1.1 Incorporated Items

- Dual screw (M3 × 10mm) (10 each)
- Dual screw (M3 × 20mm) (1 each)
- 1.5M ASSY conductor wire
- Foam sheet (1 sheet)

1.2. External Dimensions, Part Names, and Terminal Layout

1.2.1. External Dimensions

[Diagram showing external dimensions and terminal layout]

1.2.2. Terminal Layout

[Diagram showing terminal layout]

2. INSTALLATION

2.1. Specifications

- Input voltage: 24V DC
- Current consumption: 10mA
- Insulation resistance: 10MΩ
- Dielectric strength: 500V AC

3. Performance Specifications

- Voltage: ±10%
- Current: ±2%
- Resistance: ±1%
- Temperature: ±0.1%

4. Power Supply Specifications

- Input voltage: 24V DC
- Power consumption: 1W
- Insulation resistance: 10MΩ
- Dielectric strength: 500V AC

5. Input Specifications

- Voltage: ±10%
- Current: ±2%
- Resistance: ±1%
- Temperature: ±0.1%

6. Application

- The FX3U/FX3UC Series PLC can be used with this unit.
- The FX3U-4AD can be used as a unit for the FX3U-4DA/DAD.
- The FX3U-4AD is compatible with the FX3U-4DA/DAD.

7. Accessories

- Dual screw (M3 × 10mm) (10 each)
- Dual screw (M3 × 20mm) (1 each)
- 1.5M ASSY conductor wire
- Foam sheet (1 sheet)

8. Installation

- Before using the unit, make sure that the power supply is turned off.
- Connect the unit to the PLC using the included cable.
- After connecting, turn on the power supply and check the operation.

9. Maintenance

- The FX3U-4AD does not require maintenance.
- Periodic inspection is recommended to ensure proper operation.

10. Troubleshooting

- If the unit does not operate properly, check the following:
  - Input voltage
  - Connection
  - Power supply

11. Warranty

- Warranty period: 1 year from the date of purchase.
- The warranty does not cover damage caused by incorrect installation or misuse.

12. Other Information

- For further information, please refer to the FX3U/FX3UC Series User’s Manual (Hardware Edition).
3.1 Applicable Cable and Terminal Tightening Torque

The terminal tightening torque is 6.8k. Do not tighten terminal screws with a torque outside the abovementioned range. Failure to do so may cause breakage of the product, reduced service life, or failure. Use a torque wrench if necessary.

3.2 Power Supply Wiring

For the power supply wiring, refer to the following manual.

3.3 Wiring of Analog Input

For the terminal layout, refer to Subsection 1.3.5 of the FX5u Series PLC User’s Manual - Analog Control Edition.

4.1 Applicable PLC


4.2 General Specifications


5.1 Input Specifications


5.1.4 Input Specifications


5.2 Power Supply Specifications


5.3 Performance Specifications


5.4 Input Specifications

The input characteristics are set in the input mask, and the input mask can be specified by the user. For details, refer to the FX3U/FX3G/FX5U/FX5UC User’s Manual - Hardware Edition.
# FX3G-4AD INSTALLATION MANUAL

## 1. Incorporated Items

### 1.1. Incorporated Items

- **Model**: FX3G-4AD
- **Quantity**: 1
- **Brand**: Mitsubishi Electric

## 2. Handling Precautions

### 2.1. Compliance with EC directive (CE Marking)

The product complies with the provisions of the EC directive (CE Marking) for electromagnetic compatibility and safety. Before using the product, make sure that all the necessary electrical safety precautions are taken. Otherwise, the product may emit harmful electromagnetic waves.

### 2.2. Handling Precautions

- **Keep the product away from humidity or high-temperature environments.
- **Avoid contact with water or other liquids that may cause electrical shocks.
- **Do not expose the product to direct sunlight or high-temperature environments.
- **Use only the accessories specified in the manual.
- **Do not modify or disassemble the product.

## 3. Compliance with Specifications

### 3.1. Applicable Cable and Terminal Tightening Torque

- **Cable**: 0.2 to 0.25 Nm
- **Terminal**: 6 to 10 cm

### 3.2. Power Supply Module

For the power supply module, follow the instructions in the manual.

### 3.3. Wiring of Analog Input

- **For the terminal layout, refer to Section 1.1.5.**

## 4. Wiring Precautions

### 4.1. Power Supply Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>100 to 240 VAC, 50/60 Hz</td>
</tr>
<tr>
<td>Current</td>
<td>0.5 A</td>
</tr>
<tr>
<td>Power consumption</td>
<td>30 W</td>
</tr>
</tbody>
</table>

## 5. Precautions

### 5.1. Handling Precautions

- **Do not disassemble or modify the product for any reason.
- **Avoid handling or touching the product with bare hands or metal objects.
- **Do not use the product in an environment with high humidity or high-temperature conditions.
- **Do not apply excessive force to the product or its components.

### 5.2. Installation Precautions

- **Install the product in a well-ventilated area.
- **Avoid installing the product in a location with dust or moisture.
- **Ensure that the product is installed according to the instructions in the manual.
- **Use only the accessories specified in the manual.

## 6. Maintenance Precautions

- **Do not use any chemicals or solvents to clean the product.
- **Avoid exposing the product to direct sunlight or high-temperature environments.
- **Always remove the power supply before performing any maintenance or cleaning.
- **Keep the product away from electrical fields or high-frequency environments.

## 7. Warranty

- **The product includes a 1-year warranty on parts and labor.
- **Mitsubishi Electric is not responsible for any problems resulting from the use of the product.
- **The warranty does not cover damage caused by misuse, accident, or natural disasters.

## 8. Compliance with Standards

- **The product complies with the provisions of the EC directive (CE Marking) for electromagnetic compatibility and safety.
- **The product is designed to meet the highest standards of safety and quality.
- **Mitsubishi Electric is committed to continuous improvement and quality assurance.

## 9. Additional Information

- **For more information, refer to the Mitsubishi Electric website.
- **Mitsubishi Electric is committed to providing the highest quality products and services.
- **For any questions or concerns, please contact your local Mitsubishi Electric representative.

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*Mitsubishi Electric Corporation*