

# CL2Y16-TP1MJ1V

## CC-Link/LT Remote I/O Module

Thank you very much for purchasing this product.

Please read this manual thoroughly before starting to use the product and handle the product properly.

### User's Manual

MODEL	CL2Y16-TP1MJ1V-U-HW
MODEL CODE	13JY40
IB(NA)-080393-E(1806)MEE	

© 2007 MITSUBISHI ELECTRIC CORPORATION

### SAFETY PRECAUTIONS

(Read these precautions before using.)

Please read this manual carefully and pay special attention to safety in order to handle this product properly. Also pay careful attention to safety and handle the module properly.

These precautions apply only to Mitsubishi equipment. Refer to the user's manual of the CPU module to use for a description of the programmable controller system safety precautions. In this manual, the safety precautions are classified into two levels: "WARNING" and "CAUTION".

<b>WARNING</b>	Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.
<b>CAUTION</b>	Indicates that incorrect handling may cause hazardous conditions, resulting in minor or moderate injury or property damage.

Under some circumstances, failure to observe the precautions given under "CAUTION" may lead to serious consequences. Observe the precautions of both levels because they are important for personal and system safety. Make sure that the end users read this manual and then keep the manual in a safe place for future reference.

### DESIGN PRECAUTIONS

- Refer to Chapter 3 of this manual for the operation status of the module in case a communication error occurs in the data link.
- Output could be switched on or off when a problem occurs in the remote I/O modules.
- So build an external monitoring circuit that will monitor any output signals that could cause a serious accident.

### DESIGN PRECAUTIONS

- Do not have control cables and communication cables bundled with or placed near by the main circuit and/or power cables. Wire those cables at least 100mm (3.94 inch) away from the main circuit and/or power cables. It may cause malfunction due to noise interference.

### INSTALLATION PRECAUTIONS

- Use the module in an environment that meets the general specifications contained in this manual. Using this module in an environment outside the range of the general specifications could result in electric shock, fire, erroneous operation, and damage to or deterioration of the product.
- Do not directly touch the module's conductive parts. Doing so could cause malfunction or trouble in the module.
- Securely fix the module in place using the DIN rail. If the module is not securely fixed, it may fall off or cause malfunction.

### WIRING PRECAUTIONS

- Perform installation and wiring after disconnecting the power supply at all phases externally. If the power is not disconnected at all phases an electric shock or product damage may result.

### WIRING PRECAUTIONS

- Wire the module correctly upon verifying the product's rated voltage and the connector pin arrangement. Connecting to a power supply different from rating or miss-wiring may cause fire and/or product failure.
- Make sure foreign objects do not get inside the module, such as dirt and wire chips. It may cause fire, product failure or malfunction.

### STARTING AND MAINTENANCE PRECAUTIONS

- WARNING** Before cleaning the module, be sure to shut off all the phases of the power supply externally. Failure to do so may cause failure or malfunction of the modules.

### STARTING AND MAINTENANCE PRECAUTIONS

- CAUTION** Do not disassemble or modify the module. Doing so may cause failure, malfunction, injury, or fire.
- The module case is made of resin; do not drop it or subject it to strong shock. A module damage may result.
- Make sure to switch all phases of the external power supply off before installing or removing the module to/from the panel. Failure to do so may cause failure or malfunction of the modules.
- Before touching the module, always touch grounded metal, etc. to discharge static electricity from the human body, etc. Not doing so can cause the module to fail or malfunction.

### DISPOSAL PRECAUTIONS

- CAUTION** When disposing of this product, treat it as industrial waste.

## PRÉCAUTIONS DE SÉCURITÉ

(Lire ces précautions avant usage.)  
 Prière de lire attentivement ce manuel. Prêter une attention particulière à tout ce qui a trait à la sécurité pour utiliser le produit correctement. Ces précautions ne concernent que l'équipement Mitsubishi. Dans le manuel de l'utilisateur du module CPU correspondant, voir l'exposé des précautions de sécurité concernant le système de l'automate programmable. Dans ce manuel, les précautions de sécurité sont classées en deux niveaux, à savoir : "AVERTISSEMENT" et "ATTENTION".

- AVERTISSEMENT** Attire l'attention sur le fait qu'une négligence peut créer une situation de danger avec risque de mort ou de blessures graves.
- ATTENTION** Attire l'attention sur le fait qu'une négligence peut créer une situation de danger avec risque de blessures légères ou de gravité moyennes ou risque de dégâts matériels.

Dans certaines circonstances, le non-respect d'une précaution de sécurité introduite sous le titre "ATTENTION" peut avoir des conséquences graves. Les précautions de ces deux niveaux doivent être observées dans leur intégralité car elles ont trait à la sécurité des personnes et aussi du système. Veiller à ce que les utilisateurs finaux lisent ce manuel qui doit être conservé soigneusement à portée de main pour s'y référer autant que de besoin.

### PRÉCAUTIONS DE CONCEPTION

- AVERTISSEMENT** Pour l'état opérationnel du module en cas d'erreur de communication dans la liaison de données, se reporter au Chapitre 3 du présent manuel.
- La sortie pourrait se trouver activée ou désactivée à la survenance d'un problème dans le module E/S distant. On constituerait donc un circuit de surveillance externe couvrant tous les signaux de sortie qui pourraient être à l'origine d'un accident grave.

### PRÉCAUTIONS DE CONCEPTION

- ATTENTION** Ne pas grouper ni placer à proximité les câbles de commande ou câbles de communication avec les câbles des circuits principaux et/ou d'alimentation. Câbler en plaçant ces câbles à une distance d'au moins 100mm (3,94 pouces) des câbles des circuits principaux ou de l'alimentation. Cela pourrait être à l'origine d'un bruit parasite entraînant des dysfonctionnements.

### PRÉCAUTIONS D'INSTALLATION

- ATTENTION** Utiliser le module dans un environnement conforme aux spécifications générales présentées dans ce manuel. L'utilisation de ce module dans un environnement autre que celui prévu dans les spécifications générales peut être à l'origine d'un choc électrique, d'un départ de feu ou d'un dysfonctionnement, ou peut endommager ou détériorer le produit.
- Éviter tout contact direct avec les parties conductrices du module. Cela pourrait être à l'origine de dysfonctionnements ou autres problèmes avec le module.
- Fixer fermement le module en place sur le rail DIN. Si le module n'est pas fermement fixé, il risque de tomber ou il peut y avoir des dysfonctionnements.

### PRÉCAUTIONS DE CÂBLAGE

- AVERTISSEMENT** Effectuer l'installation et le câblage après avoir déconnecté l'alimentation externe sur toutes les phases. Si l'alimentation n'a pas été coupée sur toutes les phases, il y a risque d'électrocution ou d'endommagement du produit.

### PRÉCAUTIONS DE CÂBLAGE

- ATTENTION** Câbler le module correctement après vérification de la tension nominale du produit et de l'efficacité des broches de connecteur. Le raccordement d'une alimentation de tension nominale différente ou une erreur de câblage peuvent être à l'origine d'un départ de feu et/ou d'une panne du produit.
- Veiller à éviter toute pénétration d'impuretés, copeaux de câblage ou autre corps étranger dans le module. Cela pourrait être à l'origine d'un départ de feu, ou du panne ou d'un dysfonctionnement du produit.

### PRÉCAUTIONS DE DÉMARRAGE ET DE MAINTENANCE

- AVERTISSEMENT** Avant de nettoyer le module, vérifier sur l'alimentation externe a bien été coupée sur toutes les phases. Faute de quoi, il y a risque de panne ou de dysfonctionnement des modules.

### PRÉCAUTIONS DE DÉMARRAGE ET DE MAINTENANCE

- ATTENTION** Ne pas démonter ni modifier le module. Cela pourrait être à l'origine de pannes, de dysfonctionnements, de blessures ou d'un départ de feu.
- Ne pas faire tomber ou soumettre le module à des chocs car son boîtier en plastique est fragile. Il pourrait en résulter un endommagement du module.
- Avant d'installer le module dans le tableau ou de l'en retirer, il est indispensable de couper l'alimentation externe sur toutes les phases. Faute de quoi, il y a risque de panne ou de dysfonctionnement des modules.
- Avant de toucher au module, se débarrasser de la charge électrostatique qu'accumule le corps humain en touchant un objet métallique raccordé à la terre. Faute de quoi, il y a risque de panne ou de dysfonctionnement du module.

### PRÉCAUTIONS DE MISE AU REBUT

- ATTENTION** Lors de sa mise au rebut, ce produit doit être traité comme un déchet industriel.

## CONDITIONS OF USE FOR THE PRODUCT

- Mitsubishi programmable controller ("the PRODUCT") shall be used in conditions;
  - where any problem, fault or failure occurring in the PRODUCT, if any, shall not lead to any major or serious accident; and
  - where the backup and fail-safe function are systematically or automatically provided outside of the PRODUCT for the case of any problem, fault or failure occurring in the PRODUCT.
- The PRODUCT has been designed and manufactured for the purpose of being used in general industries. MITSUBISHI SHALL HAVE NO RESPONSIBILITY OR LIABILITY (INCLUDING, BUT NOT LIMITED TO ANY AND ALL RESPONSIBILITY OR LIABILITY BASED ON CONTRACT, WARRANTY, TORT, PRODUCT LIABILITY) FOR ANY INJURY OR DEATH TO PERSONS OR LOSS OR DAMAGE TO PROPERTY CAUSED BY THE PRODUCT THAT ARE OPERATED OR USED IN APPLICATION NOT INTENDED OR EXCLUDED BY INSTRUCTIONS, PRECAUTIONS, OR WARNING CONTAINED IN MITSUBISHI'S USER, INSTRUCTION AND/OR SAFETY MANUALS, TECHNICAL BULLETINS AND GUIDELINES FOR THE PRODUCT. ("Prohibited Application")  
 Prohibited Applications include, but not limited to, the use of the PRODUCT in;
  - Nuclear Power Plants and any other power plants operated by Power companies, and/or any other cases in which the public could be affected if any problem or fault occurs in the PRODUCT.
  - Railway companies or Public service purposes, and/or any other cases in which establishment of a special quality assurance system is required by the Purchaser or End User.
  - Aircraft or Aerospace, Medical applications, Train equipment, transport equipment such as Elevator and Escalator, Incineration and Fuel devices, Vehicles, Manned transportation, Equipment for Recreation and Amusement, and Safety devices, handling of Nuclear or Hazardous Materials or Chemicals, Mining and Drilling, and/or other applications where there is a significant risk of injury to the public or property.
 Notwithstanding the above, restrictions Mitsubishi may in its sole discretion, authorize use of the PRODUCT in one or more of the Prohibited Applications, provided that the usage of the PRODUCT is limited only for the specific applications agreed to by Mitsubishi and provided further that no special quality assurance or fail-safe, redundant or other safety features which exceed the general specifications of the PRODUCTS are required. For details, please contact the Mitsubishi representative in your region.

## 1. Overview

This user's manual explains specifications and names of individual parts of the CL2Y16-TP1MJ1V type CC-Link/LT remote I/O module (hereinafter abbreviated as remote I/O module).

Item	Type	CL2Y16-TP1MJ1V
Noise durability	DC type noise voltage 500Vp-p, noise width 1µs, noise carrier frequency 25 to 60Hz (noise simulator condition)	First transient/noise burst IEC 61000-4-4; 2kV
Withstand voltage	500V AC for 1 minute between primary (external DC terminal) and secondary (internal circuit)	
Insulation resistance	10MΩ or more between primary (external DC terminal) and secondary (internal circuit) when measured with a 500V DC insulation resistance tester	
Protection class	IP2X	
Weight	0.05kg	
I/O part connection method	20 pin MIL connector	
Module installation method	DIN rail installation, Can be installed in six directions	

## 3. Part Names

This section explains the names of the components for the remote I/O module.

Connector for I/O interface	Pin No.	Signal name	Pin No.	Signal name
	CON1-20	Y0	CON1-19	Y8
	CON1-18	Y1	CON1-17	Y9
	CON1-16	Y2	CON1-15	YA
	CON1-14	Y3	CON1-13	YB
	CON1-12	Y4	CON1-11	YC
	CON1-10	Y5	CON1-9	YD
	CON1-8	Y6	CON1-7	YE
	CON1-6	Y7	CON1-5	YF
	CON1-4	24G <sup>1</sup>	CON1-3	24G <sup>1</sup>
	CON1-2	+24V <sup>1</sup>	CON1-1	+24V <sup>1</sup>

Connector for CC-Link/LT interface	Pin No.	Signal name
	1	+24V
	2	DA
	3	DB
	4	24G

No.	Item	Description																											
1)	Operating status indicator LEDs	<table border="1"> <thead> <tr> <th>LED name</th> <th>Confirmation details</th> </tr> </thead> <tbody> <tr> <td>PW</td> <td>On: Power supply on. Off: The power supply is turned off or the voltage drop is too large.</td> </tr> <tr> <td>LRUN</td> <td>On: Normal communication. Off: Communication cutoff (time expiration error).</td> </tr> <tr> <td>LERR</td> <td>On: Indicates that a communication data error has occurred or the setting switch is outside the allowable range. Flicker at regular intervals: Indicates that the setting switch has been changed while current is being conducted. (The module continues to operate even while the LED is flickering. The changed settings will be reflected when the power has been restored.) Flicker at irregular intervals: Indicates that the terminal resistor is left unconnected or that the module or connection cable are affected by noise.</td> </tr> <tr> <td>0 to F</td> <td>Displays the ON/OFF status of the output. Turned on in the ON status and turned off in the OFF status.</td> </tr> </tbody> </table>	LED name	Confirmation details	PW	On: Power supply on. Off: The power supply is turned off or the voltage drop is too large.	LRUN	On: Normal communication. Off: Communication cutoff (time expiration error).	LERR	On: Indicates that a communication data error has occurred or the setting switch is outside the allowable range. Flicker at regular intervals: Indicates that the setting switch has been changed while current is being conducted. (The module continues to operate even while the LED is flickering. The changed settings will be reflected when the power has been restored.) Flicker at irregular intervals: Indicates that the terminal resistor is left unconnected or that the module or connection cable are affected by noise.	0 to F	Displays the ON/OFF status of the output. Turned on in the ON status and turned off in the OFF status.																	
LED name	Confirmation details																												
PW	On: Power supply on. Off: The power supply is turned off or the voltage drop is too large.																												
LRUN	On: Normal communication. Off: Communication cutoff (time expiration error).																												
LERR	On: Indicates that a communication data error has occurred or the setting switch is outside the allowable range. Flicker at regular intervals: Indicates that the setting switch has been changed while current is being conducted. (The module continues to operate even while the LED is flickering. The changed settings will be reflected when the power has been restored.) Flicker at irregular intervals: Indicates that the terminal resistor is left unconnected or that the module or connection cable are affected by noise.																												
0 to F	Displays the ON/OFF status of the output. Turned on in the ON status and turned off in the OFF status.																												
2)	Output hold setting switch <sup>2</sup> (SW8)	Specifies whether to maintain or turn off the output of the remote I/O module in case the communication stops. The switch is set to OFF at shipment from the factory. ON: Maintain output OFF: Turn output off																											
3)	Station number setting switches <sup>2</sup> (SW1 to 7)	Select "10", "20" or "40" to set the tens place of the station number. Select "1", "2", "4" or "8" to set the ones place of the station number. All switches are set to OFF at factory default setting. Always set the station number within the range of 1 to 64. A setting error occurs and "L.ERR" LED flickers if the value outside the range 1 to 64 is set. (Example) Set the switches as below when setting the station number to 32: <table border="1"> <thead> <tr> <th>Station number</th> <th>Tens place</th> <th>Ones place</th> </tr> </thead> <tbody> <tr> <td>40</td> <td>20 (SW1)</td> <td>8 (SW4)</td> </tr> <tr> <td>20</td> <td>20 (SW1)</td> <td>4 (SW5)</td> </tr> <tr> <td>10</td> <td>10 (SW3)</td> <td>2 (SW6)</td> </tr> <tr> <td>8</td> <td>OFF</td> <td>8 (SW4)</td> </tr> <tr> <td>4</td> <td>OFF</td> <td>4 (SW5)</td> </tr> <tr> <td>2</td> <td>OFF</td> <td>2 (SW6)</td> </tr> <tr> <td>1</td> <td>OFF</td> <td>1 (SW7)</td> </tr> <tr> <td>32</td> <td>OFF</td> <td>ON</td> </tr> </tbody> </table>	Station number	Tens place	Ones place	40	20 (SW1)	8 (SW4)	20	20 (SW1)	4 (SW5)	10	10 (SW3)	2 (SW6)	8	OFF	8 (SW4)	4	OFF	4 (SW5)	2	OFF	2 (SW6)	1	OFF	1 (SW7)	32	OFF	ON
Station number	Tens place	Ones place																											
40	20 (SW1)	8 (SW4)																											
20	20 (SW1)	4 (SW5)																											
10	10 (SW3)	2 (SW6)																											
8	OFF	8 (SW4)																											
4	OFF	4 (SW5)																											
2	OFF	2 (SW6)																											
1	OFF	1 (SW7)																											
32	OFF	ON																											
4)	Connector for CC-Link/LT interface	Connector for CC-Link/LT communication line, load power supply and module power supply.																											
5)	Connector for I/O interface	MIL connector for connecting output signal.																											
6)	Hook for DIN rail	Hook for installing the module on a DIN rail.																											

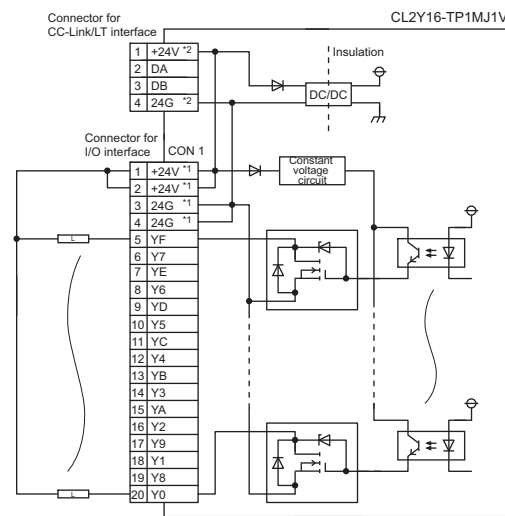
- Do not supply power to the power supply pin from the outside.
- Set up using a slotted screwdriver with a tip width of 0.9 mm or less.

## 4. Handling Precautions

- When using a DIN rail, attach the DIN rail after taking the following items into consideration:
  - Applicable DIN rail types (conform to JIS C 2812) TH35-7.5F TH35-7.5A
  - Interval between the DIN rail's installation screws Tighten the screws using a pitch of 200mm (7.87in.) or less when attaching a DIN rail.
- To attach the remote I/O module to the DIN rail, press the centerline area of the DIN rail hook beneath the module until a click is heard.
- When installing the remote I/O module into a panel, etc., provide 15mm (0.59 in.) or more of space between the top and bottom of the module and other structures or parts so that good ventilation and ease of operation when exchanging modules can be secured.

## 5. Wiring

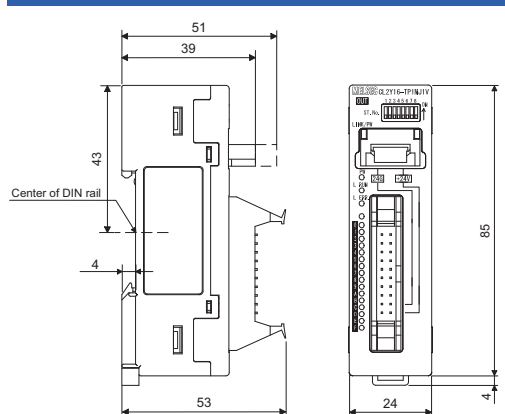
## 5. Câblage



English	French
Connector for CC-Link/LT interface	Connecteur pour interface CC-Link/LT
Connector for I/O interface	Connecteur pour interface E/S
Insulation	Isolation

- Do not supply power to the power supply pin from the outside.
- The module power and load power are supplied through the dedicated power supply or power supply adapter. Use the dedicated power supply (CL1PSU-2A) or power supply adapter (CL1PAD1).
- Ne pas alimenter la broche d'alimentation en courant électrique à partir de l'extérieur.
- L'alimentation électrique du module et celle de la charge se font via une alimentation dédiée ou un adaptateur d'alimentation. Utiliser l'alimentation dédiée (CL1PSU-2A) ou l'adaptateur d'alimentation (CL1PAD1).

## 6. External Dimensions



Unit: mm

## 2. Specifications

### 2.1 General Specifications

The general specifications for the remote I/O module are shown in the following table.

Item	Specifications							
Operating ambient temperature Température ambiante de fonctionnement	0 to 55°C 0 à 55 °C							
Storage ambient temperature	-25 to 75°C							
Operating ambient humidity Storage ambient humidity	5 to 95%RH, non-condensing							
Vibration resistance	Compliant with JIS B 3502 and IEC 61131-2							
Frequency	Under intermittent vibration	5 to 8.4Hz - 8.4 to 150Hz	Constant acceleration	9.8m/s <sup>2</sup>	Half amplitude	3.5mm	Sweep count	10 times each in X, Y, Z directions
	Under continuous vibration	5 to 8.4Hz - 8.4 to 150Hz	Constant acceleration	4.9m/s <sup>2</sup>	Half amplitude	1.75mm	Sweep count	-
Shock resistance	Compliant with JIS B 3502 and IEC 61131-2 (147 m/s <sup>2</sup> , 3 times each in 3 directions X, Y, Z)							
Operating atmosphere	No corrosive gases							
Operating altitude	0 to 2000m							
Installation location	Inside a control panel <sup>3</sup>							
Overvoltage category <sup>1</sup>	II or less							
Pollution degree <sup>2</sup>	2 or less							

- This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within premises. Category II applies to equipment for which electrical power is supplied from fixed facilities. The surge voltage withstand level for up to the rated voltage of 300V is 2500V.
- This index indicates the degree to which conductive material is generated in terms of the environment in which the equipment is used. Pollution level 2 is when only non-conductive pollution occurs. A temporary conductivity caused by condensing must be expected occasionally.
- It can also be used in an environment other than on the control panel if the conditions such as usage ambient temperature and humidity are satisfied.

### 2.2 Performance specifications

The performance specifications for the remote I/O module are shown in the following table.

Item	Type	CL2Y16-TP1MJ1V
Number of outputs		16 points
Isolation method		Photocoupler isolation
Rated load voltage		24V DC (Common with the module power supply)
Operating load voltage range		Common with the module power supply range
Max. load current		0.1A/point 1.6A/1 common
Max. inrush current		0.7A 10ms or lower
Leakage current at OFF		0.1mA or lower
Voltage drop at ON		0.3V or lower (TYP.) 0.1A, 0.6V or lower (MAX.) 0.1A
Output method		Sink type
Protect function		Overload protection function, Overheat protection function
Response time	OFF→ON	0.5ms or lower
	ON→OFF	0.5ms or lower (Resistive load)
Surge suppressor		Zener diode
Common wiring method		16 points/1 common (MIL connector 1-wire type)
Number of stations occupied		In 4-point mode: Occupies 4 stations. In 8-point mode: Occupies 2 stations. In 16-point mode: Occupies 1 station
Module power supply	Voltage	20.4 to 28.8V DC (ripple ratio: within 5%)
	Current consumption	55mA or lower (When 24V DC and all points on) (Excluding the external power supply current.)
	Current on startup	90mA or lower (24V DC)

## WARRANTY

Mitsubishi will not be liable for damage caused by factors found not to be the cause of Mitsubishi; machine damage or lost profits caused by faults in the Mitsubishi products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi; damages to products other than Mitsubishi products; and to other duties.

Country/Region	Sales office/Tel
USA	MITSUBISHI ELECTRIC AUTOMATION, INC. 500 Corporate Woods Parkway, Vernon Hills, IL 60061, U.S.A. Tel: +1-847-478-2100
Mexico	MITSUBISHI ELECTRIC AUTOMATION, INC. Mexico Branch Mariano Escobedo #69, Col. Zona Industrial, Tlalrepanita Edo. Mexico, C.P. 54030 Tel: +52-55-3067-7500
Brazil	MITSUBISHI ELECTRIC DO BRASIL COMÉRCIO E SERVIÇOS LTDA Avenida Adelfino Cardana, 293, 2º andar, Bethaville, Barueri SP, Brazil Tel: +55-11-4689-3000
Germany	MITSUBISHI ELECTRIC EUROPE B.V. German Branch Mitsubishi-Electro-Platz 1, 40882 Ratingen, Germany Tel: +49-2102-486-0
UK	MITSUBISHI ELECTRIC EUROPE B.V. UK Branch Travelers Lane, Hatfield, Hertfordshire, AL10 8XB, U.K. Tel: +44-1707-28-8780
Ireland	MITSUBISHI ELECTRIC EUROPE B.V. Irish Branch Westgate Business Park, Ballymount, Dublin 24, Ireland Tel: +353-1-4198800
Italy	MITSUBISHI ELECTRIC EUROPE B.V. Italian Branch Centro Direzionale Colonna-Siro Viale Colonna 7, 20864 Agrate Brianza(Milano) Italy Tel: +39-039-60531
Spain	MITSUBISHI ELECTRIC EUROPE B.V. Spanish Branch Carretera de Rubí, 76-80-Adpto. 420, 08190 Sant Cugat del Vallés (Barcelona), Spain Tel: +34-93-65-3131
France	MITSUBISHI ELECTRIC EUROPE B.V. French Branch 25, Boulevard des Bouvels, 92741 Nanterre Cedex, France Tel: +33-1-55-68-55-68
Czech Republic	MITSUBISHI ELECTRIC EUROPE B.V. Czech Branch Avenir Business Park, Radlicka 75/1138e, 158 00 Praha5, Czech Republic Tel: +420-251-551-470
Poland	MITSUBISHI ELECTRIC EUROPE B.V. Polish Branch ul. Krakowska 50, 32-083 Balice, Poland Tel: +48-12-347-65-00
Sweden	MITSUBISHI ELECTRIC EUROPE B.V. (Scandinavia) Fjellvägen 8, SE-22736 Lund, Sweden Tel: +46-8-625-10-00
Russia	MITSUBISHI ELECTRIC (RUSSIA) LLC St. Petersburg Branch Piskarevsky pr. 2, bld 2, lit "Sch", BC "Benua", office 720, 195027 St. Petersburg, Russia Tel: +7-812-633-3497
Turkey	MITSUBISHI ELECTRIC TURKEY A.Ş. Umranıye Branch Serifali Mahallesi Nuh Sokak No.5, TR-34775 Umranıye/Istanbul, Turkey Tel: +90-216-526-3990
UAE	MITSUBISHI ELECTRIC EUROPE B.V. Dubai Branch Dubai Silicon Oasis, P.O.BOX 341241, Dubai, U.A.E. Tel: +971-4-3724716
South Africa	ADROIT TECHNOLOGIES 20 Waterford Office Park, 189 Witkoppen Road, Fourways, South Africa Tel: +27-11-658-8100
China	MITSUBISHI ELECTRIC AUTOMATION (CHINA) LTD. No.1386 Hongqiao Road, Mitsubishi Electric Automation Center, Shanghai, China Tel: +86-21-2322-3030
Taiwan	SETSUYO ENTERPRISE CO., LTD. 6F, No.105, Wugong 3rd Road, Wugu District, New Taipei City 24889, Taiwan Tel: +886-2-2259-2499
Korea	MITSUBISHI ELECTRIC AUTOMATION KOREA CO., LTD. 7F-8F, Gansong-Hangang 3-Gilower A, 401, Yangcheon-ro, Gansong-Gu, Seoul Tel: +82-2-3660-9530
Singapore	MITSUBISHI ELECTRIC ASIA PTE. LTD. 307, Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Tel: +65-6473-2308
Thailand	MITSUBISHI ELECTRIC FACTORY AUTOMATION (THAILAND) CO., LTD. 12th Floor, SV City Building, Office Tower 1, No. 886/19 and 20 Rama 3 Road, Kwang Bangpangpang, Khet Yanna, Bangkok 10120, Thailand Tel: +66-2682-6522
Vietnam	MITSUBISHI ELECTRIC VIETNAM COMPANY LIMITED Hanoi Branch 8th Floor, Ditech Tower, 8 Ton That Thuyet Street, My Dinh 2 Ward, Nam Tu Liem District, Hanoi, Vietnam Tel: +84-4-3937-8075
Indonesia	PT.