



FX3U-7DM USER'S MANUAL

Manual Number	JY997D17101
Revision	A
Date	May 2005

This manual describes the part names, dimensions, mounting, and specifications of the product. Before use, read this manual and manuals of relevant products fully to acquire proficiency in handling and operating the product. Make sure to learn all the product information, safety information, and precautions.

And, store this manual in a safe place so that you can take it out and read it whenever necessary. Always forward it to the end user.

Registration
The company name and the product name to be described in this manual are the registered trademarks or trademarks of each company.

Effective May 2005
Specifications are subject to change without notice.
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Safety Precaution (Read these precautions before use.)

This manual classifies the safety precautions into two categories:

⚠ DANGER and **⚠ CAUTION**.

⚠ DANGER	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 circumstances, procedures indicated by **⚠ CAUTION** may also be linked to serious results.
In any case, it is important to follow the directions for usage.

Associated Manuals

Manual name	Manual No.	Description
FX3U-7DM-HLD User's Manual	JY997D15401	Explains external dimensions, installation, and specifications of FX3U-7DM-HLD display module holder.
FX3U Series User's Manual - Hardware Edition	JY997D16501 MODEL CODE: 09R516	Explains FX3U Series PLC specification details for I/O, wiring, installation, and maintenance.

For the operation of the display module, refer to the PLC main unit manual.

Note: FX3UC Series PLC specification details for I/O, wiring, installation, and maintenance can only be found in the Japanese Manual.

→ Refer to FX3U Series User's Manual - Hardware Edition

How to obtain manuals

For the necessary product manuals or documents, consult with the Mitsubishi Electric dealer from where you purchase your product.

Applicable standard

FX3U-7DM made in May, 2005 or later complies with the EC Directive (EMC Directive). Further information can be found in the following manual. However, FX3UC-32MT-LT does not comply with EC Directive (EMC Directive).

→ Refer to FX3U Series Hardware Manual (Manual No. JY997D18801)

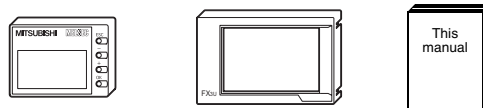
1. Outline

The FX3U-7DM display module (hereinafter called display module) is installed to the FX3U / FX3UC Series PLC main unit (FX3UC-32MT-LT provided as standard equipment) to display messages (alphabet, numbers, and Japanese characters) or to monitor/change device states.

1.1 Incorporated Items

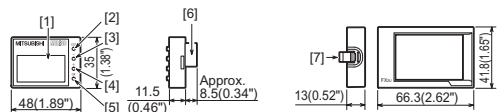
Check if the product and accessories shown below are included in the package:

FX3U-7DM display module Display module mounting top cover Manual



1.2 External Dimensions and Part Names

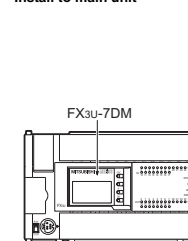
Unit: mm (inches)
 MASS (Weight): Display module 20g (0.05lbs)
 Display module mounting top cover 10g (0.03lbs)



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]	Top cover fixing hook	Fixes the display module installing top cover on PLC.

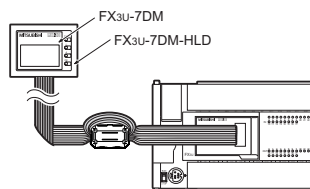
1.3 Installation Example

Install to main unit



Install to control panel

→ For installation, refer to FX3U-7DM-HLD User's Manual.



2. Installation and Remove

INSTALLATION PRECAUTIONS **⚠ DANGER**

- Cut off all phases of the power source externally before starting the installation or wiring work, thus avoiding electric shock or damages to the product.

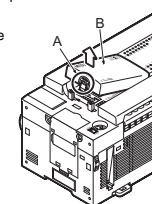
INSTALLATION PRECAUTIONS **⚠ CAUTION**

- Use the product in the environment within the general specifications described in PLC main unit manual (Hardware Edition). Never use the product in areas with dust, oily smoke, conductive dusts, corrosive gas (salt air, Cl₂, H₂S, NH₃, SO₂, or NO₂), flammable gas, vibrations or impacts, or expose it to high temperature, condensation, or wind and rain. If the product is used in such a place described above, electrical shock, fire, malfunction, damage, or deterioration may be caused.
- Do not touch the conductive parts of the product directly, thus avoiding failure or malfunction.
- Fix the display module securely to the specified connector. Incorrect connection may cause malfunction.

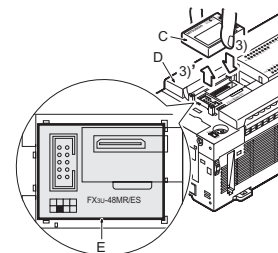
Installation to and removal from the FX3U Series PLC is shown below.
 For installing to and removing from the FX3UC Series PLC main unit, refer to FX3UC Series PLC main unit manual.

However, FX3UC Series PLC manual is only available in Japanese.

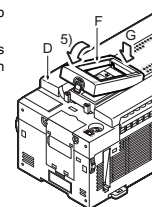
- 1) Turn off the power.
- 2) Pushing the top cover hook (right fig. A), remove the top cover (right fig. B), as shown in the right figure.



- 3) When installing
 Install the display module (right fig. C) to E on the main unit (right fig. D) as indicated with the arrow 3).
 When removing
 Remove the display module (right fig. C) from the main unit (right fig. D) as indicated with the arrow 3').



- 4) Place the G side of the display module mounting top cover (right fig. F) onto the main unit (right fig. D).
- 5) The display module mounting top cover (right fig. F) is installed in the Main module (right fig. D) as shown in the right figure.



3. Specification

STARTUP AND MAINTENANCE PRECAUTIONS **⚠ CAUTION**

- Do not disassemble or modify the unit. Doing so may cause failure, malfunction or fire.
 * For repair, contact your local Mitsubishi Electric distributor.
- Do not drop the product or do not exert strong impact, doing so may cause damage.

DISPOSAL PRECAUTIONS **⚠ CAUTION**

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

TRANSPORT AND STORAGE PRECAUTIONS **⚠ CAUTION**

- During transportation avoid any impact as the product is a precision instrument. Check the operation of the product after transportation.

3.1 Applicable PLC

Model	Applicability
FX3U Series PLC	Ver. 2.00 (from the first product) and later
FX3UC Series PLC*	Ver. 1.00 and later

* FX3UC-32MT-LT has this display module provided as standard equipment.

3.2 Display Specifications

Item	Description	
Display device/ backlight	STN monochrome liquid crystal display/ Backlight: LED (green)	
Displayed letters	Number of letters	16 letters × 4 lines (2 byte letter: 8 letters × 4 lines)
	Character	Alphabets, Numbers, Japanese character, Shift JIS Level-1, 2
	Language for menu display	Japanese/English
Button	4 operation buttons (OK, ESC, +, and -)	

3.3 General Specifications

General specifications are the same as the PLC main unit. For general specifications, refer to the following manual.

→ Refer to FX3U Series User's Manual - Hardware Edition

3.4 Power Supply Specifications

5V DC, 20 mA is supplied from the internal power supply in main unit.

4. Function List

For the function list, refer to the PLC main unit manual.
 However, FX3UC Series PLC manual is only available in Japanese.

→ For FX3U Series PLC, refer to FX3U Series User's Manual - Hardware Edition

This manual confers no industrial property rights or any rights of any other kind, nor does it confer any patent licenses. Mitsubishi Electric Corporation cannot be held responsible for any problems involving industrial property rights which may occur as a result of using the contents noted in this manual.

Warranty

Mitsubishi will not be held liable for damage caused by factors found not to be the cause of Mitsubishi; machine damage or lost profits caused by faults in the Mitsubishi products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi; damages to products other than Mitsubishi products; and to other duties.

⚠ 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.