

## 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.

### 1. 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 <sup>1</sup>	MELSEC IQ-R Module Configuration Manual [SH-081262ENG]
Detailed information on this product used in standard mode	MELSEC IQ-R Channel Isolated Analog-Digital Converter Module User's Manual (Startup) [SH-081485ENG]
Detailed information on this product used	MELSEC IQ-R Channel Isolated Analog-Digital Converter Module User's Manual (Application) Part 1 [SH-081487ENG]

<sup>1</sup> 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.

### 1. Manuels correspondants

Avant d'utiliser ce produit, prière de lire les "Safety Guidelines" (directive de sécurité) fournis 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

### 2. Packing list

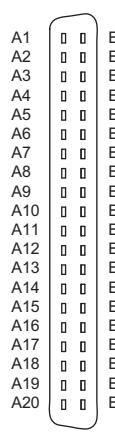
Check that the following items are included in the package of the product.

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

## 3. Signal layout of connector for external devices

### Attribution des signaux de connecteur de dispositifs externes

#### R60AD8-G



Viewed from the front of the module

Pin No.	Signal name	Pin No.	Signal name
A1	CH1 V+	B1	CH1 V-/I-
A2	CH1 I+	B2	—
A3	—	B3	CH2 V+
A4	CH2 V-/I-	B4	CH2 I+
A5	—	B5	—
A6	CH3 V+	B6	CH3 V-/I-
A7	CH3 I+	B7	—
A8	—	B8	CH4 V+
A9	CH4 V-/I-	B9	CH4 I+
A10	—	B10	—
A11	CH5 V+	B11	CH5 V-/I-
A12	CH5 I+	B12	—
A13	—	B13	CH6 V+
A14	CH6 V-/I-	B14	CH6 I+
A15	—	B15	—
A16	CH7 V+	B16	CH7 V-/I-
A17	CH7 I+	B17	—
A18	—	B18	CH8 V+
A19	CH8 V-/I-	B19	CH8 I+
A20	—	B20	—

Viewed from the front of the module

#### R60AD16-G

2A1	2B1	1A1	1B1
2A2	2B2	1A2	1B2
2A3	2B3	1A3	1B3
2A4	2B4	1A4	1B4
2A5	2B5	1A5	1B5
2A6	2B6	1A6	1B6
2A7	2B7	1A7	1B7
2A8	2B8	1A8	1B8
2A9	2B9	1A9	1B9
2A10	2B10	1A10	1B10
2A11	2B11	1A11	1B11
2A12	2B12	1A12	1B12
2A13	2B13	1A13	1B13
2A14	2B14	1A14	1B14
2A15	2B15	1A15	1B15
2A16	2B16	1A16	1B16
2A17	2B17	1A17	1B17
2A18	2B18	1A18	1B18
2A19	2B19	1A19	1B19
2A20	2B20	1A20	1B20

2A1 to 2B20      1A1 to 1B20

Viewed from the front of the module

Pin No.	Signal name						
2A1	CH9 V+	2B1	CH9 V-/I-	1A1	CH1 V+	1B1	CH1 V-/I-
2A2	CH9 I+	2B2	—	1A2	CH1 I+	1B2	—
2A3	—	2B3	CH10 V+	1A3	—	1B3	CH2 V+
2A4	CH10 V-/I-	2B4	CH10 I+	1A4	CH2 V-/I-	1B4	CH2 I+
2A5	—	2B5	—	1A5	—	1B5	—
2A6	CH11 V+	2B6	CH11 V-/I-	1A6	CH3 V+	1B6	CH3 V-/I-
2A7	CH11 I+	2B7	—	1A7	CH3 I+	1B7	—
2A8	—	2B8	CH12 V+	1A8	—	1B8	CH4 V+
2A9	CH12 V-/I-	2B9	CH12 I+	1A9	CH4 V-/I-	1B9	CH4 I+
2A10	—	2B10	—	1A10	—	1B10	—
2A11	CH13 V+	2B11	CH13 V-/I-	1A11	CH5 V+	1B11	CH5 V-/I-
2A12	CH13 I+	2B12	—	1A12	CH5 I+	1B12	—
2A13	—	2B13	CH14 V+	1A13	—	1B13	CH6 V+
2A14	CH14 V-/I-	2B14	CH14 I+	1A14	CH6 V-/I-	1B14	CH6 I+
2A15	—	2B15	—	1A15	—	1B15	—
2A16	CH15 V+	2B16	CH15 V-/I-	1A16	CH7 V+	1B16	CH7 V-/I-
2A17	CH15 I+	2B17	—	1A17	CH7 I+	1B17	—
2A18	—	2B18	CH16 V+	1A18	—	1B18	CH8 V+
2A19	CH16 V-/I-	2B19	CH16 I+	1A19	CH8 V-/I-	1B19	CH8 I+
2A20	—	2B20	—	1A20	—	1B20	—

English	French
Viewed from the front of the module	Vue de l'avant du module

Pin No.	Broche N°
Signal name	Nom de signal

## 4. 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
A6CON1 <sup>1</sup>	0.20 to 0.29N·m
A6CON2	28 to 24 AWG
A6CON4 <sup>1</sup>	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.

### 4. Produits pour câblage

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

Mitsubishi 40-broches	Fil
Modèle	Couple de serrage
A6CON1 <sup>1</sup>	0,20 à 0,29N·m
A6CON2	28 à 24 AWG
A6CON4 <sup>1</sup>	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 de courant à prendre en considération.

## 5. 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)

### 6. 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.

### 6. Montage des modules

Pour installer l'automate programmable dans un tableau de commande, prendre en compte tous les aspects d