H Series Unit	Corresponding CS1-series Unit	Description	Difference
C200H-OD217	CS1W-OD212	Transistor Output Units with	1) Terminal block
24 VDC, 0.3A, Sourcing, Terminal block, 12 outputs	12-24 VDC, 0.5A, 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-> 16 points) 3) Number of circuit (12 points/common x1 circuit ->8 points/common x2 circuits) 4) Output circuit specification Output voltage range (5 to 24 VDC -> 24VDC) 5) Internal current consumption (5VDC:10mA->170mA, 26VDC:75mA-> 0mA)
			6) External power supply (Not required -> 24VDC:40mA)
C200H-OD212	CS1W-OD211	Transistor Output Units with	1) Terminal block
24 VDC, 0.3A, Sinking, Terminal block, 16 outputs	12-24 VDC, 0.5A, Sinking, Terminal block, 16 outputs	terminal block for 16 outputs.	2) Number of circuit (16 points/common x1 circuit ->8 points/common x2 circuits) 3) Output circuit specification Residual voltage (1.4V->1.5V) ON response time(0.2ms->0.5ms) OFF response time(0.3ms->1.0ms)
C200H-OD21A	CS1W-OD212	Transistor Output Units with	1) Terminal block
24 VDC, 1.0A, Sourcing, Terminal block, load short circuit protection, 16 outputs	12-24 VDC, 0.5A, Sourcing, Terminal block, load short circuit protection, 16 outputs	terminal block for 16 outputs.	2) Number of circuit (16 points/common x1 circuit ->8 points/common x2 circuits) 3) Output circuit specification Output capacity (1A/point, 4A/Unit -> 0.5A/point, 5A/Unit) Residual voltage (0.8V->1.5V) ON response time (0.1ms->0.5ms) OFF response time (0.3ms->1ms) 4) Internal current consumption (5VDC:160mA-> 170mA) 5) External power supply (24 VDC: 35mA-> 40mA) 6) Alarm output (Supported -> Not supported)
C200H-OD218	CS1W-OD231	Transistor Output Units with	1) Number of circuit (32 points/common x1
4.5 to 26.3 VDC, 0.1A, Sinking, Connector, 32 outputs (Group-2)	12-24 VDC, 0.5A, Sinking, Connector, 32 outputs	connector for 32 outputs.	circuit ->16 points/common x2 circuits) 2) Output circuit specification Output voltage range (5 to 24 VDC-> 12 to 24VDC) Residual voltage (0.8V->1.5V) ON response time (0.1ms->0.5ms) OFF response time(0.4ms->1ms) 3) Internal current consumption(DC5V: 180mA->270mA) 4) External power supply (5 to 24 VDC:110mA -> 12 to 24VDC:50mA)
C200H-OD215	CS1W-OD231	Transistor Output Units with	1) Connector
4.5 to 26.3 VDC, 0.1A, Sinking, Connector, 32 outputs (Special I/O)	12-24 VDC, 0.5A, Sinking, Connector, 32 outputs	connector for 32 outputs. *The CS1-series does not have Unit which supports Dynamic Output. Continue using this C200H Unit or change the wiring for static mode.	2) Output method (Dynamic or Static mode -> Static only) The specification of static is as follows. 3) Number of circuit (8 points/common x 4 circuits ->16 points/common x2 circuits) 4) Output circuit specification Output voltage range(5 to 24 VDC -> 12 to 24VDC) Residual voltage (0.7V->1.5V) ON response time (0.2ms->0.5ms) OFF response time (0.6ms->1ms) 5) Internal current consumption (5VDC:220mA->270mA) 6) External power supply (5 to 24 VDC:90mA -> 12 to 24VDC:50mA)
C200H-OD21B	CS1W-OD232	Transistor Output Units with	1) Number of circuit (32 points/common x1
24 VDC, 0.5A, Sourcing, Connector, load short circuit protection, 32 outputs (Group2)	12 - 24 VDC, 0.5A, Sourcing, Connector, load short circuit protection, 32 outputs	connector for 32 outputs.	circuit ->16 points/common x2 circuits) 2) Output circuit specification Output capacity (0.5A/point, 5A/Unit -> 0.5A/point, 2.5A/Common, 5A/Unit) Residual voltage (0.8V->1.5V) ON response time (0.1ms->0.5ms) OFF response time (0.3ms->1ms) 3) Internal current consumption (5VDC:180mA -> 270mA)

<Transistor Output Units>

C200H Series Unit	Corresponding CS1-series Unit	Description	Difference
C200H-OD219	CS1W-OD261	Transistor Output Units with	1) Number of circuit (32 points/common x2
4.5 to 26.3 VDC, Sinking,	12-24 VDC, 0.3A, Sinking,	connector for 64 outputs	circuit ->16 points/common x4 circuits)
0.1A, Connector, 64 outputs	Connector, 64 outputs		Output circuit specification
(Group2)			Output voltage range (5 to 24 VDC-> 12 to
			24VDC)
			Residual voltage (0.8V->1.5V)
			ON response time (0.1ms->0.5ms)
			OFF response time(0.4ms->1ms)
			Internal current consumption
			(5VDC:270mA->390mA)

<TTL Output Unit>

C200H Series Unit	Corresponding CS1-series Unit	Description	Difference
C200H-OD501		TTL Output Unit with connector for 32 outputs. The CS1-series does not	
5 VDC, 35A, Connector, 32 outputs (Special I/O)	No replacement model	have the same type of Unit. Continue using this Unit or use Transistor Output Unit (CS1W-OD231) or TTL Input/Output Unit (CS1W-MD561) instead.	

Triac Output Unit>

<triac output="" unit=""></triac>			
C200H Series Unit	Corresponding CS1-series Unit	Description	Difference
C200H-OA223 250VAC, 1.2A, Terminal block, 8 outputs C200H-OA221 250VAC, 1.2A, Terminal block, 8 outputs	CS1W-OA201 250VAC, 1.2A, Terminal block, 8 outputs CS1W-OA201 250VAC, 1.2A, Terminal block, 8 outputs	Triac Output Units with terminal block for 8 outputs. Triac Output Units with terminal block for 8 outputs.	1) Terminal block 2) Output circuit specification Max. Inrush Current (15A: Pulsewidth 100ms, 30A: Pulsewidth 10ms->10A: Pulsewidth 100ms and 20A: Pulsewidth 10ms) 3) Internal current consumption (5VDC:180mA->230mA) 1) Terminal block 2) Output circuit specification Max. Inrush Current (No regulation ->10A: Pulsewidth 100ms and 20A: Pulsewidth 10ms) Residual voltage (1.2VAC-> 50 to 1200mA: 1.5VAC 10 to 50mA: 5VAC) OFF response time (1/2 of load frequency or less -> 1/2 of load frequency+1 ms or less) 3) Internal current consumption
000011 0 1007	004114 0 4044	Trian Control II ii iii	(5VDC:140mA->230mA) 1) Terminal block
C200H-OA224 0.5 A 250 V AC, 0.5A, Terminal block, 12 outputs	CS1W-OA211 0.5 A 250 V AC, 0.5A, Terminal block, 16 outputs	Triac Output Units with terminal block for 12 outputs. Replace this unit with a Triac Output Unit with 16 outputs.	2) Output points (12 -> 16 points) 3) Number of circuit (12 points/common x1 circuit ->8 points/common x2 circuits) 4) Output circuit specification Max. Switching Capacity (0.5 A 250 V AC, 2 A/Unit -> 0.5 A 250 V AC, 2 A/common, 4 A/Unit) Max. Inrush Current (10A: pulse width: 100 ms, 20A: pulse width: 10 ms-> 15A: pulse width: 10ms) Min. Switching Capacity (10VAC: 100mA, 24VAC: 50mA, 100VAC: 10mA->75VAC: 50mA) Residual voltage (1.5 V AC max. (50 to 500 mA)/5 -> 1.6 VAC (10 to 50 mA) 5) Internal current consumption (5VDC:270mA->406mA)
C200H-OA222V	CS1W-OA211	Triac Output Units with	1) Terminal block
250 V AC, 0.3A, Terminal block, 12 outputs (CE)	0.5 A 250 V AC, 0.5A, Terminal block, 16 outputs	terminal block for 12 outputs. Replace this unit with a Triac Output Unit with 16 outputs.	2) Output points (12 -> 16 points) 3) Number of circuit (12 points/common x1 circuit ->8 points/common x2 circuits) 4) Output circuit specification Max. Inrush Current (No regulation ->15A: Pulsewidth 10ms) Min. Switching Capacity (10 VAC: 10 mA (resistive load)/40 mA (inductive load) -> 75VAC:50mA Residual voltage(1.2VAC->1.6VAC) 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 (5VDC:200mA->406mA)

■Input/Output Units

- (1) The CS1-series has two Input/Output Units: CS1W-MD261 and MD561. The unit area allocation is different from C200H-series input/output units, since the number of input/output of CS1-series unit is 32 points each.
- (2) C200H-series Units can be used with CS1-series CPU Unit.
- (3) Refer to related manuals for details, even if functions of C200H-series are supported by CS1-series Units, since a part of specifications may differ.

<DC Input/Transistor Output Unit>

C200H Series Unit	Corresponding CS1-series Unit	Description	Difference
C200H-MD115		Input/Output Unit with connector for 16 inputs/16 outputs. The CS1-series does not have the same type of Unit. Use this Unit with CS1, or use CS1W-MD261 or MD561 instead.	
12VDC/16 inputs, 12VDC/16 outputs (Sinking), Connector (Special I/O)	No replacement model		
C200H-MD215 24VDC/16 inputs, 5 to 24VDC/16 outputs (Sinking), Connector (Special I/O)	No replacement model	Input/Output Unit with connector for 16 does not have the same type of Unit. Use this Unit with CS1, or use CS1W-N	·

<TTL Input/Output Units>

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C200H Series Unit	Corresponding CS1-series Unit	Description	Difference
C200H-MD501	Input/Output Unit with connector for 16 inputs/16 outputs. The		inputs/16 outputs. The CS1-series
5 VDC/16 inputs, 5 VDC/16	No replacement model	does not have the same type of Unit.	
outputs, Connector (Special	No replacement model	Use this Unit with CS1, or use CS1W-N	MD261 or MD561 instead.
I/O)			

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