

FX3G-5DM

INSTALLATION MANUAL



Manual Number	JY997D33801
Revision	F
Date	January 2017

This manual describes the part names, dimensions, mounting, and specifications of the product. Before use, read this manual and the manuals of all relevant products fully to acquire proficiency in handling and operating the product. Make sure to learn all the product information, safety information, and precautions. Store this manual in a safe place so that it can be taken out and read whenever necessary. Always forward it to the end user.

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Effective January 2017
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Safety Precautions (Read these precautions before use.)

This manual classifies the safety precautions into two categories:

WARNING and **CAUTION**

WARNING	Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.
CAUTION	Indicates that incorrect handling may cause hazardous conditions, resulting in medium or slight personal injury or physical damage.

Depending on the circumstances, procedures indicated by **CAUTION** may also cause severe injury. It is important to follow all precautions for personal safety.

Associated Manuals

Manual name	Manual No.	Description
FX3G Series User's Manual - Hardware Edition	JY997D31301 MODEL CODE: 09R521	Explains the FX3G Series PLC specifications for I/O, wiring, installation, and maintenance.

How to obtain manuals

For product manuals or documents, consult with the Mitsubishi Electric dealer from who you purchased your product.

Applicable standards

FX3G-5DM units made in November, 2008 or later comply with the EC Directive (EMC Directive). Further information can be found in the following manual.
→ **FX3G Series Hardware Manual (Manual No. JY997D46001)**

Attention

This product is designed for use in industrial applications.

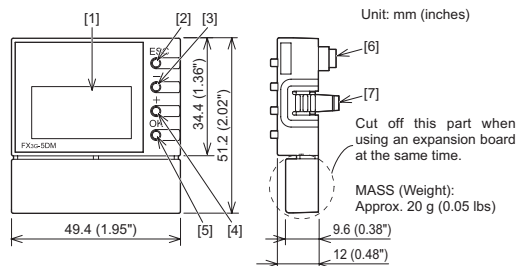
1. Outline

The FX3G-5DM display module (hereinafter called display module) is installed to the FX3G main unit to monitor/change device states and values.

1.1 Incorporated Items

Product	FX3G-5DM display module
Included items	Installation Manual (This manual)

1.2 External Dimensions and Part Names



No.	Name	Description
[1]	Display	Displays current time and monitored status of device.
[2]	"ESC" button	Use to cancel operation or return to previous screen.
[3]	"-" button	Use to move cursor or set the value.
[4]	"+" button	Use to move cursor or set the value.
[5]	"OK" button	Use to choose the item, set the value, etc.
[6]	Connector for main unit	Used to connect display module to main unit.
[7]	Display module fixing hook	Used to fix display module to main unit.

2. Installation

INSTALLATION PRECAUTIONS **WARNING**

- Make sure to cut off all phases of the power supply externally before attempting installation or wiring work. Failure to do so may cause electric shock or damage to the product.

INSTALLATION PRECAUTIONS **CAUTION**

- Use the product within the generic environment specifications described in PLC main unit manual (Hardware Edition). Never use the product in areas with excessive dust, oily smoke, conductive dusts, corrosive gas (salt air, Cl₂, H₂S, SO₂, or NO₂), flammable gas, vibration or impacts, or expose it to high temperature, condensation, or rain and wind. If the product is used in such conditions, electric shock, fire, malfunctions, deterioration or damage may occur.
- Do not touch the conductive parts of the product directly. Doing so may cause device failures or malfunctions.
- Connect the display module securely to their designated connectors. Loose connections may cause malfunctions.

The following section describes the installation method for the FX3G Series PLC (FX3G-40M□). In this example.

Turn off the power to the PLC before installation.

For more details on installation and removal, refer to the PLC main unit manual.
→ **FX3G Series User's Manual - Hardware Edition**

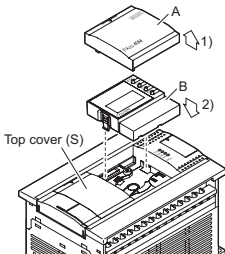
2.1 When Installing the Memory Cassette Directly to the Main Unit

1) Remove the top cover (A) in the figure on the right).

Caution

Display module cannot attach to the top cover(S) side of a 40/60-point types main unit.

2) Make sure the display module (B in the figure on the right) is in parallel with the main unit and attach it to the optional equipment connector.

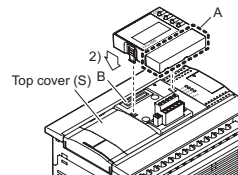


2.2 When Using the Memory Cassette Together with an Expansion Board

Assuming that the expansion board is attached to the main unit. The connector cover for the expansion board is removed.

To attachment of the expansion board, refer to the following manual.
→ **FX3G Series User's Manual - Hardware Edition**

- Cut off the part A shown in the right figure (display module).
- Make sure the display module is in parallel with the main unit and attach it to the optional equipment connector (B in the figure on the right).



Caution

Display module cannot attach to the top cover(S) side of a 40/60-point types main unit.

For details on installation and removal, refer to the following manual.
→ **FX3G Series User's Manual - Hardware Edition**

3. Specifications

STARTUP AND MAINTENANCE PRECAUTIONS **CAUTION**

- Do not disassemble or modify the PLC. Doing so may cause fire, equipment failures, or malfunctions. * For repair, contact your local Mitsubishi Electric representative.
- Do not drop the product or exert strong impact to it. Doing so may cause damage.

DISPOSAL PRECAUTIONS **CAUTION**

- Please contact a certified electronic waste disposal company for the environmentally safe recycling and disposal of your device.

TRANSPORT AND STORAGE PRECAUTIONS **CAUTION**

- The product is a precision instrument. During transportation, avoid impacts larger than those specified in the general specifications by using dedicated packaging boxes and shock-absorbing palletes. Failure to do so may cause failures in the product. After transportation, verify operation of the product and check for damage of the mounting part, etc.

3.1 Applicable PLC

Model name	Applicability
FX3G Series PLC	Ver. 1.10 or later

• Only one display module can be used per main unit.
For details on the system configuration, refer to the following manual.
→ **FX3G Series User's Manual - Hardware Edition**

3.2 General Specifications

The general specifications are equivalent to the PLC main unit. For general specifications, refer to the following manuals.
→ **FX3G Series User's Manual - Hardware Edition**

3.3 Display Specifications

Item	Specifications
Display device	STN monochrome liquid crystal display
Backlight	Green LED backlight
Displayed letters	Number of letters 16 letters (half-width character) × 4 lines
	Character Alphabets, Numbers, Japanese character
	Language for menu display English/Japanese
Button	4 operation buttons (OK, ESC, +, and -)

4. Function List

The functions of a display module are listed as follows:
For details on the functions, refer to the following manuals.
→ **FX3G Series User's Manual - Hardware Edition**

- Monitor/Test
- ErrorCheck
- LANGUAGE
- Contrast adjust
- Clock setting
- Keyword
- Memory cassette transfer
- Operation button ON/OFF information
- Hexadecimal current value display setting
- Display screen protect function
- Specified device monitor function
- Screen saver function

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可编程控制器	○	○	○	○	○	○
外壳	○	○	○	○	○	○
印刷基板	×	○	○	○	○	○

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For safe use

- This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- Before using the product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi Electric.
- This product has been manufactured under strict quality control. However when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.