

●本体および不要になった電池の廃棄については、地方自治体に より規制を受ける場合があります。それぞれの自治体規制に 従って廃棄してください。



●リチウムー次電池(過塩素酸塩含有量が 6ppb 以上)を組み込んだ製品が米 国・カリフォルニア州へ輸出・経由される場合、次の表示が義務化されてい ます。

Perchlorate Material - special handling may apply. See

http://www.dtsc.ca.gov/hazardouswaste/perchlorate

- CJ2 CPU ユニットはリチウムー次電池(過塩素酸塩含有量が 6ppb 以上)を 搭載しています。CJ2 CPU ユニットが組み込まれた貴社製品を米国・カリフ オルニア州へ輸出される場合は、貴社製品の梱包箱、輸送箱などに上記表示 を行っていただくようお願いします
- ●この商品は PLC システムに組み込まれた状態で、EMC 指令に適合していま す。EMC 指令に適合するための、接地・ケーブル選定・その他の条件につい ては、該当するマニュアルを参照ください。

ユニット組み立て上のお願い

●電源ユニットや CPU ユニット、I/O ユニット、高機能 I/O ユニット、CPU 高 パルス I/O ブロックを接続するときは、ユニット同士を接続 機能ユニット、 後、上下のスライダをカチッと音がするまでスライドさせて、確実にロック してください。ロックしないと機能が満足できないことがありますので注意 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、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 М			
形 CJ2H-CPU6囗-EIP			
形 CJ2H-CPU6口		SBCA-349	
形 CJ2M-CPU口口			
形 CJ2H-CPU6□-EIP	ューザーズマニュアル		
形 CJ2H-CPU6口		SBCA-350	
形 CJ2M-CPU口口			
形 CJ2H-CPU6囗-EIP			
形 CJ2H-CPU6口			
形 CJ2M-CPU口口			
形 CS1G/H-CPU口口H			
形 CS1D-CPU口口S	コマンドリファレンス	SBCA-351	
形 CJ1H-CPU口口H-R			
形 CJ1G-CPU口口			
形 CJ1G/H-CPU口口H			
形 CJ1M-CPU口口			
形 CJ2M-CPU口口	ユーザーズマニュアル		
+	パルス 1/0 ブロック編	SBCA-357	
形 CJ2M-MD21口			
形 CJ2H-CPU6凵-EIP			
形 CJ2H-CPU6日			
	通信コマンドリファレンス	SBCA-304	
(B)-G5D/M3D			
	シリアルコミュニケーションユニット	SBCD-300	
形 CJ1W-SCULl2			
形 CJ1W-ETN11	Ethernet ユニット	SBCD-307	
形 CJ1W-ETN21	Ethernet ユニット(100BASE-TX タイプ)		
	基本ネットリーク構築編	SBCD-329	
	アフリケーション構築編	SBCD-330	
形 CJ1W-FLN22	FL-netユニット(100BASE-TXタイフ)	SBCD-334	
形 CJ1W-EIP21	EtherNet/IP ユニット	SBCD-342	
形 CJ1W-CRM21	CompoNetマスタユニット	SBCD-338	
DeviceNet	ユーザーズマニュアル	SCCC-308	
形 CJ1W-DRM21	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 CJ1W-SRM21	CompoBus/S ユニット	SCCC-307	
形 CJ1W-CLK23/21-V1	Controller Link ユニット(ワイヤタイ	0000 200	
形 CS1W-RPT01/02/03	プ)、リピータユニット	5000-326	

形式/マニュアル名称		Man. No.
形 CJ1W-PTS口口/PDC口口 形 CJ1W-AD口口U/PH口口U	プロセス入出力ユニット	SBCC-841
形 CJ1G-CPU口口P	ループコントロールボード/プロセス	
	CPU ユニット/ループ CPU ユニット	
	ユーザーズマニュアル	SBCC-834
	計器ブロックリファレンスマニュアル	SBCC-835
形 CJ1G-CPU45P-GTC	傾斜温度制御対応ループコントローラ	SBCC-839
形 CJ1W-AD0口1-V1 形 CJ1W-DA0口口 形 CJ1W-MAD42	アナログ入出カユニット	SBCC-845
形 CJ1W-ADG41	アナログ入力ユニット(高速タイプ)	SBCC-843
形 CJ1W-TC口口口	温度調節ユニット	SBCC-830
形 CJ1W-CIF21	簡易通信ユニット	SBCB-309
形 CJ1W-CT021	高速カウンタユニット	SBCC-831
形 CJ1W-NC113/133/213/ 233/413/433	位置制御ユニット	SBCE-315
形 CJ1W-NC271/471/F71/ F71-MA 形 CS1W-NC271/471/F71	位置制御ユニット	SBCE-323
形 CJ1W-NC口81/口82	位置制御ユニット	SBCE-359
形 CJ1W-MCH71	MECHATROLINK- II 通信対応 モーションコントロールユニット	SBCE-327
形 CJ1W-V600C11/12	ID センサユニット	SCLB-707
形 CJ1W-SPU01	SYSMAC SPU ユニット	SBSB-526
	コーザースマニュアル	
形 WS02-SPTC1-V2	SYSMAC SPU ユニット 基本ソフト SPU-Console オペレーションマニュアル	SBSB-528
形 CXONE-AL口口C/D-V口	FA 統合ツールパッケージ CX-One セットアップマニュアル	SBCA-346
	CX-Integrator オペレーションマニュアル	SBCA-347
	CX-Position	SBCE-324
	CX-Motion-MCH	SBCE-336
	CX-Motion-NCF	SBCE-328
形 WS02-CXPC□-V□	CX-Programmer オペレーションマニュアル	SBCA-337
	CX-Programmer オペレーションマニュアル ファンクションブロック編	SBCA-338
形 WS02-PSTC1-J	CX-Protocol	SBCA-307
形 WS02-SIMC1-J	CX-Simulator	SBCA-310
形 WS02-MCTC1-JV口	CX-Motion	SBCE-317
形 WS02-LCTC1-JV□	CX-Process 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

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
- 人命や財産に危険が及びうるシステム・機械・装置 c)
- 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
- e) 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
 * 上記は適合用途の条件の一部です。当社のベスト、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



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 CJ-series Programmable Controllers CJ2 CPU Unit **Safety Precautions OMRON** Corporation

OMRON

2149304-4A

© OMRON Corporation 2008 All Rights Reserved.

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's manuals for the Programmable Controller. Please be sure you are using the most recent versions of the user's manuals. Contact your nearest OMRON representative to obtain manuals. Keep these safety precautions and all user's 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 user's 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**

Indicates a potentially hazardous situation which, if not avoided, will result in minor or moderate injury, or may result in serious injury or death. Additionally there may be significant property damage ✓ Caution Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, or property damage.

Warnings and Cautions

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.
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 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 will turn OFF all outputs when its self-diagnosis function detects any error or when a severe failure alarm (FALS) instruction is executed. Unexpected operation, however, may still occur for errors in the I/O control section, errors in I/O memory, and other errors that cannot be detected by the self-diagnosis function. As a countermeasure for all such errors. external safety measures must be provided to ensure safety in the system.
- Communication system and program safety measures in the event of communication errors and malfunctions must be taken to ensure safety in the system.

Λ	
	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.
	Do not apply a voltage or current outside the specified range to the PLC. Doing so may cause a malfunction or fire.
	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, PLC Setup, registered I/O tables, I/O memory, parameters to another node or editing the I/O area. Doing either of these without confirming safety may result in unexpected operation of equipment or machine.
	Tighten the screws on the terminal block of the AC Power Supply Unit to the torque specified in the user's manual. The loose screws may 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.
≜ Caution	Pay careful attention to the polarities (+/-) when wiring the DC

system.

The CJ2 CPU Units automatically back up the user program and parameter data to flash memory when these are written to the CPU Unit. I/O memory including the DM, EM, and Holding Areas,

The DM, EM, and Holding Areas can be held during power interruptions with a battery. If there is a battery error, the contents the contents of the DM, EM, and Holding Areas are used to control

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

systems in the following locations:

- · 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

- · 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.

Take appropriate and sufficient countermeasures when installing

Application Precautions

- 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 connect to 100 Ω or less when installing the Units. A ground of 100 Ω or less must be installed when shorting the GR and LG terminals on the Power Supply Unit. Not connecting to a ground of 100 Ω or less may result in electric shock.
- When connecting a personal computer or other peripheral device to a PLC to which a non-insulated Power Supply Unit (CJ1W-PD022) is mounted, either ground the 0 V side of the external power supply or do not ground the external power supply at all ground. A short-circuit will occur in the external power supply if incorrect grounding methods are used. Never ground the 24 V side.
- 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 or any other Units, and CPU
 - Units, Option Boards, and Pulse I/O Blocks.
 - Assembling the Units
 - Setting DIP switches or rotary switches · Connecting or wiring the cables
 - · Connecting or disconnecting the connectors
- Always use the power supply voltage specified in the user's 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. Separate the line ground terminal (LG) from the functional ground terminal (GR) on the
- Power Supply Unit before performing withstand voltage tests or insulation resistance tests. Not doing so may result in burning.
- · Install the Unit properly as specified in the user's manual. Improper installation of the Unit may result in malfunction
- Leave the label attached to the Unit when wiring. Removing the label may result in malfunction.
- Remove the label after the completion of wiring to ensure proper heat dissipation. Leaving the label attached may result in malfunction.
- Wire correctly and double-check all wiring and check all setting switches before turning ON the power supply. Incorrect wiring may result in burning. Incorrect settings may cause malfunction or unexpected operation.
- Mount the Unit only after checking the connectors and terminal blocks completely
- Be sure that the terminal blocks, connectors, Memory Cards, Option Boards, Pulse I/O Blocks, expansion cables, and other items with locking devices are properly locked into place. Improper locking may result in malfunction.

however, is not written to flash memory.

of these areas may not be accurate after a power interruption. If external outputs, prevent inappropriate outputs from being made whenever the Battery Error Flag (A402.04) is ON.

- Check the user program and parameter settings for proper execution before actually running it on the Unit. Not checking the program and parameter settings may result in an unexpected operation.
- Check that the DIP switches and data memory are properly set before starting 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 (including the setting of the startup operating mode).
 - Force-setting/force-resetting any bit in memory.
- Changing the present value of any word or any set value in memory.
- Resume operation only after transferring to the new CPU Unit, Special I/O Units and/or CPU Bus Units the contents of the data memory, Holding Areas, program, parameters, and data 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.
- 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.
- Do not drop the PLC or subject abnormal vibration or shock to it.
- Unexpected operation may result if inappropriate data link tables or parameters are set. Even if appropriate data link tables and parameters have been set, confirm that the controlled system will not be adversely affected before starting or stopping data links.
- Transfer a routing table to the CPU Unit only after confirming that no adverse effects will be caused by restarting all the CPU Bus Units, which is automatically done to make the new tables effective.
- The user program and parameter area data in the CJ2 CPU Units are backed up in the built-in flash memory. The BKUP indicator will light on the front of the CPU Unit when the backup operation is in progress. Do not turn OFF the power supply to the CPU Unit when the BKUP indicator is lit. The data will not be backed up if power is turned OFF.
- Do not turn OFF the power supply to the PLC when reading or writing a Memory Card. Also, do not remove the Memory Card when the BUSY indicator is lit. Doing so may make the Memory Card unusable. To remove a Memory Card, first press the memory card power supply switch and then wait for the BUSY indicator to go out before removing the Memory Card.
- When replacing the battery for a Unit, be sure to follow the procedure described in that Unit's operation manual.
- Before replacing the battery, turn ON power for at least 5 minutes before starting the replacement procedure and complete replacing the battery within 5 minutes of turning OFF the power supply. Memory contents may be corrupted if this precaution is not obeyed.
- Dispose of the product and batteries according to local ordinances as they apply. Have qualified specialists properly dispose of used batteries as industrial waste.



 The following precaution must be displayed on all products containing lithium primary batteries with a perchlorate content of 6 ppb or higher when exporting them to or shipping them through California, USA.

Perchlorate Material – special handling may apply. See http://www.dtsc.ca.gov/hazardouswaste/perchlorate

The CJ2 CPU Unit contains a lithium primary battery with a perchlorate content of 6 ppb or higher. When exporting a product containing the CJ2 CPU Unit to or shipping such a product through California, USA, label all packing and shipping containers appropriately.

 This product in EMC compliant when assembled in a complete PLC system of the specified PLC Series. For earthing, selection of cable, and any other conditions for EMC compliance, refer to the manual for installation.

Unit Assembly Precautions

 When connecting the Power Supply Unit, CPU Unit, I/O Units, Special I/O Units, CPU Bus Units, or Pulse I/O Blocks slide the upper and lower sliders until a click sound is heard to lock them securely. Unless the end cover is properly mounted, the CJ-series PLC may not function properly.

■ Reference Manuals

Please be sure to read the related user's 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 CJ-Series CJ2H-CPU6□(-EIP), CJ2H-CPU6□, CJ2M-CPU□□ CJ2 CPU Unit Hardware User's Manual	
SYSMAC CJ-Series CJ2H-CPU6□(-EIP), CJ2H-CPU6□ , CJ2M-CPU□□ CJ2 CPU Software User's Manual	W473
SYSMAC CS/CJ-series CJ2H-CPU6□(-EIP), CJ2H-CPU6□, CJ2M-CPU□□, CS1G/H-CPU□-EV1, CS1G/H-CPU□H, CS1D-CPU□S, CJ1G-CPU□, CJ1G/H-CPU□H, CJ1H-CPU□H-R, CJ1M-CPU□ Programmable Controllers Instructions Reference Manual	W474
SYSMAC CJ-series CJ2M-CPU = + CJ2M-MD21 (Pulse I/O Block) CJ2M CPU Unit Pulse I/O Block User's Manual	W486
SYSMAC CS/CJ-series CJ2H-CPU6[EIP), CJ2H-CPU6[., CJ2M-CPU]. CS16/H-CPU_EV1, CS16/H-CPU_H, CS1D-CPU_S, CJ1G-CPU_, CJ1G/H-CPU_H, CJ1M-CPU_, CJ1W-SCU_EV1, CP1H-X/XAY CP1L-M/L, CP1E-E/N_DD, NSJ Programmable Controllers Communications Commands Reference Manual	W342
Serial Communications Units CJ1W-SCU	W336
Ethernet Unit CJ1W-ETN11 Operation Manual	W343
Ethernet Unit (100Base-TX Type) CJ1W-ETN21 Operation Manual Construction of Networks	W420
Ethernet Unit (100Base-TX Type) CJ1W-ETN21 Operation Manual Construction of Applications	W421
CompoNet Master Unit CJ1W-CRM21 Operation Manual	W456
FL-net Unit (100BASE-TX) CJ1W-FLN22 Operation Manual	W440
DeviceNet Operation Manual	W267
DeviceNet Unit CJ1W-DRM21 Operation Manual	W380
DeviceNet Slaves DRT1 Series Operation Manual	
DRT2 Series DeviceNet Slaves	
SmartSlice DeviceNet Communications Unit GRT1-DRT Operation Manual	W454
SmartSlice Slice I/O Units GRT1 Series Operation Manual	W455

Name	Cat No.
CompoBus/S C200HW-SRM21, CJ1W-SRM21 Operation Manual	W266
C-series PC Link System Manual	
C-series Rack PCs Optical Remote I/O System Manual	
C-series Rack PCs Wired Remote I/O System Manual	W120
Controller Link Units (Wired Type) CJ1W-CLK23/21-V1, Repeater Units CS1W-RPT01/02/03 Operation Manual	W309
GP-IB Interface Unit CS1W-GPI01 Operation Manual	W410
Loop-control CPU Units CJ1G-CPU P Operation Manual	
Loop-control CPU Units CJ1G-CPU P Function Block Reference Manual	W407
Loop Controllers for Gradient Temperature Control Function CJ1G-CPU45P-GTC Operation Manual	
Universal Input Unit CJ1W-AD04U Operation Manual	W466
Analog I/O Unit CJ1W-PTS //PDC //PH // Operation Manual	W368
Analog I/O Units CJ1W-AD041-V1/081-V1, CJ1W-AD041-V1/081-V1, CJ1W-DA021/041/08V/08C, CJ1W-MAD42 Operation Manual	W345
Temperature Control Unit CJ1W-TC	W396
SYSMAC CJ-series Simple Communications Unit CJ1W-CIF21 Operation Manual	W400
High-speed Counter Unit CJ1W-CT021 Operation Manual	W401
Position Control Unit CJ1W-NC113/213/413/133/233/433 Operation Manual	W397
Position Control Unit CJ1W-NC271/471/F71/F71-MA, CS1W-NC271/471/F71 Operation Manual	
Position Control Unit CJ1W-NC 81/ 82 Operation Manual	W487
Motion Control Unit CJ1W-MCH71 Operation Manual	W435
ID Sensor Unit CJ1W-V600C11/12 Operation Manual	Z174
SYSMAC SPU Unit CJIW-SPU01 Operation Manual	
SPU-Console WS02-SPTC1 Operation Manual	
CX-One FA Integrated Tool Package CXONE-AL C/D-V Setup Manual	W463
CX-Integrator CXONE-AL C/D-V Operation Manual	W464
CX-Programmer WS02-CXPC□-V□ Operation Manual	W446
CX-Programmer WS02-CXPC□-V□ CJ2-H,CS1-H, CJ1-H, CJ1M CP1H CPU Units Operation Manual Function Blocks	W447
CX-Protocol WS02-PSTC1-E Operation Manual	W344
CX-Simulator WS02-SIMC1-E Operation Manual	W366
CX-Position CXONE-AL C/D-V Operation Manual	W433
CX-Motion-MCH CXONE-AL	
CX-Motion-NCF CXONE-AL C/D-V Operation Manual	
CX-Process Tool WS02-LCTC1-E Operation Manual	
CX-Process Monitor Plus WS02-LCMC1-E Operation Manual	W428

SUITABILITY FOR USE

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the products.

Take all necessary steps to determine the suitability of the product for the systems, machines, and equipment with which it will be used.

Please know and observe all prohibitions of use applicable to the products. NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM. See also product catalogs for Warranty and Limitations of Liability.

Local support office:

OMRON

OMRON Corporation Industrial Automation Company Tokyo, JAPAN

Contact: www.ia.omron.com

Regional Headquarter OMRON EUROPE B.V.

Wegalaan 67-69-2132 JD Hoofddorp The Netherlands Tel: (31)2356-81-300 Fax: (31)2356-81-388

OMRON ASIA PACIFIC PTE. LTD. No. 438A Alexandra Road # 05-05/08

(Lobby 2), Alexandra Technopark, Singapore 119967 Tel: (65) 6835-3011 Fax: (65) 6835-2711 OMRON ELECTRONICS LLC

One Commerce Drive Schaumburg, IL 60173-5302 U.S.A. Tel: (1) 847-843-7900 Fax: (1) 847-843-7787

OMRON (CHINA) CO., LTD. Room 2211, Bank of China Tower, 200 Yin Cheng Zhong Road, 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