

Before Using the Product

Before using the product, please read this manual. Make sure that the end users read this manual and then keep the manual in a safe place for future reference.

Relevant manuals

Before using the product, please read the Safety Guidelines included with the base unit used, especially the following sections.

- SAFETY PRECAUTIONS
- CONDITIONS OF USE FOR THE PRODUCT
- EMC AND LOW VOLTAGE DIRECTIVES
- WARRANTY

For the product information, refer to the following.

Description	Manual name [manual number]
Common information on MELSEC iQ-R series programmable controllers*1	MELSEC iQ-R Module Configuration Manual [SH-081262ENG]
Detailed information on the product	MELSEC iQ-R Flexible High-Speed I/O Control Module User's Manual (Startup) [SH-081645ENG] MELSEC iQ-R Flexible High-Speed I/O Control Module User's Manual (Application) [SH-081647ENG]

*1 The information includes the system configuration, specifications, installation, wiring, maintenance, and inspection.

Please develop familiarity with the functions and performance of the product to handle the product correctly.

Manuels correspondants

Avant d'utiliser ce produit, prière de lire les "Safety Guidelines" (directive de sécurité) fournies avec l'unité de base, en particulier dans les sections suivantes.

- PRÉCAUTIONS DE SÉCURITÉ
- CONDITIONS D'UTILISATION DE PRODUIT
- DIRECTIVES CEM ET BASSE TENSION
- GARANTIE

Packing list

Check that the following items are included in the package of the product.

Item	Quantity
Module	1
Before Using the Product (this manual)	1

Mounting modules

When installing the programmable controller in a control panel, fully consider its operability, maintainability, and environmental resistance.

Securely mount all the MELSEC iQ-R series modules used on the base unit.

For details on the mounting method, refer to the MELSEC iQ-R Module Configuration Manual.

Montage des modules

Pour installer l'automate programmable dans un tableau de commande, prendre en compte tous les aspects d'opérabilité, de maintenabilité et de résistance à l'environnement.

Monter fermement sur l'unité de base tous les modules de la série MELSEC iQ-R à utiliser.

Pour le détail de la méthode de montage, voir le MELSEC iQ-R Module Configuration Manual (Manuel de configuration du module MELSEC iQ-R).

Operating ambient temperature

Use the product within the following range.

- 0 to 55°C (when an extended temperature range base unit is not used)
- 0 to 60°C (when an extended temperature range base unit is used)

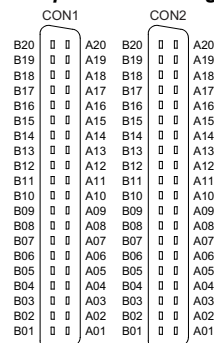
Température ambiante de fonctionnement

Ce produit doit être utilisé dans les conditions suivantes.

- 0 et 55°C (quand une unité de base à gamme de température élargie n'est pas utilisée)
- 0 et 60°C (quand une unité de base à gamme de température élargie est utilisée)

Signal layout

Répartition des signaux



Viewed from the front of the module

Pin number	CON1		CON2	
	B	A	B	A
20	NC	NC	NC	NC
19	High-speed input 0 24VDC	High-speed input 0 5VDC	High-speed input 6 24VDC	High-speed input 6 5VDC
18	High-speed input 0 differential	High-speed input 0 common	High-speed input 6 differential	High-speed input 6 common
17	High-speed input 1 24VDC	High-speed input 1 5VDC	High-speed input 7 24VDC	High-speed input 7 5VDC
16	High-speed input 1 differential	High-speed input 1 common	High-speed input 7 differential	High-speed input 7 common
15	High-speed input 2 24VDC	High-speed input 2 5VDC	High-speed input 8 24VDC	High-speed input 8 5VDC
14	High-speed input 2 differential	High-speed input 2 common	High-speed input 8 differential	High-speed input 8 common
13	High-speed input 3 24VDC	High-speed input 3 5VDC	High-speed input 9 24VDC	High-speed input 9 5VDC
12	High-speed input 3 differential	High-speed input 3 common	High-speed input 9 differential	High-speed input 9 common
11	High-speed input 4 24VDC	High-speed input 4 5VDC	High-speed input A 24VDC	High-speed input A 5VDC
10	High-speed input 4 differential	High-speed input 4 common	High-speed input A differential	High-speed input A common
9	High-speed input 5 24VDC	High-speed input 5 5VDC	High-speed input B 24VDC	High-speed input B 5VDC
8	High-speed input 5 differential	High-speed input 5 common	High-speed input B differential	High-speed input B common
7	High-speed output 0	High-speed output 1	High-speed output 4	High-speed output 5
6	High-speed output 2	High-speed output 3	High-speed output 6	High-speed output 7
5	High-speed output 0-3 common	High-speed output common	High-speed output 4-7 common	High-speed output common
4	High-speed output 0 differential +	High-speed output 0 differential -	High-speed output 3 differential +	High-speed output 3 differential -
3	High-speed output 1 differential +	High-speed output 1 differential -	High-speed output 4 differential +	High-speed output 4 differential -
2	High-speed output 2 differential +	High-speed output 2 differential -	High-speed output 5 differential +	High-speed output 5 differential -
1	NC	NC	NC	NC

English	French	English	French
Viewed from the front of the module	Vue de l'avant du module	High-speed output *	Sortie des haut débit *
Pin number	Broche N°	High-speed output *-*	Sortie des haut débit *-*
High-speed input * 24VDC	Entrée des haut débit * 24VDC	High-speed output common	Sortie haut débit commun
High-speed input * 5VDC	Entrée des haut débit * 5VDC	High-speed output * differential +	Sortie des haut débit * différentielle +
High-speed input * differential	Entrée des haut débit * différentielle	High-speed output * differential -	Sortie des haut débit * différentielle -
High-speed input * common	Entrée des haut débit * commun		

Wiring products

The table below shows applicable 40-pin connectors. When wiring, use applicable wires and an appropriate tightening torque.

Mitsubishi 40-pin connector		Wire			
Model	Tightening torque	Diameter	Type	Material	Temperature rating
A6CON1*1	0.20 to 0.29N·m	28 to 22 AWG	Stranded	Copper	75°C or more
A6CON2		28 to 24 AWG			
A6CON4*1		28 to 22 AWG			

*1 Use cables with outside diameter of 1.3mm or shorter to connect 40 cables to the connector. In addition, consider the amount of current to be used and select appropriate cables.

Produits pour câblage

Le tableau ci-dessous indique quels connecteurs 40 broches sont à utiliser. Pour le câblage, utiliser les fils et couples de serrage prescrits.

Connecteur 40-broches Mitsubishi		Fil			
Modèle	Couple de serrage	Diamètre	Type	Matériau	Gamme de température
A6CON1*1	0,20 à 0,29 N·m	28 à 22 AWG	Torsadé	Cuivre	75 °C ou plus
A6CON2		28 à 24 AWG			
A6CON4*1		28 à 22 AWG			

*1 Le diamètre extérieur des câbles utilisés pour les 40 raccordements au connecteur ne doit pas excéder 1,3 mm. Le choix d'une taille de conducteur dépendra de l'intensité du courant à prendre en considération.

Information and services

For further information and services, please consult your local Mitsubishi representative.