Mitsubishi Electric Programmable Controller **Upgrade Tool**

Conversion Adapter

Model

ERNT-1JR32N34N

User's Manual



50CM-D180391-A(1811)

MITSUBISHI ELECTRIC ENGINEERING COMPANY LIMITED

HEAD OFFICE: Hulic KUDAN BLDG.1-13-5, KUDANKITA CHIYODA-KU, TOKYO 102-0073, JAPAN NAGOYA ENGINEERING OFFICE:139 SHIMOYASHIKICHO-SHIMOYASHIKI, KASUGAI, AICHI 486-0906, JAPAN



(Always read these precautions prior to use.)

Before using this product, please read this manual carefully and pay full attention to safety to ensure that the product is used correctly.

The precautions presented in this manual are concerned with this product only. For Programmable Controller system safety precautions, refer to "Safety Guidelines" for MELSEC iQ-R Series Modules.

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

In this manual, the safety precautions are ranked as "WARNING" and "CAUTION."

property damage.



Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury



Indicates that incorrect handling may cause hazardous conditions, resulting in medium or minor injury and/or

Note that failure to observe the \bigwedge CAUTION level instructions may lead to a serious consequence according to the circumstances. Always follow the precautions of both levels because they are important to personal safety. Please keep this manual in an easy-to-access location for future reference, and be sure to provide the manual to

[Precautions before using]

♠ CAUTION

 When replacing with the MELSEC iQ-R Series, be sure to refer to the Programmable Controller Module manuals to check the differences in performance, functionality, CPU input/output signals, buffe memory addresses and the like.

[Installation Precautions]

∴ CAUTION

- Use the conversion adapter and conversion adapter anchor base in the environment conditions described in the general specifications in "Safety Guidelines" for MELSEC iQ-R Series Modules. Failure to do so could lead to electric shock, fire, malfunction or product failure or deterioration
- Do not come in direct contact with the conductive area of the conversion adapter. Doing so could lead to system malfunction or failure.
- Fully secure the conversion adapter and conversion adapter anchor base using the installation screws and tighten the installation screws securely within the specified torque range. Failure to do so could cause the conversion adapter and anchor base to fall, resulting in conversion adapter and conversion
- Always check for correct match between MELSEC iQ-R Series and the conversion adapter. Incorrect match can cause damage to the MELSEC iO-R Series module

[Wiring Precautions]

- Be sure to shut off all phases of the external power supply before performing installation or wiring work Failure to do so could result in electric shock or product damage.
- If you want to energize and run the unit after completing the installation and wiring work, be sure to close the terminal block cover attached to the terminal block. Failure to do so could result in electric shock.

- Properly wire the conversion adapter after verifying the specifications and terminal layout of the module to be used. Connecting a power supply with a different rating or improper wiring could lead to fire or product failure.
- Securely tighten the conversion adapter installation screws, conversion adapter anchor base installation screws and terminal block installation screws within the specified torque range. A loose screw may result in a short circuit, fire or malfunction. An excessively tightened screw may result in screw or conversion adapter damage, causing the conversion adapter to fall, a short circuit or product
- Do not allow foreign matter such as cuttings or wiring shavings to enter the conversion adapter o module. Doing so could lead to fire, failure or malfunction.

[Startup and Maintenance Precautions]

⚠ WARNING

Do not touch the terminals during energization. Doing so could result in electric shock or malfunction

[Startup and Maintenance Precautions]

WARNING

Be sure to shut off all phases of the external power supply before cleaning and retightening the termin screws. Failure to do so could lead to electric shock. Excessively tightened screws could result in conversion adapter or input/output module damage, causing the conversion adapter to fall, a short

▲ CAUTION

- Do not disassemble or modify the conversion adapter. Doing so could lead to failure, malfunction, injur
- The conversion adapter case is made of resin. Do not drop or apply excessive impact to the case. Doin so could lead to conversion adapter damage

[Disposal Precautions]

CAUTION

When disposing of the product, treat it as industrial waste.

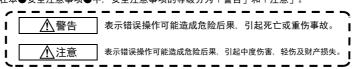
● 安全注意事项 ● (使用前请务必阅读)

使用本产品时,请仔细阅读本手册,并充分注意安全,正确地使用产品。

本手册中标注的注意事项仅记载了与本产品相关的内容。关于可编程控制器系统的安全注意 事项. 请参阅MELSEC iQ-R系列的"安全使用"

请勿在所记载内容的范围外使用,否则会损坏产品的保护功能。

在本●安全注意事项●中,安全注意事项的等级分为「警告」和「注意」。



另外,根据情况不同,即使是/1/注意中记载的事项,也可能引发严重后果。不管哪个记载 的都是非常重要的内容, 请务必遵守。 请妥善保管本手册, 以便需要时取阅, 并请将本手册交给最终用户。

【使用前的注意事项】

⚠ 注意

● 从替换为 MELSEC i Q-R 系列时,为了对性能、功能、针对 CPU 的输入输出信号、缓 冲存储器地址等的差异进行确认,必须参照对象可编程控制器模块的手册使用。

【安装注意事项】

⚠ 注意

- 应在 MELSEC iQ-R 系列"安全使用"中记载的通用规格环境下使用转换适配器及转 换适配器固定台。如果在一般规格范围以外的环境中使用,可能导致触电、火灾、 误动作、产品的损坏或劣化。
- 请不要直接触摸转换适配器的导电部分。否则可能会造成系统误动作、故障。
- 转换适配器及转换适配器固定台应通过安装螺栓切实地加以固定, 安装螺栓应在 规定的扭矩范围内切实地拧紧。可能因掉落而导致转换适配器及转换适配器固定台
- 请务必确认 MELSEC iQ-R 系列模块和转换适配器的组合是否正确。在错误组合下使 用时,可能会导致 MELSEC iQ-R 系列模块损坏

【接线注意事项】

⚠ 警告

- 必须将外部供应全相断开断开后再进行安装作业等。如果未全相断开,可能会导致
- 安装、配线作业完成之后进行通电、运行时,必须关闭端子排的端子排盖板。如果 未关闭端子排盖板,可能会导致触电。

- 请确认所使用模块的规格及端子排列后正确地进行转换适配器的接线。连接不符合 额定值的电源或误配线,会导致火灾或故障。
- 转换适配器安装螺栓、转换适配器固定台安装螺栓、端子排安装螺栓应在规定的扭 矩范围内切实地拧紧。如果螺栓拧得过松,会导致短路、火灾或误动作。如果螺栓 拧得过紧,有可能造成螺栓及转换适配器破损从而导致掉落、短路或误动作。
- 请注意不要让切屑或接线头等异物进入转换适配器及模块内。会导致火灾、故障、

【启动和维护注意事项】

- 在通电状态下请勿触摸端子。可能会导致触电或误动作。
- 在清扫或重新紧固端子螺栓时,必须将外部供应全相断开断开后再进行。如果未全 相断开,可能会导致触电。如果螺栓拧得过紧,可能会造成转换适配器或输入/输 出模块的破损从而导致掉落、短路或误动作。

⚠ 注 意

- 请不要拆卸、改造转换适配器。否则可能会导致故障、误动作、受伤或火灾。
- 转换适配器的外壳由树脂制成,因此请避免掉落或使其受到剧烈冲击。否则可能会 损坏转换适配器

【废弃注意事项】

⚠ 注 意

● 废弃时请将本产品作为工业废弃物处理

(产品名) Renewal Tool的基于

[电器电子产品有害物质限制使用标识要求] 的表示方式



Note: This symbol mark is for China only.

含有有害6物质的名称,含有量,含有部品 本产品中所含有的有害6物质的名称,含有量,含有部品如下表所示。

产品中有害物质的名称及含量

部件名称		有害物质						
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)		
电路板组件 (包括印刷电路 板及其构成的 零部件,如电阻、 电容、集成电路、 连接器等)	0	0	0	0	0	0		
安装金属零件	0	0	0	0	0	0		
外壳	×	0	0	0	0	0		

本表格依据SJ/T 11364 的规定编制。

- 〇:表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572 规定的限量要求以下。
- ×:表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572 规定的限量要求。

EMC AND LOW VOLTAGE DIRECTIVES

Compliance to the EMC Directive, which is one of the EU Directives, has been a legal obligation for the products sold in European countries since 1996 as well as the Low Voltage Directive since 1997.

Manufacturers who recognize their products are compliant to the EMC and Low Voltage Directives are required to declare that print a "CE mark" on

Authorized representative in Europe

Authorized representative in Europe is shown below. Name: Mitsubishi Electric Europe B.V.

Address: Mitsubishi-Electric-Platz 1, 40882 Ratingen, Germany

1. Overview

This manual describes the Mitsubishi Electric Programmable Controller Upgrade Tool conversion adapter (ERNT-1JR32N34N).

When replacing with the MELSEC iQ-R Series, be sure to refer to the Programmable Controller Module manuals to check the differences in performance, functionality, CPU input/output signals, buffer memory addresses and the like. Once you have opened the packaging, verify that it contains the following products.

Product	Shape	Quantity
Conversion adapter		1
Mounting bracket		1
Mounting bracket fixing screw (M2.6 x 4)	€0	2
This manual	-	1

2. Specifications

2.1 General Specifications

Item	Specifications					
Operating ambient temperature	0 to 55°C(Maximum surrounding air temperature 55°C)					
Storage ambient temperature			-25 to 75	${\mathbb C}$		
Operating ambient humidity Storage ambient humidity		5 to	95%RH, non-			
			Frequency	Constant acceleration	Half amplitude	
	Compliant with	Under	5 to 8.4Hz	-	3.5mm	10 times
Vibration resistance	JIS B 3502 and	intermittent vibration	8.4 to 150Hz	9.8m/s ²	-	each in X, Y, Z directions
	IEC 61131-2	Under	5 to 8.4Hz	ı	1.75mm	
			8.4 to 150Hz		-	_
Shock resistance			ith JIS B 350. times each in			
Operating atmosphere			No corrosive	gases		
Operating altitude *1	0 to 2000m					
Installation location	Inside a control panel *2					
Overvoltage category *3	II or less					
Pollution degree *4	2					

- *2 : The enclosure is suitably designed for those specific environmental conditions, as applicable, and enclosure rate meets IP20 and minimum type 1 of UL 50.
- *3 : 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 Category II applies to equipment for which electrical power is supplied from fixed facilities.
- *4 : 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

2.2 Hardware Specifications

caused by condensing must be expected occasionally

Item	Specifications		
Rated input voltage / current	5-24VDC(+20/-15%), 6mA		

3. Products Required by the Conversion Adapter

(1) Conversion Adapter Anchor Base (Sold Separately)

The Conversion Adapter Anchor Base secures the bottom of the Conversion Adapter. One anchor base is required per base unit.

Conversion Adapter Anchor Base Model	Specifications	Weight (g)
ERNT-1AR12F	12-slot conversion adapter anchor base	780
ERNT-1AR8F	8-slot conversion adapter anchor base	545
ERNT-1AR5F	5-slot conversion adapter anchor base	365
		•

(2) Base Adapter (Sold Separately)
Both the MELSEC iQ-R Series Base Unit and the Conversion Adapter Anchor Base can be installed on the Base Adapter without drilling screw holes However, drilling screw holes (M5 screws) is required to install the Base Adapter to the panel

For the Base Unit models marked with *1 to *3, two or more Base Adapter models are applicable.

Select the most suitable Base Adapter according to the product dimensions

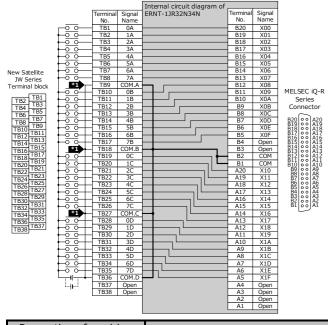
Base Adapter			Product dimensions	Weight		
Model	MELSEC	iQ-R Series	Base Unit	Conversion Adapter	Width×Height	(g)
	12 slots	8 slots	5 slots	Anchor Base Model	(mm)	
ERNT-AQB38N	R312B			ERNT-1AR12F	480×240	970
ERINT-AQD30IN		R38B(*1)		ERNT-1AR8F	460^240	970
ERNT-AQB35N		R38B(*1)		ERNT-1AR8F	382×240	795
EKINT-AQB33IN			R35B	ERNT-1AR5F	302*240	795
ERNT-AQB68N	R612B		[ERNT-1AR12F	466×240	930
ERINT-AQDOON		R68B(*2)		ERNT-1AR8F	400^240	930
ERNT-AQB65N		R68B(*2)		ERNT-1AR8F	352×240	790
ERINT-AQDOSIN			R65B(*3)	ERNT-1AR5F	352*240	790
ERNT-AQB58N		R68B(*2)		ERNT-1AR8F	411×240	870
ERNT-AQB55N			R65B(*3)	ERNT-1AR5F	297×240	655

4. Conversion Adapter Product Specifications

For detail specifications which do not appear in the specification comparison charts contained herein, see the user's manual supplied with the MELSEC iQ-R Series module you use. Also, check that the specifications of the connected devices meet the specifications of the MELSEC iO-R Series Module

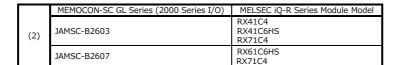
Conversion Adapter Model	New Satellite JW Series / MEMOCON-SC GL Series (2000 Series I/O) Module Model	No. of Input Points	MELSEC iQ-R Series Module Model	Conversion Adapter Weight (g)
ERNT-1JR32N34N	JW-32N JW-34N JAMSC-B2603	32 points	RX41C4 RX41C6HS RX71C4	145
	JAMSC-B2607	32 points	RX61C6HS RX71C4	

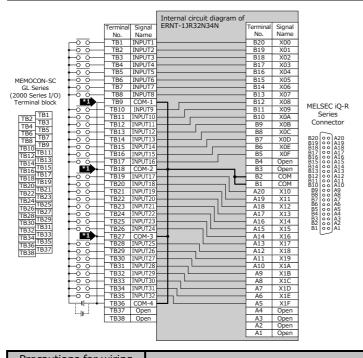
ľ		New Satellite JW Series Module Model	MELSEC iQ-R Series Module Model
ı	(1)	JW-32N	RX41C4
I	(+)	JW-34N	RX41C6HS RX71C4



Precautions for wiring

Because the switch concerned causes the number of points per common to change from 8 (four circuits) to 32, an alteration to the wiring is required if the commons on the existing modules have been used in separation from each other.





Precautions for wiring

Because the switch concerned causes the number of points per common to change from 8 (four circuits) to 32, an alteration to the wiring is required if the commons on the existing modules have been used in separation from each other.

<Specification Comparison Chart>

	Model	New Satelli	te JW Series	MELSEC iQ-R Series			
Specification	ns	JW-32N (Positive/Negative common Shared Type)	JW-34N (Positive/Negative common Shared Type)	RX41C4 (Positive/Negative common Shared Type)	RX41C6HS (Positive/Negative common Shared Type)	RX71C4 (Positive/Negative common Shared Type)	
Number of in	nput points	32 points	32 points	32 points	32 points	32 points	
Rated input	voltage *1	12/24VDC (10 to 26.4VDC) 24VAC (18 to 26.4VAC) (50/60Hz)	12/24VDC (10 to 26.4VDC)	24VDC (20.4 to 28.8VDC)	24VDC (20.4 to 28.8VDC)	5VDC(4.25 to 6VDC) 12VDC(10.2 to 14.4VDC)	
Rated input	current	8.4mA TYP. (24VDC/VAC) 4mA TYP. (12VDC)	8.4mA TYP. (24VDC) 4mA TYP. (12VDC)	4.0mA TYP.(24VDC)	6.0mA TYP.(24VDC)	1.7mA TYP. (5VDC) 4.8mA TYP. (12VDC)	
ON voltage/0	ON current	10V or higher/3mA or higher	10V or higher/3mA or higher	19V or higher/3mA or higher	19V or higher/4mA or higher	3.5V or higher/1mA or higher	
OFF voltage/	/OFF current	4.7V or lower/1.5mA or lower	4.7V or lower/1.5mA or lower	6V or lower/1.0mA or lower	6V or lower/1.7mA or lower	1V or lower/0.1mA or lower	
Input resista	ance	2.9kΩ TYP.	2.9kΩ TYP.	5.3kΩ	4kΩ	2.3kΩ	
Response	OFF→ON	25ms or less	0.5ms or less	0.1/0.2/0.4/0.6/ 1/5/10/20/70ms or less	1/10/20/50µs 0.1/0.2/0.4/0.6/1/5/10/20/70ms or less	0.2/0.3/0.5/0.6/1/5/10/20/70ms or less	
time	ON→OFF	25ms or less	1.5ms or less	0.2/0.3/0.5/0.7/ 1/5/10/20/70ms or less	1/10/20/50µs 0.1/0.2/0.4/0.6/1/5/10/20/70ms or less	0.21/0.3/0.5/0.6/1/5/10/20/70ms or less	
Internal curre consumption		Maximum 89mA n points at ON→(25+2n)mA	Maximum 89mA n points at ON→(25+2n)mA	150mA (TYP. All points ON)	150mA (TYP. All points ON)	140mA (TYP. all points ON)	
Wiring metho	od for common	8 points/common(4 circuits)	8 points/common(4 circuits)	32 points/common	32 points/common	32 points/common	
External coni	nection system	38-point terminal block	38-point terminal block	40-pin connector	40-pin connector	40-pin connector	

Make sure the section of the above table meets the specification of the machines and equipment connected to the MELSEC iQ-R Series module. *1 When uses the rated input voltage of 24VAC, the voltage must be changed to 5VDC, 12VDC or 24VDC.

	Model	MEMOCON-SC GL Series (2000 Series I/O)		MELSEC iQ-R Series	
Specifications	5	JAMSC-B2603 (Positive/Negative common Shared Type)	RX41C4 (Positive/Negative common Shared Type)	RX41C6ĤS (Positive/Negative common Shared Type)	RX71C4 (Positive/Negative common Shared Type)
Number of inp	out points	32 points	32 points	32 points	32 points
Rated input voltage		12/24VDC (10.2 to 26.4VDC)	24VDC (20.4 to 28.8VDC)	24VDC (20.4 to 28.8VDC)	5VDC(4.25 to 6VDC) 12VDC(10.2 to 14.4VDC)
Rated input co	urrent	10mA (24VDC) 5mA (12VDC)	4.0mA TYP.(24VDC)	6.0mA TYP.(24VDC)	1.7mA TYP. (5VDC) 4.8mA TYP. (12VDC)
ON voltage/ON current		9V or higher	19V or higher/3mA or higher	19V or higher/4mA or higher	3.5V or higher/1mA or higher
OFF voltage/C	OFF current	6V or lower	6V or lower/1.0mA or lower	6V or lower/1.7mA or lower	1V or lower/0.1mA or lower
Input resistan	ice	Approx. 2.4kΩ	5.3kΩ	4kΩ	2.3kΩ
Response	OFF→ON	7ms or less	0.1/0.2/0.4/0.6/1/5/10/20/70ms or less	1/10/20/50µs 0.1/0.2/0.4/0.6/1/5/10/20/70ms or less	0.2/0.3/0.5/0.6/1/5/10/20/70ms or less
time	ON→OFF	10ms or less	0.2/0.3/0.5/0.7/1/5/10/20/70ms or less	1/10/20/50µs 0.1/0.2/0.4/0.6/1/5/10/20/70ms or less	0.21/0.3/0.5/0.6/1/5/10/20/70ms or less
Internal current consumption		80mA (TYP All points ON)	150mA (TYP. All points ON)	150mA (TYP. All points ON)	140mA (TYP. all points ON)
Wiring method	d for common	8 points/common (4 circuits)	32 points/common	32 points/common	32 points/common
External conn	ection system	38-point terminal block	40-pin connector	40-pin connector	40-pin connector

Make sure the section of the above table meets the specification of the machines and equipment connected to the MELSEC iQ-R Series module.

	Model	MEMOCON-SC GL Series (2000 Series I/O)	MELSEC	iQ-R Series
Specification	ons	JAMSC-B2607 (Positive/Negative common Shared Type)	RX61C6HS (Positive/Negative common Shared Type)	RX71C4 (Positive/Negative common Shared Type)
Number of	input points	32 points	32 points	32 points
Rated input	voltage	5/12VDC (4.5 to 13.2VDC)	5VDC (4.25V to 6VDC)	5VDC(4.25 to 6VDC) 12VDC(10.2 to 14.4VDC)
Rated input	current	4.0mA (5VDC), 11.0mA (12VDC)	6.0mA TYP.(5VDC)	1.7mA TYP. (5VDC), 4.8mA TYP. (12VDC)
ON voltage,	/ON current	3.5V or higher	3.5V or higher /3mA or higher	3.5V or higher/1mA or higher
OFF voltage	e/OFF current	1.0V or lower	1V or lower /1mA or lower	1V or lower/0.1mA or lower
Input resist	ance	Approx. 1.2kΩ	600Ω	2.3kΩ
Response	OFF→ON	0.5ms or less	1/10/20/50µs 0.1/0.2/0.4/0.6/1/5/10/20/70ms or less	0.2/0.3/0.5/0.6/1/5/10/20/70ms or less
time	ON→OFF	0.5ms or less	1/10/20/50μs 0.1/0.2/0.4/0.6/1/5/10/20/70ms or less	0.21/0.3/0.5/0.6/1/5/10/20/70ms or less
Internal current consumption		100mA (TYP All points ON)	150mA (TYP. all points ON)	140mA (TYP. all points ON)
Wiring meth	nod for common	8 points/common(4 circuits)	32 points/common	32 points/common
External cor	nnection system	38-point terminal block	40-pin connector	40-pin connector

Make sure the section of the above table meets the specification of the machines and equipment connected to the MELSEC iQ-R Series module.

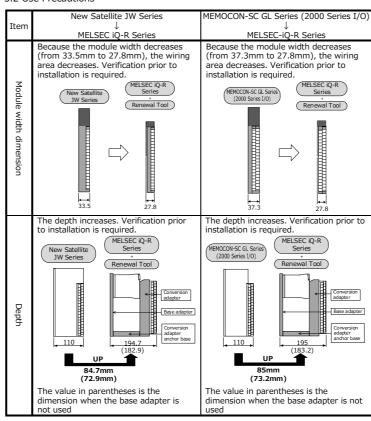
5. Mounting and Installation

5.1 Handling Precautions

- (1) Before attempting to install the Unit or carry out the necessary wiring, make certain that the external power supply, used in the system, is shut off on all three phases. Failure to do so may result in electric shock or damage to the product.

 (2) Do not touch live terminals. There is a danger of electric shock or malfunction.
- (3) Do not modify the Conversion Adapter or take it apart. Doing so will cause failure, malfunction, personal injury, or fire.
- (4) Do not touch the energized part of the Conversion Adaptor directly. Contact will cause malfunction or failure in the system.
- (5) Fasten the Conversion Adapter and the Mounting Bracket securely with retaining screws, and tighten the screws by applying torque within specified limits. Loose screws can lead to the dropping of the Conversion Adapter, or Mounting Bracket, possibly causing breakage thereof. Excessive tightness of the screws can lead to breakage of the screws, Converter Adaptor, Mounting Bracket, or MELSEC iQ-R Series Module, possibly causing the dropping, shorting, and malfunction thereof.
- (6) Use care to prevent foreign materials including cuttings and wiring debris from entering the Conversion Adapter or the MELSEC iQ-R Series Module. These will be cause for fire, failure or malfunction.
- (7) Do not drop the Conversion Adapter and Mounting Bracket or do not give a strong
- impact to it. This will cause damage.
 (8) Conversion Adapter is intended for indoor use only.

5.2 Use Precautions



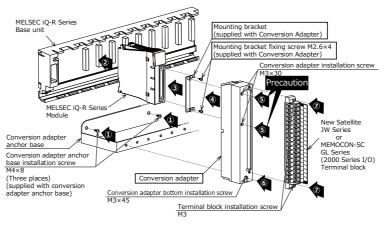
5.3 Installation Environment

Refer to "Safety Guidelines" for MELSEC iQ-R Series Modules.

5.4 Wiring module power source

External connection to 24VDC power supply circuit of Gateway module must be powered from approved source that meets of SELV/PELV, Class 2, and limited energy according to UL 61010-2-201.

6. Part Names and Installation Method



6.1 Installation Method

Secure the Conversion Adapter Anchor Base to the Base Adapter or control panel using the Conversion Adapter Anchor Base installation screws (M4 imes 8) provided as an accessory. (2 locations at both sides, 1 location at the center)

Mount the MELSEC iQ-R Series module to the MELSEC iQ-R Series base unit.

Secure the Mounting Bracket to the MELSEC iQ-R Series Module using the Mounting Bracket fixing screws [M2.6 × 4 (conversion adapter accessory); two upper/lower

Mount the Conversion Adapter onto the Mounting Bracket.

Secure the Conversion Adapter using the Conversion Adapter installation screws (M3 ×

Before tightening the installation screws, check that the Conversion Adapter has been securely installed on the MELSEC iQ-R Series Module. Tightening the screws in floating-off state or tilting state will damage the Conversion Adapter installation screws and the Mounting Bracket.



Secure the Conversion Adapter using the Conversion Adapter bottom installation screw

Secure the terminal block of the New Satellite 1W Series or MEMOCON-SC GL Series (2000 Series I/O) to the Conversion Adapter with the terminal block installation screws (M3; two upper/lower locations).

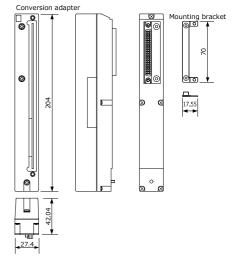
6.2 Tightening Torque

Tighten the installation screws to the specified torque below. An inappropriate tightening torque could cause the product to fall or result in a short circuit, product failure or malfunction

Screw Location	Tightening Torque Range	
Conversion Adapter Anchor Base installation screw (M4×8)	1.39 to 1.89N·m	
Mounting Bracket fixing screw (M2.6×4)	0.20 to 0.29N·m	
Conversion Adapter installation screw (M3×30)	0.43 to 0.57N·m	
Conversion Adapter bottom installation screw (M3×20)	0.43 (0 0.37101111	
Terminal block installation screw (M3)	0.5 to 0.6N·m	
	•	

7. External Dimensions

Unit:mm



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Product Warranty Details

Gratis Warranty Terms and Gratis Warranty Range If any fault or defect (hereinafter referred to as "Failure") attributable to Mitsubishi Electric Engineering Company Limited (hereinafter referred to as "MEE") should occur within the gratis warranty period, MEE shall repair the product free of charge via the distributor from whom you made your purchase.

Gratis Warranty Period

The gratis warranty period of this product shall be one (1) year from the date of purchase or delivery to the designated place. Note that after manufacture and shipment from MEE, the maximum distribution period shall be six

(6) months, and the gratis warranty period after manufacturing shall be limited to eighteen (18) In addition, the gratis warranty period for repaired products shall not exceed the gratis warranty period established prior to repair.

Gratis Warranty Range

The gratis warranty range shall be limited to normal use based on the usage conditions, methods and environment, etc., defined by the terms and precautions, etc., given in the instruction manual, user's manual and caution labels on the product.

Warranty Period after Discontinuation of Production

MEE shall offer product repair services (fee applied) for seven (7) years after production or product has been discontinued. Discontinuation of production shall be reported via distributors.
 Product supply (including spare parts) is not possible after production has been discontinued.

Exclusion of Opportunity Loss and Secondary Loss from Warranty Liability
Regardless of the gratis warranty period, MEE shall not be liable for compensation for damages arising
from causes not attributable to MEE, opportunity losses or lost profits incurred by the user due to Failures
of MEE products, damages or secondary damages arising from special circumstances, whether foreseen
or unforeseen by MEE, compensation for accidents, compensation for damages to products other than
MEE products, or compensation for other work carried out by the user.

Changes in Product Specifications en in the catalogs, manuals and technical documents are subject to change without

document is a new publication, effective November 2018. Specifications are subject to change

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