Before using this product, please read this manual and the relevant manuals introduced in this manual carefully and pay full attention to safety to handle the product correctly. The instructions given in this manual are concerned with this product. For the safety instructions of the programmable controller system, please read the CPU module user's manual. In this manual, the safety instructions are ranked as "WARNING" and "CAUTION".

Note that the CAUTION level may lead to a serious consequence according to the circumstances. Always follow the instructions of both levels because they are important to personal safety.

Please save this manual to make it accessible when required and always forward it to the end user.

[Test Operation Precautions]

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before performing test operation (bit device on/off, word device's present value changing, timer/counter's set value and present value changing, buffer memory's present value changing) for a user-created monitor screen, read the manual carefully to fully understand how to operate the equipment. During test operation, never change the data of the devices which are used to perform significant operation for the system. False output or malfunction can cause an accident.</td>
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</table>
REVISIONS

<table>
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<tr>
<th>Print Date</th>
<th>* Manual Number</th>
<th>Revision</th>
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<tr>
<td>Aug., 2000</td>
<td>SH (NA) 080116-A</td>
<td>Partial corrections, SAFETY PRECAUTIONS, About Manuals, MODEL CODE change</td>
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<tr>
<td>Jun., 2004</td>
<td>SH (NA) 080116-B</td>
<td>Changed from 13JU07 to 1DM141</td>
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INTRODUCTION

Thank you for choosing the Mitsubishi Graphic Operation Terminal.
Before using the equipment, please read this manual carefully to use the equipment to its optimum.

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- Related manual

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<th>Manual name</th>
<th>Manual number (Model code)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describes how to install GT Works Version5/GT Designer Version5 into a personal computer and how to browse the online manuals. (Found in the packing of the GT Works Version5/GT Designer Version5)</td>
<td></td>
</tr>
<tr>
<td>Deals with the system configuration of GT Works Version5/GT Designer Version5, the screen makeup of the GT Designer, the general description of various monitoring functions, the procedure for displaying the monitor screen on the GOT, and how to use the help function. (Available as option)</td>
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<td><strong>GT Simulator Version5 Operating Manual</strong></td>
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<tr>
<td>Explains the system configuration, screen makeup and using methods of GT Simulator. (Available as option)</td>
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<tr>
<td>Gives the specifications, system configuration, setting method and connection diagram of each connection form available for the GOT-A900 series. (Available as option)</td>
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<td><strong>A985GOT/A975GOT/A970GOT/A960GOT User’s Manual</strong></td>
<td>SH-4005 (1DM099)</td>
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<td>Explains the specifications, general system configuration, component devices, part names, option unit loading methods, installation and wiring methods, maintenance and inspection methods, and error codes of A985GOT/A975GOT/A970GOT/A960GOT unit. (Available as option)</td>
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<td><strong>A950GOT/A951GOT/A953GOT/A956GOT User’s Manual</strong></td>
<td>SH-080018 (1DM103)</td>
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<td>Explains the specifications, general system configuration, component devices, part names, option unit loading methods, installation and wiring methods, maintenance and inspection methods, and error codes of A950GOT/A951GOT/A953GOT/A956GOT unit. (Available as option)</td>
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<tr>
<td>Provides the specifications of the utility, system monitoring, ladder monitoring, special function unit monitoring, network monitoring functions and list editor functions available for the GOT-A900 series and how to operate the dedicated monitor screen. (Available as option)</td>
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Abbreviations and generic terms used in this manual are described as follows:

<table>
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<tr>
<th>Abbreviations and generic terms</th>
<th>Description</th>
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<td><strong>GOT</strong></td>
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<tr>
<td>A985GOT</td>
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<td><strong>Communication board</strong></td>
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<td>Bus connection board</td>
<td>Generic term of A9GT-QUSS, A9GT-QUBUS2, A9GT-QUSS2 and A9GT-QUBUS2S</td>
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<td><strong>Software</strong></td>
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<td>GT Works Version5</td>
<td>SW5DSC-GTWORKS-E software package</td>
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<td>GT Designer Version5</td>
<td>Generic term of SW5DSC-GOTR-PACKE software package and SW5DSC-GOTR-PACKEV software package</td>
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<td>GT Designer</td>
<td>Abbreviation of image creation software GT Designer for GOT900</td>
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<td>GT Simulator</td>
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<td>GT Converter</td>
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<td>GT Debugger</td>
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<tr>
<td>GT Manager</td>
<td>Abbreviation of GT Manager data editing software for GOT900</td>
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<td>AnNCPU</td>
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<td>ACPU (Large Type)</td>
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<td>Generic term of A1SCPU, A1SHCPU, A2SCPU and A2SCPU CPU units</td>
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<td>Generic term of A2US(H)CPU, AnS(H)CPU and A1SJ(H)CPU CPU units</td>
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<tr>
<td><strong>Others</strong></td>
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<tr>
<td>Memory</td>
<td>Abbreviation of memory (flash memory) in the GOT</td>
</tr>
<tr>
<td>OS</td>
<td>Abbreviation of GOT system software</td>
</tr>
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<td>Object</td>
<td>Setting data for dynamic image</td>
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<td>Personal Computer</td>
<td>Personal computer where the corresponding software package is installed</td>
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</tbody>
</table>
CHAPTER 1 FUNDAMENTAL KNOWLEDGE

This manual describes procedures for creating a simple screen and monitoring with the GOT for learning basic operations.
If using the GOT for the first time, read this manual to become familiar with operation of the GOT and the GT Designer.

POINT

The screen data and sequence programs created in Chapters 3 and 4 of this manual are packed with GT Designer.
Use them as required to check settings, for example.

1.1 About GOT

(1) What is the GOT?
The GOT can be used as an electronic operator panel which has achieved on its monitor screen the switch operation, lamp indication, data display, message display and other operations which were previously performed on an operator panel.

(2) About monitor screen data to be displayed on the GOT
The monitor screen data to be displayed on the GOT are created on a personal computer using the dedicated software (GT Designer).
You can perform the corresponding functions of the GOT by pasting display frame figures called switch figure, lamp figure, numerical display and other objects to create screens on GT Designer, and setting PLC CPU device memory (bit, word) driven operating functions to the pasted objects.
The monitor screen data created are transferred to the GOT through an RS-232C cable or PC card (memory card).
1.2 About GOT Operations

This section briefly explains what operations the GOT will perform when it is connected with the PLC CPU.

(1) System example

![Diagram of system example]

- **Sequence program**
  
  - **PLC CPU**
    
    - M0
    - Y10
    - MOV K123
    - D10

- **GOT settings**
  
  - **Touch key setting**
    
    - Bit momentary
    
    - Write device: M0

  - **Lamp display setting**
    
    - Bit
    
    - Read device: Y10

- **Numerical display setting**
  
  - Read device: D10, unsigned BIN
    
  - Indication: Unsigned decimal

(2) Operation explanation

- **1) While the "Run" touch key of the GOT is touched, the bit device "M0" is ON.**
  
  ![Diagram of operation 1]

- **2) When the bit device "M0" turns ON, the bit device "Y10" turns ON.**
  
  An ON figure also appears as the GOT's lamp display where the monitor device is preset to the bit device "Y10".

(Note to the following page)
1.3 Mouse Usage and Operations

Describes basic operations of the mouse.

(1) Click

Press the left button of the mouse once, then release without moving the mouse. This is the most common operation. Using the right button to perform this operation is called "right-click".

(2) Double click

Press the left button of the mouse twice quickly without moving the mouse. This operation is for the left button only.

(3) Drag

Move the mouse while pressing the left button. Using the right button to perform this operation is called "right-drag".

---

3) Since the bit device “M0” is ON, “123” is stored into the word device “D10”.

“123” also appears as the GOT’s numerical display where the monitor device is preset to the word device “D10”.

4) While the “Stop” touch key of the GOT is touched, the bit device "M1" of the PLC CPU is ON.

Since the bit device “Y10” of the PLC CPU turns OFF, the lamp display of the GOT turns OFF.
1.4 System Configuration Used in the Manual

1.5 Procedures for Use of GOT

Describes the procedures from installation of the GT Designer to monitoring with the GOT.

Start

- Install the GT Designer.
- Start the GT Designer.
- Carry out common setting.
- Prepare the user screen data.

Connect the GOT and the personal computer with RS-232C, and turn ON the GOT.

Using the GOT for the first time?

Yes
- Install the OS and the communication driver.
- Transfer the user screen data.
- Connect to the PLC, and start monitoring. (Turn OFF the GOT, then turn it ON again.)

No


...... Refer to 3.1

...... Refer to Chapter 3 and Chapter 4

...... Refer to 5.1

...... Refer to 5.2

...... Refer to 5.3

...... Refer to 5.4 and 5.5

End
2.1 Drawing a Figure

Describes how to draw a figure.

**POINT**

This chapter deals with only the drawing and editing of figures used in this manual. For the drawing and editing of other figures, refer to the help function of GT Designer.

When drawing a figure, click the icon of the figure you want to draw.

1. When drawing a rectangle
   1) Click the left mouse button at the start point of the rectangle.
   2) Drag the cursor to the end point.
   3) Release the left mouse button. A rectangle appears.

2. When drawing a scale
   1) As the scale setting dialog box appears, make settings.
      Scale points: Set the number of scale points.
      Direction: Choose the scale direction.
      Center line: Specify whether a line is drawn in the scale center or not.
   2) Click the **OK** button.
   3) Press the left mouse button at the starting point of drawing the scale.
   4) Drag the cursor to the end point.
   5) Release the left mouse button. The scale appears.
(3) When entering a text

1) As the text/figure setting dialog box appears, enter a text.
2) Click the OK button.
3) A frame of display range appears at the upper-left of the screen. Move the frame to the desired position.
4) Click the mouse button. The character string appears.

2.2 Editing a Figure or Object

(1) Resizing a figure or object
The following example enlarges a figure.

1) Select the figure to enlarge.
2) Press the left mouse button at the handle of the selected figure or object (■) in the direction to enlarge, then drag it.
3) Release the left mouse button. The figure or object is resized.
   • Holding down the Shift key and changing the size resizes the figure at equal ratios.
   • Holding down the Ctrl key and changing the size resizes the figure relative to the center.

(2) Copying a figure or object
The following example copies a figure.

1) Choose the figure to be copied.
2) Hold down the "Ctrl" button of the keyboard and drag the figure.
3) Release the left button of the mouse at the position you want to copy. This copies the figure.
CHAPTER 3 CREATING SCREENS

3.1 Creating a Screen like This

In this chapter, a screen as shown below is created.

- **Numerical display function**
- **Numerical input function**
- **Touch key function**
- **Lamp display function**
3.2 Common Setting before Drawing

Describes the operations for common setting before drawing.

3.2.1 Selecting GOT/PLC type

Describes the operations for selecting the type of the GOT and the PLC to use.

1) Starting GT Designer displays the project selection dialog box. Click **New**.

2) The dialog box appears.

3) Click the list box and set the type of the GOT and the PLC.
   Here, set as follows:
   - GOT type: A97*GOT(640 × 480)
   - PLC type: MELSEC-A

4) Click the **OK** button.
   The GOT/PLC types are set.

**POINT**

The GOT/PLC type setting dialog box is also displayed by choosing the [Common]-[GOT/PLC Type] menu.
3.2.2 Setting screen switching device

Describes the operations for setting the screen switching device for switching screens. Here, only the screen switching device of the base screen is set to "D999" because only the base screens are switched in the manual.

1) Click the [Common] – [Switching Screen] menu.

2) The dialog box appears.

3) Click the [Device] button on the base screen to set the screen switching device of the base screen.

4) The dialog box appears.

5) Click the list box to set to "D".

6) Click button 9 three times.

7) After setting is completed, click the [OK] button.

(To the following page)
3.3 Creating the First Screen

Refer to Chapter 2 and create a screen as follows:

- Use a rectangle to create this.
- Use characters to create these.

POINTS

- Screen switching device
  The screen switching device is required for switching screens.
  Devices designated as the screen switching devices must be used only as such.
  Word devices "D" or "W" are mainly used as the screen switching device, but device "GD" for the GOT is also available.
- Device "GD"
  Device "GD" is a word device of the GOT.
  In device GD, 1024 points from GD0 to GD1023 are available.
  There is a bit device GB, in which 1024 points from GB0 to GB1023 are also available.
3.4 Setting Objects

Describes the operations for setting objects used in this chapter.

3.4.1 Setting numerical display function

Describes the operations for setting numerical display function.

1) Click \( \text{Device} \) on the tool palette.

2) The dialog box appears.

3) Click the [Device] button and set the device.
   Device: Set to D12.

4) Check the check box and click the [Shape] button to designate the background figure.

5) The dialog box appears. Click the figure to be used as the background.
   (Here, select figure 21.)

6) Click the [OK] button.

(To the following page)
7) Set the attributes of the figure and numerical value. Here, set as shown on the left.

8) Click the **OK** button.

9) A frame of display range appears at the upper-left of the screen. Move the frame to the desired position and click.

   Change the size of the outer figure or the inner object frame with the handle ( ). (Refer to 2.2.)

10) Copy the numerical display function and double-click the copied numerical display function.

11) Change the device to "D13" and click the **OK** button.

12) This sets two numerical display functions.
3.4.2 Setting numerical input function

Describes the operations for setting numerical input function.

1) Click \( \text{on the tool palette.} \)

2) As the dialog box appears, refer to the numerical display function settings and make the following settings.
   - Device: Set to D10.
   - Shape: Use No. 21.

3) Set the attributes of the figure and numerical value.
   - Here set as shown on the left.

4) After setting, click the \( \text{OK} \) button and place the display range frame of the numerical input function.

5) Copy the numerical input function and change the device of the second numerical input function to "D11".

6) This sets two numerical input functions.

**POINT**

In this manual, make setting to display the key window as soon as you touch the part where the numerical input object is set.

To make this setting, choose the [Common]-[Auxiliary Setting]-[Project] menu and turn on the "When touch input is detected, open key window at the same time" check box.
3.4.3 Setting lamp display function

Describes the operations for setting the lamp display function.

1) Click the List button on the template (parts display area).

2) The template (directory tree) is displayed. Click the + button of the parts library folder.

3) As the library names appear, double-click Lamp (1).

(To the following page)
4) Parts in the library are displayed on the template (part display area).

5) Click a lamp on the template (part display area). (Here, use No. 1).

6) Move the cursor to the screen. A frame of display range appears. Move the frame to the desired position and click.

7) Double-click the pasted lamp.

8) The dialog box appears.

9) Click the [Device] button and set the device. Device: Set to Y0.

10) After setting the device, click the Case (Bit) tab.

11) Click the [Text] button.
12) The dialog box appears. After setting each item, click the **OK** button.
Position: Choose **Bottom**.
Text: Type **Y0**.
Horizontal alignment: Click the center button.

13) Click the **Copy from ON** button.

14) Set the attributes of the lamp. Here, designate as shown on the left.

15) Click the **OK** button.

16) The lamp set on the screen is updated.

17) Repeat steps 7) to 16) for the number of lamps to set. (Here, repeat 3 times.)
Device: Set **Y1 to Y3**.
Text: Type **Y1 to Y3**.

The lamp pasted in 7) must be copied and pasted to a new position.
(Refer to 2.2.)

**POINT**

With the **[Edit]-[Consecutive Copy]** menu, a figure can be copied continuously.
3.4.4 Setting touch key function

Describes the operations for setting touch key function.

1) Double-click Switch (1) on Template (directory tree) only.
   Refer to Section 3.4.3 for the way to display Template (directory tree).

2) Parts in the library are displayed on the template (part display area).

3) Click a lamp on the template (part display area).
   Here, use No.16.

4) Move the cursor to the screen.
   A frame of display range appears.
   Move the frame to the desired position and click.

5) Double-click the pasted touch key.

(To the following page)
6) As the dialog box appears, make the following settings.
   - Display trigger: Choose Bit.
   - Device: Set to M70.
7) Click the [Case] tab.

8) Click the [ON Text] button.
9) The dialog box appears. After setting each item, click the OK button. Position: Choose Bottom. Text: Type M70. Horizontal alignment: Click the center button.

10) Click the Copy from ON button.

11) Set the attributes of the touch key and text. Here, designate as shown on the left.

12) Click the [Action] tab.
13) Click the **Bit** button.

14) The dialog box appears. Select "Alternate".

15) Click the **Device** button and set the device to "M70".

16) Click the **OK** button.
17) Click the **OK** button.

18) The touch key set on the screen is updated.

19) Repeat steps 5) to 18) for the number of touch keys to set.
(Here, repeat 3 times.)
Device: Set M71 to M73.
Text: Type M71 to M73.

The key pasted before step 5) must be copied and pasted to a new position.
(Refer to 2.2.)

**POINT**

With the **Edit**-[Continuous Copy] menu, a figure can be copied continuously.
In this chapter, the following screen is created as the second screen of the screen created in Chapter 3 (the first screen). The switching button to the second screen is added to the first screen.

(1) Adding the screen switching button to the first screen
The screen switching button to the second screen must be set on the first screen. Set a touch key at the lower right corner of the first screen.

(2) Creating the second screen

- Level display function
- Parameter display function
- Alarm list display function
- Touch key function
4.2 Creating the Second Screen

Describes the operations for creating the second screen.

1) Click on tool bar 1.

2) Click the spin box and set the screen number to “2”.

3) Click the OK button.

The second screen is created.

First, create a screen as follows by referring to Chapter 2.

Use rectangles to create these.

Use scales to create these.
4.3 Creating Comments

Describes the operations for creating comments that are used in the alarm list function.
Register comments as follows:

<table>
<thead>
<tr>
<th>Comment No.</th>
<th>Device</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Y0</td>
<td>A-line supply conveyor stopped. Check the power source.</td>
</tr>
<tr>
<td>2</td>
<td>Y1</td>
<td>Emergency stop limit switch operated. Check the product.</td>
</tr>
<tr>
<td>3</td>
<td>Y2</td>
<td>Product limit switch does not operate. Check for presence/absence of the product.</td>
</tr>
<tr>
<td>4</td>
<td>Y3</td>
<td>Hydraulic pressure of finishing machine 1 is low. Supply hydraulic oil.</td>
</tr>
</tbody>
</table>

1) Click the [Draw]-[Comment] menu.

2) As the dialog box appears, type a comment from the keyboard.

3) After comment creation, click the Enter button to register the No. 1 comment.

4) Create remaining No. 2 to No. 4 comments.

5) After setting is completed, click the OK button. The dialog box disappears.
4.4 Setting Objects

Describes the operation for setting the objects used in this chapter.

4.4.1 Setting touch key function for screen switching

Describes the operations for setting the touch key function for screen switching.

1) Paste to the screen the No. 15 key of Switch (1) registered on Template.

2) Double-click the pasted key.

3) The dialog box appears. Click the [Case] tab.

4) Click the [ON Text] button.

(To the following page)
5) The dialog box appears. After setting each item, click the [OK] button.
   Position: Select Center.
   Text: Input Screen 1.
   Horizontal alignment: Click the center button.
   Vertical alignment: Click the center button.

6) Click the [Copy from ON] button.

7) Set the attributes of the touch key and text.
   Here, designate as shown on the left.

8) Click the [Action] tab.

9) Click the [Base] button.

(To the following page)
10) The dialog box appears. Designate the destination to "Fixed".

11) Click the spin box and input "Screen 2" for the touch key set on the first screen and "Screen 1" for the touch key set on the second screen.

12) Click the OK button.

13) Click the OK button.

14) The touch key set on the screen is updated.

15) Change the key size with the handle ( ). (Refer to 2.2.)

POINT

When setting the screen changing switch on the first screen, choose [Screen]-[B-1 No title] to display the first screen, and set the screen changing switch in the above procedure.
4.4.2 Setting level display function

Describes the operations for setting the level display function.

1) Click on the tool pallet.

2) The dialog box appears.

3) Click the Device button to designate the device.
   Device: Set to D12.

4) Set the attributes of the level display as shown on the left.

5) Click the [Form] tab.

6) Set the Fixed value of the Upper value to "10000" and that of the Lower value to "0".
   (You can type them directly from the keyboard.)

7) Click the OK button.

(To the following page)
8) A frame of display range appears at the upper-left of the screen. Move the frame to the desired position, then click.

9) Change the key size with the handle (□).
   (Refer to 2.2.)

11) Copy the level display function and set the device of the second level display function to "D13".

12) This sets two level display functions.
4.4.3 Setting panelmeter display function

Describes the operations for setting the panelmeter display function.

1) Click on the tool palette.

2) As the dialog box appears, refer to the level display function settings and make the following settings.
   - Device: Set to D12.
   - Shape: Use No. 39.

3) Set the attributes of the panelmeter.
   Make settings as shown on the left.

4) Click the [Form] tab.

5) Make the [Form] tab settings as indicated below.
   - Type: Top 1/2
   - Upper: Fixed, 10000
   - Lower: Fixed, 0

6) After setting, click the Extended>> button.

(To the following page)
7) Click the [Graph] tab.

8) Make the [Graph] tab settings as indicated below.
   - Upper: Fixed, 100
   - Lower: Fixed, 0

9) Click the OK button.

10) A frame of display range appears at the upper-left of the screen. Move the frame to the desired position, then click.

11) Using the handles ( ), set the size.
   (Refer to 2.2.)

12) Copy the panelmeter display function and change the device of the second panelmeter display function to “D13”.

13) This sets two panelmeter display functions.
4.4.4 Setting alarm list display function

Describes the operations for setting the alarm list display function.

1) Click on the tool palette.

2) The dialog box appears.

3) Check the check box and click the **Shape** button to designate the background figure.
   (Here, select figure 39.)

4) Set the attributes of the figure.
   Make settings as shown on the left.

5) Click the [Form] tab.

6) Click the spin box and set the device value to "4".

7) Click the **Device** button.

(To the following page)
8) The dialog box appears. Click the **Edit** button to set the device. Device: Set Y0.

9) Select "Continuous".

10) Click the **OK** button.

11) Set the number of comments to display to "Single".

12) Click the **OK** button.

13) A frame of display range appears at the upper-left of the screen. Move the frame to the desired position, then click.

14) Change the size with the handle (■). (Refer to 2.2.)
4.5 Saving Created Screen Data

Describes the operations for saving created screen data. Here, the data is saved on a personal computer's hard disk (drive C) as an example.

1) Click [Project] — [Save As].

2) The dialog box appears. Click the list box and click "(C:)".

3) Click the folder creation button to create a new folder.

4) Designate a project name to the new folder. (Here, input "Got").

5) After designating the name, double-click "Got" and display the contents of the folder.

6) Check that "Got" is displayed here.

7) Click the Save button to save the screen data.

**POINT**

When saving screen data, create a folder for each project. Note that since the file name of GT Designer is fixed, the project of GT Designer already existing in the folder where a new project will be saved will be overwritten by the new project.
4.6 Reading Saved Screen Data

Describes the operations for reading the saved data. Here, the data saved in 4.5 (the data saved in drive C) is read as an example.

1) Click the [Project] — [Open] menu.

2) The dialog box appears. Click "(C:)".

3) Double-click "Got" and display the contents of the folder.

4) Check that "Got" is displayed here.

5) Check that "a9gotp.got" is in the folder. Click the [Open] button to read the screen data.
5 STARTING GOT FOR CHECKING

CHAPTER 5 STARTING GOT FOR CHECKING

5.1 Connecting the Personal Computer and GOT


5.2 Installing the OS

Describes the operations for installing the OS program and the communication driver on the GOT before monitoring. This chapter describes a specific installation example.

**POINT**

The GOT does not have the OS program for monitoring or the communication driver. Therefore, these programs must be installed on the GOT before monitoring. Once the programs are installed, you do not need to install again unless the version of OS or the communication method changes.

1) Click the [Communication] — [Install] — [OS] menu.

(To the following page)
2) The dialog box appears. Designate each item.
- Target: GOT
- Standard monitor OS: Check the checkbox and select "English".
- Communication driver: Click the list box, then select "Bus [Ver 8.0.0]." *[Ver "*.**"] may be different.

3) Click the [Install] button.

4) Click the [Yes] button.
  Installation of the OS is executed.

5.3 Downloading Screen Data

Describes the operations for downloading the screen data created in Chapter 4 to the GOT.

1) Click the [Communication] — [Download (to GOT)] — [Monitor Data] menu.

2) The dialog box appears. Click the [Download] button.

3) Click the [OK] button.
  Downloading of the screen data is executed.
5.4 Connecting to PLC CPU

Here, the bus connection is used to connect the GOT and the PLC CPU. For details of the bus connection board and the bus connection cable, refer to GOT-A900 Series User’s Manual (GT Works Version5/GT Designer Version5 compatible Connection System Manual).

**POINT**

Be sure to turn OFF the whole system before connecting the GOT and the PLC CPU.
5.5 Executing Monitoring

Displays numerical values for D12 and D13.

When the external input Y0 to Y3 are turned ON, the lamp lights accordingly.

Press the touch key. The corresponding external output M70 to M73 is turned ON/OFF.

Input values to D10 and D11 from the ten-key window.

Press the touch key. The second screen appears.

Carries out level display of values D12 and D13.

Carries out panel meter display of values D12 and D13.

Turning ON of Y0 to Y3 displays the designated alarm comments.

Press the touch key. The first screen appears.

A Line supply converyer stopped. Check the power source.
5.6 Upload

When you want to make correction to the screen data installed into the GOT, use GT Designer and read the screen data from the GOT to the personal computer. The read screen data can be re-edited and then re-transferred (downloaded) to the GOT.

This section describes the operation to upload data from the GOT to the personal computer.

1) Click the [Communication] — [Upload (from GOT)] menu.

2) As the dialog box appears, specify "Upload destination path:" (drive or folder) and click the [Upload] button.

3) Click the [Yes] button.

Uploading of the screen data is executed.
5.7 Sequence Program Used in the Manual

```
0  M9301  
1  K10  Z  
2  K10  Z  
3  K1  Z  
4  K2  Z  
5  K3  Z  
6  K4  Z  
7  K5  Z  
8  K6  Z  
9  K7  Z  
A  K8  Z  
B  K9  Z  
C  K10 Z  
```

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WARRANTY

Please confirm the following product warranty details before starting use.

1. Gratis Warranty Term and Gratis Warranty Range
   If any faults or defects (hereinafter "Failure") found to be the responsibility of Mitsubishi occurs during use of the product within the gratis warranty term, the product shall be repaired at no cost via the dealer or Mitsubishi Service Company. Note that if repairs are required at a site overseas, on a detached island or remote place, expenses to dispatch an engineer shall be charged for.
   [Gratis Warranty Term]
   The gratis warranty term of the product shall be for one year after the date of purchase or delivery to a designated place.
   Note that after manufacture and shipment from Mitsubishi, the maximum distribution period shall be six (6) months, and the longest gratis warranty term after manufacturing shall be eighteen (18) months. The gratis warranty term of repair parts shall not exceed the gratis warranty term before repairs.
   [Gratis Warranty Range]
   (1) The range shall be limited to normal use within the usage state, usage methods and usage environment, etc., which follow the conditions and precautions, etc., given in the instruction manual, user's manual and caution labels on the product.
   (2) Even within the gratis warranty term, repairs shall be charged for in the following cases.
      1. Failure occurring from inappropriate storage or handling, carelessness or negligence by the user. Failure caused by the user's hardware or software design.
      2. Failure caused by unapproved modifications, etc., to the product by the user.
      3. When the Mitsubishi product is assembled into a user's device, Failure that could have been avoided if functions or structures, judged as necessary in the legal safety measures the user's device is subject to or as necessary by industry standards, had been provided.
      4. Failure that could have been avoided if consumable parts (battery, backlight, fuse, etc.) designated in the instruction manual had been correctly serviced or replaced.
      5. Failure caused by external irresistible forces such as fires or abnormal voltages, and Failure caused by force majeure such as earthquakes, lightning, wind and water damage.
      6. Failure caused by reasons unpredictable by scientific technology standards at time of shipment from Mitsubishi.
      7. Any other failure found not to be the responsibility of Mitsubishi or the user.

2. Onerous repair term after discontinuation of production
   (1) Mitsubishi shall accept onerous product repairs for seven (7) years after production of the product is discontinued. Discontinuation of production shall be notified with Mitsubishi Technical Bulletins, etc.
   (2) Product supply (including repair parts) is not possible after production is discontinued.

3. Overseas service
   Overseas, repairs shall be accepted by Mitsubishi's local overseas FA Center. Note that the repair conditions at each FA Center may differ.

4. Exclusion of chance loss and secondary loss from warranty liability
   Regardless of the gratis warranty term, Mitsubishi shall not be liable for compensation to damages caused by any cause found not to be the responsibility of Mitsubishi, chance losses, lost profits incurred to the user by Failures of Mitsubishi products, damages and secondary damages caused from special reasons regardless of Mitsubishi's expectations, compensation for accidents, and compensation for damages to products other than Mitsubishi products and other duties.

5. Changes in product specifications
   The specifications given in the catalogs, manuals or technical documents are subject to change without prior notice.

6. Product application
   (1) In using the Mitsubishi MELSEC programmable logic controller, the usage conditions shall be that the application will not lead to a major accident even if any problem or fault should occur in the programmable logic controller device, and that backup and fail-safe functions are systematically provided outside of the device for any problem or fault.
   (2) The Mitsubishi general-purpose programmable logic controller has been designed and manufactured for applications in general industries, etc. Thus, applications in which the public could be affected such as in nuclear power plants and other power plants operated by respective power companies, and applications in which a special quality assurance system is required, such as for Railway companies or National Defense purposes shall be excluded from the programmable logic controller applications.
   Note that even with these applications, if the user approves that the application is to be limited and a special quality is not required, application shall be possible.
   When considering use in aircraft, medical applications, railways, incineration and fuel devices, manned transport devices, equipment for recreation and amusement, and safety devices, in which human life or assets could be greatly affected and for which a particularly high reliability is required in terms of safety and control system, please consult with Mitsubishi and discuss the required specifications.
GOT900 Series

Operating Manual(Introductory Manual)

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When exported from Japan, this manual does not require application to the Ministry of Economy, Trade and Industry for service transaction permission.

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