1. Safety Precautions

These precautions must be followed when using a controller.

- The controller should not be installed near sources of vibration or impacts which could cause malfunctions.
- Do not connect the controller to the power supply line. Use a power supply unit to connect the controller to the power supply.
- Do not use the controller in an environment with high humidity or where condensation may occur. This can cause electrical shocks or malfunctions.
- Do not expose the controller to direct sunlight or high-temperature environments. This can cause malfunctions or deterioration of the components.
- Do not apply too much force to the controller or its components. This can cause damage or malfunctions.
- Do not use the controller in an environment with high ambient temperature or high-temperature environments such as near a heat source. This can cause malfunctions or damage to the components.
- Do not use the controller in an environment with high humidity or where condensation may occur. This can cause electrical shocks or malfunctions.
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2. Specifications

- The controller is designed for general-purpose control applications. It is suitable for use in a wide range of environments.
- The controller is equipped with a high-performance microcomputer and various input/output functions.
- The controller has a built-in power supply unit and is suitable for use in environments with low power consumption.
- The controller has a high degree of reliability and is suitable for use in environments with high noise levels.
- The controller is equipped with a variety of protective functions such as overvoltage protection and short-circuit protection.
- The controller is equipped with a variety of communication functions such as Ethernet and RS-485.
- The controller is equipped with a variety of diagnostic functions such as alarm logging and trend recording.

3. Wiring

- The terminal configuration is explained in Section 1.2.
- The controller is designed for easy wiring and is equipped with a variety of terminal connectors.
- The controller is equipped with a variety of terminal block types such as screw-type and snap-type.
- The controller is equipped with a variety of terminal block sizes such as small-size and large-size.
- The controller is equipped with a variety of terminal block mounting methods such as panel mounting and DIN rail mounting.
- The controller is equipped with a variety of terminal block connection methods such as screw connection and spring connection.
- The controller is equipped with a variety of terminal block protection methods such as terminal block covers and terminal block guards.

4. Performance Specifications

- The controller is designed for high-speed and high-accuracy control applications.
- The controller is equipped with a variety of performance functions such as high-speed pulse output and high-precision analog output.
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5. Protection

- The controller is equipped with a variety of protective functions such as overvoltage protection and short-circuit protection.
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6. Warnings

- The controller is designed for general-purpose control applications. It is suitable for use in a wide range of environments.
- The controller is equipped with a variety of safety functions such as safety interlocks and safety circuits.
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7. Accessories

- The controller is equipped with a variety of accessories such as terminal blocks, terminal block covers, and terminal block guards.
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8. Service

- The controller is designed for easy maintenance and is equipped with a variety of diagnostic functions.
- The controller is equipped with a variety of diagnostic functions such as alarm logging and trend recording.
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9. Warranty

- The controller is designed for general-purpose control applications. It is suitable for use in a wide range of environments.
- The controller is equipped with a variety of warranty functions such as manufacturer's warranty and service warranty.
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10. Troubleshooting

- The controller is designed for easy troubleshooting and is equipped with a variety of diagnostic functions.
- The controller is equipped with a variety of diagnostic functions such as alarm logging and trend recording.
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### 1. Outline

The MELSEC iQ-F FX5-4DA-ADP is an expansion adapter to add four analog output points.

#### Main Features
- Same units as those in the MELSEC iQ-F FX5-4DA module.
- The expansion adapter is a stand-alone module.
- EXPansion adapter connector (40 pin, on both sides)
- EXPansion adapter slide lock
- EXPansion adapter label
- EXPansion adapter connector cover
- Shielded cable connector to the terminals
- Power supply terminal to the power supply section
- Number of occupied I/O points:
  - Expansion adapter: 0 points
  - MELSEC iQ-F FX5UJ CPU module: 0 point
- Between output channels: Non-isolation
- User’s Manual (Hardware) of the CPU module used.

#### Terminal Configuration
- Terminal configuration and pin assignment are identical to the MELSEC iQ-F FX5UJ CPU module.
- User’s Manual (Software) of the CPU module: Appendix A, section 1.2 External Dimensions, Port Names, and Terminal Layout

#### Specifications
- Connection: Screw terminal
- Output current: ±40 mA
- Output voltage: 0 to 5 V
- Sampling interval: 312.5 ms
- Output resistance: 1.2 kΩ
- Output maximum number of points: 0 point (This number is not related to the maximum number of 128 points of the PLC)
- Output coil consumption: 30 W
- Power consumption: 30 W
- Dimensions: Width 45 mm × Height 45 mm × Depth 30 mm
- Weight: 0.1 kg

### 2. Installation

**CAUTION**

- Do not install on any of the power supply externally before attempting installation or wiring work.
- Always refer to the manuals of the PLC module.

#### Precautions
- Make sure to cut off all phases of the power supply externally before attempting installation or wiring work.
- Always refer to the manuals of the PLC module.

#### MAINTENANCE

- After tightening the terminal, use a continuity check to ensure that the connection is secure.
- Always check that the connection is secure.

#### PRECAUTIONS
- Do not apply excessive force when tightening the terminal.
- Always check that the connection is secure.
- Do not apply excessive force when tightening the terminal.

#### INSTALLATION

- After tightening the terminal, use a continuity check to ensure that the connection is secure.
- Always check that the connection is secure.

#### PRECAUTIONS
- Do not apply excessive force when tightening the terminal.
- Always check that the connection is secure.
- Do not apply excessive force when tightening the terminal.

### 3. Wiring of Analog Input

#### Warnings

- Always refer to the manuals of the PLC module.
- Always refer to the manuals of the PLC module.

#### Precautions
- Always refer to the manuals of the PLC module.
- Always refer to the manuals of the PLC module.

#### Specifications
- Connection: Screw terminal
- Output current: ±40 mA
- Output voltage: 0 to 5 V
- Sampling interval: 312.5 ms
- Output resistance: 1.2 kΩ
- Output maximum number of points: 0 point (This number is not related to the maximum number of 128 points of the PLC)
- Output coil consumption: 30 W
- Power consumption: 30 W
- Dimensions: Width 45 mm × Height 45 mm × Depth 30 mm
- Weight: 0.1 kg

### 4. Performance Specifications

#### Characteristics

- DC supply voltage: 24 V DC (±5%)
- AC supply voltage: 24 to 24 V AC (±5%)
- Power consumption: 30 W
- Dimensions: Width 45 mm × Height 45 mm × Depth 30 mm
- Weight: 0.1 kg

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**Note:**

- Always refer to the manuals of the PLC module.
- Always refer to the manuals of the PLC module.

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**Table:**

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Power supply specifications</td>
<td>DC supply voltage: 24 V DC (±5%)</td>
</tr>
<tr>
<td></td>
<td>AC supply voltage: 24 to 24 V AC (±5%)</td>
</tr>
<tr>
<td></td>
<td>Power consumption: 30 W</td>
</tr>
<tr>
<td></td>
<td>Dimensions: Width 45 mm × Height 45 mm × Depth 30 mm</td>
</tr>
<tr>
<td></td>
<td>Weight: 0.1 kg</td>
</tr>
</tbody>
</table>

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**Figure:**

- Always refer to the manuals of the PLC module.
- Always refer to the manuals of the PLC module.

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**Diagram:**

- Always refer to the manuals of the PLC module.
- Always refer to the manuals of the PLC module.

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**Flowchart:**

- Always refer to the manuals of the PLC module.
- Always refer to the manuals of the PLC module.