

安全上のご注意

OMROD

このたびは当社のプログラマブルコントローラ(PLC)をお買い求めいた だきまして誠にありがとうございました。 安全にご使用いただくために、本紙と PLC 本体のマニュアルおよび当該ユ ニットの参照マニュアルを必ずお読みください。 参照マニュアルは、当社の最寄りの営業所に連絡し、最新のものをご使用 ください

また本紙と参照マニュアルは、大切に保管していただくとともに、最終ユ ーザー様までお届けくださいますようお願いいたします。

オムロン株式会社

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● 警告/注意表示の意味



●警告表示

▲ 警告 通電中は、ユニットを分解したり内部に触れたりしないでください。 感雷の恐れがあります。

通電中は、端子に触れないでください。 咸雷の恐れがあります

プログラマブルコントローラ(CPU ユニットおよび各ユニットを含 む、以下 PLC といいます)の故障や PLC の外部要因による異常が発 生した場合も、システム全体が安全側に働くように、PLC の外部で安 全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。
- (1) 非常停止回路、インターロック回路、リミット回路など、安全 保護に関する回路は、必ず PLC 外部の制御回路で構成してく ださい。
- (2) PLC は、自己診断機能で異常を検出したときや、運転停止故障 診断(FALS)命令を実行したとき、運転を停止して全出力を OFF にします。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。
- (3) 出力リレーの溶着や焼損、出力トランジスタの破壊などによっ て、PLC の出力が ON または OFF になったままになることが 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。
- (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。





直流電源を配線するときは、+/-極性に注意してください。 接続を誤ると、システムが異常動作をする恐れがあります。	0
IOWR命令によるユニットの設定(再設定)を行う場合は、作成した ラダーブログラムおよびデータは、十分な動作確認を行ったうえで本 運転を行ってください、設定データに不正がある場合、ユニットは運 転を停止し、装置や機械が想定外の動作をする恐れがあります。	\triangle
CPU ユニット 形 CS1G/H/D-CPU口口H/S の場合、パッテリ電圧低下 /パッテリ非実装時も、ユーザメモリは不振発メモリにて保存されます (メモリ異常による運転停止は行いません)。後って、パッテリ電圧 低下パッテリ非実装時も運転は可能ですが、この際にDM/EM は不定 となり、DM/EM の内容をブログラムを用いて出力する場合は、「電 池異常フラグ」を用いて出力を止めるなどの対策を行ってください。	\triangle
外部電源が接続された非絶縁電源タイプのユニット (形 CS1W-CLK12/13/52/53(V1)、形 CS1W-ETN01)を PLC に実 装している場合、PLC にパソコンなどの周辺機器を接続するときは注 意してください。外部電源が24V 側を接地していると、周辺機器が 0V 側の接地のときは短絡します。周辺機器と接続するときは、外部 電源を 0V 側で接地するか、あるいは接地しないでください。	

安全上の要点

●外部配線の短絡に備えて、ブレーカなどの安全対策を施してください。 ●端子台、コネクタを十分確認してから装着してください。
 ●LCのベース取り付けねじは、参照マニュアルで指定した規定トルクで締めてくださ

- ●参照マニュアルに示すとおり、正しく配線してください ●太昭マニュアルで指定した雷源雷圧で使用してください
 - ●電源事情が悪い場所では特に、定格の電圧や周波数の電源が供給できるようにしてご使
 - ●ユニット内に配線クズや切粉などが入らないようにしてください。嫌損、故障、誤動作 の原因となります。特に施工時は覆いを付けるなどの対策を行なってくだ ●ユニット開口部から異物を入れないでください。焼損、感電、故障の可能性があります。
- ●配線は圧着端子を付けてください。撚り合わせただけの電線を、直接端子台に接続しな
- ●入力ユニットには、定格入力電圧を超える電圧を印加しないでください ●出力ユニットには、最大開閉能力を超える電圧の印加および負荷の接続をしないでくだ
- ●据え付け工事の際には、必ずD種接地(第3種接地)をしてください。
- ●端子台、コネクタ、メモリカード、増設ケーブルなどロック機構のあるものは、必ずロ ックしていることを確認してからご使用ください。 ●耐電圧試験は、機能接地端子を外して行ってください。
- ●配線、スイッチなどの設定を十分確認してから通電してください。
- ●バッテリレス運転は、PLCシステム設定の「電池異常検出の有無設定」を「検出しない」 に設定してから実施してください。
- ●運転を開始する前に、ディップスイッチやデータメモリ (DM) が正しく設定されている ことを確認してください
- ●作成したユーザープログラムは、十分な動作確認を行った後、本運転に移行してくださ
- ●運転再開に必要なデータメモリや保持リレーの内容、プログラム、バラメータおよびデ ータは、交換した CPU ニニット、CPU 高機能ユニット、高機能 I/O ユニットおよび外部 に接続される機器に転送してから運転を再開してください。
- ●電源 OFF 時には、次回電源 ON 時の各ユニットの動作モードに問題がないことを確認し
- ●本製品を分解して修理や改造をしないでください。
- ・ (なん) ことを行うときは、PLC本体の電源をOFFにしてください。
 ・ 電源ユニットや I/O ユニット、CPU ユニットを着脱するとき
- ・装置を組み立てるとき
 ・ディップスイッチやロータリースイッチを設定するとき
 ・ケーブルを接続、配線するとき

- ・ワーフルを接続、記録するとき
 ・コネクタを取り付けたり、取り外したりするとき
 ●次の操作は設備に影響がないかを確認したうえで行ってください。 ・PLC本体の動作モード切り替え
 ・接点の強制セット/リセット
- 現在値や設定値の変更
- ●ケーブルを無理に曲げたり引っ張りしないでください。
- クーブルを当正しにしりつう歌りしないでくたさい。
 ケーブルやコードにものを載せないでください。
 部品を交換する際は、必ず定格が正しいことを確認した上で行ってください。
 電池交換は、対象ユニットのマニュアルを参照して行ってください。
- ●接地された金属に触れるなどして、人体の静電気を放電させてからユニットに触れてく
- ●データ転送中は電源を切らないでください。特に 形 CS1G/H/D-CPU□□H/S はバックア ップに時間がかかりますので、BKUP LED の点灯中は電源を切らないでください。変更
- 内容が反映されたい可能性があります ●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
- ●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
- ●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 消えた後に行ってく
- ●ベースユニット形 CSID-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に は装着しないでください。誤動作や焼損の原因になります。 ●CSID CPU二重化システムでは、CPUベースユニット 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ベースユニット 形CSID-BC82Sに、単独システム用 の CPU ユニット 形 CS1D-CPU□□S 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用CPUユニット形CSID-CPU□□H/Sを、CSID用以外のCPUベースユニット形
- CSIW-BC□□□には装着しないでください。誤動作の原因になります。 ●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。

●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

◆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。 ● オ道切なデータリンクテーブルペ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。また適切なでーた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/停止を行っ

テ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してく ださい。

使用上の注意

- ●参照マニュアルに示すとおり、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。 ・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、運蔵対策を十分に行ってください。
 ・静重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 ・抜射能な油曝ナス現れのなる場所 ・電源線や動力線が近くを通る場所

参照マニュアル

形式/マニ	ュアル名称	Man. No.
形 CS1G/H-CPU口口-V1	コーザーブマニュアル。セットアップ編	SBCA-301
形 CS1G/H-CPU口口H		0D0A-001
形 CS1D-CPU口口H	デュプレックスシステム	SBCA-318
形 CS1D-CPU口口S	ユーザーズマニュアル セットアップ編	000/1010
形 CS1G/H-CPU口口-V1	ユーザーズマニュアル	0004.040
形 CS1G/H-CPU口口H	プログラミング編	3DCA-313
# CS1D-CPU∐US		0004 000
	1428928028	SBCA-302
	通信コマンドリファレンス	SBCA-304
R CS1W-SCBDD-V1	シリアルコミュニケーションボード	
₩ CS1W-SCUDD-V1	シリアルコミュニケーションコニット	SBCD-300
€ C200H-ASC11/21/31		SCCC-324
形 CS1W-ETN01/11	Ethernet 7 = W h	SBCD-307
E CS1W-ETN21	Ethernet 7 = w b (100BASE-TX タイプ)	0000-007
J9 00111-E11121	其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
形 CS1W-ETN21D	Ethernet ユニット	SBCD-332
形 CS1W-EIP21	EtherNet/IP ユニット	SBCD-342
形 CS1W-CRM21	CompoNet マスタユニット	SBCD-338
形 CS1W-FLN22	FL-net ユニット(100BASE-TX タイプ)	SBCD-334
DeviceNet	ユーザーズマニュアル	SCCC-308
形 CS1W-DRM21 (-V1)	DeviceNet ユニット	SBCD-314
形 C200HW-DRM21-V1	DeviceNet マスタユニット	SBCD-312
形 DRT1 シリーズ	DeviceNet スレーブ	SBCD-305
形 DRT2 シリーズ	DeviceNet スレーブ	SBCD-324
形 GRT1-DRT	SmartSlice DeviceNet 通信ユニット	SBCD-336
形 GRT1 シリーズ	SmartSlice スライス I/O ユニット	SBCD-337
形 C200HW-SRM21-V1	CompoBus/S ユニット	SCCC-307
形 C200H-LK401	PC リンクユニット	SBCC-325
形 C200H-RM001-PV1	SYSBUS リモート I/O 関連ユニット	SBCC-404
形 C200H-RT001/002-P	(光タイプ)	
形 C200H-RM201	SYSBUS リモート I/O 関連ユニット	SBCC-413
#\$ C200H-R1201/202	(717917)	
# CS1W-SLK11/SLK21	CS SU-X SYSMAC LINK 1= UF	SBCD-309
# CS1W-CLK23/21-V1	Controller Link ユニット (ワイヤタイフ)	SCCC-326
# CS1W-RP101/02/03		
75 CS1VV-CLK13/12-V1	Controller Link エーット (半山、ガタイプ)	SBCD-311
IS CS1W-CER53/32=V1		CDCC 022
	853 H h h h h	SBCC*032
// 0200111D301/213	シニハロハユーンド カスタフイポブルカウンタコニット	0000-420
形 CS1W-HIO01-V1/HCP22-V1	ユーザーズマニュアル	SBCC-827
/HCA22-V1/HCA12-V1	コマンドリファレンス	SBCC-828
形 CS1W-HIQ01-V1/HCP22-V1		2200 020
/HCA22-V1/HCA12-V1	カスタマイザブルカウンタユニット	SBCC-833
	1	
PTRDD/PPS01/PMVDD	プロセス入出力ユニット	SBCC-826
形 CJ1W-PTSロロ/PDCロロ		
	ループコントロールユニット	
形 CS1W-LC001	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
	ループコントロールボード/プロセス	
形 CS1W-LCB01/05	CPU ユニット/ループ CPU ユニット	
形 CS1D-CPU口口P	ユーザーズマニュアル	SBCC-834
	計器フロックリファレンスマニュアル	SBCC-835
形 CS1W-AD041-V1/081-V1/161	アナログ入力ユニット	
形 CS1W-DA041/08V/08C	アナログ出力ユニット	SBCC-820
形 CS1W-MAD44	アナログ入出力ユニット	
# C200H-AD003	アナログ入力ユニット	
# C200H-DA003/004	アナロク出力ユニット	SCCC-338
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形式/マニュアル名称		Man. No.
形 C200H-AD001/002	アナログ入力ユニット	0000 574
形 C200H-DA001/002	アナログ出力ユニット	SBCC-5/1
形 C200H-TS口口口	温度センサユニット	SBCC-422
形 C200H-TC口口口	温度調節ユニット	SBCC-534
形 C200H-TV口口口	加熱冷却制御ユニット	SBCC-554
形 C200H-PID01/02/03	PID 制御ユニット	SBCC-555
形 CS1W-CT021/041		SBCC-829
形 C200H-CT021	高速カウンタユニット	SCCC-311
形 C200H-CT001-V1/002		SBCC-405
形 CS1W-NC113/213/413/133/233/433		SBCE-311
形 CS1W-NCF71		SBCE-323
形 C200HW-NC113/213/413		SCCC-344
形 C200H-NC111	位置制御ユニット	SBCC-406
形 C200H-NC112		SBCC-423
形 C200H-NC211		SBCC-446
形 CS1W-MC421(-V1)/221(-V1)	モーションコントロールユニット	SBCE-306
	モーションコントロールユニット	
形 C200H-MC221	導入編	SCCC-314
	解説編	SCCC-315
IK COAW MOUTA	MECHATROLINK-II通信対応モーショ	0005 004
# CSTW-MCH71	ンコントロールユニット	SBCE-321
形 C200H-CP114	カムポジショナユニット	SBCC-535
形 C200H-IDS01-V1/21	ID センサユニット	SBCC-437
形 CS1W-V600C11/12	ID センサユニット	SCLB-707
形 CQM1H-PRO01、形 CQM1-PRO01、	プログラミングコンハレール	SBCA 202
形 C200H-PRO27	519JEJ93JJ-W	3BCA-303
形 CXONE-AL口口C-JV2/AL口口D-JV2	FA 統合ツールパッケージ CX-One	SBCA-346
	Ver.2.0 セットアッフマニュアル	
形 CXONE-AL口口C-JV2/AL口口D-JV2	マニュアル	SBCA-347
	CX-Programmer (Ver.7.□)	SBCA-337
TO MORE OVER 11/7	オペレーションマニュアル	020/100/
## WS02-CXPC1-JV7	CX-Programmer (Ver.7.山)	CDCA 220
	ファンクションブロック編	3BCA-336
形 WS02-PSTC1-J	CX-Protocol	SBCA-307
形 WS02-SIMC1-J	CX-Simulator	SBCA-310
形 WS02-NCTC1-JV2	CX-Position	SBCE-324
形 CXONE-AL口口C-J	CX-Motion-MCH	SBCE-336
形 WS02-MCTC1-JV2	CX-Motion Ver.2.2	SBCE-317
形 WS02-MNTC1	CX-Motion-NCF Ver.1.3	SBCE-328
	CX-Process	
形 WS02-LCTC1-JV口	ツールソフト オペレーションマニュアル	SBCC-823
形 WS02-LCMC1-J	CX-Process モニタ Plus	SBCC-837
形 CS1W-SPU01/02	SYSMAC SPU ユニット	SBSB-526
	ユーザーズマニュアル	
形 WS02-SPTC1-V2	SYSMAC SPU ユニット 基本ソフト	SBSB-528
	SPU-Console オペレーションマニュアル	I

ご使用に際してのご承諾事項

下記用途に使用される場合、当社営業担当者までご相談のうえ仕様書などによりご確認い しただくとともに、定格・性能に対し余裕を持った使い方や、万一故障があっても危険を最 小にする安全回路などの安全対策を講じてください。 a) 屋外の用途、潜在的な化学的汚染あるいは電気的妨害を被る用途またはカタログ・取扱

説明書などに記載のない条件や環境での使用 b) 原子力制御設備、焼却設備、鉄道・航空・車両設備、医用機械、娯楽機械、安全装置、

- および行政機関や個別業界の規制に従う設備
- c) 人命や財産に危険が及びうるシステム・機械・装置
 d) ガス、水道、電気の供給システムや24時間連続運転システムなど高い信頼性が必要な

設備

¹⁰² (1) ○ その他、上記 a) ~d) に準ずる、高度な安全性が必要とされる用途 *上記は塗合用途の条件の一部です。当社のベススト、総合カタログ、データーシート等最 新版のカタログをよく読んでご使用ください。

オムロン株式会社

インダストリアルオートメーションビジネスカンパニー



【営業のお問い合わせ時間】 ■営業時間:9:00~12:00/13:00~17:30(土・日・祝祭日は休業) ■営 業 日:土・日・祝祭日/春期・夏期・年末年始休暇を除く

- ●FAXによるお問い合わせは下記をご利用ください。
- カスタマサポートセンタ お客様相談室 FAX 055-982-5051
- ●その他のお問い合わせ先 納期・価格・修理・サンプル・仕様書は貴社のお取引先、
- または貴社担当オムロン営業員にご相談ください。

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** 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 representative 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.

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**



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 shock.

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

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 accidence. 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 The PLC outputs may remain ON or OFF due to deposition or burning of the output relays 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 shortcircuited, 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.

∕!\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. Pay careful attention to the polarities (+/-) when wiring the DC power supply. A wrong connection may cause malfunction of the system. Caution 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. 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.

Caution Tighten the screws on the terminal block of the AC Power Supply Unit to the torque specified in the operation manual. The loose scre result in burning or malfunction.

Caution Do not touch the Power Supply Unit during power-on, and immediately after power-off. Hot surface may cause heat injury.

- 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 operating, resulting in unexpected operation in machinery or equipment. Caution
- When 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

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 all.

Operating Environment Precautions

- 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

- 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



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, failure, 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

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 following. 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 incorrect voltage may result in malfunction or burning.
- Take appropriate measures to ensure that the specified power with the rated voltage 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 burning.
 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 maximum switching
- capacity. Excess voltage or loads may result in burning.
- Disconnect the functional ground terminal when performing withstand voltage tests. Not
- 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 are tightened to the torque specified in the relevant manuals.
- 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.
- · 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.
- 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.

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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 appropriate operating

- 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 top of the cables. Doing so may break the cables
- 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.
- 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 conductive 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. Refer to the user manual for details
- Do not mount a C200HW-PA/PD
 Power Supply Unit to a CS1D-BC/BI
 Backplane.
- Do not mount a C200HW-PA/PD_____Power Supply Unit to a CS1D-BCBI_____Backplane. Otherwise the system will stop.
 Do not mount a CS1D-PA/PD_____Power Supply Unit to any Backplane other than a CS1D-BC/BI_____Backplane. Otherwise faulty operation or burning will occur.
 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 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 unexpected 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.

Reference Manuals

Please be sure to read the related 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.
	SYSMAC CS Series CS1G/H-CPU - EV1, CS1G/H-CPU - H	W339
	Programmable Controllers Operation Manual	
	CS Series CS1D Duplex System CS1D-CPU H, CS1D-CPU CS Operation Manual	W405
	SYSMAC CS/CJ Series CS1G/H-CPU -EV1. CS1G/H-CPU H. CS1D-CPU S.	W394
	Programmable Controllers Programming Manual	
		W340
	Programmable Controllers Instructions Reference Manual	
		W342
	Programmable Controllers Communications Commands Reference Manual	
	CS1W-SCB21-V1/41-V1_CS1W-SCI 21-V1 Serial Communications Boards/Units	W336
	Operation Manual	******
	C200H-ASC11/21/31 ASCII Unit Operation Manual	W306
	CS1W-ETN01/11 Ethernet Unit Operation Manual	W343
	CS1W-ETN21 Ethernet Unit (100Base-TX Type)	W420
	Operation Manual Construction of Networks	
	CS1W-ETN21 Ethernet Unit (100Base-TX Type) Operation Manual Construction of	W421
	Applications	
	CS1D-ETN21D Ethernet Unit Operation Manual	W430
	CS1W-EIP21 Ethernet/IP Unit Operation Manual	W465
	CompoNet Master Unit CS1W-CRM21 Operation Manual	W456
	CS1W-FLN22 FL-net Unit (100BASE-TX) Operation Manual	W440
	DeviceNet Operation Manual	W267
	CS1W-DRM21(-V1) DeviceNet Unit Operation Manual	W380
	C200HW-DRM21-V1 DeviceNet Master Units Operation Manual	W379
	DRT1 Series DeviceNet Slaves Operation Manual	VV454
	GR11 Series SmartSlice Slice I/O Units Operation Manual	VV455
	C 200HW-SRM21 CompoBus/S Operation Manual	VV266
	C-series PC Link System Manual	W135
	C series Rack PLCs Wired Remete I/O System Manual	W130
	CS1W-CLK23/21-V/1 Controller Link Units (Wired Type)	W/309
	CS1W-RPT01/02/03 Repeater Units Operation Manual	11309
	CS1W-CLK13/12-V1 Controller Link Units (Optical Ring H-PCF Type).	W370
	CS1W-CLK53/52-V1 Controller Link Units (Optical Ring GI Type) Operation Manual	
	CS1W-GPI01 GP-IB Interface Unit Operation Manual	W410
	CS1W-HIO01-V1/HCP22-V1/HCA22-V1/HCA12-V1 Customizable Counter Units	W378
	Operation Manual	
	CS1W-HIO01-V1/HCP22-V1/HCA22-V1/HCA12-V1 Customizable Counter Units	W384
	Programming Manual	
	CS1W-LC001 Loop Control Unit Operation Manual	W374
	CS1W-LC001 Loop Control Unit Function Block Reference Manual	W375
	CS1W-LCB01/05 Loop Control Boards, CS1D-CPU P Process-control CPU Units	W406
	Operation Manual	
	CS1W-LCB01/05 Loop Control Boards, CS1D-CPU CP Process-control CPU Units	W407
	Function Block Reference Manual	
	CS1W-PTS /PTW01/PDC /PTR /PPS01/PMV Analog I/O Units Operation Manual	W368
	CS1W-AD041-V1/081-V1, CS1W-DA041/08V/08C, CS1W-MAD44 Analog I/O Units	W345
	Operation Manual	W/205
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See also product catalogs for Warranty and Limitations of Liability. Local support office:

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