Mitsubishi Electric Programmable Controller Upgrade Tool

Conversion Adapter

Model ERNT-2JQ210NS

User's Manual

50CM-D180385-B(2006)

MITSUBISHI ELECTRIC ENGINEERING COMPANY LIMITED

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● SAFETY PRECAUTIONS ●

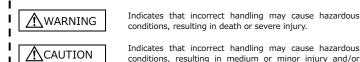
(Always read these precautions prior to use.)

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 the following manuals. •MELSEC-Q series: QCPU User's Manual (SH-080483ENG) •MELSEC iQ-R series: Safety Guidelines (IB-0800525E)

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."



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

Note that failure to observe the $\underline{\wedge}$ 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 the end user.

[Precautions before using]

\land CAUTION

 When making a switch to the MELSEC-O Series or MELSEC iO-R Series, be sure to consult user's manual supplied with individual module under the MELSEC-Q Series or MELSEC iO-R Series module to confirm differences in various aspects including performance, function, CPU input/output signals between the two modules

[Installation Precautions]

A CAUTION

- Use the Conversion Adapter in the environmental conditions that are specified in the general specification in the following manuals. If the Products are used in any nvironment beyond the bounds of the general specification, electric shock, fire, malfunction, or damage to or degradation of the Products will result. MELSEC-Q series: QCPU User's Manual (SH-080483ENG) MELSEC IO-R series: Safety Guidelines (IB-0800525E)
- Do not directly touch any conductive parts of Conversion Adapter. Contact will cause malfunction or failure in the system.
- 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, Conversion Adapter, Mounting Bracket, or MELSEC-Q Series or MELSEC iQ-R Series Module, possibly causing the dropping, shorting, and malfunction thereof
- Always check for correct match between MELSEC-O Series or MELSEC iO-R Series and ion Adapter. Incorrect match can cause damage to the MELSEC-Q Se or MELSEC iO-R Series Module.
- When installing the Conversion Adapter, take care not to get your hand snagged on the Mounting Bracket or the like. Injury may result.
- When installing or removing the MELSEC-Q Series or MELSEC iQ-R Series Module complete with a Converter Adapter, be sure to hold it with both hands. Dropping may ead to breakage

[Wiring Precautions]

M WARNING

 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.

[Wiring Precautions]

\Lambda WARNING

After installation and wiring, close the terminal block cover before turning on the module for operation. Failure to do so may result in electric shock.

[Wiring Precautions]

CAUTION

- Carry out wiring for the Conversion Adapter correctly after checking the specification and terminal arrangement for the module used. Connecting a power supply with a different voltage rating or incorrect wiring may cause a fire or failure.
- Tighten the terminal installation screws and terminal screw securely by applying torque within the specified limits. Loose screws will cause short circuit, fire or malfunction. Excessive tightening will damage the screws or the Conversion Adapter which in turn will cause dropping of parts, short circuit or malfunction.
- Use care to prevent foreign materials including cuttings and wiring debris from entering the Conversion Adapter or the MELSEC-Q Series or MELSEC iQ-R Series Module. These will be cause for fire, failure or malfunction.

[Startup and Maintenance Precautions]

\land WARNING

- Do not touch live terminals. There is a danger of electric shock or malfunction.
- Shut off the external power supply for the system in all phases before cleaning o retightening the terminal screws. Failure to do so may result in electric shock or cause the MELSEC-Q Series or MELSEC iQ-R Series Module to fail or malfunction. Loose screws can lead to dropping, shorting, and malfunction. Excessive tightness of the screws can lead to breakage of the screws, Conversion Adapter, Mounting Bracket, or MELSEC-Q Series or MELSEC iQ-R Series Module, possibly causing the dropping, shorting, and malfunction thereof

▲ CAUTION

- Do not modify the Conversion Adapter or take it apart. Doing so will cause failure malfunction, personal injury, or fire.
- Do not drop the Conversion Adapter and Mounting Bracket or do not give a strong impact to it. This will cause damage.

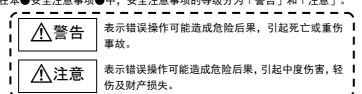
[Disposal Precautions]

▲ CAUTION

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

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, 请参阅下述手册,
- 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

● 替换为MELSEC-Q系列或MELSEC iQ-R系列时,为确认性能,功能,CPU对 应的输入输出信号等方面的差异,请务必参阅MELSEC-Q系列或MELSEC iQ-R系列各模块的手册进行使用。

【安装注意事项】

注意 /1\

● 应在下述手册记载的一般规格环境下使用转换适配器。如果在一般规格 范围以外的环境中使用转换适配器,可能导致触电,火灾,误动作,产品 损坏或性能劣化。

 MELSEC-Q系列:QCPU用户手册(SH-080501CHN) MELSEC iQ-R系列: Safety Guidelines(IB-0800525E)

- 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。
- 转换适配器及安装配件应通过安装螺钉切实地加以固定,安装螺钉应在 规定的扭矩范围内切实地拧紧。如果螺钉拧得过松,有可能因掉落而导致 转换适配器及安装配件破损。如果螺钉拧得过紧,有可能造成螺钉,转换 适配器,安装配件及MELSEC-Q系列或MELSEC iQ-R系列模块破损,从而导 致掉落,短路或误动作。
- 请务必确认MELSEC-Q系列或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-Q系列模块损坏。
- 安装转换适配器时,应注意不要使手等身体部分刮到安装配件。否则可 能会导致受伤。
- 在对安装了转换适配器的MELSEC-Q系列或MELSEC iQ-R系列模块进行装 卸时,请务必用双手拿住产品。否则会因落下而导致损坏。

- 【接线注意事项】 警告 /i\ ● 在进行安装, 配线作业等时, 必须将系统使用的外部供应电源全部断开 后再进行操作。如果未全部断开,有可能导致触电或产品损坏。 ● 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,有可能导致触电。 注意 /<u>N</u> ● 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。 如果输入不符合额定值的电压,连接不符合额定值的电源或接错线,可 能会导致火灾或故障 ● 端子排安装螺钉,端子螺钉应在规定的扭矩范围内切实地拧紧。如果螺 钉拧得过松,有可能导致短路,火灾或误动作。如果螺钉拧得过紧,有可 能造成螺钉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MELSEC-Q系列或 MELSEC iQ-R系列模块内。否则可能会导致火灾,故障,误动作。 【启动和维护注意事项】 警告 /!\ ● 在通电状态下请勿触摸端子。否则可能导致触电或误动作。 ● 在清洁模块或重新紧固端子螺钉时,必须将系统使用的外部供应电源全 部断开后再进行操作。如果未全部断开,有可能导致触电或MELSEC-Q系 列或MELSEC iQ-R系列模块故障,误动作。如果螺钉拧得过松,有可能导 致掉落,短路或误动作。如果螺钉拧得过紧,有可能导致螺钉,转换适配 器,安装配件及MELSEC-Q系列或MELSEC iQ-R系列模块破损,从而导致掉 落,短路或误动作。 注意 /1\ ● 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 ● 请勿使转换适配器及安装配件掉落或受到强烈撞击。否则可能导致破损。 【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 多溴联苯 多溴二苯醚 (Hg) 电路板组件 (包括印刷电路 板及其构成的 Ο 0 Ο 0 \bigcirc 0 零部件,如电阻 电容、集成电路 连接器等) 安装金属零件 0 外壳 × \cap 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。
- 安全注意事项 🗨 (使用前请务必阅读) · MELSEC-Q系列: QCPU用户手册(SH-080501CHN) • MELSEC iQ-R系列: Safety Guidelines(IB-0800525E)

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 their products.

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 specifications, handling and other information about the Conversion Adapter "ERNT-2JQ210NS" available as Upgrade Tools for the Mitsubishi Electric Programmable Controller

Before attempting to make a switch to MELSEC-Q Series or MELSEC iQ-R Series in your installation, consult the user's manual supplied with individual under the latter series to learn about how they differ in various aspects including performance and function.

Once you have opened the packaging, verify that it contains the following products.

Product	Shape	Quantity
Conversion Adapter		1
Mounting Bracket	۹ ۹	1
Mounting Bracket fixing screws (M3.5 x 6)	N	2
This manual	-	1

2. General Specifications

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

*1 : Do not use or store under pressure higher than the atmospheric pressure of altitude On

*2 : 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

Category II applies to equipment for which electrical power is supplied from fixed facilities.

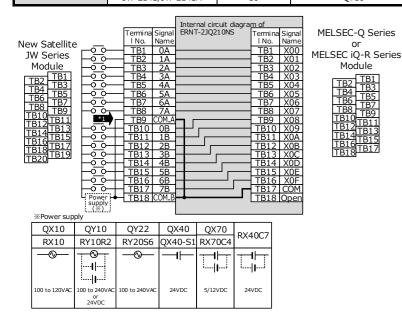
*3 : This index indicates the degree to which conductive material is generated in terms of the environment in which the equipment is used.

Pollution level 2 is when only non-conductive pollution occurs. A temporary conductivity caused by condensing must be expected occasionally

3. 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-Q Series or MELSEC iQ-R Series Module you use. Also, check that the specifications of the connected devices meet the specifications of the MELSEC-Q Series or MELSEC iQ-R Series Module.

Conversion Adapter Model	Before replacement New Satellite JW Series Module Model	No. of in/output points	After replacement MELSEC-Q Series Module Model	No. of modules	After replacement MELSEC iQ-R Series Module Model	No. of modules	Conversion Adapter Weight (g)
	JW-211N/JW-211NA	16	QX10	1	RX10	1	
	JW-212N/JW-212NA	16	QX40	1	RX40C7		
ERNT-2JQ210NS	JW-214N/JW-214NA	16	QX40-S1 QX70	1	RX70C4	1	75
	JW-213S/JW-213SA	16	QY22	1	RY20S6	1	
	JW-214S/JW-214SA	16	OY10	1	RY10R2	1]



Precautions for wiring

*1 Because the switch concerned causes the number of points per common to change from 8 (two circuits) to 16 (one circuit), an alteration to the wiring is required if the commons on the existing modules have been used in separation from each other.

< Specification Comparison >

Mode		New Satellite JW Series	MELSEC-Q Series	MELSEC iQ-R Series
		JW-211N/JW-211NA	QX10	RX10
No. of input poin	pints 16 points 16 points 16 points 16 points		16 points	
Rated input voltage		100 to 120VAC 50/60Hz (85 to 132VAC 50/60Hz)	100 to 120VAC (+10%/-15%) 50/60Hz(±3Hz)	100 to 120VAC (+10%/-15%) 50/60Hz(±3Hz)
Rated input curre	ent	Approx. 10mA(100VAC,60Hz) Approx. 8.4mA(100VAC,50Hz)	Approx. 8mA(100VAC,60Hz) Approx. 7mA(100VAC,50Hz)	8.2mA (100VAC,60Hz) 6.8mA (100VAC,50Hz)
Input impedance		Approx. $10k\Omega(60Hz)$ Approx. $12k\Omega(50Hz)$	Approx. 12k $Ω$ (60Hz) Approx. 15k $Ω$ (50Hz)	12.2kΩ(60Hz) 14.6kΩ(50Hz)
Inrush current		Max. 480mA within 0.2ms (at 132VAC)	Max. 200mA within 1ms (at 132VAC)	Max. 200mA within 1ms
Operating	ON	80VAC/7mA	80VAC or higher/5mA or higher (50Hz,60Hz)	80VAC or higher/5mA or higher (50Hz,60Hz)
voltage/current	OFF	30VAC/3mA	30VAC or lower/1.7mA or lower (50Hz,60Hz)	30VAC or lower/1.7mA or lower (50Hz,60Hz)
Response	OFF to ON	30ms or less	15ms or less (100VAC 50Hz,60Hz)	15ms or less (100VAC 50Hz,60Hz)
time	ON to OFF	40ms or less	20ms or less (100VAC 50Hz,60Hz)	20ms or less (100VAC 50Hz,60Hz)
Isolation method	ĺ	Photocoupler isolation	Photocoupler isolation	_
Common terminal arrangement		8 points/common (2 circuits)	16 points/common	16 points/common
External connections		18-point terminal block	18-point terminal block	18-point terminal block

Model		New Satell	ite JW Series		MELSEC-Q Series		MELSEC i	MELSEC iQ-R Series	
		JW-212N JW-212NA	JW-214N JW-214NA	QX40	QX40-S1	QX70	RX40C7	RX70C4	
		Positive/Negative	Positive/Negative	Positive	Positive	Positive/Negative	Positive/Negative	Positive/Negative	
Specifications		shared common type	shared common type	common type	common type	shared common type	shared common type	shared common type	
No. of input poin	ts	16 points	16 points	16 points	16 points	16 points	16 points	16 points	
Rated input volta	ige	12/24VDC (10.5 to 26.4VDC)	12/24VDC (10.5 to 26.4VDC)	24VDC (+20%/-15%)	24VDC (+20%/-15%)	5VDC (+20%/-10%)/ 12VDC (+20%/-15%)	24VDC (20.4 to 28.8VDC)	5VDC(4.25 to 6VDC) 12VDC(10.2 to 14.4VDC)	
Rated input curre	ent	Approx. 7.5mA(24VDC) Approx. 3.5mA(12VDC)	Approx. 7.5mA(24VDC) Approx. 3.5mA(12VDC)	Approx. 4mA	Approx. 6mA	Approx. 3.3mA(12VDC) Approx. 1.2mA(5VDC)	7.0mA TYP. (24VDC)	1.7mA TYP. (5VDC) 4.8mA TYP. (12VDC)	
Input impedance	2	Approx. 3.3kΩ	Approx. 3.3kΩ	Approx. 5.6kΩ	Approx. 3.9kΩ	Approx. 3.3kΩ	3.3kΩ	2.3kΩ	
Inrush current			-	_		-	_	-	
	ON	10.5V/3mA	10.5V/3mA	19V or higher/	19V or higher/	3.5V or higher/	15V or higher/	3.5V or higher/	
Operating	ON	10.5V/3IIIA	10.5V/3IIIA	3mA or higher	4mA or higher	1mA or higher	4mA or higher	1mA or higher	
voltage/current	OFF	5V/1.5mA	5V/1.5mA	11V or lower/	11V or lower/	1V or lower/	8V or lower/	1V or lower/	
	011	54/1.511/4	5471.51184	1.7mA or lower	1.7mA or lower	0.1mA or lower	2mA or lower	0.1mA or lower	
	OFF to ON	OFF to ON 10ms or less	0.5ms or less	1/5/10/20/70ms or less	0.1/0.2/0.4/0.6/1ms	1/5/10/20/70ms or less	0.1/0.2/0.4/0.6/1/5/	0.2/0.3/0.4/0.5/1/5/	
Response		101110 01 1000		1, 5, 10, 20, 7 61115 61 1055	or less		10/20/70ms or less	10/20/70ms or less	
time	ON to OFF	10ms or less	1.5ms or less	1/5/10/20/70ms or less	0.1/0.2/0.4/0.6/1ms	1/5/10/20/70ms or less	0.35/0.4/0.5/0.7/1/5/	0.41/0.5/0.6/0.7/1/5/	
				1/5/10/20//0115 01 1055	or less		10/20/70ms or less	10/20/70ms or less	
Isolation method		Photocoupler isolation	Photocoupler isolation	Photocoupler isolation	Photocoupler isolation	Photocoupler isolation	-	-	
Common termina arrangement	al	8 points/common (2 circuits)	8 points/common (2 circuits)	16 points/common	16 points/common	16 points/common	16 points/common	16 points/common	
External connect	ions	18-point terminal block	18-point terminal block	18-point terminal block	18-point terminal block	18-point terminal block	18-point terminal block	18-point terminal block	

< Specification Comparison >

Model		New Satellit	e JW Series	MELSEC-Q Series	MELSEC iQ-R series	
	\sim	JW-213S	JW-213SA	QY22	RY20S6	
Specifications		(TRIAC output)	(TRIAC output)	(TRIAC output)	(TRIAC output)	
No. of output	points	16 points	16 points	16 points	16 points	
Rated load vo	ltage	100 to 240VAC 50/60Hz	100 to 240VAC 50/60Hz	100 to 240VAC 50/60Hz±5%	100 to 240VAC (+10%/-15%) 50/60Hz(±3Hz)	
Maximum load	d current	0.5A/point, 2A/common	1A/point, 2A/common	0.6A/point, 4.8A/common	0.6A/point, 4.8A/common	
Minimum load	d current	15mA	15mA	25mA	25mA	
Maximum inru	ush current	6A, 100ms or less	6A, 100ms or less	20A/cycle or less	20A/cycle or less	
Leaked curren	nt at OFF	1.5mA or lower(120VAC) 3mA or lower(240VAC)	1.5mA or lower(120VAC) 3mA or lower(240VAC)	1.5mA or lower (120VAC 60Hz) 3mA or lower (240VAC 60Hz)	1.5mA or lower (120VAC 60Hz) 3mA or lower (240VAC 60Hz)	
Maximum volt	tage drop at ON	1.6V or lower(0.3A)	1.6V or lower(0.3A)	1.5V or lower	1.5V or lower (at load current of 0.6A)	
Dosponso	OFF to ON	1ms or less	1ms or less	1ms + 0.5 cycles or less	1ms + 0.5 cycles or less	
Response time	ON to OFF	1ms + 0.5 cycles or less	1ms + 0.5 cycles or less	1ms + 0.5 cycles or less (rated load, resistance load)	1ms + 0.5 cycles or less (rated load, resistance load)	
Surge suppres	ssor	Varistor	Varistor	CR absorber	CR absorber	
Fuse		3A (unchangeable)	3.15A (unchangeable)	None	None	
Isolation meth	hod	Photocoupler isolation	Photocoupler isolation	Photocoupler isolation	-	
Common term	ninal arrangement	8 points/common (2 circuits)	8 points/common (2 circuits)	16 points/common	16 points/common	
External conn	ection system	18-point terminal block	18-point terminal block	18-point terminal block	18-point terminal block	
<hr/>						
Specifications	Model	New Satellite JW Series JW-214S/JW-214SA	MELSEC-Q Series QY10	MELSEC iQ-R series RY10R2		
			,			
No. of output Rated load vo		16 points 30VDC / 250VAC	16 points 24VDC / 240VAC	16 points 24VDC / 240VAC		
Maximum load		2A/point, 5A/common	24VDC / 240VAC 2A/point, 8A/common	24VDC / 240VAC 2A/point, 8A/common		
Minimum load		10mA (5VDC)	1mA (5VDC)	1mA (5VDC)		
Maximum inru						
Leaked currer		_	_	_		
Maximum voltage drop at ON		_	_	—		
	OFF to ON	10ms or less	10ms or less	10ms or less		
time	ON to OFF	10ms or less	12ms or less	12ms or less		
Surge suppressor		None	None	None		
Fuse		None	None	None		
Isolation meth	hod	Relay	Relay	-		
Common terminal arrangement		8 points/common (2 circuits)	16 points/common	16 points/common		
External connection system				18-point terminal block		

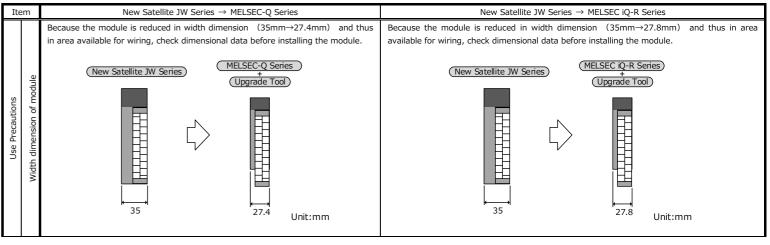
Make sure the section of the above table meets the specification of the machines and equipment connected to the MELSEC-Q Series or MELSEC iQ-R Series Module.

4. Mounting and Installation

4.1 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.
- Mounting Bracket, or MELSEC-Q Series or MELSEC iQ-R Series Module, possibly causing the dropping, shorting, and malfunction thereof.
- 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.

4.2 Use Precautions

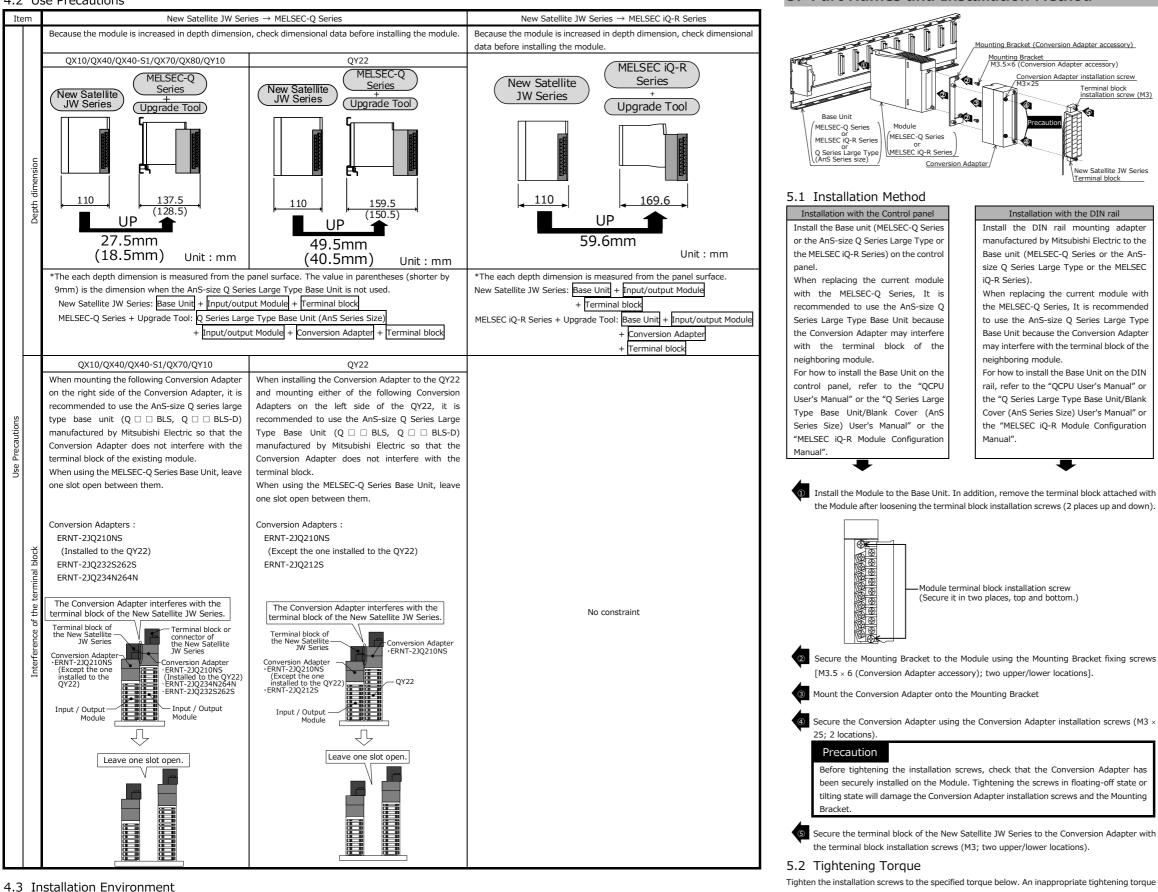


Make sure the section of the above table meets the specification of the machines and equipment connected to the MELSEC-Q Series or MELSEC iQ-R Series Module.

(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,

(6) Use care to prevent foreign materials including cuttings and wiring debris from entering the Conversion Adapter or the MELSEC-Q Series or MELSEC iQ-R Series Module. These will be cause





Refer to the manual supplied with the MELSEC-Q Series or MELSEC iQ-R Series module you use. •MELSEC-Q Series: QCPU User's Manual (SH-080483ENG) •MELSEC iQ-R Series: Safety Guidelines (IB-0800525E)

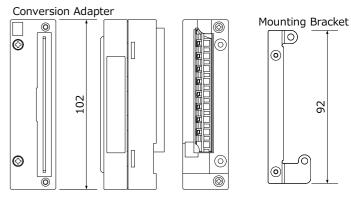
could cause the product to fall or result in a short circuit, product failure or malfunction. Screw Location Tightening Torque Range Mounting Bracket fixing screw (M3.5×6) 0.68 to 0.92N·m Conversion Adapter installation screw (M3×25) 0.43 to 0.57N·m Terminal block installation screw (M3) 0.5 to 0.6N·m

5. Part Names and Installation Method

6. External Dimensions

Unit : mm

25.7





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ENT is a registered trademark of Mitsubishi Electric Engineering Company Limited in Japan.

Product Warranty Details

Please confirm the following product warranty details prior to product use.

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) months.

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

(1) MEE shall offer product repair services (fee applied) for seven (7) years after production of the product has been discontinued. Discontinuation of production shall be reported via distributors.

(2) 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

The specifications given in the catalogs, manuals and technical documents are subject to change without notice.

This document is a new publication, effective June 2020. Specifications are subject to change without notice.