MITSUBISHI

PROGRAMMABLE CONTROLLER

MELSEC-A

User's Manual

Memory card interface unit type A7GT-MIF

MITSUBISHI ELECTRIC

REVISIONS

*The manual number is given on the bottom left of the back cover.

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INTRODUCTION

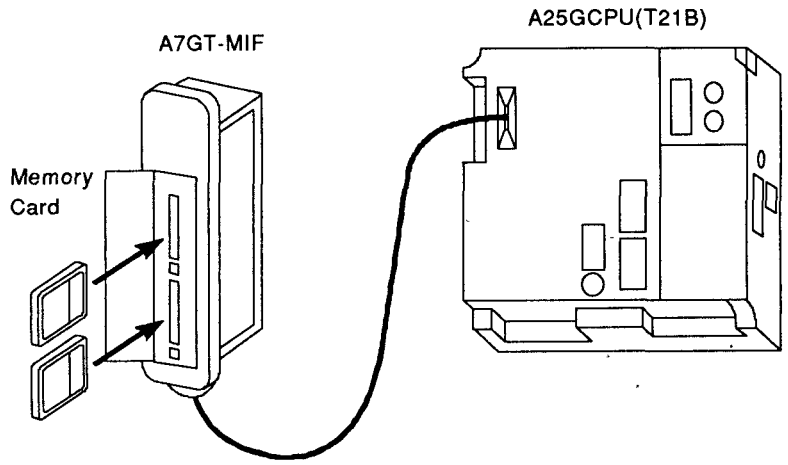
Thank you for choosing the Mitsubishi MELSEC-A Series of General Purpose Programmable Controllers. Please read this manual carefully so that the equipment is used to its optimum. A copy of this manual should be forwarded to the end User.

CONTENTS

1. GENERAL DESCRIPTION

This User's Manual explains the specifications and installation procedures for the A7GT-MIF memory card interface unit.
To complete this installation, it will be necessary to refer to the Reference Manual for the graphic operation terminal.

A7GT-MIF is the memory card interface unit connected (to be done) directly to the graphic operation terminal (hereafter called GOT) and then both are installed to the control panel.
Two A6MEM type memory cards can be inserted in the A7GT-MIF. The data which has been monitored for the GOT, and the data which has been collected by GOT can be stored in the applicable memory card.



After unpacking A7GT-MIF, confirm the following products.

Product name	Number
A7GT-MIF type memory card interface unit	1

* The connection cable with GOT and the memory card should be prepared by the user.

2. SPECIFICATIONS

2.1 General Specifications

<table>
<tr><th>Item</th><th colspan="5">Specifications</th></tr>
<tr><td>Operating ambient temperature</td><td colspan="5">0 to 55 °C</td></tr>
<tr><td>Storage ambient temperature</td><td colspan="5">-20 to 75 °C</td></tr>
<tr><td>Operating ambient humidity</td><td colspan="5">10 to 90% RH, no condensation</td></tr>
<tr><td>Storage ambient humidity</td><td colspan="5">10 to 90% RH, no condensation</td></tr>
<tr><td rowspan="3">Vibration resistance</td><td rowspan="3">Conforms to *JIS C 0911</td><td>Frequency</td><td>Acceleration</td><td>Amplitude</td><td>Sweep Count</td></tr>
<tr><td>10 to 55 Hz</td><td>———</td><td>0.075 mm (0.003 inches)</td><td rowspan="2">10 times [*1octave /minute]</td></tr>
<tr><td>55 to 150 Hz</td><td>9.8m/s^2 (1 g)</td><td>———</td></tr>
<tr><td>Shock resistance</td><td colspan="5">Conforms to JIS C 0912 (10 g x 3 times in 3 directions)</td></tr>
<tr><td>Noise resistance</td><td colspan="5">By noise simulator 1500 Vpp noise voltage, 1 μs noise width and 25 to 60 Hz noise frequency</td></tr>
<tr><td>Operating ambience</td><td colspan="5">No corrosive gases, dust, or oil mist.</td></tr>
<tr><td>Cooling method</td><td colspan="5">Self-cooling</td></tr>
</table>

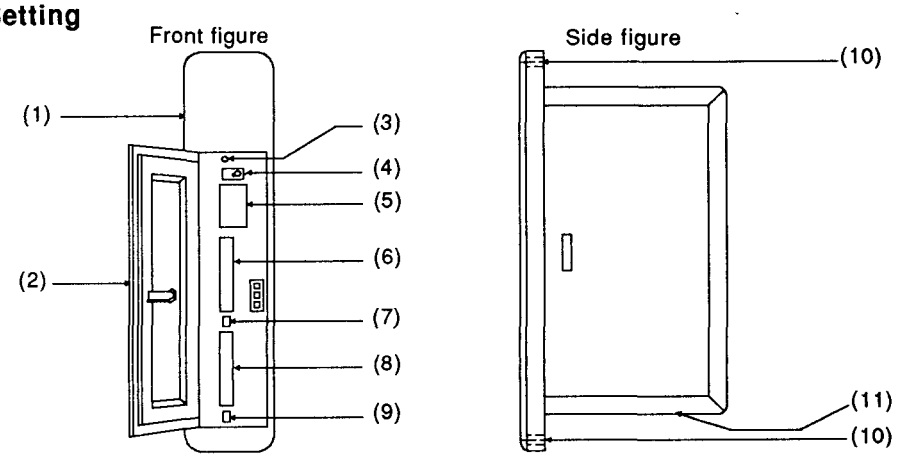
*JIS: Japanese Industrial Standard

2.2 Performance Specifications

Item	Specifications
Applicable device	A52GCPU-[ ], A77GOT-[ ]
Power supply	Power is received from an applicable device (5 VDC)
Use	For storing monitored data, collected data, and snapshot data to the memory card
Memory card interface	2 slots
Applicable memory card	A6MEM-256KAW (256 Kbytes), A6MEM-512KAW (512 Kbytes) (Prepared by the user)
Connection cable with GOT	AC05MIF (0.5m), AC30MIF (3m) (Prepared by the user)
Online insert/remove of a connection cable	Disabled
Internal current consumption (5 VDC)	0.1
Outside dimensions mm (inch)	274 (H) x 54 (W) x 119 (D) (10.8 x 2.13 x 4.69)
Weight kg (lb)	0.98 (2.17)

3. NOMENCLATURE AND SETTING

3.1 Nomenclature and Setting



Number	Name	Contents
(1)	A7GT-MIF	———
(2)	Cover	Open this cover when inserting or removing a memory card.
(3)	Memory card LED	Indicates whether the memory card can be inserted/removed. Lit: Insert/remove prohibited When the (4) memory card access switch is set to ON. Unlit: Insert/remove enabled When the (4) memory card access switch is set to OFF.
(4)	Memory card access switch	Turned ON/OFF when inserting or removing a memory card when the power supply is ON. ON: After a memory card is inserted (Access is enabled from GOT.) OFF: Before a memory card is inserted/removed (Access is prohibited from GOT.) (The switch is factory-set to OFF.)
(5)	Memory protect setting switch	Perform the following settings in preparation for a memory card to be inserted in memory card interface-1. (See Section 3.2.) • Memory protect YES/NO • Memory protect range (All switches are factory-set to OFF.)
(6)	Memory card interface-1	Used to install a memory card (With a memory protect function)
(7)	EJECT button	Press this button to take out the memory card installed in the (6) memory card interface-1.
(8)	Memory card interface-2	Used to install a memory card (Without a memory protect function)
(9)	EJECT button	Press this button to take out the memory card installed in the (8) memory card interface-2.
(10)	Body installing screw hole	Fix A7GT-MIF to the control panel, etc. by using screw (M4). (See Section 4.3) Tightening torque range (N cm) should be 118 to 187 (12 to 19 kg cm)
(11)	GOT connection interface	Used to connect the connection cable between GOT and A7GT-MIF. (See Section 4.4)

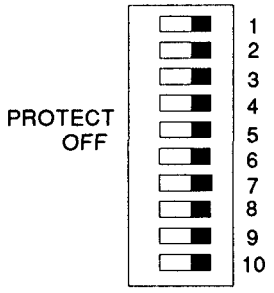
3.2 Setting of a Memory Protect Setting Switch

Set whether the memory card which is installed in memory card interface-1 is protected, and set the memory protect range.
Memory protect is available in the range of 0 to 1 Mbytes. The memory protect range can be set in the 128 Kbytes unit.

When the memory is not protected, set the memory protect setting switch to OFF.
When the memory is protected, perform the following settings.

(1) Set memory protect setting switch 1 to ON (memory protect valid).
(2) Set the memory protect range from memory protect setting switches 3 to 10.

The setting contents and the memory protect range of a memory protect setting switch are shown below.
(All switches are factory-set to OFF.)



Switch number	Setting contents	
1	ON: memory protect is valid. (Set it in the range of 3 to 10.) OFF: memory protect is invalid.	
2	Unused (it is set to OFF)	
3	Memory protect range	0_H to $1FFFF_H$
4		20000_H to $3FFFF_H$
5		40000_H to $5FFFF_H$
6		60000_H to $7FFFF_H$
7		80000_H to $9FFFF_H$
8		$A0000_H$ to $BFFFF_H$
9		$C0000_H$ to $DFFFF_H$
10		$E0000_H$ to $FFFFF_H$

4. INSTALLATION

4.1 Precaution on Handling

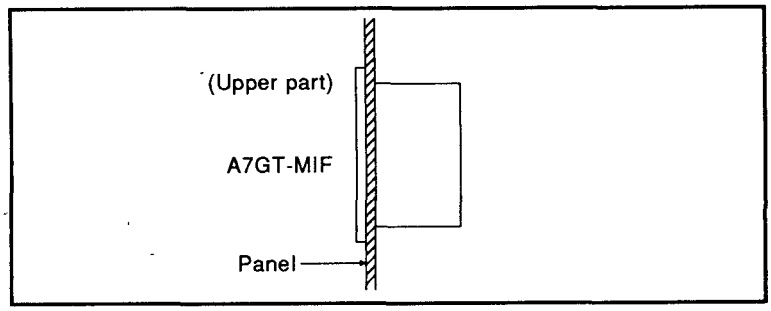
(1) Protect the A7GT-MIF from being dropped or from any sudden impacts.

(2) Do not remove the front cover from the unit.

(3) Ensure that no conductive debris can enter the module. If it does, make sure that it is removed. Guard particularly against wire offcuts.

(4) When installing the unit to the control panel, the tightening screws (M4) should be 118 to 187 N·cm (12 to 19 kg·cm).

(5) When installing the unit to the control panel, the upper part should be positioned as shown below. (A unit cannot be installed horizontally.)



4.2 Installation Environment

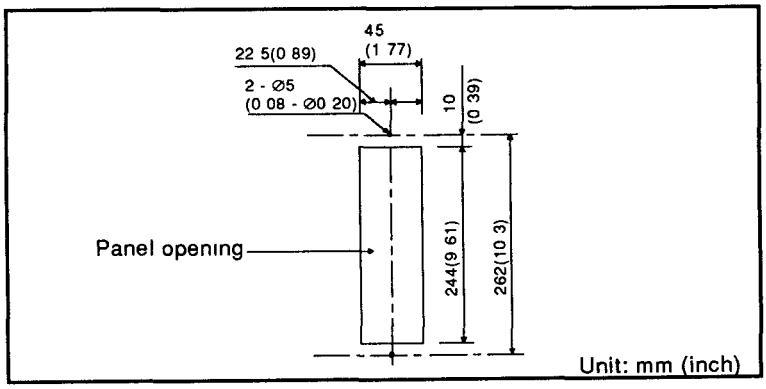
When installing A7GT-MIF, follow Chapter 2 of this manual and also refer to the pertaining to the installation environment of GOT (described in the User's Manual).
When GOT has an indicator, follow its temperature range rathr than that of its display part.

4.3 Installation of a Unit

A unit is installed to a control panel, by using the body installing screws (prepared by the user).

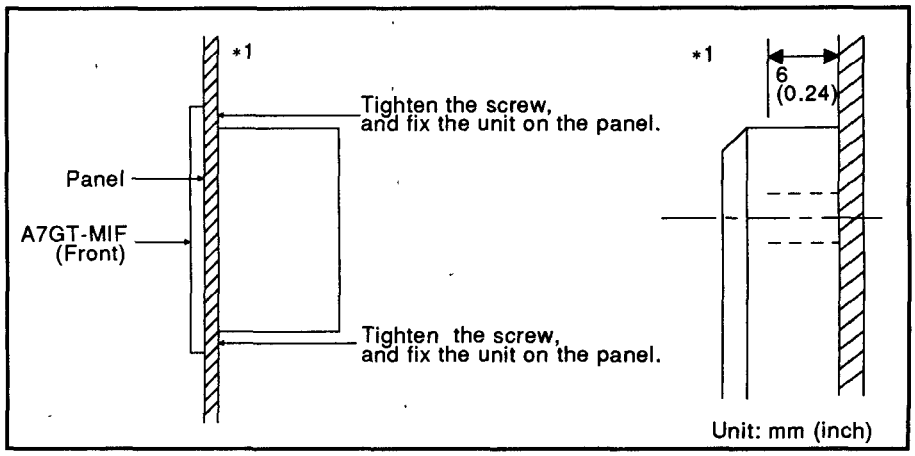
(1) Processed installation panel measure

When installing a unit to the door of a control panel or to a mount has been created by the user, it is necessary to process both the door and the mount.



(2) Installation method

Put the body from the front side of the panel.
Then, tighten the body installing screws (M4 x (4 + panel width)) from the back side.The valid tightening depth of the screw of a unit (*1) is 6 mm (0.24 inches).
Prepare screws according to the panel width.

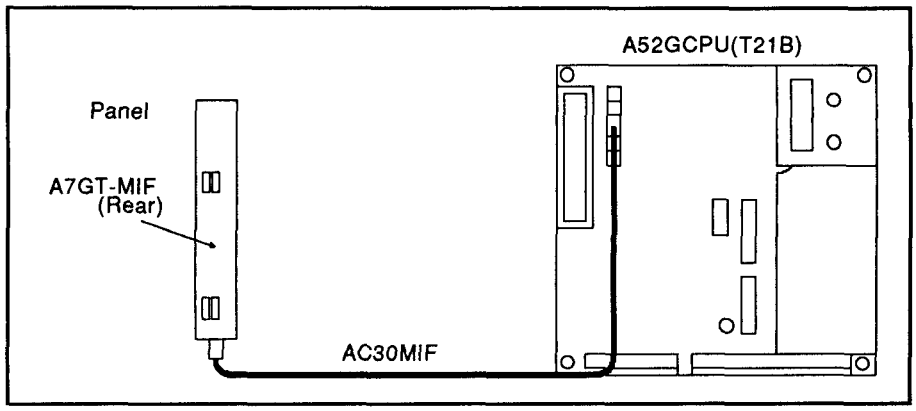


4.4 Connection with GOT

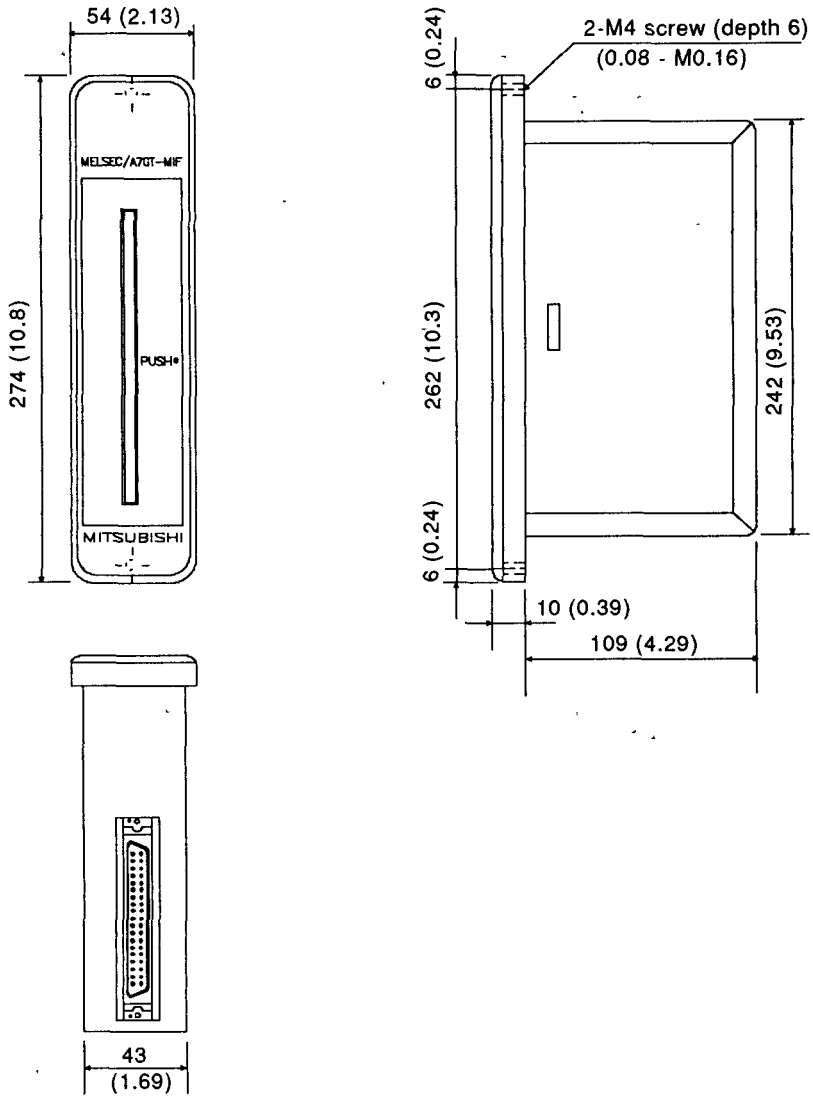
Connect GOT and A7GT-MIF by using the dedicated following connection cable.

- AC05MIF: length 0.5 m (19.7 inches)
- AC30MIF: length 3 m (118.1 inches)

The following figure is an example when A7GT-MIF is connected to an A52GCPU(T21B).



5. OUTSIDE DIMENSIONS



Unit: mm (inch)

MEMO

IMPORTANT

(1) Design the configuration of a system to provide an external protective or safety inter locking circuit for the PCs.

(2) The components on the printed circuit boards will be damaged by static electricity, so avoid handling them directly. If it is necessary to handle them take the following precautions.

(a) Ground human body and work bench.

(b) Do not touch the conductive areas of the printed circuit board and its electrical parts with and non-grounded tools etc.

Under no circumstances will Mitsubishi Electric be liable or responsible for any consequential damage that may arise as a result of the installation or use of this equipment.

All examples and diagrams shown in this manual are intended only as an aid to understanding the text, not to guarantee operation. Mitsubishi Electric will accept no responsibility for actual use of the product based on these illustrative examples.

Owing to the very great variety in possible applications of this equipment, you must satisfy yourself as to its suitability for your specific application

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