



このとき、システムが安全側に動作するよう、PLC外部で対策 を施してください。

(4) PLCのDC24V出力(サービス電源)が過負荷の状態または短絡 されると、電圧が降下し、出力はOFFとなることがあります。 このとき、システムが安全側に動作するよう、PLC外部で対策 を施してください。

信号線の断線、瞬時停電による異常信号などに備えて、ご使用者側 でフェールセーフ対策を施してください。

異常動作により、重大な事故につながる恐れがあります。

⚠注意

サイクルタイムが延びても影響がないことを確認してから、 オンラインエディットをしてください。 入力信号を読み取れないことがあります。



- 運搬や保存時は、LSI、ICなどの静電気による破壊防止のため、回路基板を導電性のもので覆い、保存温度範囲に保ってください。
 回路基板には電気部品のリードなど鋭利な部分がありますので、部品実装部や基板の裏面に直接手を触れないでください。
 コネクタの組み立て配線は、ピン番号を十分確認してから行ってください。
- 配線は指示された方法で行ってください。

- 接続ケーブルは各ユニットのマニュアルに記載されている専用ケーブルを使用して ださい。市販の一般パソコン用RS-232Cケーブルを使用すると、外部機器およびCPU ユニットが故障する恐れがあります。
- CPUユニットのRS-232Cボートの6番ピン(+5V電源)は、変換アダプタ 形NT-AL001/形CJ1W-CIF01以外の外部機器には接続しないでください。外部機器および CPUユニットが故障する恐れがあります。
- 機種によって電源投入時の動作モードが異なります。詳細は各マニュアルを参照して ください.
- メモリカードのアクセス中はPLC本体の電源を切ったり、引き抜いたりしないでくだ さい。メモリカードの引き抜きは、メモリカード給電停止ボタンを押して、BUSY LEDが消えた後で行ってください。 ● ベースユニット 形CS1D-BC/BI□□□には、電源ユニット 形C200HW-PA/PD□□□
- を装着しないでください。システム停止の原因になります。 電源ユニット 形CS1D-PA/PD□□□は、形CS1D-BC/BI□□□□以外のベースユニット
- ■は、ニー・ルC3DPしては、CPUペースコニット 形CSID-BC052に、二重化システム用のCPU二重化システムでは、CPUペースユニット 形CSID-BC052に、二重化システム用のCPUユニット 形CSID-CPU□□Hを装着してください。他のCPUユニッ
- トを装着すると誤動作の原因になります。 CSID CPU単独システムでは、CPUペースユニット 形CSID-BC82Sに、単独システ ム用のCPUユニット 形CSID-CPU□□Sを装着してください。他のCPUユニットを
- おしがはシニノーがしているし、目的なくなりが成分からします。
 ユニットのオンライン交換は、接続された外部機器が、必ず動作しない状態で行ってください。ユニットの誤出力により、装置や機械が想定外の動作をする恐れがあ
- ります。
- リま9。
 ユニットのオンライン交換を行うときは、マニュアル記載の交換方法で行ってください。
 オンライン交換するユニットは、同一仕様のユニットとしてください。
 不適切なデータリンクテーブルやパラメータが設定されていると、設備が予期しない 動作をする恐れがあります。また適切なデータリンクテーブルやパラメータが設定さ れている場合でも、設備に影響がないことを確認してから、データリンクの起動/停 せた名。マイダざい
- 止を行ってください ● ルーチングテーブルを周辺ツールからPLC本体に転送すると、CPU高機能ユニットに リセットがかかります。これは、設定したルーチングテーブルを読み込んで有効にす るためです。リセットがかかっても設備に影響がないことを確認してから転送を実行

正しい使い方

- 参照マニュアルに示す通り、正しく設置してください。
- 次のような環境には設置しないでください。

してください。

- ・日光が直接当たる場所
 ・周囲温度や相対湿度が仕様値の範囲を超える場所 ・温度の変化が急激で結露するような場所
- ・腐食性ガス、可燃性ガスのある場所
 ・ちり、ほこり、塩分、鉄粉が多い場所
 ・水、油、薬品などの飛沫がかかる場所
- ・本体に直接振動や衝撃が伝わる場所
- 次のような場所で使用する際は、遮蔽対策を十分に行ってください。 ・静電気などによるノイズが発生する場所
 - ・強い電界や磁界が生じる場所
- ・放射能を被曝する恐れのある場所 ・電源線が近くを通る場所

ご承諾事項

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- 100 (日本がのる場白はKie a y)。
 (a) 高い安全性が必要とされる用達(例:原子力制御設備、燃焼設備、航空・宇宙設備、鉄道設備、昇降設備、娯楽設備、医用機器、安全装置、その他生命・身体に危険が及びうる用途)
 (b) 高い信頼性が必要な用途(例:ガス・水道・電気等の供給システム、24時間連続運転システム、決済システムほか権利・財産を取扱う用途など)
- (c) 厳しい条件または現境での用途(例:屋外に設置する設備、化学的汚染を被る設備、電磁的妨害を被 る設備、振動・衝撃を受ける設備など)
- なび間、状型・質学を定ける広開など) (d) カタログ等に記載のない条件や環境での用途 *(a)から(d)に記載されている他、本カタロプ等記載の商品は自動車(二輪車含む。以下同じ)向けではありません。自動車に搭 載する用意には利用しないで下さい。自動車搭載用商品については当社含業担当者にご相談ください。 *上記は適合用値の条件の一部です。当社のベスト、総合カタログ、データシート等最新版のカタログ、マニュアルに記載の保証・ 免責事項の内容をよく読んでご使用ください。

■参照マニュアル

形式/マニュ	アル名称	マニュアルNo
CS1G/H-CPU	ユーザーズマニュアル	SBCA-301
CS1G/H-CPU□□H	セットアップ編	
CS1D-CPU	デュプレックスシステム	SBCA-318
CS1D-CPU□□S	ユーザーズマニュアル セットアップ編	
CS1G/H-CPU	ユーザーズマニュアル プログラミング編	SBCA-313
CS1G/H-CPU□□H	コマンドリファレンス	SBCA-302
CJ1G-CPU□□	「予信ココンドリフラレンフ	CDCA 204
CJ1G/H-CPU□□H	一通信コマンドリファレンス	56CA-304
CS1W-SCB21/41(-V1)	シリアルコミュニケーションボード	SBCD 200
CS1W-SCU21(-V1)	シリアルコミュニケーションユニット	3600-300
CS1W-ETN01/11	イーサネットユニット	SBCD-307
CS1W-ETN21	Ethernetユニット(100BASE-TXタイプ)	
	基本ネットワーク構築編	SBCD-329
	アプリケーション構築編	SBCD-330
CS1D-ETN21D	ユーザーズマニュアル	SBCD-332
DeviceNet	ユーザーズマニュアル	SCCC-308
CS1W-DRM21(-V1)	DeviceNetユニット	SBCD-314
C200HW-DRM21-V1	DeviceNetマスタユニット	SBCD-312
C200HW-DRT21	DeviceNetスレーブユニット	SBCD-305
C200HW-SRM21-V1	CompoBus/Sユニット	SCCC-307
C200H-LK401	PCリンクユニット	SBCC-325
C200H-RM001-PV1	SYSBUSリモートI/O 関連ユニット	SBCC-404
C200H-RT001/002-P	(光タイプ)	
C200H-RM201	SYSBUSリモートI/O 関連ユニット	SBCC-413
C200H-RT201/202	(ワイヤタイプ)	
CS1W-CLK21-V1 CS1W-RPT01/02/03	Controller Linkユニット(ワイヤタイプ) リピータユニット	SCCC-326

形式/マニュアル名称		マニュアルNo
CS1W-CLK12-V1	Controller Linkユニット	SBCD-311
CS1W-CLK52-V1	(光リンクタイノ)	SDCD-311
C200HW-ZW3DV2-V2	Controller Linkサホートソフト	SBCD-310
	JCPN-1ユニット ICPN 1世ポートツール	SCCC-343
C200HW-2W3FC3		SBCD-323
C200H-ID501/215	る占入出力フェット	SBCC-420
C20011-1D301/213	シニハロリエー ノト カスタマイザブルカウンタフェット	3000-420
	ユーザーズマニュアル	SBCC-827
	コマンドリファレンス	SBCC-828
CS1W-HCA12-V1/	カスタマイザブルカウンタユニット	SBCC-833
HIO01-V1/HCP22-V1/	ユーザーズマニュアル	
		6000 000
	ノロセス人出力ユニット	SBCC-826
CJ1W-PTS		
CS1W-LC001	ループコントロールユニット	
	ユーザーズマニュアル	SBCC-821
	計器ブロックリファレンスマニュアル	SBCC-822
CS1W-LCB01/05	ーループユントロールボード	6000 004
CSTD-LCB05D (形CS1D-CPU□□P内蔵ボード)	ユーリースマニュアル 計 <u>界ブロックリファレンスマニュアル</u>	SBCC-834
		3000-000
WSGE ECTOR'S	ツールソフト オペレーションマニュアル	SBCC-823
	モニタソフト オペレーションマニュアル	SBCC-824
CS1W-GPI01	GP-IBインタフェースユニット	SBCC-832
CS1W-AD041(-V1)/081(-V1)		
CS1W-DA041/08V/08C	ヱナログ入力ユニット	0000.000
$C_{11}W_{A}D_{041}V_{1}O_{01}(V_{1})$	アナロク出力ユーツト アナログ入出力ユーット	SBCC-820
C 11W-DA021/041/08V	ууцу <u>х</u> шл <u>т</u> ук	
CJ1W-MAD42		
C200H-AD003	アナログ入力ユニット	
C200H-DA003/004	アナログ出力ユニット	SCCC-338
C200H-MAD01		0000 571
C200H-AD001/002	アナロク人刀ユニット ヌナログ出力ユニット	SBCC-571
	ファロクロカユーット	SBCC 422
	温度 ビングエークト	SBCC-422
	加熱冷却制御フェット	SBCC-554
$C200H-PID01\sim03$		SBCC-555
CS1W-CT021/041	Помфессии	SBCC-829
C200H-CT021	宮連カウンタフェット	SCCC-311
C200H-CT001-V1/002	同述パリシリュニット	SBCC-405
CS1W-NC113/213/413/133		3800 100
/233/433		SBCE-311
C200HW-NC113/213/413		SCCC-344
C200H-NC111	位直制御ユニット	SBCC-406
C200H-NC112		SBCC-423
C200H-NC211		SBCC-446
C200H-CP114	カムポジショナユニット	SBCC-535
CS1W-MC421/221	モーションコントロールユニット	SBCE-306
CS1W-MCH71	モーションコントロールユニット	SBCE-321
WS02-MCTC1-J	CX-Motion	SBCE-305
C200H-MC221	モーションコントロールユニット	
	- 導入編 	SCCC-314
CV/500 7N/2DC1/7N/2DV/1	所の補	SCCC-315
	モノーチングボックフ	SCCC 227
	ティーチングボックス	SBCC-563
C200H-ASC02	<u> </u>	SBCC-442
C200H-ASC11/21/31	ASCIIユニット	SCCC-324
C200H-IDS01-V1/21	IDセンサユニット	SBCC-437
C200H-FZ001	ファジィ推論ユニット	SBCC-492
C200H-OV001	音声ユニット	SBCC-453
WS02-CXPC1-JV2	CX-Programmer (Ver. 2.0)	SBCA-305
WS02-CXPC1-JV3	CX-Programmer (Ver. 3.0)	SBCA-316
WS02-CXPC1-JV4	CX-Programmer (Ver. 4.0)	SBCA-322
	$\frac{1}{1} \frac{1}{1} \frac{1}$	SBCA 200
	CX-Net	SBCA-300
	オペレーションマニュアル	5557 525
WS02-PSTC1-J	CX-Protocol	SBCA-307
WS02-SIMC1-J	CX-Simulator	SBCA-310
CQM1H-PRO01		
CQM1-PRO01	フログラミングコンソール	SBCA-303
UZUUH-PKUZI		

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お断りなく仕様などを変更することがありますのでご了承ください。

SYSMAC CS-series Programmable Controllers **Safety Precautions**

OMRON

1618379-7B

OMRON Corporation

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Thank you for purchasing an OMRON Programmable Controller (PLC). To ensure safe operation, please be sure to read the safety precautions provided in this document along with all of the user manuals for the Programmable Controller. Please be sure you are using the most recent versions of the user manuals. Contact your nearest OMRON repre-

I Caution

General Precautions

The user must operate the product according to the performance specifications described in the operation manuals.

Before using the product under conditions which are not described in the manual or applying the product to nuclear control systems, railroad systems, aviation systems, vehicles, combustion systems, medical equipment, amusement machines, safety equipment, petrochemical plants, and other systems, machines, and equipment that may have a serious influence on lives and property if used improperly, consult your OMRON representative Make sure that the ratings and performance characteristics of the product are sufficient for the systems, machines, and equipment, and be sure to provide the systems, machines, and equipment with double safety mechanisms.

Safety Precautions

Definition of Precautionary Information

damage

Indicates an imminently hazardous situation which, avoided, will result in death or serious injury.	if not
Indicates a potentially hazardous situation which, avoided, could result in death or serious injury.	if not

✓! Caution Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, or property

Warnings and Cautions

/!\WARNING Do not attempt to take any Unit apart while the power is being supplied. Doing so may result in electric shock.

Do not touch any of the terminals or terminal blocks while the power is being supplied. Doing so may result in electric

Do not attempt to disassemble, repair, or modify any Units. Any attempt to do so may result in malfunction, fire, or electric

/!\ WARNING Provide safety measures in external circuits, i.e., not in the Programmable Controller (CPU Unit including associated Units; referred to as "PLC"), in order to ensure safety in the system if an abnormality occurs due to malfunction of the PLC or another external factor affecting the PLC operation. Not doing so may result in serious accidents

· Emergency stop circuits, interlock circuits, limit circuits, and similar safety measures

must be provided in external control circuits.

- The PLC will turn OFF all outputs when its self-diagnosis function detects any error or when a severe failure alarm (FALS) instruction is executed. As a countermeasure for such errors, external safety measures must be provided to ensure safety in the system.
- The PLC outputs may remain ON or OFF due to deposition or burning of the output re-
- lays or destruction of the output transistors. As a countermeasure for such problems external safety measures must be provided to ensure safety in the system. When the 24-VDC output (service power supply to the PLC) is overloaded or short-circuited, the voltage may drop and result in the outputs being turned OFF. As a countermeasure for such problems, external safety measures must be provided to ensure

safety in the system.

(I) WARNING	Fail-safe measures must be taken by the customer to ensure safety in the event of incorrect, missing, or abnormal signals caused by broken signal lines, momentary power interruptions, or other causes. Not doing so may result in serious accidents.
Caution	Pay careful attention to the polarities (+/-) when wiring the DC power supply. A wrong connection may cause malfunction o the system.
Caution	Execute online edit only after confirming that no adverse effects will be caused by extending the cycle time. Otherwise the input signals may not be readable.
<u>(</u> Caution	Confirm safety at the destination node before transferring a program to another node or editing the I/O area. Doing either of these without confirming safety may result in injury.
<u>(</u> Caution	Tighten the screws on the terminal block of the AC Power Supply Unit to the torque specified in the operation manual The loose screws may result in burning or malfunction.
	Do not touch the Power Supply Unit during power-on, and im mediately after power-off. Hot surface may cause heat injury
/!\ Caution	After programming (or re-programming) using the IOWR

instruction, confirm that correct operation is possible with the new ladder program and data before starting actual operation. Any irregularities may cause the product to stop operat-ing, resulting in unexpected operation in machinery or equipWhen the battery power is low or when no battery is inserted with the CS1G/H/D-CPU \square H/S Units, the contents of the user memory are saved in non-volatile memory. (Operation is not stopped due to a memory error.) Accordingly, the PLC System can be operated even when the battery power is low or no battery is inserted, but the DM and EM areas become unstable in this condition. When the contents of the DM and EM areas are output with a program, use the Battery Error Flag to stop output.

Caution is required when connecting peripheral devices, such as a personal computer, to the PLC when Units with non-isolated power supplies, such as the CS1W-CLK12/CLK52 (-V1), that are connected to an external power supply are mounted to the PLC. If the 24-V side is grounded on the external power supply, a short will be created if the 0-V side of the peripheral device is grounded. When connecting peripheral devices, either ground the 0-V side of the external power supply or do not ground the external power supply at

Operating Environment Precautions

- /!\Caution Do not operate the control system in the following places:
- Locations subject to direct sunlight · Locations subject to temperatures or humidity outside the range specified in
- the specifications
- · Locations subject to condensation as the result of severe changes in temperature
- · Locations subject to corrosive or flammable gases
- Locations subject to dust (especially iron dust) or salts
- · Locations subject to exposure to water, oil, or chemicals
- Locations subject to shock or vibration
- /!\ Caution Take appropriate and sufficient countermeasures when installing systems in the following locations:
- · Locations subject to static electricity or other forms of noise
- Locations subject to strong electromagnetic fields
- Locations subject to possible exposure to radioactivity
- Locations close to power supplies
- /!\Caution The operating environment of the PLC System can have a large effect on the longevity and reliability of the system. Improper operating environments can lead to malfunction, fail-ure, and other unforeseeable problems with the PLC System. Be sure that the operating environment is within the specified conditions at installation and remains within the specified conditions during the life of the system.

Application Precautions

- /!\ WARNING Always heed these precautions. Failure to abide by the following precautions could lead to serious or possibly fatal
- injury. Always connect to 100 Ω or less when installing the Units. Not connecting to a
- ground of 100 Ω or less may result in electric shock. Always turn OFF the power supply to the PLC before attempting any of the follow-
- Ing. Not turning OFF the power supply may result in malfunction or electric shock.
 Mounting or dismounting Power Supply Units, I/O Units, CPU Units, or any other Units
- Assembling the Units
- Setting DIP switches or rotary switches
- Connecting or wiring the cables
- Connecting or disconnecting the connectors
- /!\Caution Failure to abide by the following precautions could lead to faulty operation of the PLC or the system, or could damage the PLC or PLC Units. Always heed these precautions.
 Always use the power supply voltage specified in the operation manuals. An incor-
- rect voltage may result in malfunction or burning.
 Take appropriate measures to ensure that the specified power with the rated volt-
- age and frequency is supplied. Be particularly careful in places where the power supply is unstable. An incorrect power supply may result in malfunction. Install external breakers and take other safety measures against short-circuiting in
- external wiring. Insufficient safety measures against short-circuiting may result in
- burnina · Do not apply voltages to the Input Units in excess of the rated input voltage. Excess voltages may result in burning.
- Do not apply voltages or connect loads to the Output Units in excess of the maxi-
- mum switching capacity. Excess voltage or loads may result in burning.Disconnect the functional ground terminal when performing withstand voltage tests.
- Not disconnecting the functional ground terminal may result in burning. Install the Unit properly as specified in the operation manual. Improper installation
- of the Unit may result in malfunction. Be sure that all the mounting screws, terminal screws, and cable connector screws are tightened to the torque specified in the relevant manuals. Incorrect tightening torque may result in malfunction.

- · Do not allow wire clippings, shavings, or other foreign material to enter any Unit. Otherwise, Unit burning, failure, or malfunction may occur. Cover the Units or take other suitable countermeasures, especially during wiring work. • Do not allow foreign matter to enter the openings in the Unit. Doing so may result in
- Unit burning, electric shock, or failure.
- Use crimp terminals for wiring. Do not connect bare stranded wires directly to termi-nals. Connection of bare stranded wires may result in burning.
- · Wire correctly and double-check all the wiring or the setting switches before turning ON the power supply. Incorrect wiring may result in burning. Mount the Unit only after checking the connectors and terminal blocks completely.
- Be sure that the terminal blocks, connectors, Memory Cards, expansion cables, and other items with locking devices are properly locked into place. Improper locking may result in malfunction
- Check the user program for proper execution before actually running it on the Unit. Not checking the program may result in an unexpected operation.
- . Check that the DIP switches and data memory (DM) are properly set before starting operation
- Set the Detect Low Battery Bit in the PLC Setup to "do not detect" before starting battery-less operation.
 Confirm that no adverse effect will occur in the system before attempting any of the
- following. Not doing so may result in an unexpected operation.
- Changing the operating mode of the PLC.
- Force-setting/force-resetting any bit in memory
- Changing the present value of any word or any set value in memory.
 Do not turn OFF the Unit's power supply while transferring or backing up data. CS1G/H/D-CPU H/S Units require a particularly long time to back up. Do not turn OFF the power while the BKUP indicator is lit. The data will not be backed up if power is turned OFF.
- · Before turning OFF the power supply, confirm that the Units will start in the ap-
- propriate operating modes the next time the power supply is turned ON. Resume operation only after transferring to the new CPU Unit and/or Special I/O Units the contents of the DM and HR Areas required for resuming operation. Not doing so may result in an unexpected operation.
- Do not pull on the cables or bend the cables beyond their natural limit. Doing either of these may break the cables.
- Do not place objects on the cables. Doing so may break the cables.
- Use the dedicated connecting cables specified in operation manuals to connect the Units. Using commercially available RS-232C computer cables may cause failures in external devices or the CPU Unit.
- Do not connect pin 6 (+5V) on the RS-232C port on the CPU Unit to any external device other than the NT-AL001 or CJ1W-CIF01 Conversion Adapter. The external device and the CPU Unit may be damaged.
- Do not turn OFF the power supply to the PLC or remove the Memory Card while the Memory Card is being accessed. Before removing a Memory Card, press the button to stop power supply to the Memory Card and wait for the BUSY indicator to go out.

Reference Manuals

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sentative to obtain manuals. Keep these safety precautions and all user manuals in a safe location and be sure that they are readily available to the final user of the products.

/!\ Caution

- When replacing parts, be sure to confirm that the rating of a new part is correct. Not doing so may result in malfunction or burning.When replacing the battery for a Unit, be sure to follow the procedure described in
- that Unit's operation manual. Before touching the Unit, be sure to first touch a grounded metallic object in order to
- discharge any static built-up. Not doing so may result in malfunction or damage
- Do not turn OFF the power supply to the Unit while data is being transferred.
 When transporting or storing the product, cover the PCBs with electrically conducted and the product of the PCBs with electrical stored and the product of the PCBs with electrical stored and the product of the PCBs with electrical stored and the product of the PCBs with electrical stored and the product of the PCBs with electrical stored and the product of the PCBs with electrical stored and the product of the PCBs with electrical stored and the product of the PCBs with electrical stored and the product of the PCBs with electrical stored and the product of the pro tive materials to prevent LSIs and ICs from being damaged by static electricity, and also keep the product within the specified storage temperature range.
- Do not touch the mounted parts or the rear surface of PCBs because PCBs have sharp edges such as electrical leads. · Double-check the pin numbers when assembling and wiring the connectors
- Wire correctly according to specified procedures
- The operation mode upon turning the power ON varies depending on the model. Befer to the user manual for details
- Do not mount a C200HW-PA/PD
 Power Supply Unit to a CS1D-BC/BI Backplane. Otherwise the system will stop.
 Do not mount a CS1D-PA/PD D Power Supply Unit to any Backplane other than
- a CS1D-BC/BI
- In a CS1D Duplex-CPU Duplex System, always mount CS1D-CPU H Duplex-CPU System CPU Units to the CS1D-BC052 CPU Backplane. Faulty operation will occur if any other CPU Unit is mounted. In a CS1D Single-CPU Duplex System, always mount a CS1D-CPU S Single-
- CPU System CPU Unit to the CS1D-BC82S CPU Backplane. Faulty operation will occur if any other CPU Unit is mounted.
- Do not mount a CS1D-CPU H/S CPU Unit to a CS1W-BC (non-CS1D) CPU Backplane. Otherwise, faulty operation will occur.Always confirm that connected external devices are not operating before performing
- online replacement of Units. Not doing so may result in faulty outputs and unex-pected operation in the device or controlled system.
- Follow the procedure in the Operation Manual when performing online replacement of Units.
- · When performing online replacement of a Unit, always replace the Unit with one with the same specifications
- Check that data link tables and parameters are properly set before starting operation. Not doing so may result in unexpected operation. Even if the tables and parameters are properly set, confirm that no adverse effects will occur in the system before running or stopping data links.
- Transfer a routing table to the CPU Unit only after confirming that no adverse effects will be caused by restarting CPU Bus Units, which is automatically done to make the new tables effective.

user manuals in order to use the PLC safely and properly. Be sure you are using the most current version of the manual

Name	Cat No.
C200H-CT021 High-speed Counter Units Operation Manual	W311
C200H-CT001-V1/002 High-speed Counter Units Operation Manual	W141
CS1W-NC113/213/413/133/233/433 Position Control Unit Operation Manual	W376
C200H-NC111 Position Control Unit Operation Manual	W137
C200H-NC112 Position Control Unit Operation Manual	W128
C200H-NC211 Position Control Unit Operation Manual	W166
C200HW-NC113/213/413 Position Control Unit Operation Manual	W334
C200H-CP114 Cam Positioner Unit Operation Manual	W224
CS1W-MC421/221 Motion Control Unit Operation Manual	W359
CS1W-MCH71 Motion Control Unit Operation Manual	W419
C200H-MC221 Motion Control Unit Operation Manual: Introduction	W314
C200H-MC221 Motion Control Unit Operation Manual: Details	W315
CV500-ZN3AT-E MC Support Software Operation Manual	W256
CVM1-PRO01 Teaching Box Operation Manual	W320
C200H-ASC02 ASCII Unit Operation Manual	W165
C200H-ASC11/21/31 ASCII Unit Operation Manual	W306
C200H-IDS01-V1/IDS21 ID Sensor Operation Guide	W153
C200H-FZ001 Fuzzy Logic Unit Operation Manual	W208
C200H-OV001 Voice Unit Operation Manual	W172
WS02-CXPC1-E CX-Programmer User Manual	W361
WS02-CXPC1-EV4 CX-Programmer (Ver. 4.0) Operation Manual	W425
CX-Server User Manual	W362
CX-Protocol Operation Manual	W344
CX-Simulator Operation Manual	W366
CS/CJ-series CQM1H-PR001-E/CQM1-PR001-E/C200H-PR027-E Programming Consoles Operation Manual	W341

OMRON Corporation Industrial Automation Company Kyoto, JAPAN

Contact: www.ia.omron.com

Regional Headquarters

OMRON EUROPE B.V. The Netherlands Tel: (31)2356-81-300 Fax: (31)2356-81-388

OMRON ELECTRONICS LLC Wegalaan 67-69,2132 JD Hoofddorp 2895 Greenspoint Parkway, Suite 200 Hoffman Estates, IL 60169 U.S.A. Tel: (1) 847-843-7900 Fax: (1) 847-843-7787

OMRON ASIA PACIFIC PTE. LTD. OMRON (CHINA) CO., LTD. No. 438A Alexandra Road #05-05/08 Room 2211, Bank of China Tower,

(Lobby 2), Alexandra Technopark, 200 Yin Cheng Zhong Road, Singapore 119967 Tel: (65) 6835-3011 Fax: (65) 6835-2711

Pu Dong New Area, Shanghai, 200120, China Tel: (86) 21-5037-2222 Fax: (86) 21-5037-2200

Note: Specifications subject to change without notice. Printed in Japan