Safety Precautions (read these precautions before use)

This manual is a safe place to store it, but it cannot be taken or read elsewhere

The company and product names described in this manual are registered

1.1 Incorporated Items

The external load resistance is (0.35”)

4.2 General Specifications

The version number can be checked by monitoring D8001/D8101 as the last three

4.3 Power Supply Specifications

- FX3U-4DA-ADP analog output special adapter

1.2 External Dimensions, Part Names, and Terminal Layout


2. Wiring


3.3 Wiring of Analog Output

The analog output modules are connected to the PLC main unit and special adapter,

1.3.3 Applicable PLC


2.1.5 Analog special adapters


4.4 Performance Specifications


2.1.2 Special adapter connector:


The analog output modules are connected to the PLC main unit and special adapter,

3.3 Wiring of Analog Input

The analog input modules are connected to the PLC main unit and special adapter,

3.1 Applicable cable and terminal tightening torque


2.1.3 Special adapter connector cover:


The analog input modules are connected to the PLC main unit and special adapter,
3. Wiring

3.1 Wiring of Analog Output

3.2 Power Supply Wiring

4. Specifications

4.1 Applicable PLC

Applicable standards

FX3-4DA-ADP units made in June, 2005 or later comply with the EC Directive (EMC standards) in the following manual:

- FX3S Series Hardware Manual (Manual No. JY997D07001)
- FX3G Series Hardware Manual (Manual No. JY997D12001)
- FX3UC Series Hardware Manual (Manual No. JY997D14001)
- FX3U-4DA-ADP Unit Hardware Manual (Manual No. JY997D45401)
- FX3G Series Hardware Manual (Manual No. JY997D46001)
- FX3U Series Hardware Manual (Manual No. JY997D48601)
- FX3G-05GM/10GM Series Hardware Manual (Manual No. JY997D16801)
- FX3U-4DA-ADP Series Hardware Manual (Manual No. JY997D45401)

Regarding the applicable PLC series, refer to the FX3U-4DA-ADP series hardware manual for more information.

4.2 General Specifications

Hereafter the following are the specifications of the PLC main unit and the add-on module to be used in the analog control.

5. 2.5 mV (10 V/4000) 4

3.2 Power Supply Wiring

For the power supply wiring, refer to the following manuals:


The wiring distance from and to the analog output should be minimized. Reduce the wiring distance between the analog output area and the main unit. Do not install other devices or systems used in purposes related to human life.

4. Specifications

4.1 Applicable PLC

Applicable standards

FX3-4DA-ADP units made in June, 2005 or later comply with the EC Directive (EMC standards) in the following manual:

- FX3S Series Hardware Manual (Manual No. JY997D07001)
- FX3G Series Hardware Manual (Manual No. JY997D12001)
- FX3UC Series Hardware Manual (Manual No. JY997D14001)
- FX3U-4DA-ADP Unit Hardware Manual (Manual No. JY997D45401)
- FX3G Series Hardware Manual (Manual No. JY997D46001)
- FX3U Series Hardware Manual (Manual No. JY997D48601)
- FX3G-05GM/10GM Series Hardware Manual (Manual No. JY997D16801)
- FX3U-4DA-ADP Series Hardware Manual (Manual No. JY997D45401)

Regarding the applicable PLC series, refer to the FX3U-4DA-ADP series hardware manual for more information.

3. wiring

This manual classifies the safety precautions into two categories:

1.1 Incorporated Items

Manufacturer’s information

- Engraved on the product
- Printed on the main unit
- Printed on the inside of the box
- Printed on the printed material

2. manufacture and sales

- Engraved on the product
- Printed on the main unit
- Printed on the inside of the box
- Printed on the printed material

The product is a precision instrument. During transportation, avoid impacts larger than those specified in the general specifications by using dedicated packaging materials. Do not disassemble or modify the PLC. Doing so may cause fire, equipment failures, or malfunctions.

The grounding wire size should be AWG 22-20 (0.3-0.5 mm2).

- Stick terminal with insulating sleeve

Failure to do so may cause electric shock, equipment failures, a short-circuit, or physical damage.

1.2 External Dimensions, Part Names, and Terminal Layout

Note: This product is designed for use in product applications.

Failure to do so shall be at the sole risk of the user. For the operation of the installation procedures, refer to the following manual:


1) Tilt of the power

The product is designed for use in product applications. Do not use the product in another purpose than the product. Confirm the specifications of the product before use.

Failure to do so shall be at the sole risk of the user. For the operation of the installation procedures, refer to the following manual:


1) Tilt of the power

The product is designed for use in product applications. Do not use the product in another purpose than the product. Confirm the specifications of the product before use.

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1) Tilt of the power

The product is designed for use in product applications. Do not use the product in another purpose than the product. Confirm the specifications of the product before use.

Failure to do so shall be at the sole risk of the user. For the operation of the installation procedures, refer to the following manual:

3. Wiring

PRECAUTIONS

WARNING

When wiring terminals, wires, wire cutters, or pliers are used, be sure to use appropriate tools or equipment.

Failure to do so may cause equipment failures or malfunctions.

• Be sure to tighten the screws firmly. When using the wiring tool provided for using terminal blocks, do not turn the knob to the end. Failure to do so may cause equipment failures or malfunctions.

3.1 Wiring of Output

For field-terminal connection, refer to Section 1.2

4.2 General Specifications

Hereafter the following are the specifications of the PLC main unit.

For additional information, refer to the respective PLC user’s manual Hardware Edition.

4. Power Supply Specifications

Item

Spec.

Specifi cations

Note

4.1. Incorporating the PLC into the system

The grounding wire size should be 1.5 to 2.5 mm² (AWG14 to AWG10).

4.4. Grounding

Ensure that the PLC is grounded properly to prevent electromagnetic interference.

The external load resistance is

Rs = 4 to 20 mA DC

The data will be updated at every scan time of the PLC.

Rs × 47 kΩ (External load: 500 V AC for one minute Between all terminals and ground terminal of PLC)

500 V AC for one minute

Between all terminals and ground terminal of PLC

Grounding should be performed as stated below.

• Independently grounding should be performed to prevent bad results when connecting different ground terminals.

For details, refer to the respective PLC user’s manual Hardware Edition.

The grounding wire should be less than 2 mm² (AWG14). Use copper wire with stranded wire for grounding.

The grounding wire size should be 2 to 3 mm² (AWG12). Use copper wire with stranded wire for grounding.

Upon grounding, be sure to observe the PLC manufacturer’s instructions listed in the respective PLC user’s manual Hardware Edition.

5) Use the product within the general measurement specifications described in PLC user’s manual Hardware Edition.

The DC/DC converter is adopted to insulate the power supply system from PLC under the influence of noise:

Failure to do so may cause failures in the product.

Deterioration or damage may occur.

If the product is used in such conditions, electric shock, fire, malfunctions, impacts, or expose it to high temperature, condensation, or rain and wind.

With the analog output lines from other power lines or inductive lines.

The analog output lines from other power lines or inductive lines.

The analog output lines from other power lines or inductive lines.

Deterioration or damage may occur.

If the product is used in such conditions, electric shock, fire, malfunctions, impacts, or expose it to high temperature, condensation, or rain and wind.

With the analog output lines from other power lines or inductive lines.

The analog output lines from other power lines or inductive lines.

Deterioration or damage may occur.

If the product is used in such conditions, electric shock, fire, malfunctions, impacts, or expose it to high temperature, condensation, or rain and wind.

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