

Mitsubishi Servo Amplifier  
MELSERVO-J4 Series  
MR-J4-A-RJ

Sample Screen Manual

Mitsubishi Electric Corporation

## Using the Samples

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## REVISIONS

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### Sample Screen Manual

Date	Control No.*	Description
2015/1	BCN-P5999-0469	First edition
2015/2	BCN-P5999-0469-2	Device Specification for Document ID

\* The Control No. is noted at the lower right of each page.

### Project Data

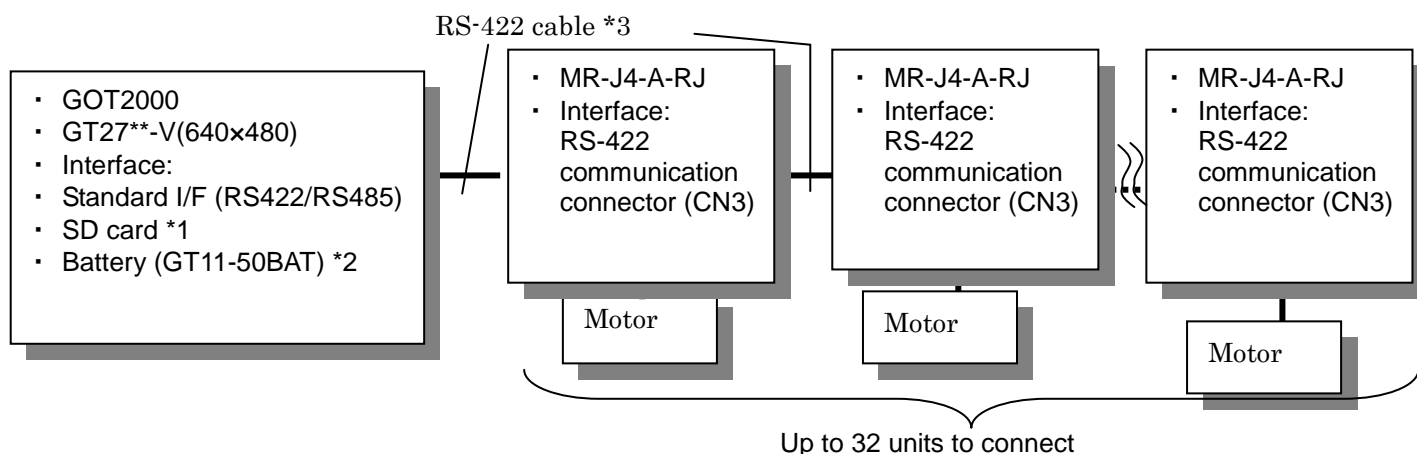
Date	Project data	GT Designer3*	Description
2015/1	mitsubishi_MR-J4-A-RJ_V_Ver1_E.GTX	1.123D	First edition
2015/2	mitsubishi_MR-J4-A-RJ_V_Ver2_E.GTX	1.126G	Device Specification for Document ID

\* The version number of screen design software used to create the project data is listed. Please use the screen design software with the listed version or later.

## 1. OUTLINE

This manual explains the sample screens of GOT2000 connected to a MELSERVO-J4 Series (MR-J4-A-RJ) servo amplifier in serial (RS-422) connection. The sample screens can be used for changing parameters, monitoring, and conducting test operations.

## 2. SYSTEM CONFIGURATION



\*1: The SD card is used for the logging, recipe and document display functions.

\*2: The battery is used for the backup of the clock data and the logging data in the SRAM user area. (The battery is provided with the GOT as standard.)

\*3: For more details about the cable, please refer to the "GOT2000 Series Connection Manual (Mitsubishi Products)".

## 3. GOT

### 3.1 System Applications That Are Automatically Selected

Type	System application name	
Standard Function	Standard System Application	
	Standard Font	Japanese
Communication Driver	MELSERVO-J4,J3,J2S/M,JE	
Extended Function	Standard Font	Chinese (Simplified)
	Outline Font	Alphanumeric/Kana
		Japanese (Kanji)
		Chinese (Simplified)
	Document Display	

### 3.2 Controller Setting of Screen Design Software

Detail Setting

Item	Set value	Remarks
Transmission Speed (BPS)	115200	
Data Bit	8 bit	
Stop Bit	1 bit	
Parity	Even	
Retry (Times)	3	
Timeout Time (Sec)	3	
Host Address	0	Station No. of servo amplifier configured in the system
Delay Time (ms)	0	
Station No. Selection	Yes	

### 3.3 Overlap Window Setting of Screen Design Software

[Close the window when switching base screens] of [Detail Setting] for overlap window in the [Screen Switching/Window] setting is enabled to close the window when switching base screens.

### 3.4 System Alarm when Power ON

A system alarm due to the communication timeout occurs when turning Power ON. Because before restoring the valid/invalid station information from the recipe file to GOT by the initialization script, the logging function and the alarm transfer script try to connect with an invalid station. Therefore use sample screen after system alarm reset.

## 4. Servo Amplifier

### 4.1 Servo Amplifier Communication Setting

Item	Set value	Remarks
Station No. setting	0	Station No. of servo amplifier
Communication function selection	0040	115200 bps, RS-422 communication response delay time invalid

### 4.2 Servo Amplifier Parameter Setting

The following set values were used to check the operation at Mitsubishi.

Item	Set value	Remarks
Operation mode	1006	Positioning control (Point table method)
Input signal automatic on selection 1	00AB	Reading/Writing of all parameters enabled
Function selection D-5	1C00	Sets LSP and LSN, EM2 to automatic ON.
Others	0001	Sets alarm code output.
Input signal automatic on selection 1	Initial value	

5. SCREEN SPECIFICATIONS

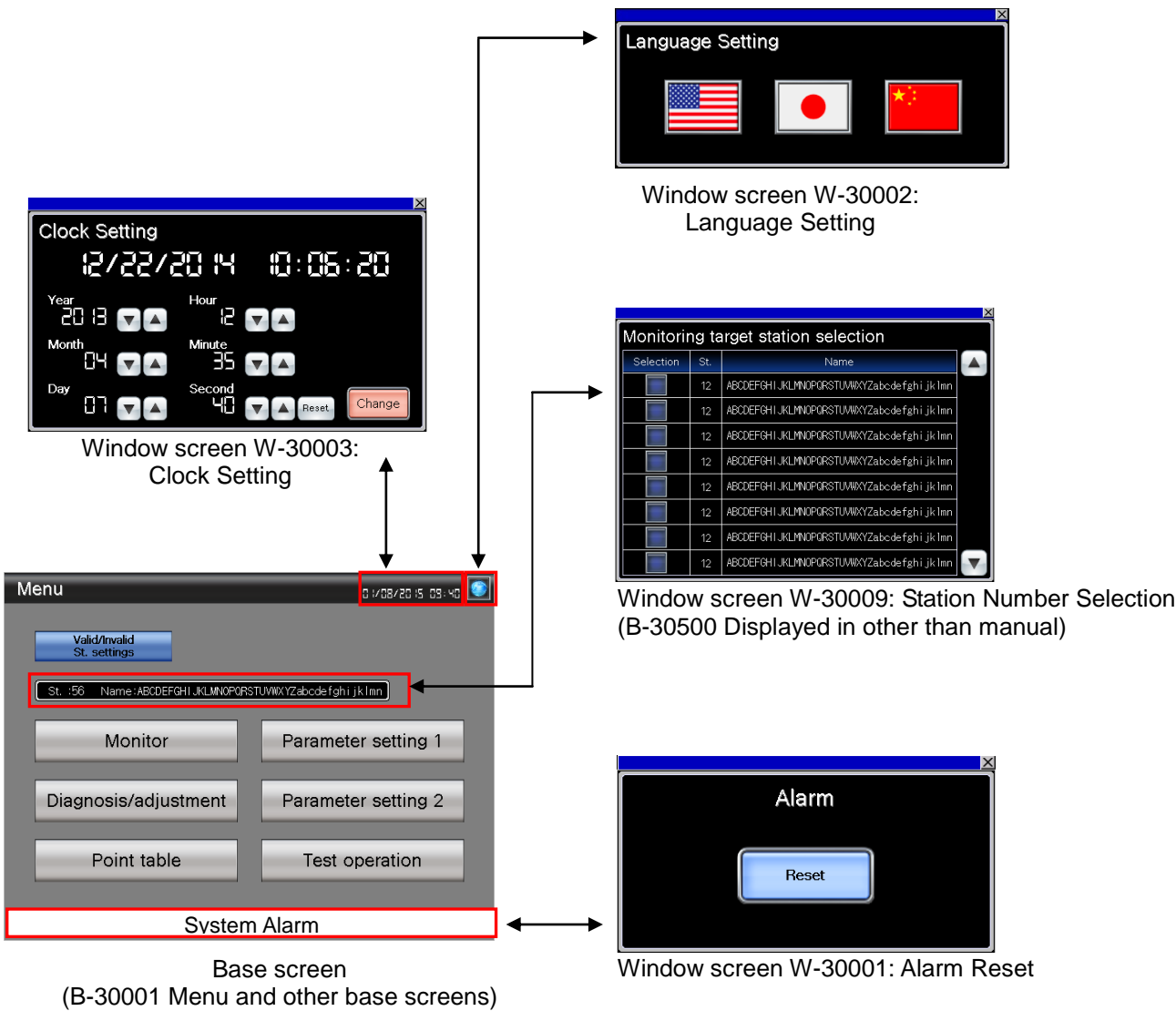
5.1 Display Language

The language of the text displayed on the screen can be switched between Japanese, English and Chinese (Simplified). The text strings in each language are registered in the columns No. 1 to No. 3 in the comment groups No. 499 and No. 500 as shown below. When the column No. is set in the language switching device, the language corresponding to the column No. will appear.

Column No.	Language
1	English
2	Japanese
3	Chinese (Simplified)

5.2 Screen List/Transition

5.2.1 Screen list/transition (common)

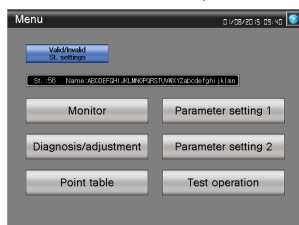




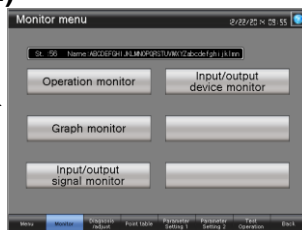
## 5.2.2 Screen list/transition (individual)



Window screen W-30008:  
Valid/Invalid St. Settings

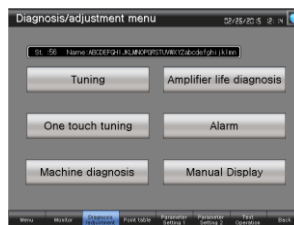


Base screen B-30001: Menu



Base screen B-30011: Monitor

Refer to page 10



Base screen B-30021:  
Diagnosis/adjust menu

Refer to page 11



Base screen B-30031:  
Point table

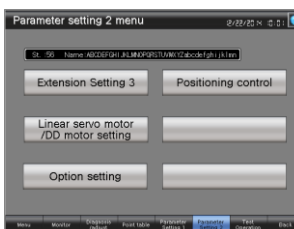
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456

Window screen  
W-30031 to 30036:  
Point table absolute command  
W-30041 to 30046:  
PointTable IncrementalValueCmd



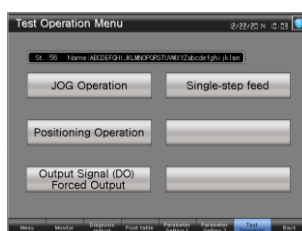
Base screen B-30041:  
Parameter Setting 1 Menu

Refer to page 12



Base screen B-30061:  
Parameter Setting 2 Menu

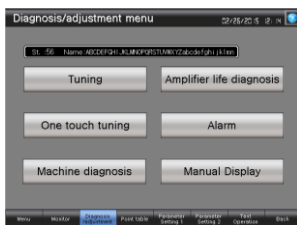
Refer to page 13



Base screen B-30081:  
Test Operation Menu

Refer to page 14

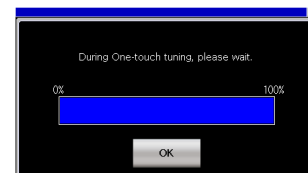




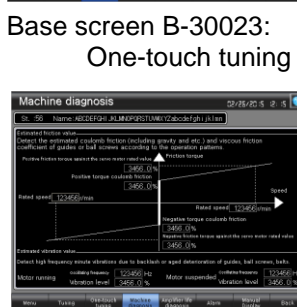
Base screen B-30021:  
Diagnosis/adjust menu



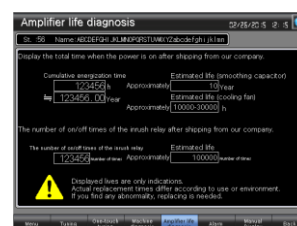
Base screen B-30022:  
Tuning



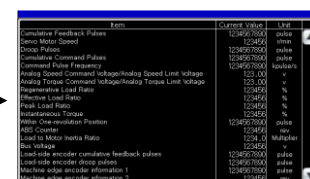
Window screen W-30011:  
Disp progress of One-touchTuning



Base screen B-30024:  
Machine diagnosis



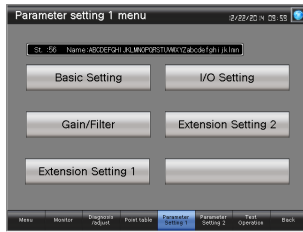
Base screen B-30025:  
Amplifier life diagnosis



Window screen W-30021 to 30022:  
Alarm occurrence status



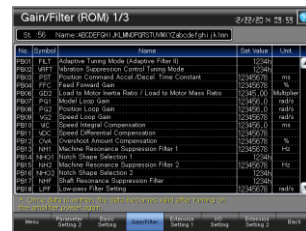
Base screen B-30500:  
Manual Display



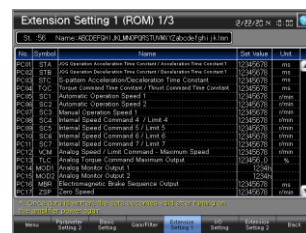
Base screen B-30041:  
Parameter Setting 1 Menu



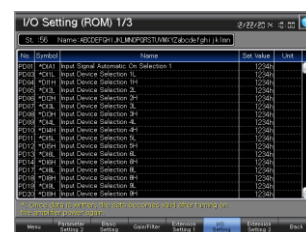
Base screen B-30042 to 30043:  
Basic Setting Parameters(ROM)



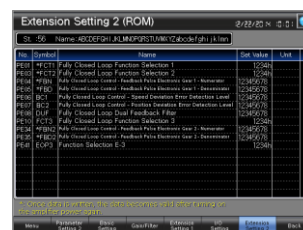
Base screen B-30045 to 30047:  
Gain/Filter Parameters(ROM)



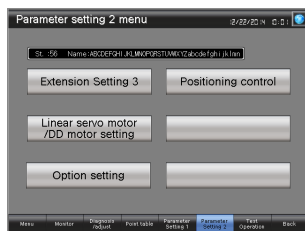
Base screen B-30049 to 30051:  
Extension Setting 1 Parameters(ROM)



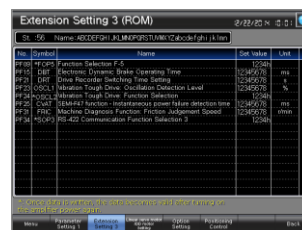
Base screen B-30053 to 30055:  
I/O Setting Parameters(ROM)



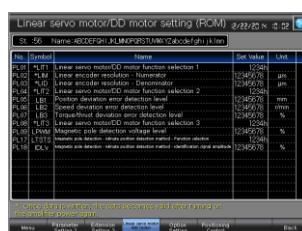
Base screen B-30057:  
Extension Setting 2 Parameters(ROM)



Base screen B-30061:  
Parameter Setting 2 Menu



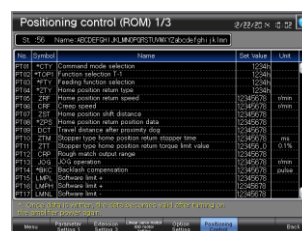
Base screen B-30063:  
Extension Setting1 Parameters(ROM)3



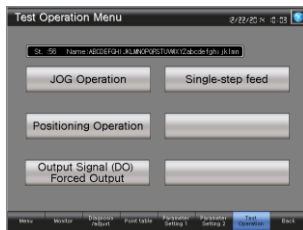
Base screen B-30065:  
LinearServo/DDMotorSetParam(ROM)



Base screen B-30067:  
Option Setting Parameters (ROM)



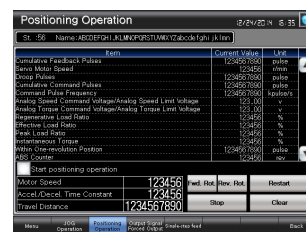
Base screen B-30069 to 30071:  
PositioningCtrlParameter(ROM)



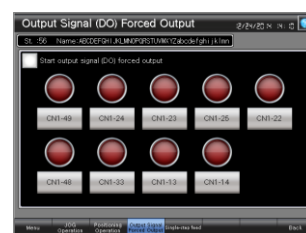
Base screen B-30081:  
Test Operation Menu



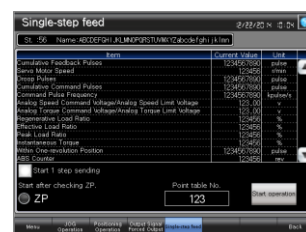
Base screen B-30083:  
JOG operation



Base screen B-30085:  
Positioning Operation



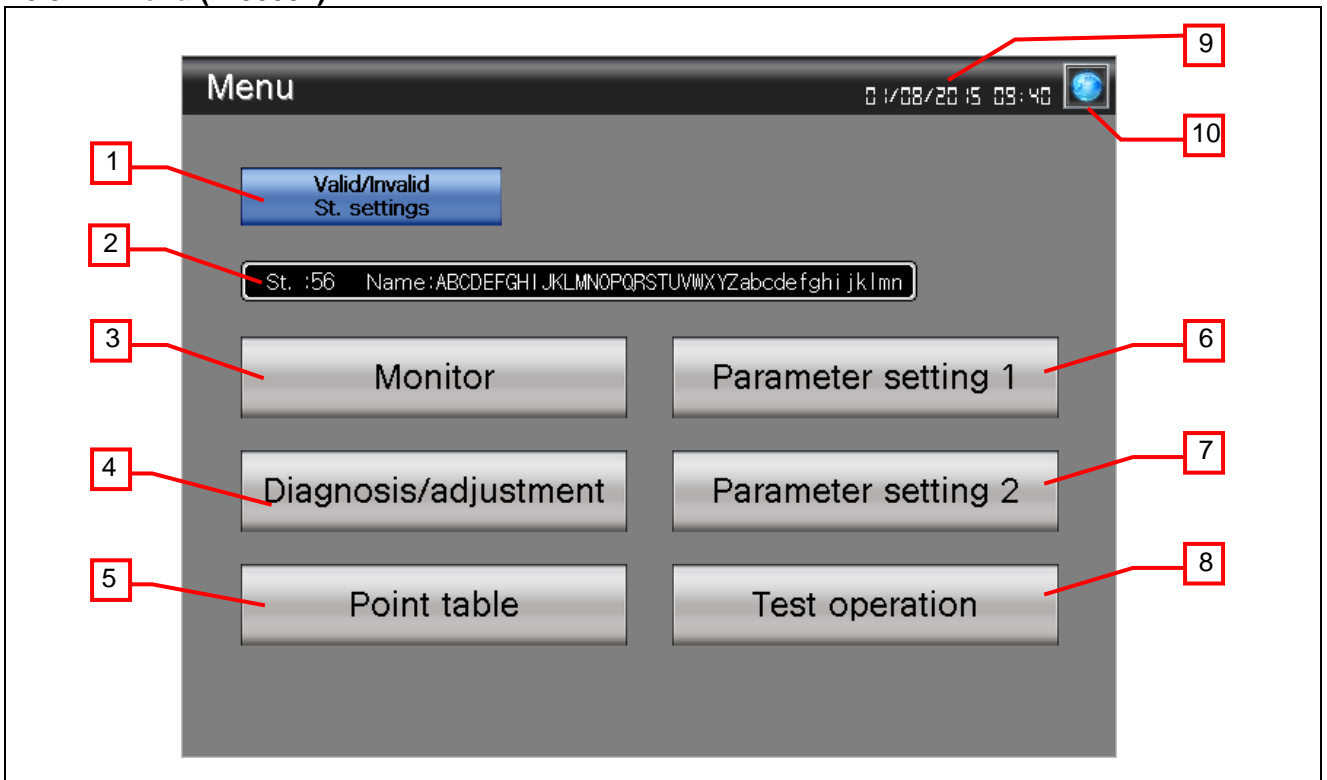
Base screen B-30089:  
Output Signal (DO) Forced Output



Base screen B-30091:  
Single-step feed

## 5.3 Explanation of Screens

### 5.3.1 Menu (B-30001)



#### Outline

This is the Menu screen. This screen allows setting of the station No. of the servo amplifier.

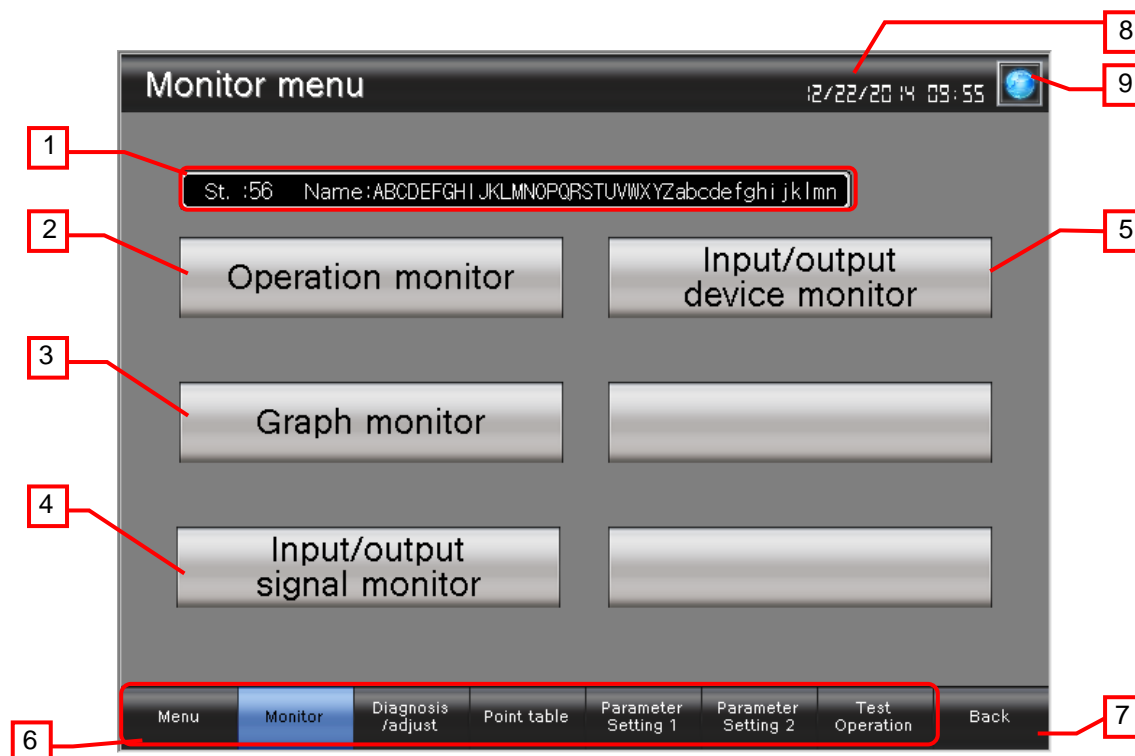
#### Description

1. Displays the [Valid/invalid station] window.
2. Displays a station to be monitored. Touch the button to open the [station number selection] window.
3. Switches to the [Monitor menu] screen.
4. Switches to the [Diagnosis/adjustment menu] screen.
5. Switches to the [Point table] screen.
6. Switches to the [Parameter Setting 1 Menu] screen.
7. Switches to the [Parameter Setting 2 Menu] screen.
8. Switches to the [Test Operation Menu] screen.
9. Displays the current date and time. Touch the button to open the [Clock Setting] window.
10. Opens the [Language Setting] window.

#### Remarks

- When GOT startup, station No. is set as [0] by the project script. Name offset, logging ID point table No. for single step feed and one touch tuning initial selection status are initialized and read valid/invalid station setting from the recipe. For more details about recipes, please refer to "5.6 Recipe List". For more details about scripts, please refer to "5.7 Script List".
- Valid/invalid station setting uses recipe function and screen script. For more details about recipes, please refer to "5.6 Recipe List". For more details about scripts, please refer to "5.7 Script List".
- Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.7 Script List".
- When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.2 Monitor menu (B-30011)



#### Outline

This is the menu screen for monitor.

#### Description

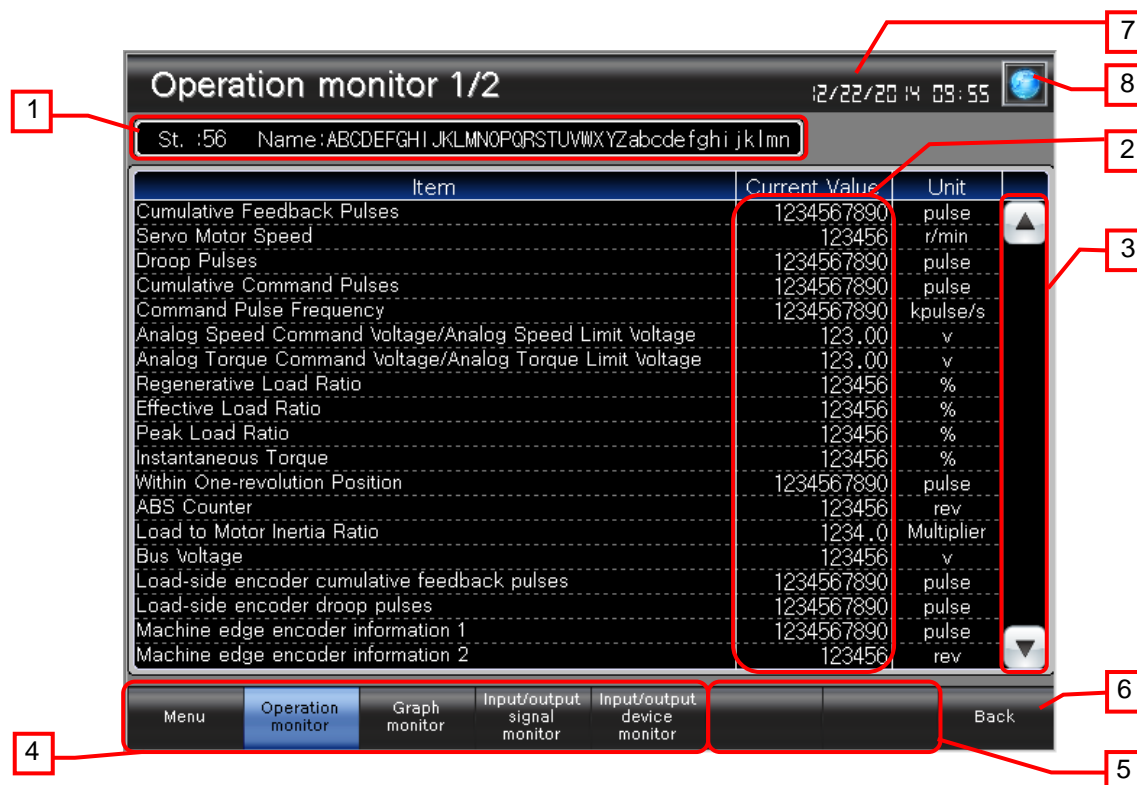
1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Switches to the [Operation monitor] screen.
3. Switches to the [Graph monitor] screen.
4. Switches to the [Input/output signal monitor] screen.
5. Switches to the [Input/output device monitor] screen.
6. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
7. Switches to the previously opened screen.
8. Displays the current date and time. Touch the button to open the [Clock Setting] window.
9. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.6 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.



### 5.3.3 Operational monitor (B-30012 to 30013)



#### Outline

This screen displays the status of the servo amplifier in operation.

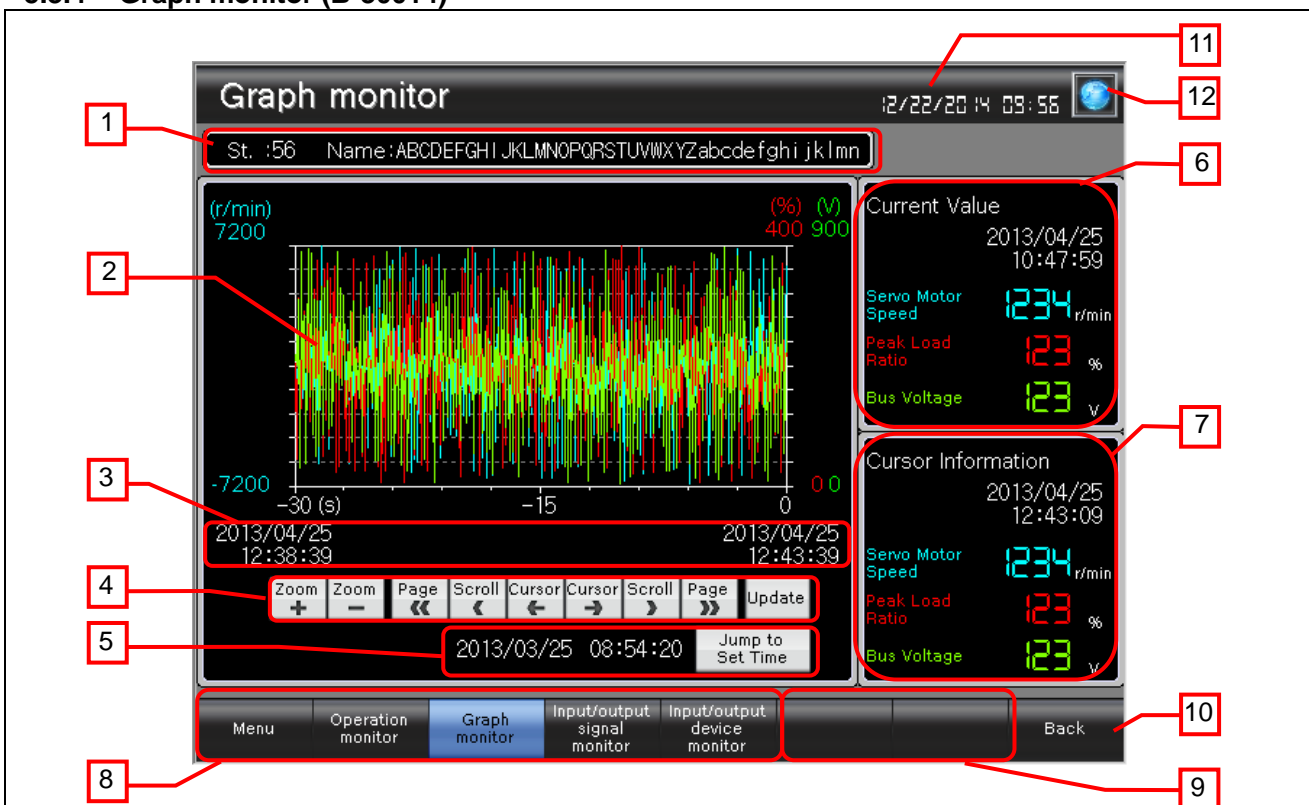
#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Displays the current values of each item.
3. Switches the displayed item of operational monitor.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Shows unused switches for base screen switching.
6. Switches to the previously opened screen.
7. Displays the current date and time. Touch the button to open the [Clock Setting] window.
8. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.4 Graph monitor (B-30014)



#### Outline

This screen displays the servo motor speed, peak load ratio, and bus voltage data collected using the logging function in numerical values and a historical trend graph.

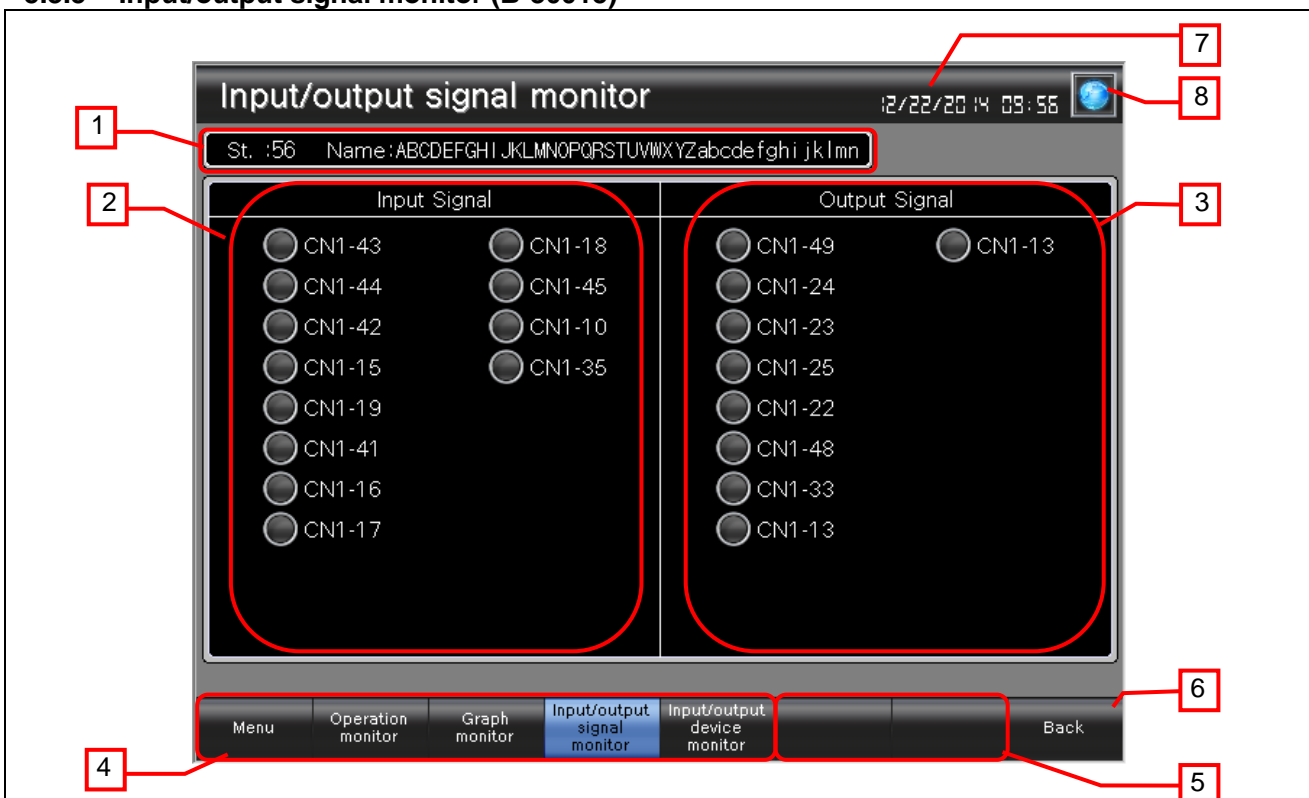
#### Description

- Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
- Displays the servo motor speed, peak load ratio, and bus voltage in the historical trend graph. In the graph, the servo motor speed is shown in light blue, the peak load ratio in red, and the bus voltage in green. Touch the graph to show the cursor. While touching the graph area, flicking the area will scroll the graph left and right. Pinching out and in will zoom in and out the graph based on the time axis.
- Displays the historical trend graph's beginning position time and end position time.
- Operates the historical trend graph.
  - Zoom +: Enlarges (x2) the graph's time axis based on the new data axis.
  - Zoom -: Reduces (x1/2) the graph's time axis based on the new data axis.
  - Page <<: Scrolls the page to the left.
  - Scroll <: Scrolls the graph to the left.
  - Cursor <: Displays a cursor, and scrolls the cursor in the direction of the older data.
  - Cursor >: Displays a cursor, and scrolls the cursor in the direction of the newer data.
  - Scroll >: Scrolls the graph to the right.
  - Page >>: Scrolls the page to the right.
  - Update: Clears the cursor, and displays the latest data.
- Shows the specified date and time in the center of the graph when the date and time are entered and the [Jump to Set Time] switch is touched. The current date and time are stored when the screen is initially displayed.
- Displays the current date and time, and the current values of the servo motor speed, peak load ratio, and bus voltage.
- Displays the date and time and the values of the servo motor speed, peak load ratio, and bus voltage of the cursor position.
- Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
- Shows unused switches for base screen switching.
- Switches to the previously opened screen.
- Displays the current date and time. Touch the button to open the [Clock Setting] window.
- Opens the [Language Setting] window.

#### Remarks

- Display controls by switching motor rotation speed operation mode and monitor target selection are set by the project script. Clock setting jump uses the screen script. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.5 Input/output signal monitor (B-30015)



#### Outline

Displays the status of Input/output signal.

#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Displays the status of input signal.
3. Displays the status of output signal.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Shows unused switches for base screen switching.
6. Switches to the previously opened screen.
7. Displays the current date and time. Touch the button to open the [Clock Setting] window.
8. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.6 Input/output device monitor (B-30016)



#### Outline

Displays the status of input/output device.

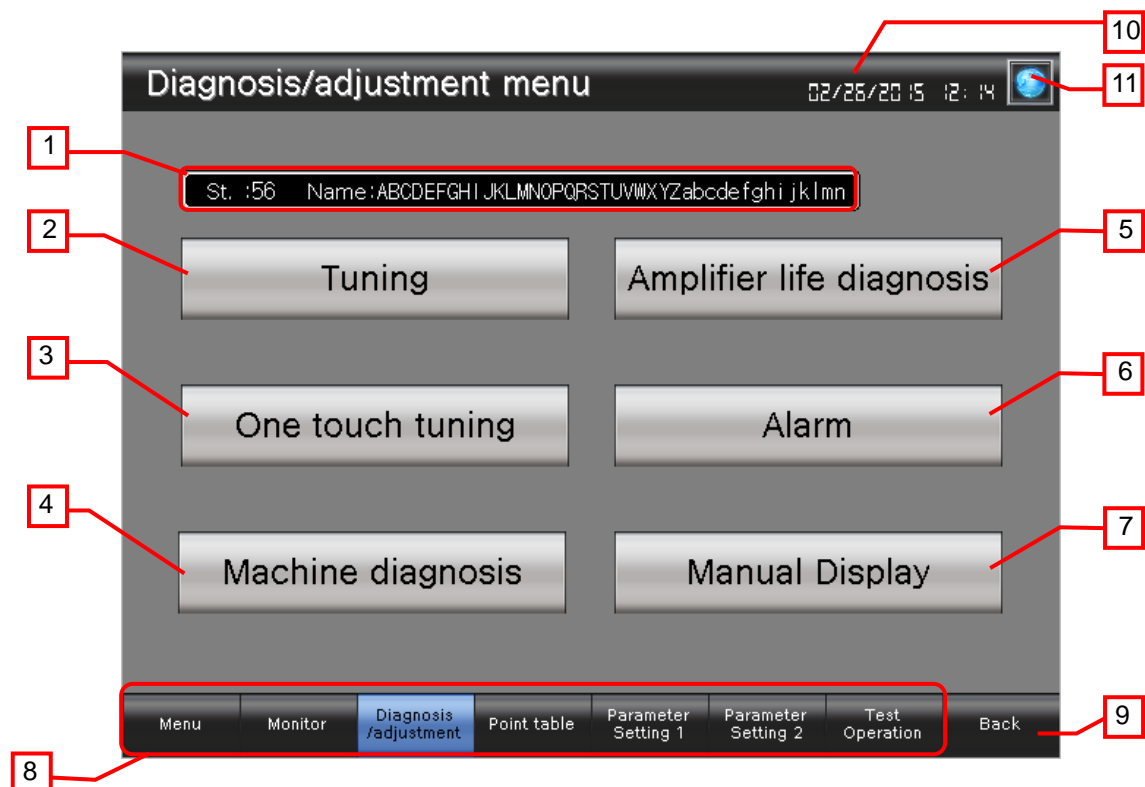
#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Displays the status of input signal.
3. Displays the status of output signal.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Shows unused switches for base screen switching.
6. Switches to the previously opened screen.
7. Displays the current date and time. Touch the button to open the [Clock Setting] window.
8. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. Also, the screen script is used to read. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.7 Diagnosis/adjustment Menu (B-30021)



#### Outline

This is the menu screen for diagnosis/adjustment.

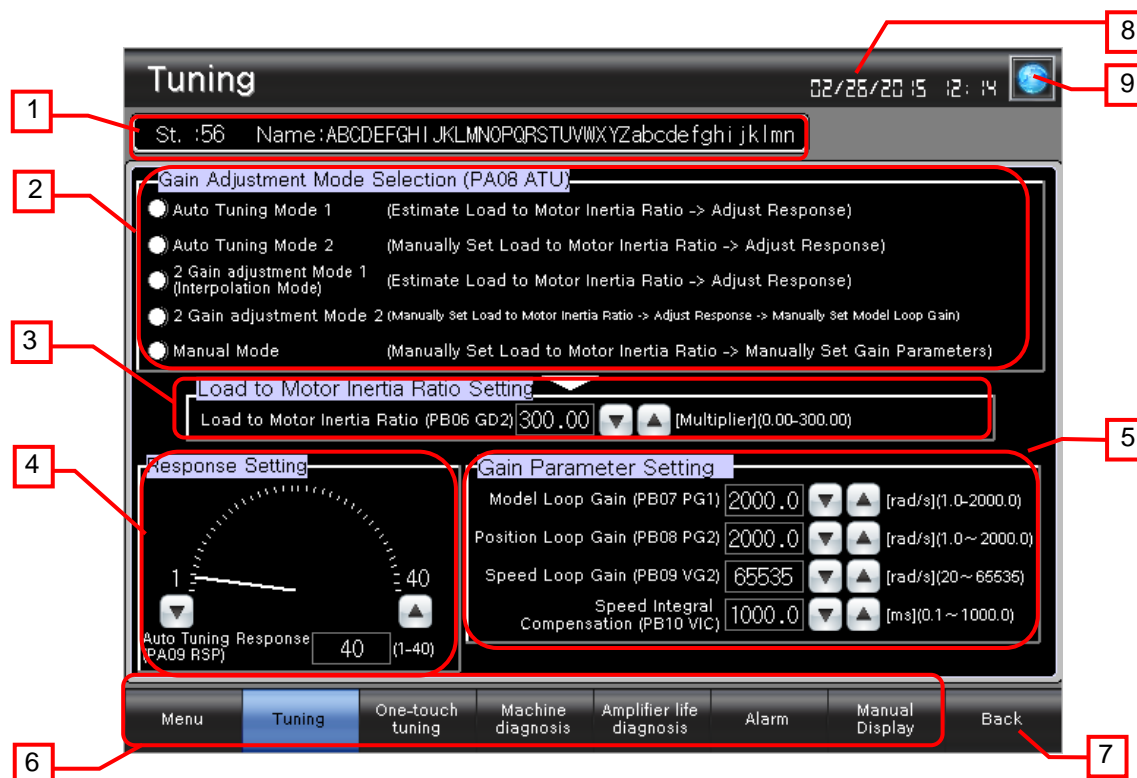
#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Switches to the [Gain adjustment] screen.
3. Switches to the [One-touch tuning] screen.
4. Switches to the [Machine diagnosis] screen.
5. Switches to the [Amplifier life diagnosis] screen.
6. Switches to the [Alarm] screen.
7. Switches to the [Manual Display-Language] screen.
8. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
9. Switches to the previously opened screen.
10. Displays the current date and time. Touch the button to open the [Clock Setting] window.
11. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.8 Tuning(B-30022)



#### Outline

Set the necessary parameters for gain adjustment.

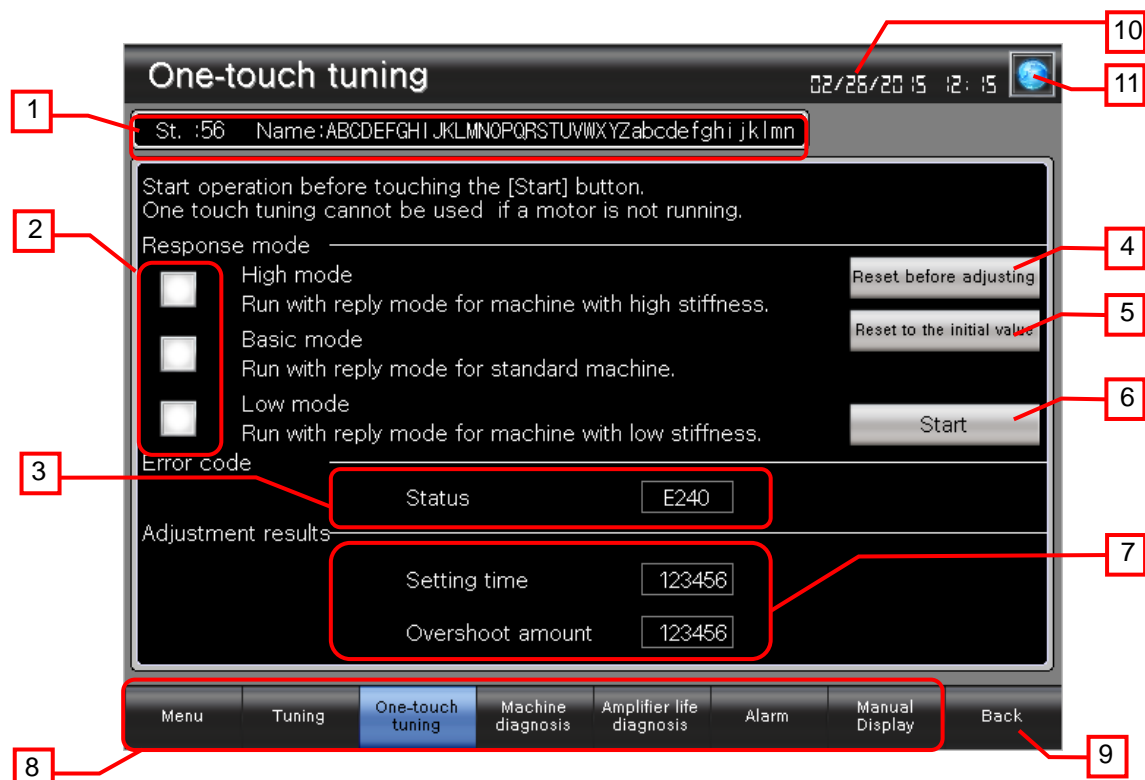
#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Select the Gain adjust mode. Items differ according to the selected mode.
3. Sets the Load to Motor Inertia Ratio.
4. Sets the Auto Tuning Response.
5. Sets the gain parameter.
6. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
7. Switches to the previously opened screen.
8. Displays the current date and time. Touch the button to open the [Clock Setting] window.
9. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. To control each parameter input permissions according to the selected Gain adjust mode, the screen script is used. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.9 One-touch tuning (B-30023)



#### Outline

Perform one-touch tuning.

#### Description

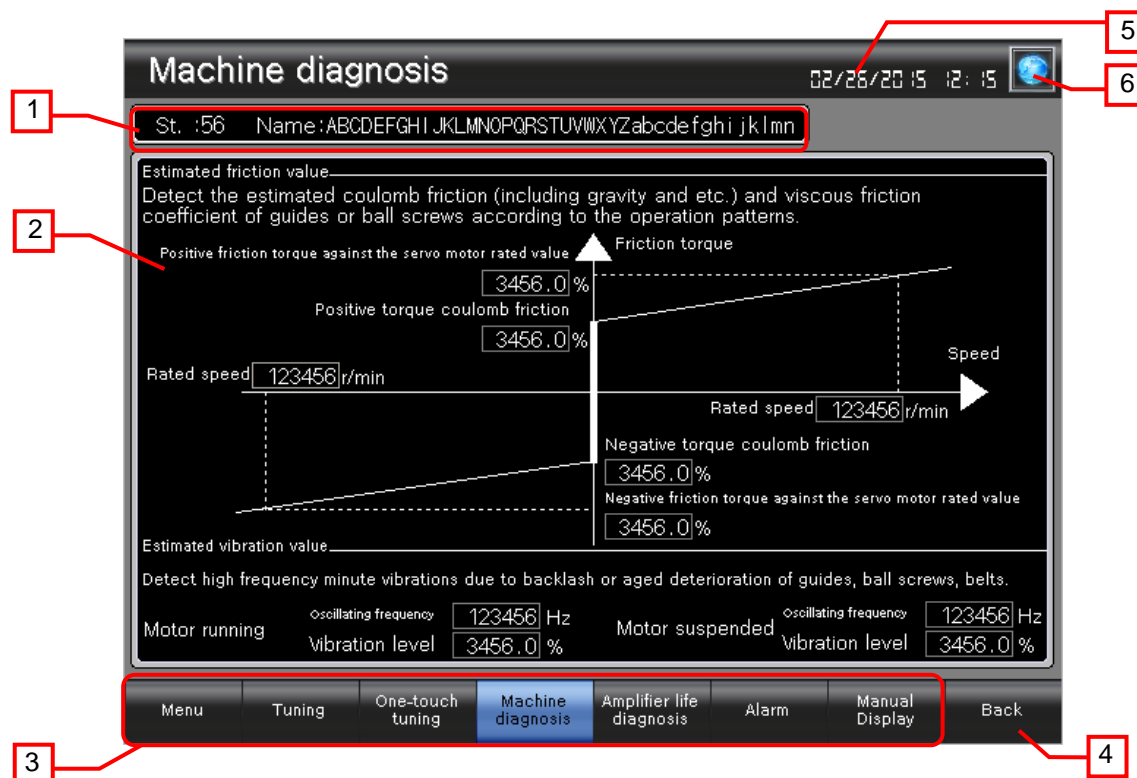
1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Selects reply mode.
3. Displays the error code.
4. Back to the previous state before one touch tuning.
5. Back to the initial state.
6. Perform one touch tuning according to the selected reply mode.
7. Displays the result of tuning.
8. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
9. Switches to the previously opened screen.
10. Displays the current date and time. Touch the button to open the [Clock Setting] window.
11. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. The screen script is used to perform one touch tuning according to the selected reply mode. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.



### 5.3.10 Machine diagnosis (B-30024)



#### Outline

Display the machine diagnosis

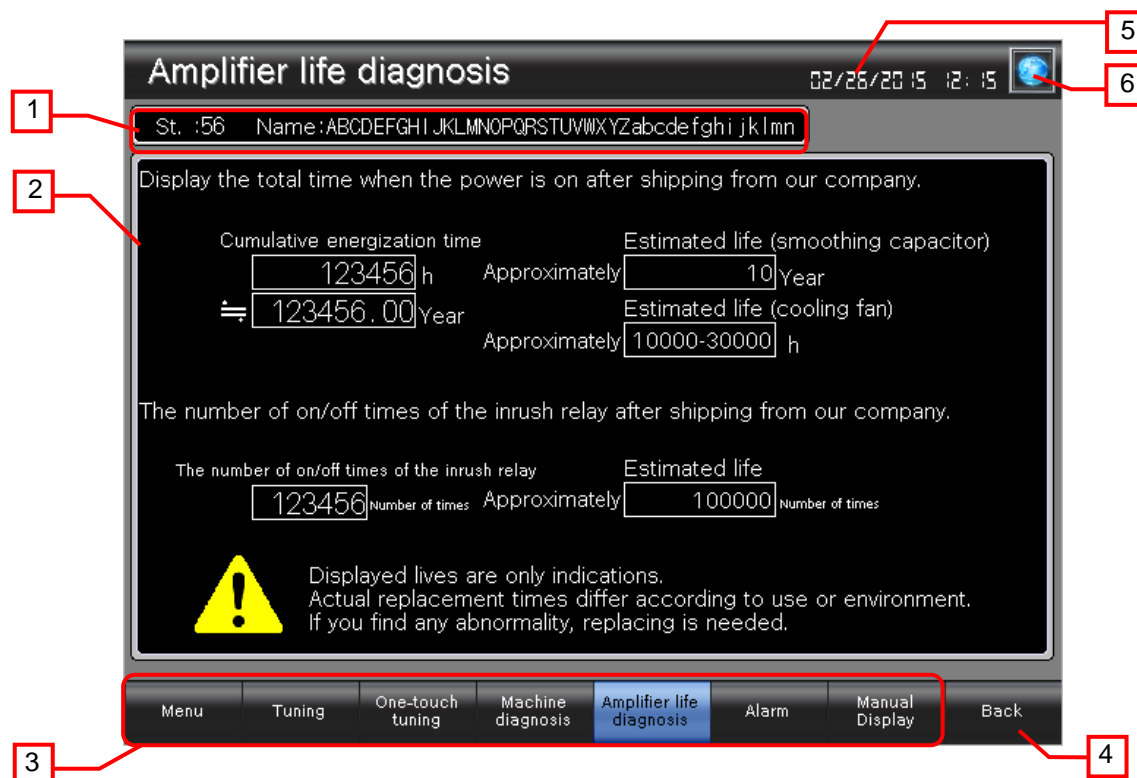
#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Display the result of machine diagnosis.
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Switches to the previously opened screen.
5. Displays the current date and time. Touch the button to open the [Clock Setting] window.
6. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.7 Script List".
- Communication time out system alarm occurs when monitoring the machine diagnosis screen without estimated completion of positive friction information, negative friction information and oscillation.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.11 Amplifier life diagnosis (B-30025)



#### Outline

Display the amplifier life diagnosis

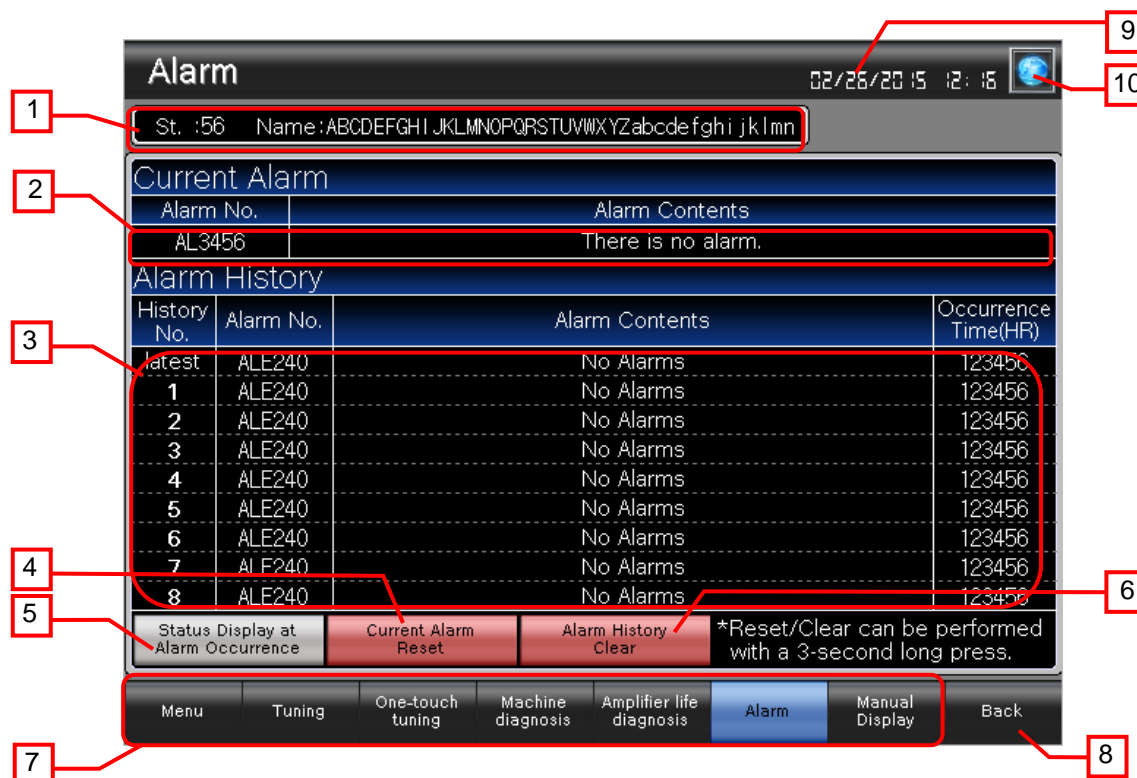
#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Displays the result of amplifier life diagnosis.
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Switches to the previously opened screen.
5. Displays the current date and time. Touch the button to open the [Clock Setting] window.
6. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.12 Alarm (B-30026)



#### Outline

This screen displays alarms, and allows their history to be checked.

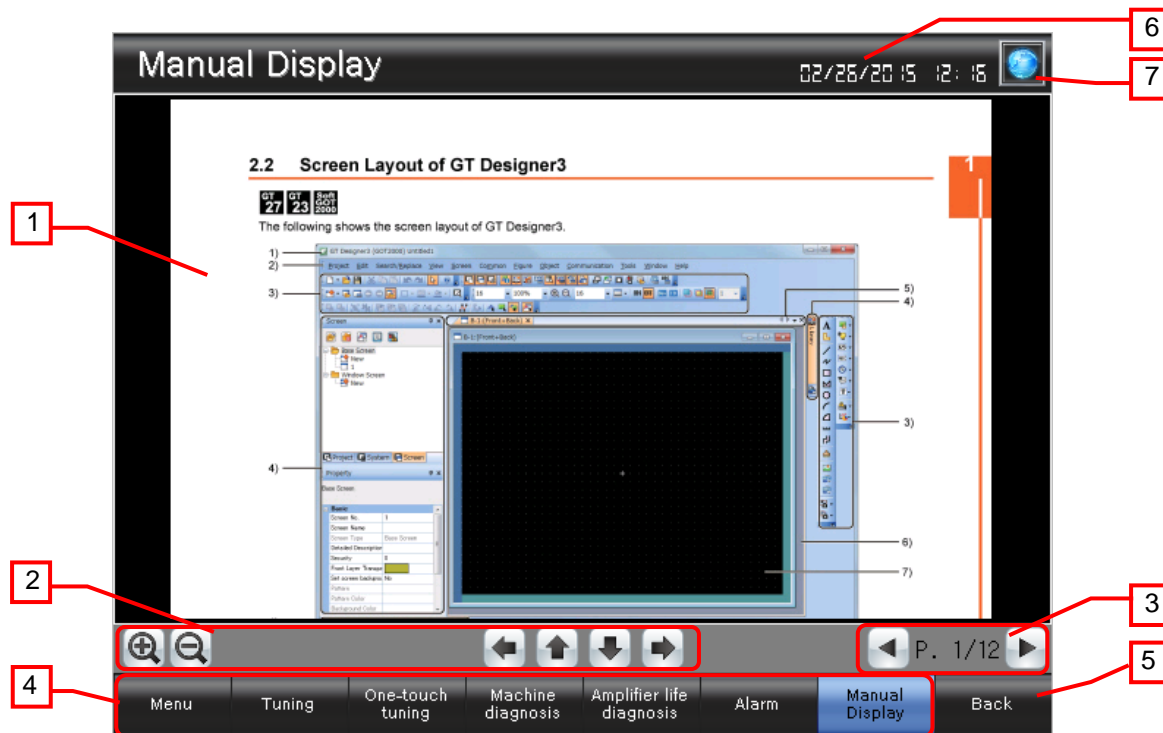
#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Displays the current alarm number and message.  
Displays the previous alarms.  
Displays the latest alarm (that occurred last) and the next eight most recent alarms (i.e., nine previous alarms in total).
3. Resets the current alarm with a 3-second long press.
4. Displays the [Alarm occurrence status] window.
5. Clears the alarm history with a 3-second long press.
6. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
7. Switches to the previously opened screen.
8. Displays the current date and time. Touch the button to open the [Clock Setting] window.
9. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.13 Manual Display (B-30500)



#### Outline

This screen displays the manual of the currently displayed language.

#### Description

1. Manual Display displays a document with document ID (201 to 203) according to the language. The page 1 is displayed when the screen is displayed initially. While touching the document, flicking to 8 directions will scroll the document to 8 directions. While displaying the edge of the document, flicking the document will switch pages. Pinching out and in will zoom in and out the document in 3 steps (large, middle, and small).
2. Operates the displayed document.
  - : Enlarges or reduces the displayed document.
  - : Enlarges or reduces the displayed document.
  - : Scrolls the displayed document to the left or right.
  - : Scrolls the displayed document to the left or right.
  - : Scrolls the displayed document up and down.
  - : Scrolls the displayed document up and down.
3. Operates the displayed document page.
  - : Displays the page number of the displayed document. Touch the value to change the page number.
  - : Switches to the previous or next page of the displayed document.
  - : Switches to the previous or next page of the displayed document.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touch the button to open the [Clock Setting] window.
7. Opens the [Language Setting] window.

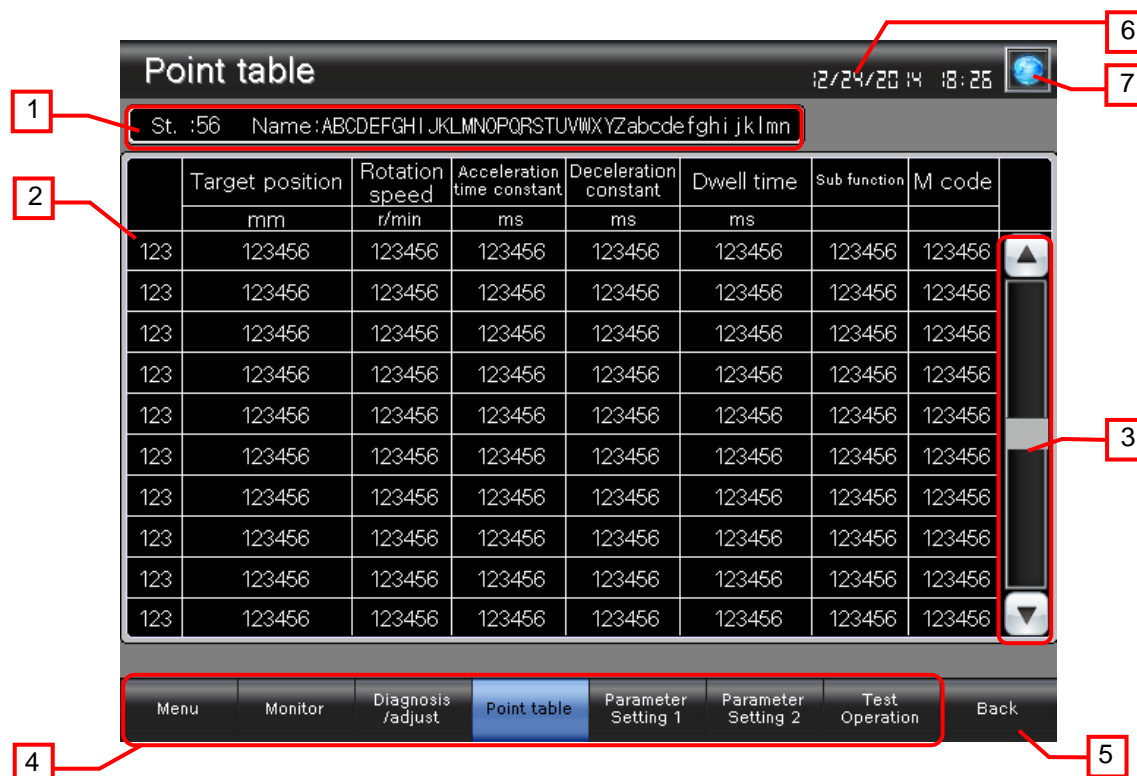
## Remarks

- The language setting reflect documents for Manual display. The relation of the column No. of the comment group No., languages and document (Document ID) is shown below.

Column No. of the comment group No	Language	Document ID
1	English	201
2	Japanese	202
3	Chinese (Simplified)	203

- When GOT is started, the document page is set to No. "1" and the Document ID is set to "201" with the project script. For more details about scripts, please refer to "5.7 Script List".
- The page feed switches are set not to exceed the total number of document pages by object script. For more details about scripts, please refer to "5.7 Script List".
- The document data for the manual display should be prepared by the customers. For more details, please refer to "6. MANUAL DISPLAY".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.14 Point table (B-30031)



#### Outline

Display/set EEPROM point table of servo amplifier.

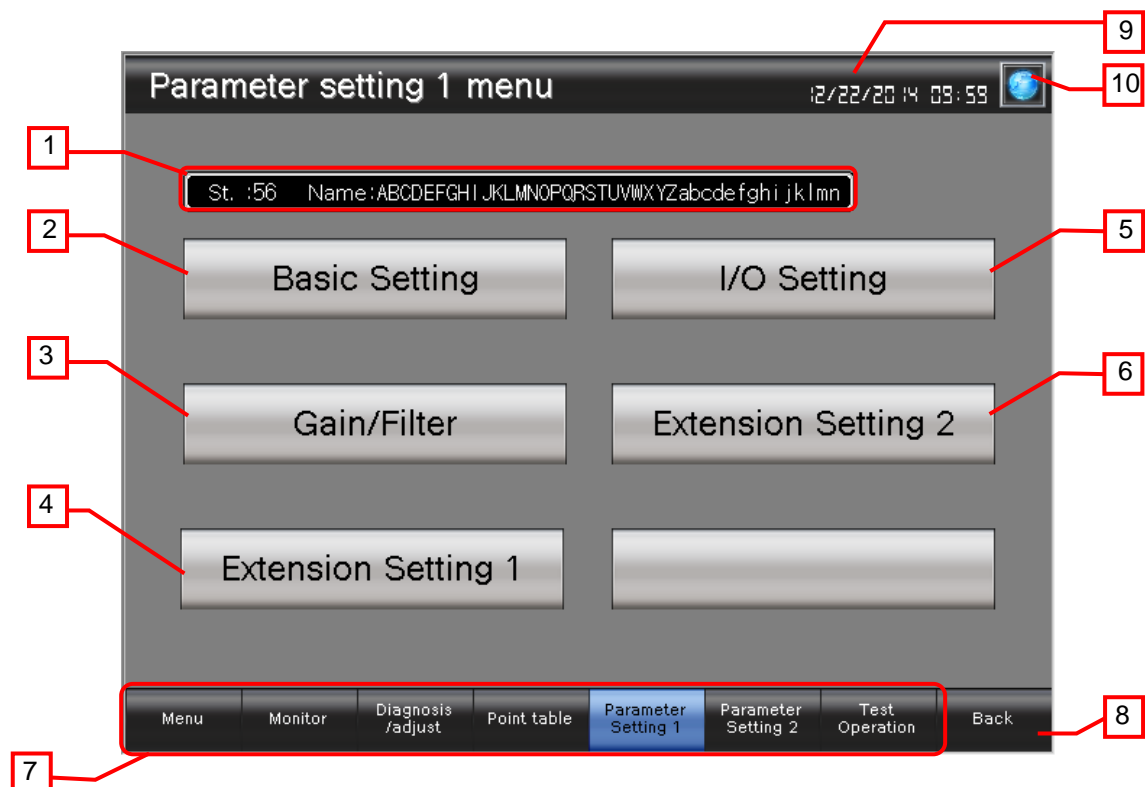
#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Displays and sets point table.
3. Scrolls point table.  
 : Scrolls up and down 1 rows.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touch the button to open the [Clock Setting] window.
7. Opens the [Language Setting] window.

#### Remarks

- Point table is displayed by super impose window. The super impose window is displayed by the screen script. The project script is used to clear the super impose window and for monitor target selection. Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.15 Parameter setting 1 menu (B-30041)



#### Outline

This is the menu screen for parameter setting 1.

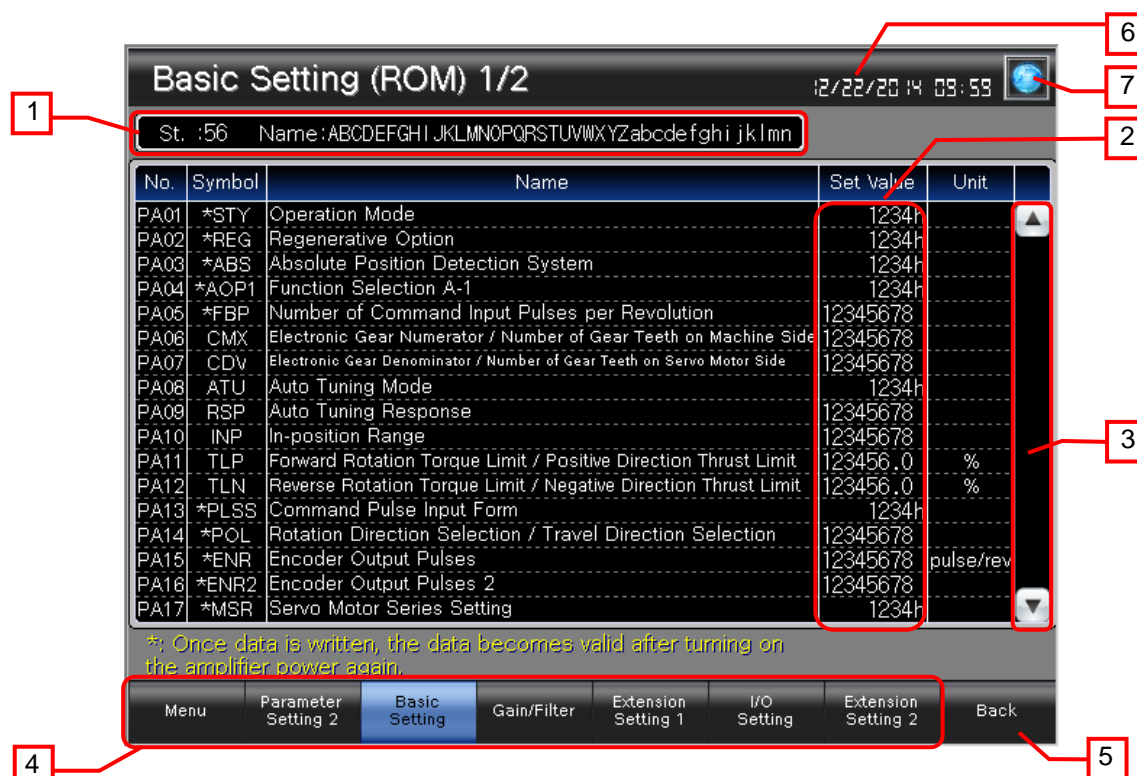
#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Switches to the [Basic Setting Parameters (ROM)] screen.
3. Switches to the [Gain/Filter Parameters (ROM)] screen.
4. Switches to the [Ext.Setting1 Parameters (ROM)] screen.
5. Switches to the [I/O Setting Parameters (ROM)] screen.
6. Switches to the [Ext.Setting2 Parameters (ROM)] screen.
7. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
8. Switches to the previously opened screen.
9. Displays the current date and time. Touch the button to open the [Clock Setting] window.
10. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.16 Basic Setting (ROM)(B-30042 to 30043)



#### Outline

This screen allows displaying and setting the basic setting parameters of EEPROM in the servo amplifier.

#### Description

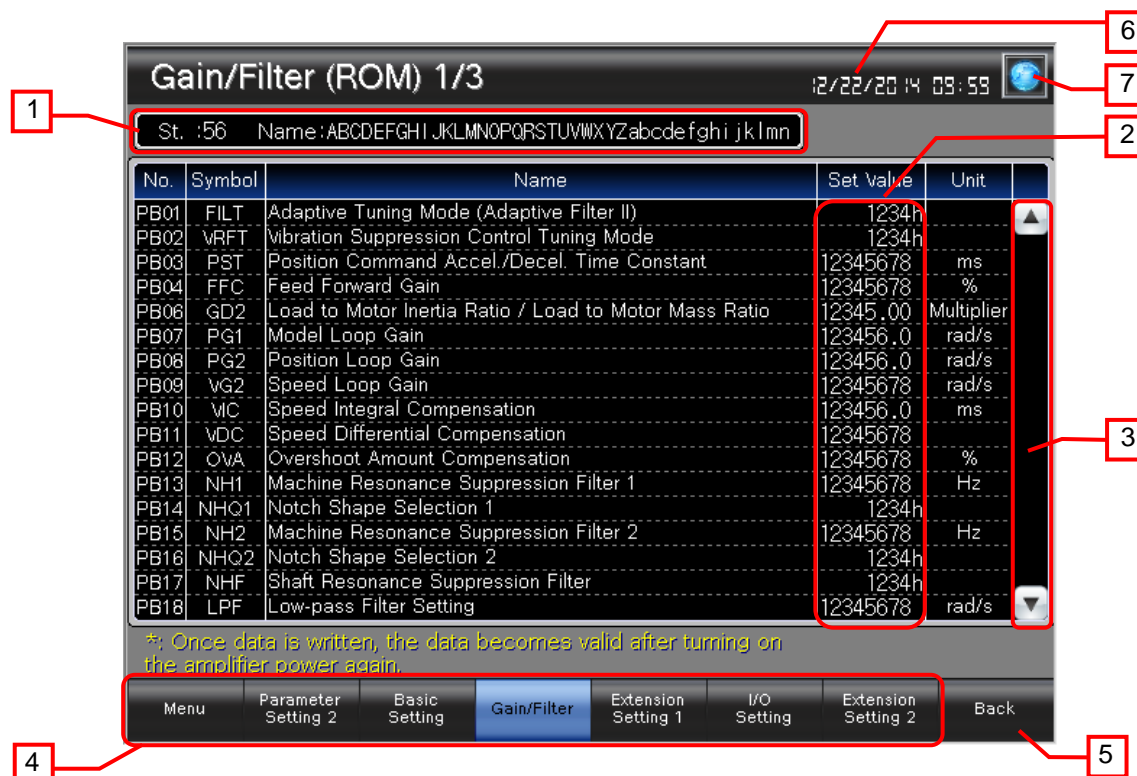
1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Displays and sets the parameter set values.  
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
3. Switches displayed item of Basic Setting.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touch the button to open the [Clock Setting] window.
7. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.



### 5.3.17 Gain/Filter (ROM)(B-30045 to 30047)



#### Outline

This screen shows and allows setting of the gain/filter parameters of EEP-ROM in the servo amplifier.

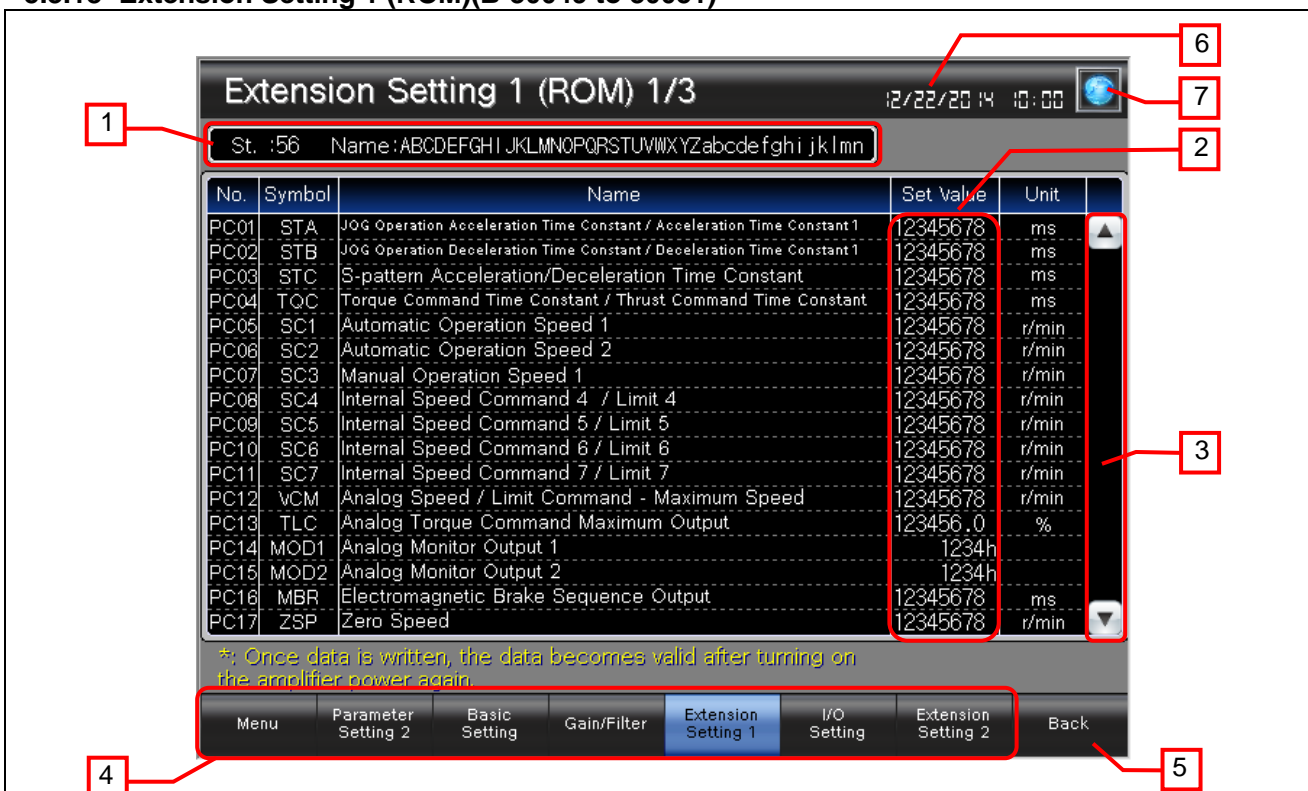
#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Displays and sets the parameter set values.  
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
3. Switches the displayed item of gain/filter parameter.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touch the button to open the [Clock Setting] window.
7. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.18 Extension Setting 1 (ROM)(B-30049 to 30051)



#### Outline

This screen allows displaying and setting the extension setting 1 parameters of EEP-ROM in the servo amplifier.

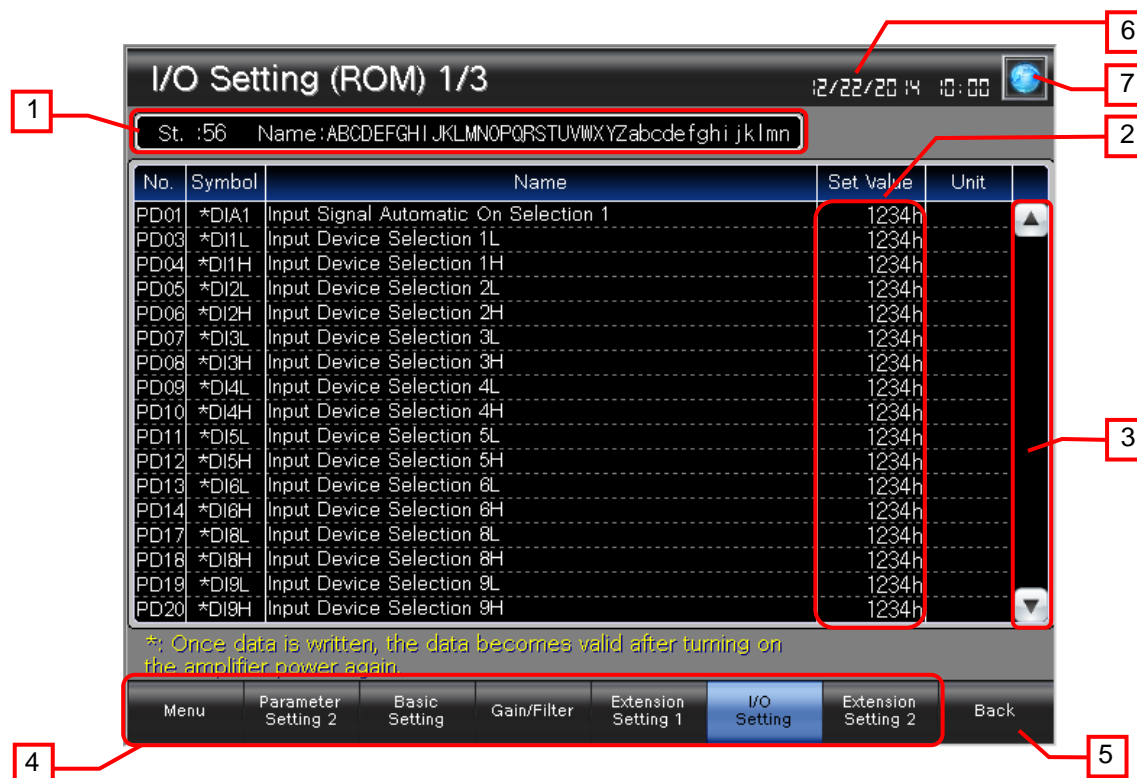
#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Displays and sets the parameter set values.  
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
3. Switches displayed item of Ext.Setting1 Parameters (ROM).
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touch the button to open the [Clock Setting] window.
7. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.19 I/O Setting (ROM)(B-30053 to 30055)



#### Outline

This screen allows displaying and setting the I/O setting parameters of EEPROM in the servo amplifier.

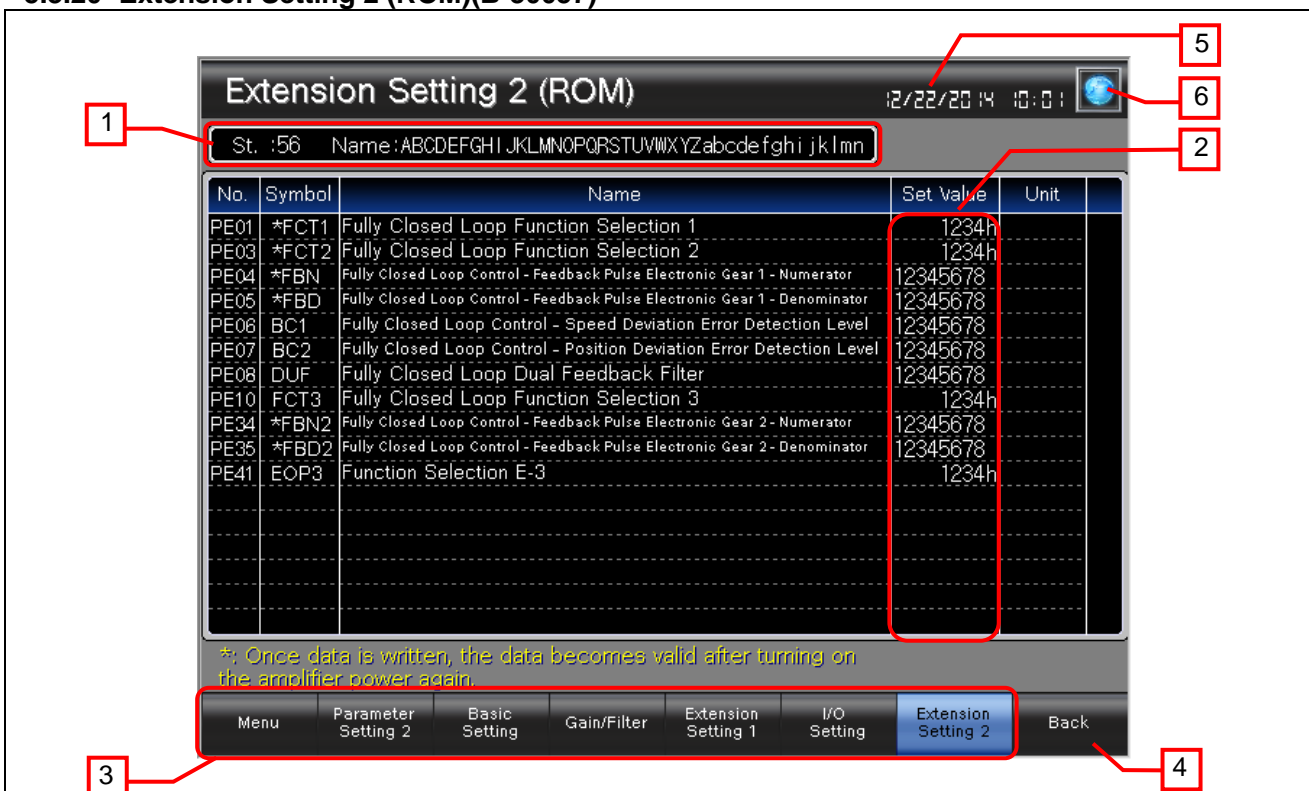
#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Displays and sets the parameter set values.  
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
3. Switches to displayed item of input/output setting parameter.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touch the button to open the [Clock Setting] window.
7. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.20 Extension Setting 2 (ROM)(B-30057)



#### Outline

This screen allows displaying and setting the extension setting 2 parameters of EEP-ROM in the servo amplifier.

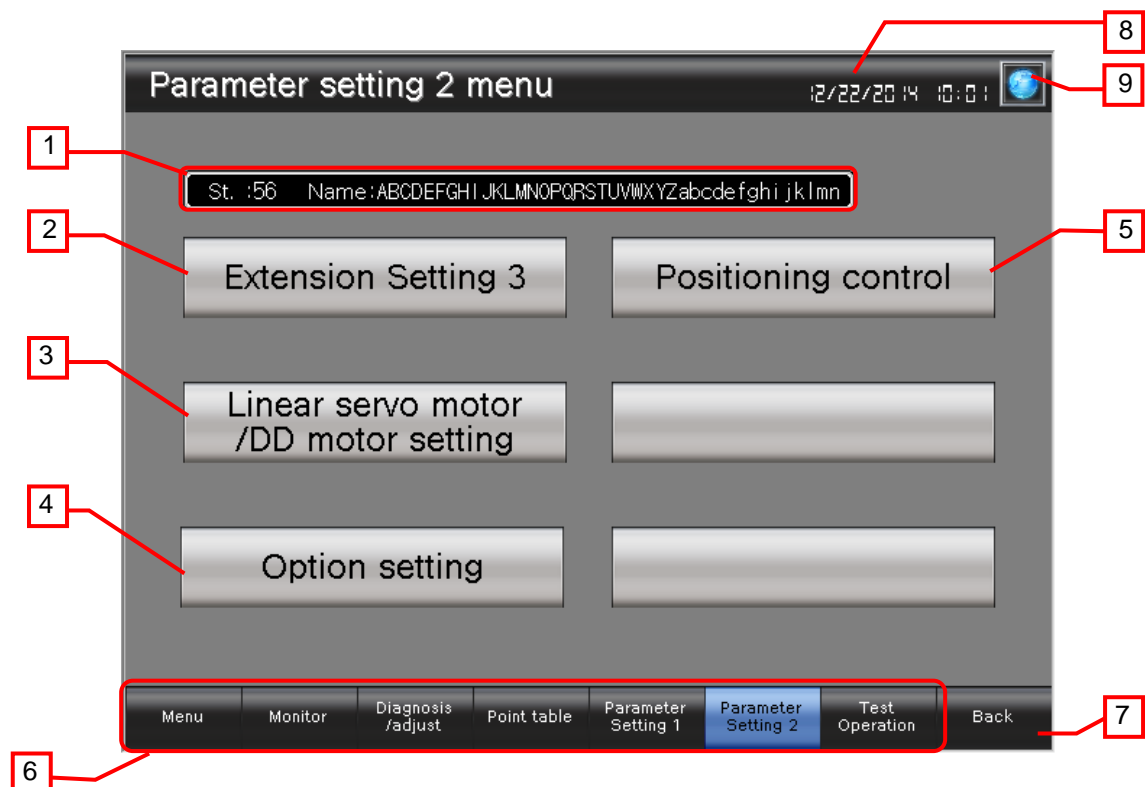
#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Displays and sets the parameter set values.  
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Switches to the previously opened screen.
5. Displays the current date and time. Touch the button to open the [Clock Setting] window.
6. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.21 Parameter setting 2 menu (B-30061)



#### Outline

This is the menu screen for parameter setting 2.

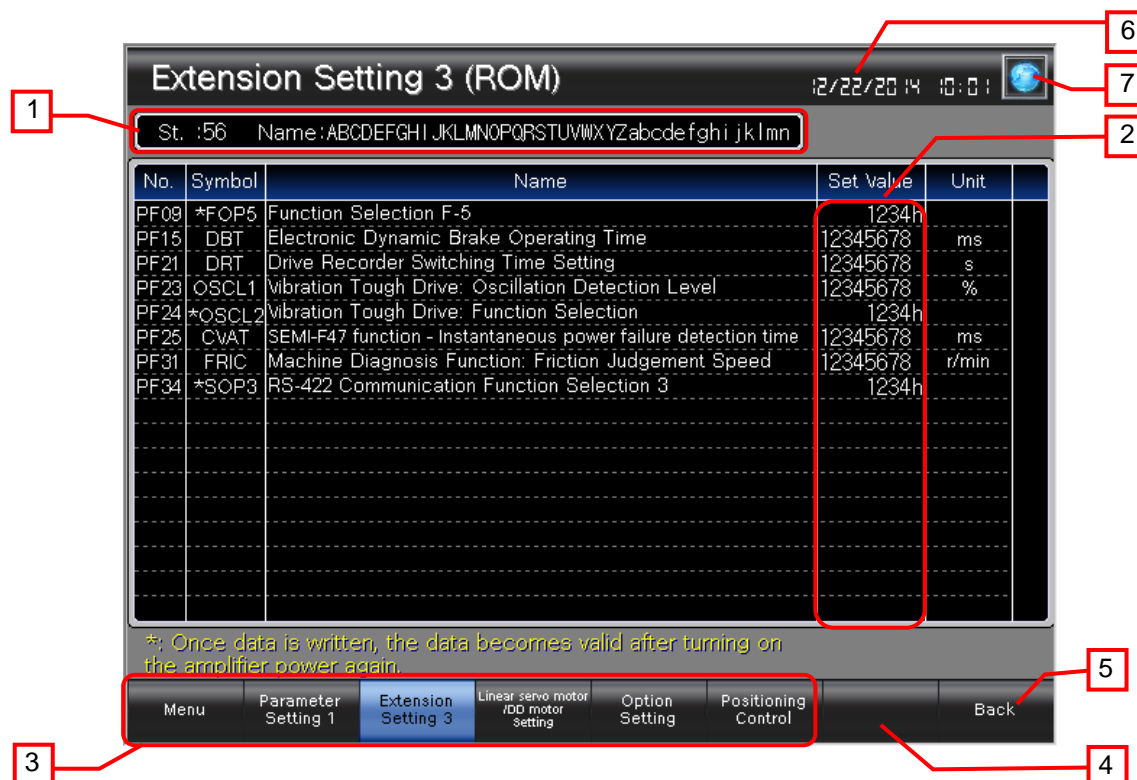
#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Switches to the [Ext.Setting3 Parameters (ROM)] screen.
3. Switches to the [LinearServo/DDMotorSetParam (ROM)] screen.
4. Switches to the [Option Setting Parameters (ROM)] screen.
5. Switches to the [PositioningCtrlParameter (ROM)] screen.
6. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
7. Switches to the previously opened screen.
8. Displays the current date and time. Touch the button to open the [Clock Setting] window.
9. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.22 Extension Setting 3 (ROM)(B-30063)



#### Outline

This screen allows displaying and setting the extension setting 3 parameters of EEP-ROM in the servo amplifier.

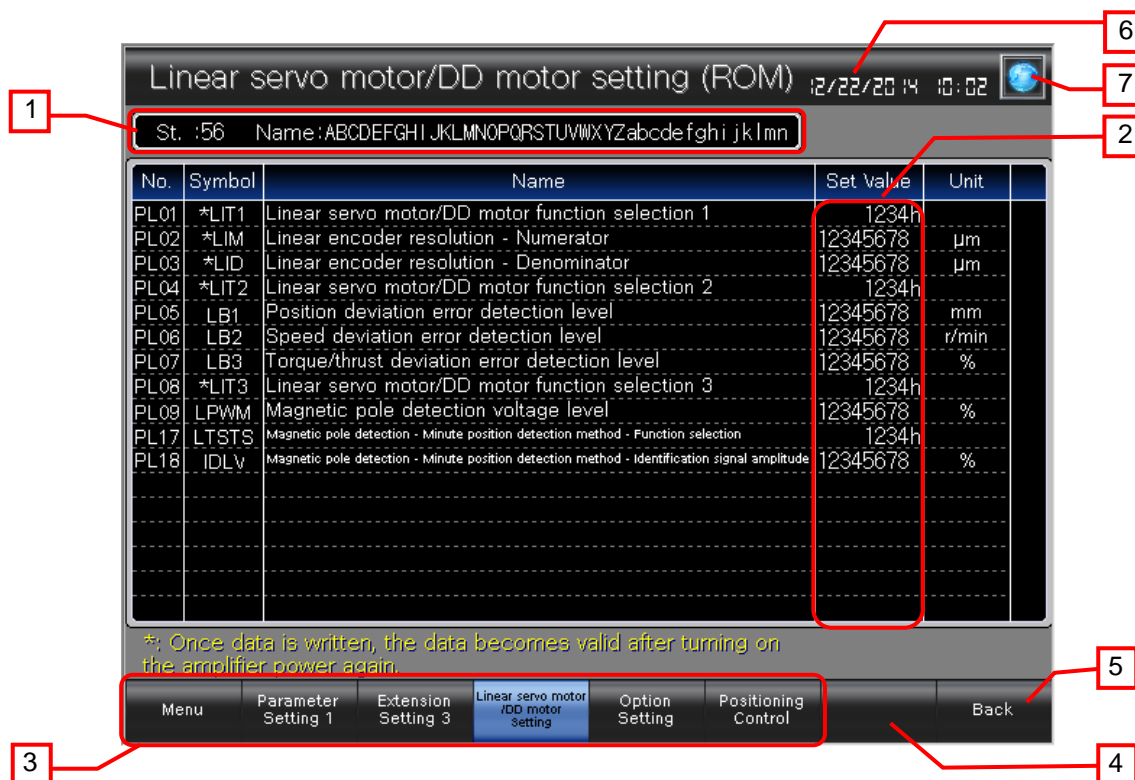
#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Displays and sets the parameter set values.  
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Shows unused switches for base screen switching.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touch the button to open the [Clock Setting] window.
7. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.23 Linear servo motor /DD motor setting (ROM)(B-30065)



#### Outline

This screen allows displaying and setting the linear servo motor /DD motor setting parameters of EEP-ROM in the servo amplifier.

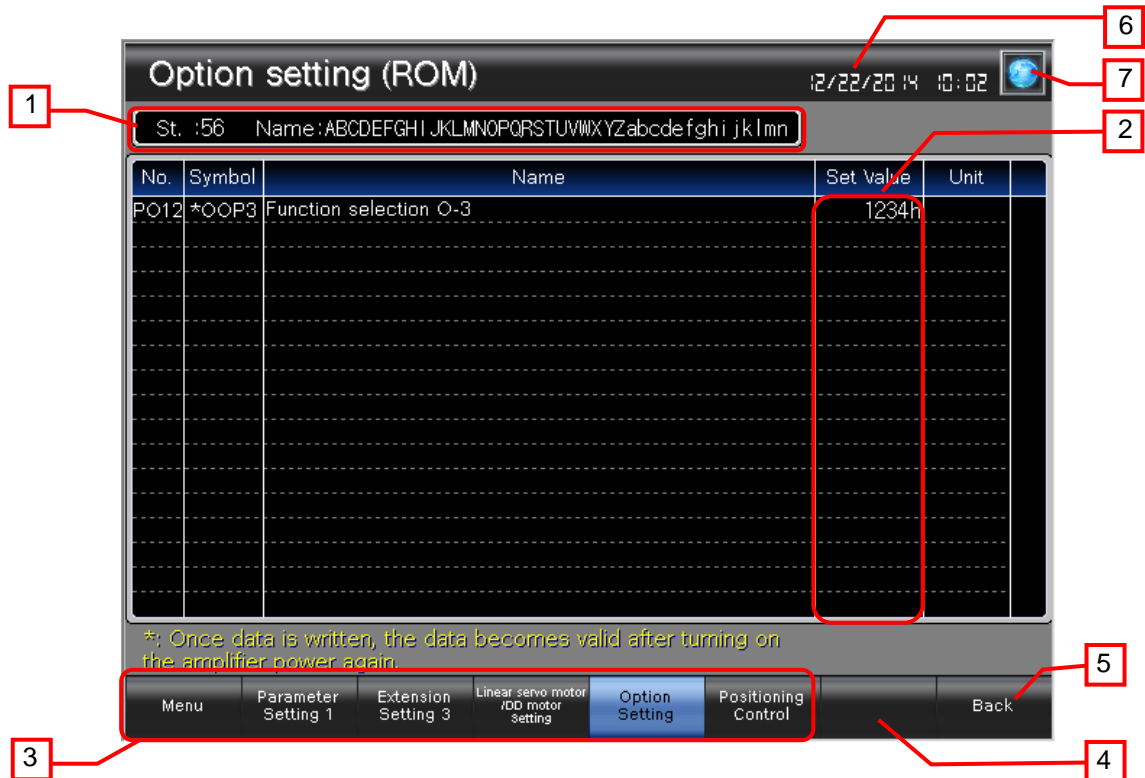
#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Displays and sets the parameter set values.
3. (The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Shows unused switches for base screen switching.
6. Switches to the previously opened screen.
7. Displays the current date and time. Touch the button to open the [Clock Setting] window.
8. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.24 Option setting (ROM)(B-30067)



#### Outline

This screen allows displaying and setting the option setting parameters of EEP-ROM in the servo amplifier.

#### Description

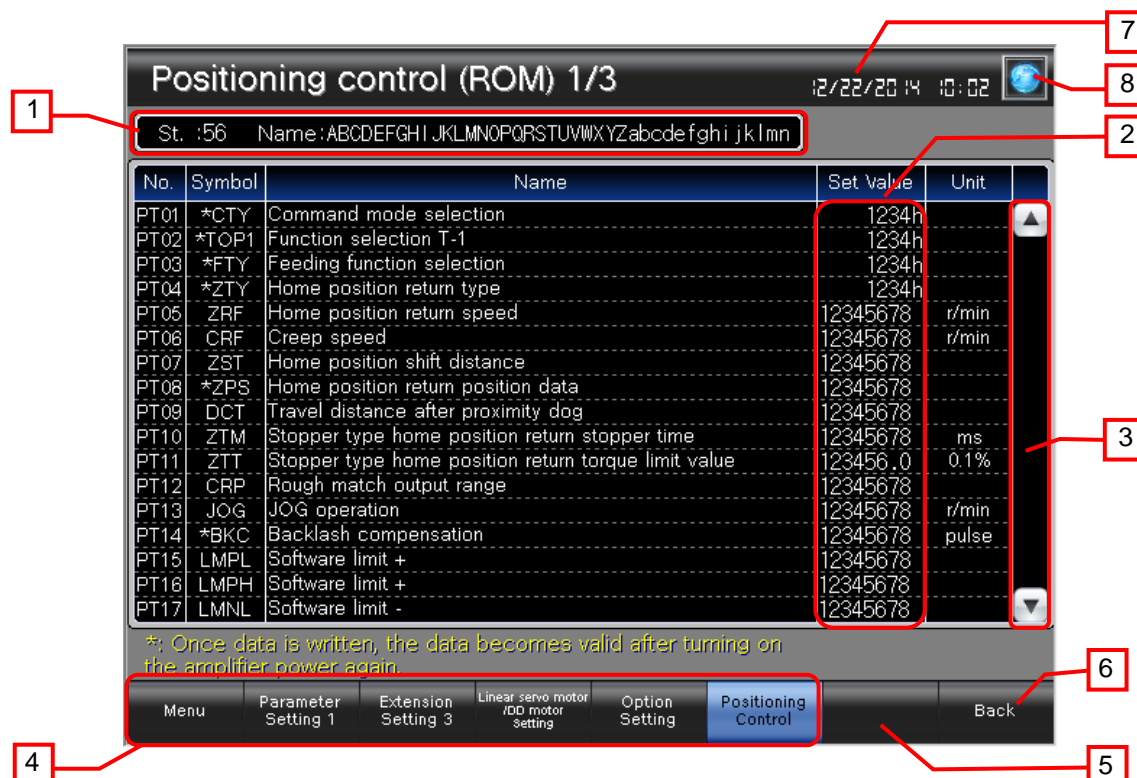
1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Displays and sets the parameter set values.
3. (The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Shows unused switches for base screen switching.
6. Switches to the previously opened screen.
7. Displays the current date and time. Touch the button to open the [Clock Setting] window.
8. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.



### 5.3.25 Positioning control (ROM)(B-30069 to 30071)



#### Outline

This screen allows displaying and setting the position control parameters of EEPROM in the servo amplifier.

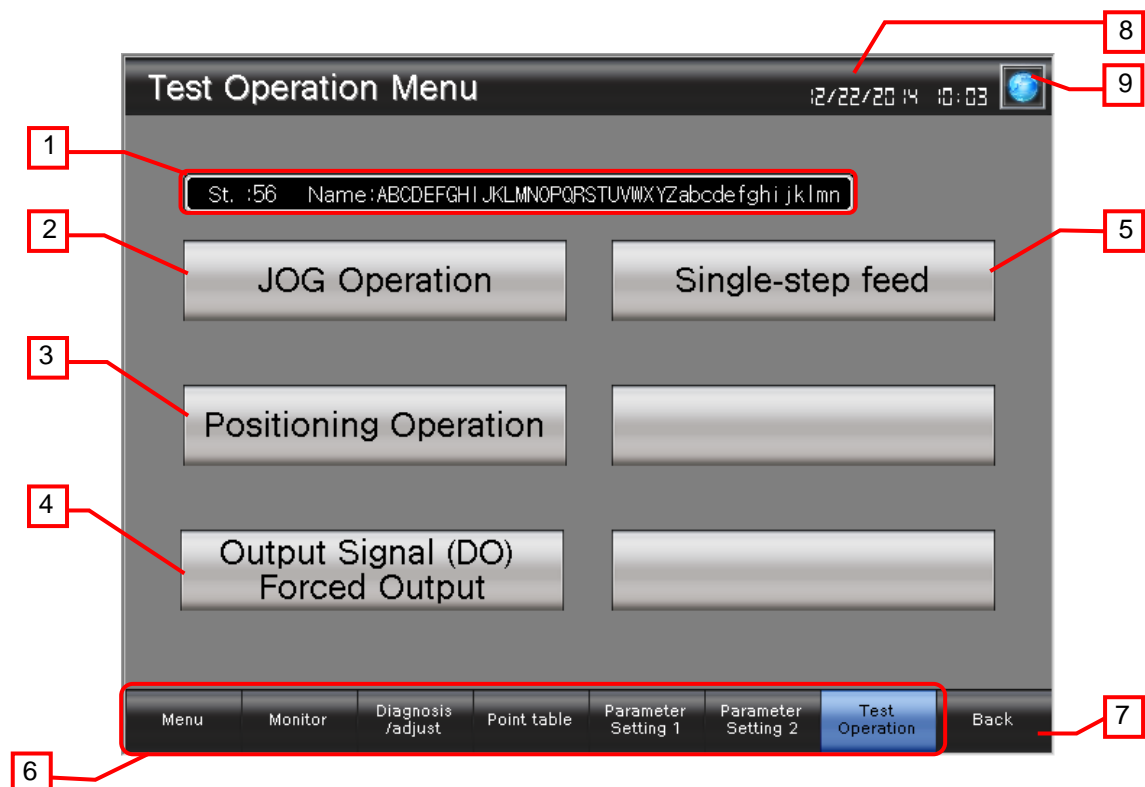
#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Displays and sets the parameter set values.
3. (The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
4. Switches the displayed item of positioning control parameter.
5. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
6. Shows unused switches for base screen switching.
7. Switches to the previously opened screen.
8. Displays the current date and time. Touch the button to open the [Clock Setting] window.
9. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.26 Test Operation menu (B-30081)



#### Outline

This is the test operation menu screen.

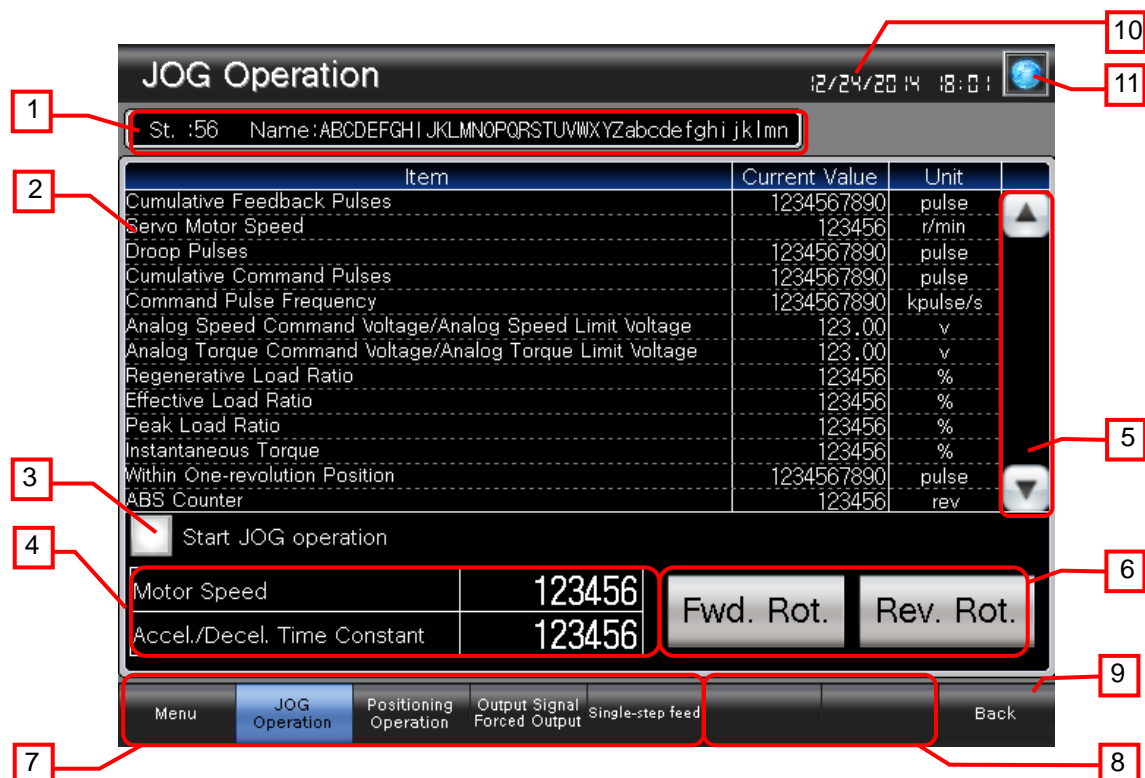
#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Switches to the [JOG Operation] screen.
3. Switches to the [positioning operation] screen.
4. Switches to the [Output Signal (DO) Forced Output] screen.
5. Switches to the [Single-step feed] screen.
6. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
7. Switches to the previously opened screen.
8. Displays the current date and time. Touch the button to open the [Clock Setting] window.
9. Opens the [Language Setting] window.

#### Remarks

- Monitoring target station selection uses the project script. For more details about scripts, please refer to "5.7 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.27 JOG Operation (B-30083)



#### Outline

This screen allows a JOG operation test to be conducted.

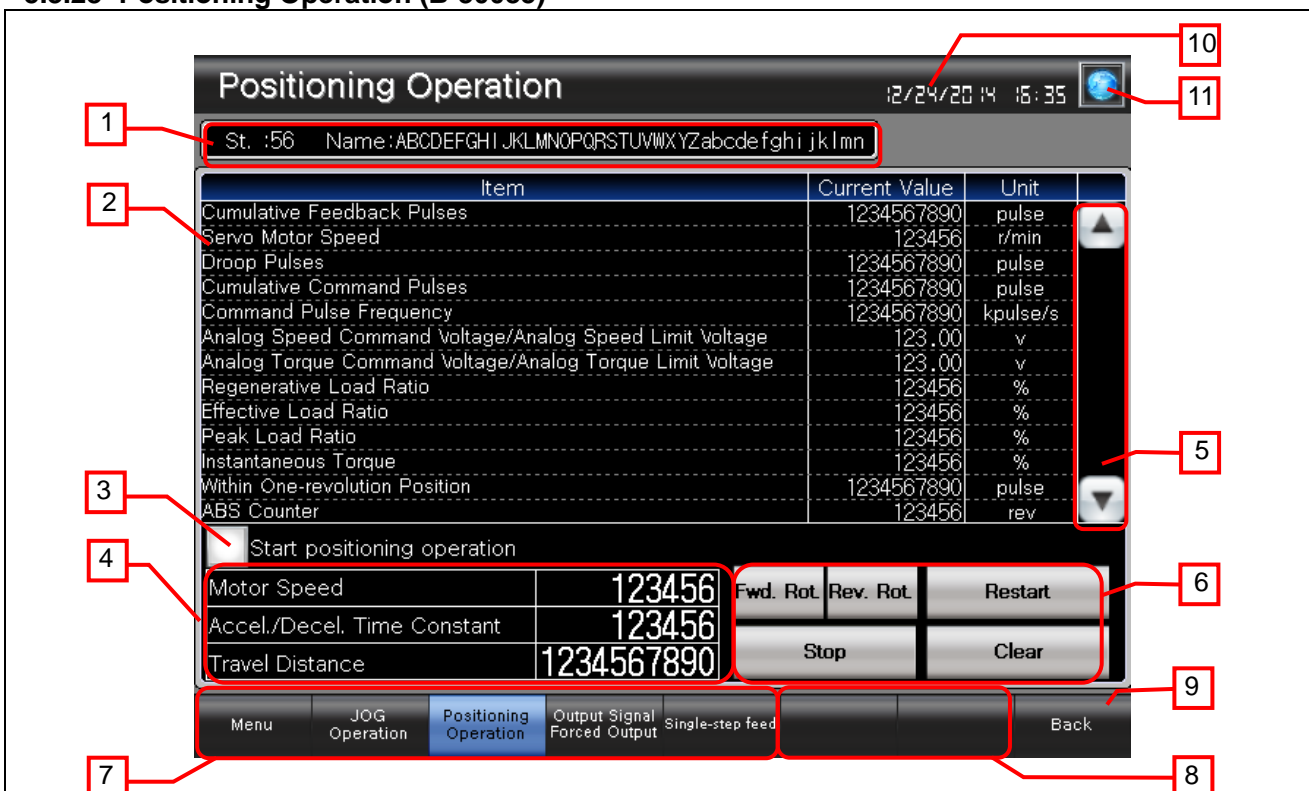
#### Description

- Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
- Displays the servo motor status.  
Switches to JOG operation mode. Touch again during JOG operation to end test operation mode.
- Sets the motor speed, Acceleration/Deceleration Time Constant.
- Changes displayed items of status.
- Perform JOG Operation.  
Fwd. Rot.: Performs JOG operation in forward rotation while being touched.  
Rev. Rot.: Performs JOG operation in forward rotation while being touched.
- Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
- Shows unused switches for base screen switching.
- Switches to the previously opened screen.
- Displays the current date and time. Touch the button to open the [Clock Setting] window.
- Opens the [Language Setting] window.

#### Remarks

- Servo motor status is displayed by super impose window. The project script is used to clear super imposes window and for monitor target selection. Switching JOG operation mode, motor rotation speed, accel./decel. time constant and forward/reverse rotation operation are controlled by the screen script. For more details about scripts, please refer to "5.7 Script List".
- During test operation, screen switching, station switching cannot be used.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.28 Positioning Operation (B-30085)



#### Outline

This screen allows a positioning operation test to be conducted.

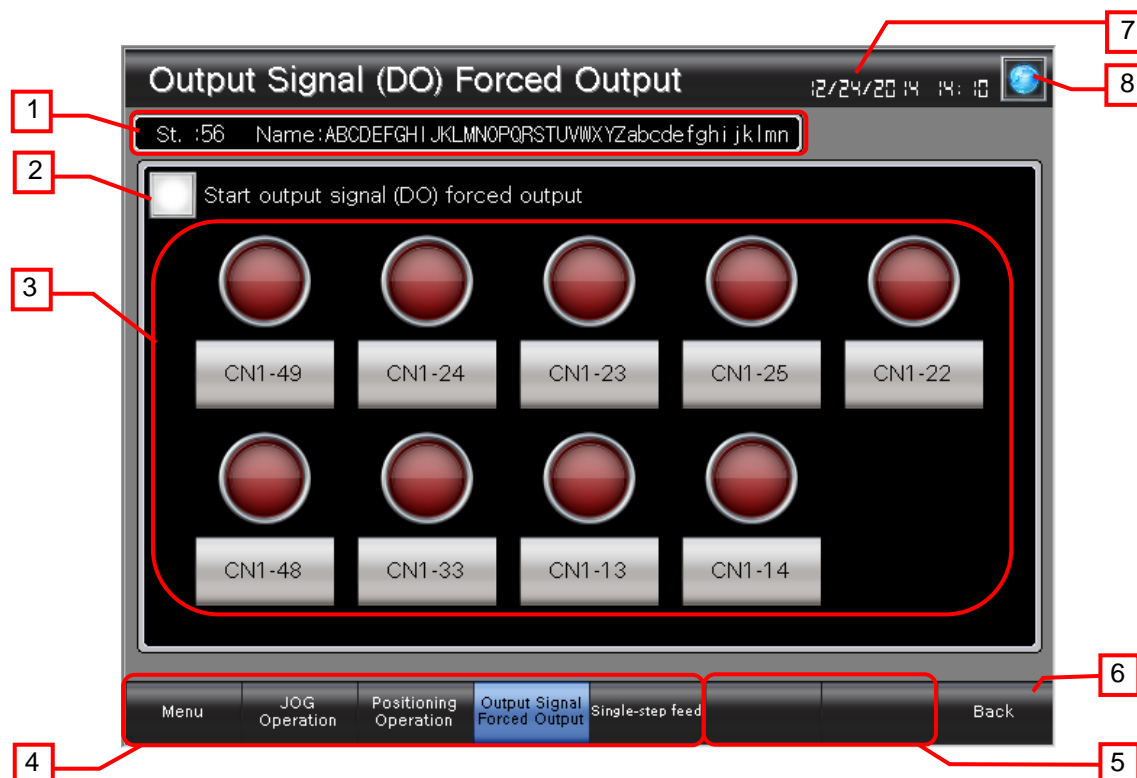
#### Description

- Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
- Displays the servo motor status.
- Switches to positioning operation mode. Touch again during positioning operation mode to end test operation mode.
- Sets the motor speed, Acceleration/Deceleration Time Constant, Travel Distance.
- Changes displayed items of status.
- Operates positioning operation.
  - Fwd. Rot. : Performs the positioning operation in forward rotation.
  - Rev. Rot. : Performs the positioning operation in reverse rotation.
  - Stop : Temporarily stops the ongoing positioning operation.
  - Restart : Restarts the stopped positioning operation.
  - Clear : Clears the stopped positioning operation.
- Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
- Shows unused switches for base screen switching.
- Switches to the previously opened screen.
- Displays the current date and time. Touch the button to open the [Clock Setting] window.
- Opens the [Language Setting] window.
- 

#### Remarks

- Servo motor status is displayed by super impose window. The project script is used to clear super imposes window and for monitor target selection. Switching positioning operation mode, motor rotation speed, accel./decel. time constant and travel distance are controlled by the screen script. For more details about scripts, please refer to "5.7 Script List".
- During test operation, screen switching, station switching cannot be used.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.29 Output Signal (DO) Forced Output (B-30089)



#### Outline

This screen allows forced output of output signals.

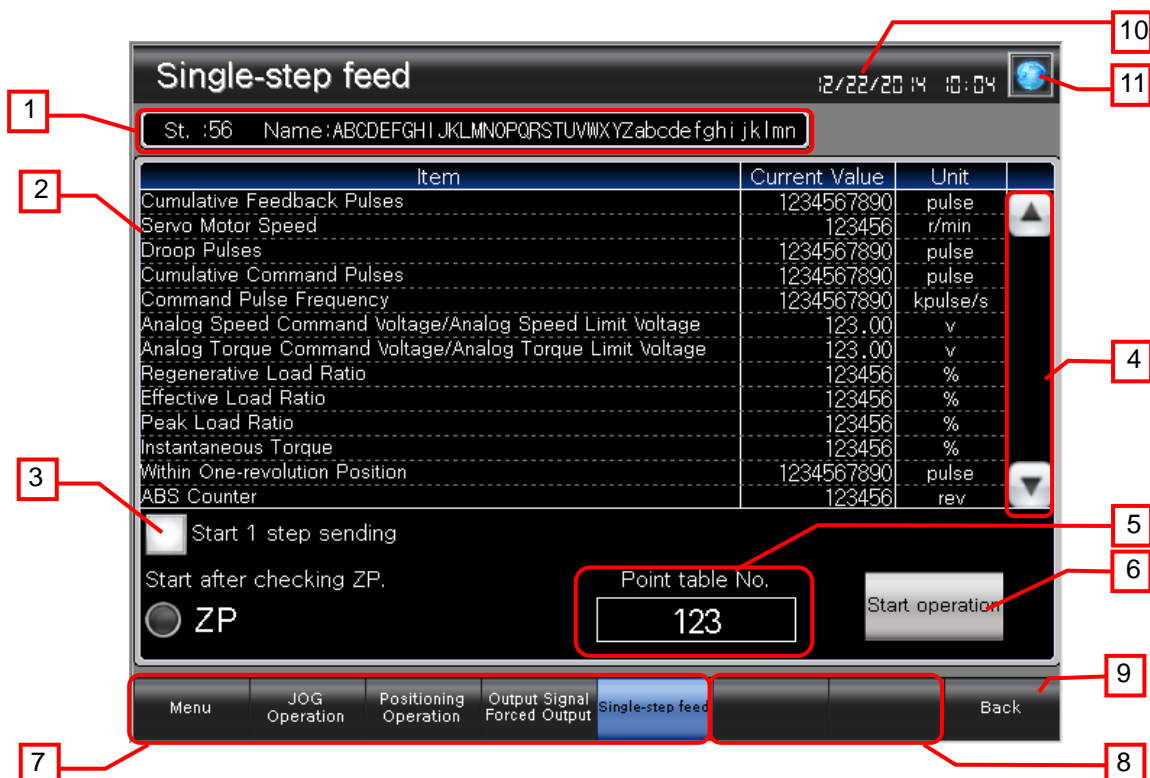
#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Switch to output signal (DO) forced output mode. Touch again during output signal (DO) forced output mode to end test operation mode.
3. Touch each switch for output signal (DO) forced output. Lamps light according to the output signals.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Shows unused switches for base screen switching.
6. Switches to the previously opened screen.
7. Displays the current date and time. Touch the button to open the [Clock Setting] window.
8. Opens the [Language Setting] window.

#### Remarks

- The project script is used for monitor target selection. Switching output signal (DO) forced output mode and output signal setting are controlled by the screen script. For more details about scripts, please refer to "5.7 Script List".
- During test operation, screen switching, station switching cannot be used.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.30 Single-step feed (B-30091)



#### Outline

Execute single-step feed

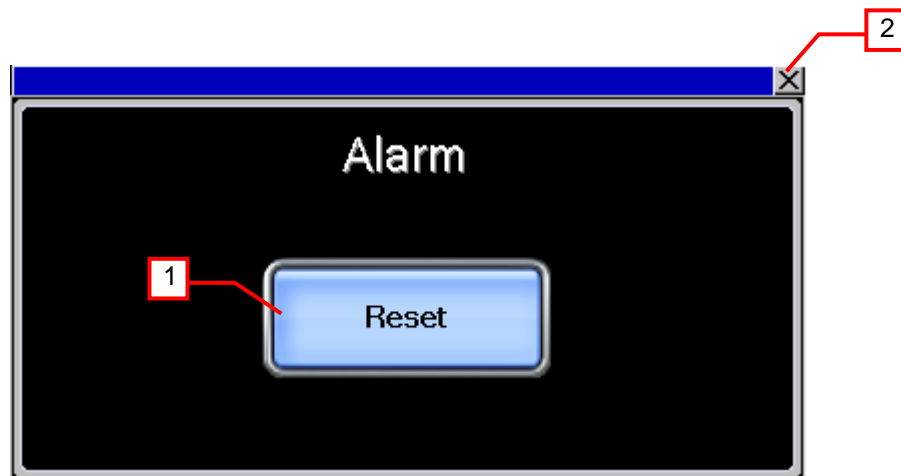
#### Description

1. Displays the Monitoring target station info. Touch the button to open the [Station Number Selection] window.
2. Displays the status of servo motor.
3. Switch to single-step feed mode. Touch the button again to end test operation mode while single-step feed mode.
4. Switches displayed item of status display.
5. Sets point table No.
6. Perform single-step feed according to the point table No.
7. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
8. Shows unused switches for base screen switching.
9. Switches to the previously opened screen.
10. Displays the current date and time. Touch the button to open the [Clock Setting] window.
11. Opens the [Language Setting] window.

#### Remarks

- Servo motor status is displayed by super impose window. The project script is used to clear super imposes window and for monitor target selection. Switching single step feed mode, setting point table No. and operation are controlled by the screen script. For more details about scripts, please refer to "5.7 Script List".
- During test operation, screen switching, station switching cannot be used.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.31 Alarm Reset (W-30001)



#### Outline

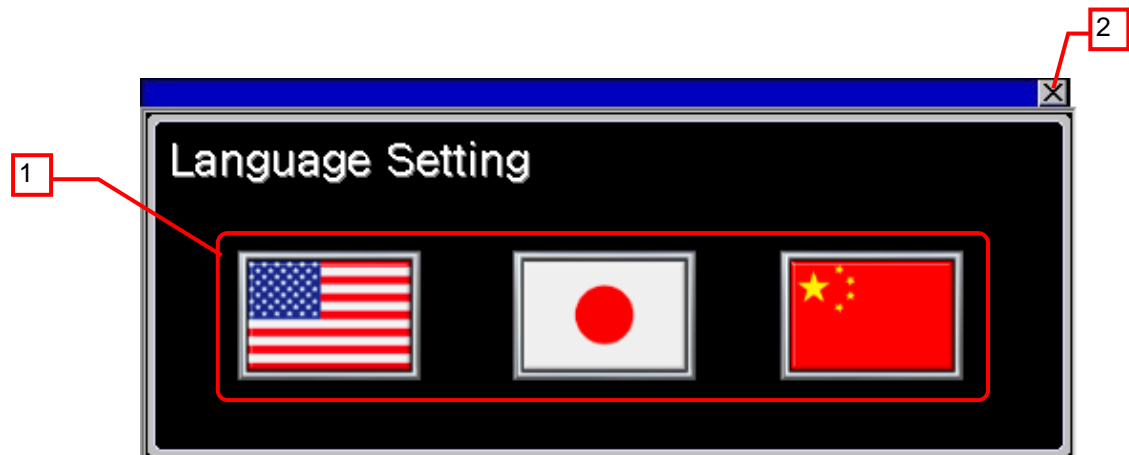
This window screen allows resetting the system alarm.

#### Description

1. Resets the system alarm, and closes the window after one second.
2. Closes the window.

#### Remarks

### 5.3.32 Language Setting (W-30002)



#### Outline

This window screen allows selecting the GOT language.

#### Description

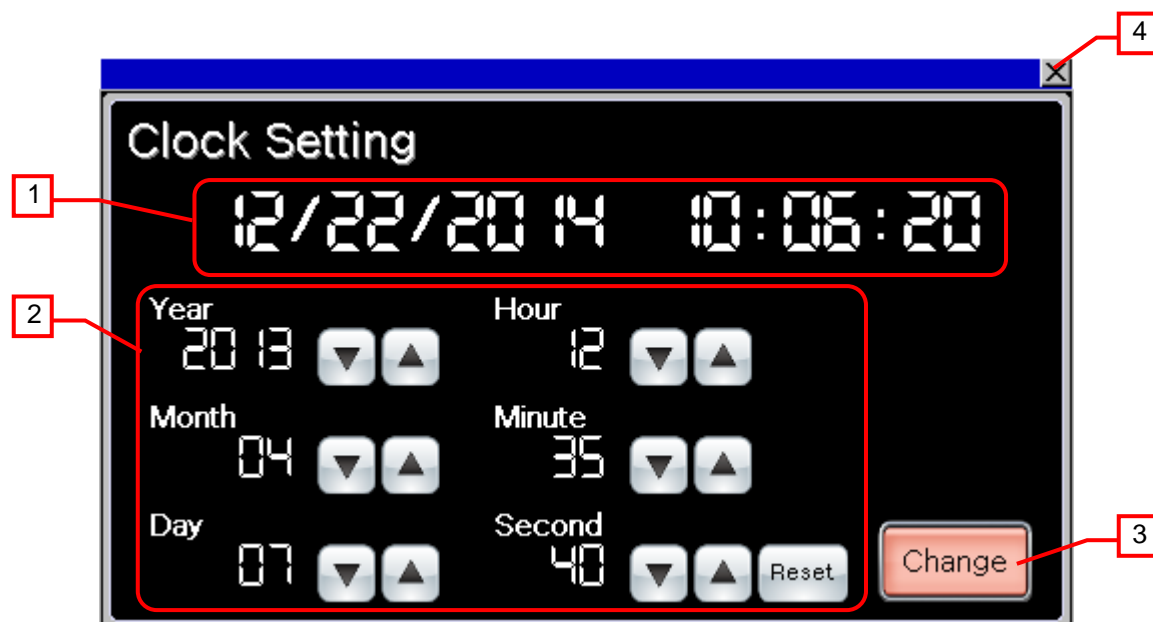
1. Switches the language, and closes the window.
2. Closes the window.

#### Remarks

- The system language and Document ID for manual display also switched corresponding to the display language.





### 5.3.33 Clock Setting (W-30003)



#### Outline

This window screen allows changing the GOT clock data.

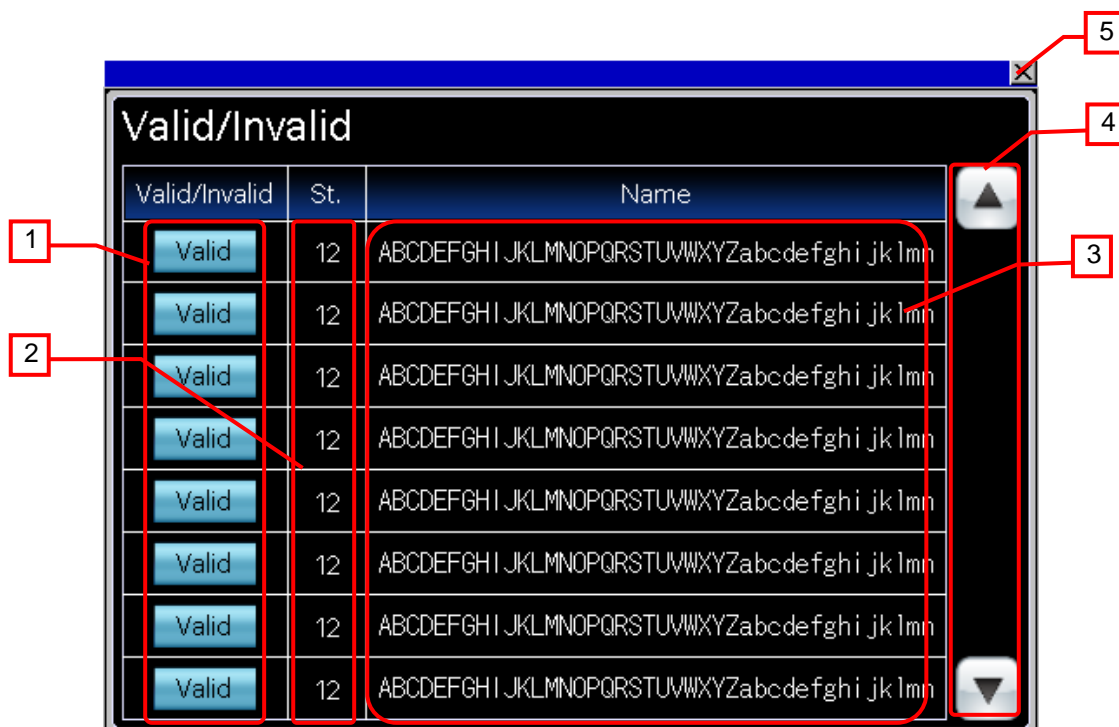
#### Description

1. Displays the current date and time.
2. Use   switches to change the date and time. Hold down the switches to increment or decrement the value continuously. The [Reset] switch resets the seconds.
3. Applies the set date and time to the GOT clock data, and closes the window after one second.
4. Closes the window.

#### Remarks

- The date and time at window opening are initially set as the clock data to be newly set.
- Object scripts are set for the numerical display of the year, month, date, hour, minute and second in the clock data to be newly set. For more details about scripts, please refer to "5.7 Script List".

### 5.3.34 Valid/Invalid St. settings (W-30008)



#### Outline

Set the valid/invalid station and the name of valid station.

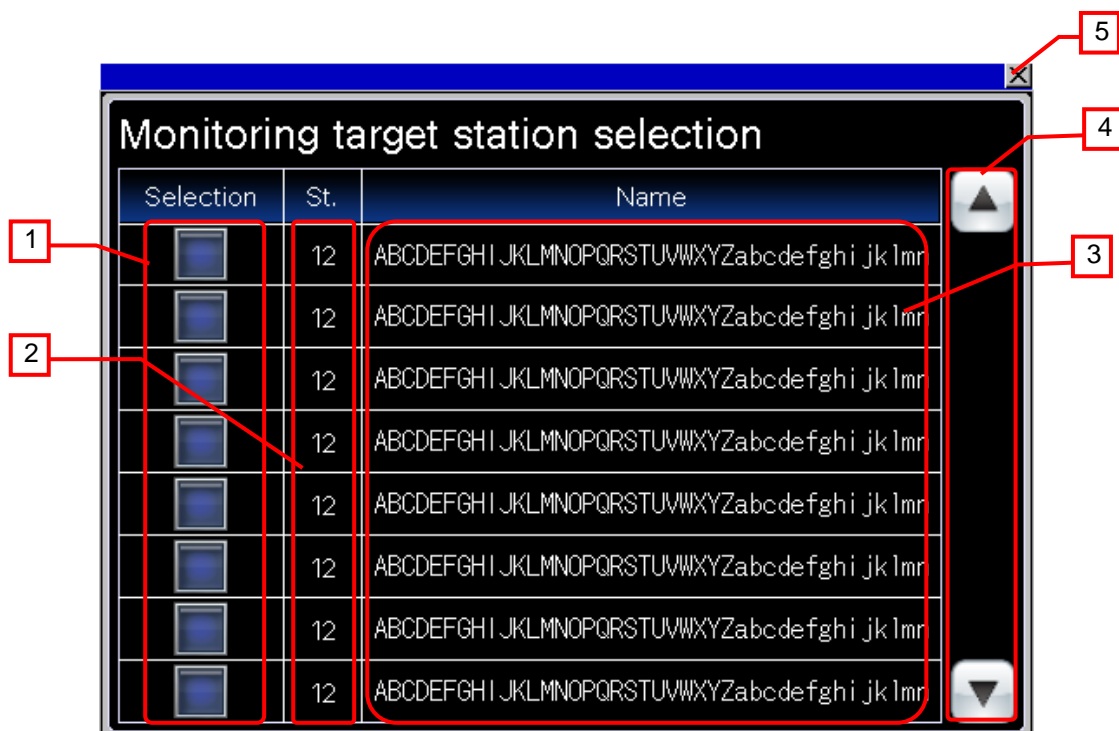
#### Description

1. Set valid/invalid.  
Connect GOT to valid/invalid/station.  
Disconnect GOT to valid/invalid station.
2. Display the station No.
3. Sets names. Only valid stations can be set.
4. Scrolls up/down the Valid/invalid station screen. Display changes by 8 lines.
5. Closes the window.

#### Remarks

- Collect logging for valid stations.
- If Japanese kana is used for [Name], the characters get garbled after language switching to English.

### 5.3.35 Station Number Selection (W-30009)



#### Outline

Select a station to be monitored

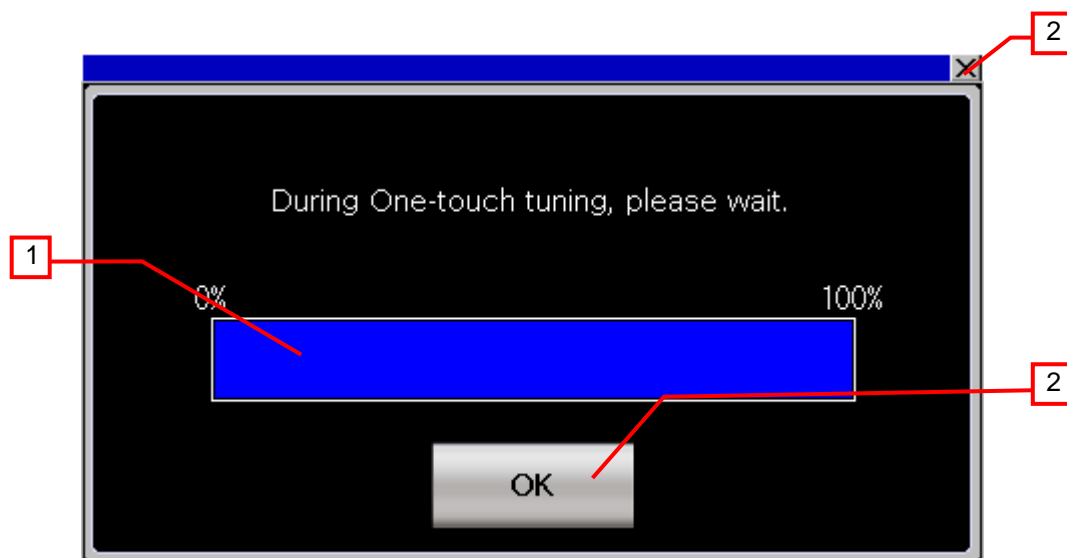
#### Description

1. Select a station to be monitored. Only valid station can be selected to close the window.
2. Displays the station No.
3. Displays the name.
4. Scrolls up/down the Station Number Selection screen. Display changes by 8 lines.
5. Closes the windows.

#### Remarks

- Selected station No. becomes GOT's target monitor station.

### 5.3.36 Disp progress of One-touch Tuning (W-30011)



#### Outline

Display the progress of one-touch tuning.

#### Description

1. Display the progress of one-touch tuning.
2. Closes the window.

#### Remarks

5.3.37 Alarm occurrence status (W-30021 to 30022)

The screenshot shows a window titled 'Alarm occurrence status' with a table of data. Callout 1 points to the window title bar. Callout 2 points to the vertical scrollbar on the right side of the table. Callout 3 points to the close button (X) in the top right corner of the window.

Item	Current Value	Unit
Cumulative Feedback Pulses	1234567890	pulse
Servo Motor Speed	123456	r/min
Drop Pulses	1234567890	pulse
Cumulative Command Pulses	1234567890	pulse
Command Pulse Frequency	1234567890	kpulse/s
Analog Speed Command Voltage/Analog Speed Limit Voltage	123.00	v
Analog Torque Command Voltage/Analog Torque Limit Voltage	123.00	v
Regenerative Load Ratio	123456	%
Effective Load Ratio	123456	%
Peak Load Ratio	123456	%
Instantaneous Torque	123456	%
Within One-revolution Position	1234567890	pulse
ABS Counter	123456	rev
Load to Motor Inertia Ratio	1234.0	Multiplier
Bus Voltage	123456	v
Load-side encoder cumulative feedback pulses	1234567890	pulse
Load-side encoder droop pulses	1234567890	pulse
Machine edge encoder information 1	1234567890	pulse
Machine edge encoder information 2	123456	rev

Outline

This window displays the status at alarm occurrence.

Description

- 1. This window displays the status at alarm occurrence.
- 2. Switches displayed item.
- 3. Closes the window.

Remarks

5.3.38 Point table absolute command (W-30031 to 30036)



Outline

Display/set point table for absolute value command.

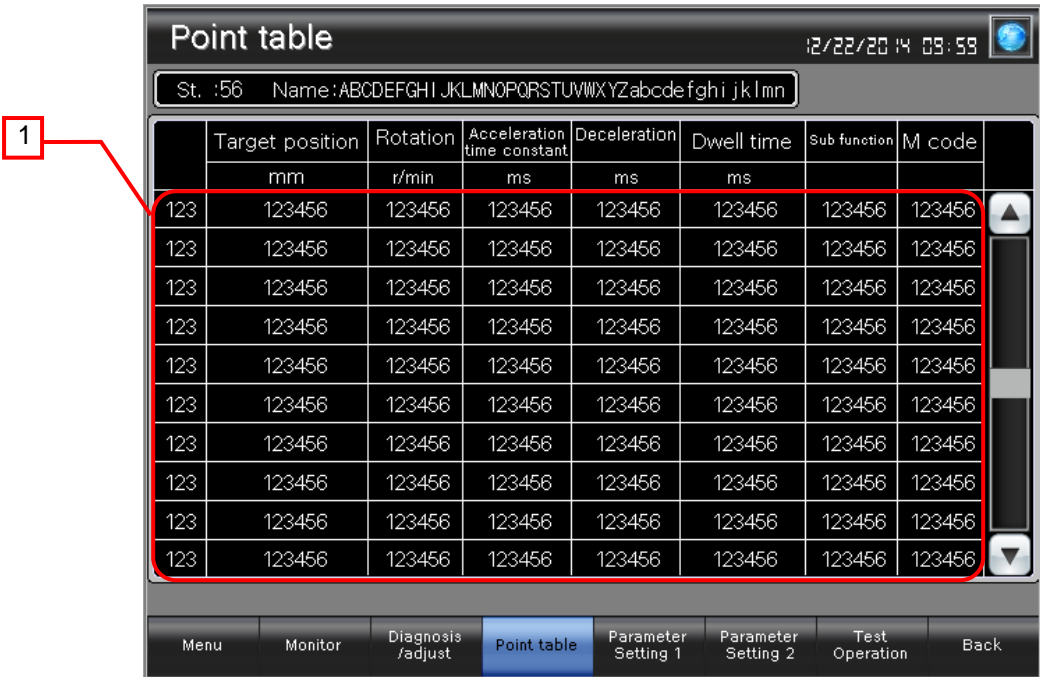
Description

1. Display/set point table for absolute value command.

Remarks

- This is the screen to use for point table (B-30031).

5.3.39 PointTable IncrementalValueCmd (W-30041 to 30046)



Outline

Display/set point table for incremental value command.

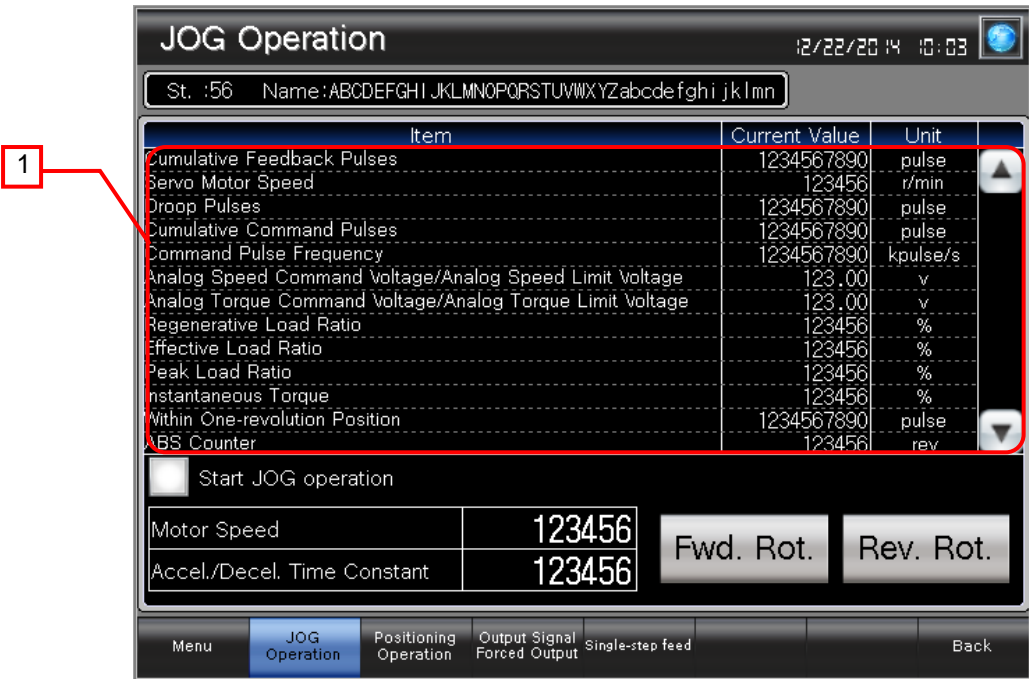
Description

1. Display/set point table for incremental value command.

Remarks

- This is the screen to use for point table (B-30031).

5.3.40 Status Display (W-30101 to 30103)



**Outline**  
Displays the servo amplifier status.

**Description**  
1. Displays the servo amplifier status.

**Remarks**

- This is the screen to use for JOG operation (B-30083), positioning operation (B-30085), and single-step feed (B-30091).



## 5.4 Device List

Some of the devices specified to the on-screen switches and lamps, etc., are also used for common settings of functions such as scripts. Using [Batch Edit] is recommended to change these devices in a batch. For more details about using [Batch Edit], please refer to the "GT Designer3 (GOT2000) Help".

### 5.4.1 Devices of the controller

Type	Device No.	Application
Bit	0-100:SP1	Clear current alarm
	0-100:SP2	Clear alarm history
	0-100:OM0	Normal Mode (Test Operation Mode Clear)
	0-100:OM1	JOG Operation
	0-100:OM2	Positioning Operation
	0-100:OM4	Output Signal (DO) Forced Output
	0-100:OM5	Single-step feed
	0-100:TMB1	Stop Command
	0-100:TMB2	Start Command
	0-100:TMB3	Positioning Direction Selection (Fwd. Rot.)
	0-100:TMB4	Positioning Direction Selection (Rev. Rot.)
	0-100:TMB5	Restart
	0-100:TMB6	Clear
	0-100:OTI0	One-touch tuning (Basic mode)
	0-100:OTI1	One-touch tuning (High mode)
	0-100:OTI2	One-touch tuning (Low mode)
	0-100:OTI4	One-touch tuning (Reset to the initial value)
	0-100:OTI5	One-touch tuning (Reset before adjusting)
Word	0-100:PA1001	Operation Mode
	0-100:PA1002	Regenerative Option
	0-100:PA1003	Absolute Position Detection System
	0-100:PA1004	Function Selection A-1
	0-100:PA1005	Number of Command Input Pulses per Revolution
	0-100:PA1006	Electronic Gear Numerator / Number of Gear Teeth on Machine Side
	0-100:PA1007	Electronic Gear Denominator / Number of Gear Teeth on Servo Motor Side
	0-100:PA1008	Auto Tuning Mode
	0-100:PA1009	Auto Tuning Response
	0-100:PA1010	In-position Range
	0-100:PA1011	Forward Rotation Torque Limit / Positive Direction Thrust Limit
	0-100:PA1012	Reverse Rotation Torque Limit / Negative Direction Thrust Limit
	0-100:PA1013	Command Pulse Input Form
	0-100:PA1014	Rotation Direction Selection / Travel Direction Selection
	0-100:PA1015	Encoder Output Pulses
	0-100:PA1016	Encoder Output Pulses 2
	0-100:PA1017	Servo Motor Series Setting
	0-100:PA1018	Servo Motor Type Setting
	0-100:PA1019	Tough Drive Setting
	0-100:PA1020	Tough Drive Setting
	0-100:PA1021	Function Selection A- 3
	0-100:PA1023	Drive Recorder Arbitrary Alarm Trigger Setting
	0-100:PA1024	Function Selection A-4
	0-100:PA1025	One-touch Tuning: Overshoot Permissible Level
	0-100:PA1026	Function Selection A- 5
	0-100:PB1001	Adaptive Tuning Mode (Adaptive Filter II)
	0-100:PB1002	Vibration Suppression Control Tuning Mode
	0-100:PB1003	Position Command Accel./Decel. Time Constant
	0-100:PB1004	Feed Forward Gain
	0-100:PB1006	Load to Motor Inertia Ratio / Load to Motor Mass Ratio
	0-100:PB1007	Model Control Gain
	0-100:PB1008	Position Control Gain
	0-100:PB1009	Speed Control Gain
	0-100:PB1010	Speed Integral Compensation
	0-100:PB1011	Speed Differential Compensation

Type	Device No.	Application
Word	0-100:PB1012	Overshoot Amount Compensation
	0-100:PB1013	Machine Resonance Suppression Filter 1
	0-100:PB1014	Notch Shape Selection 1
	0-100:PB1015	Machine Resonance Suppression Filter 2
	0-100:PB1016	Notch Shape Selection 2
	0-100:PB1017	Shaft Resonance Suppression Filter
	0-100:PB1018	Low-pass Filter Setting
	0-100:PB1019	Vibration suppression control 1 - Vibration frequency
	0-100:PB1020	Vibration suppression control 1 - Resonance frequency
	0-100:PB1021	Vibration suppression control 1 - Vibration frequency damping
	0-100:PB1022	Vibration suppression control 1 - Resonance frequency damping
	0-100:PB1023	Low-pass filter selection
	0-100:PB1024	Slight vibration suppression control
	0-100:PB1025	Function Selection B-1
	0-100:PB1026	Gain switching function
	0-100:PB1027	Gain switching condition
	0-100:PB1028	Gain switching time constant
	0-100:PB1029	Load to motor inertia ratio/load to motor mass ratio after gain switching
	0-100:PB1030	Position loop gain after gain switching
	0-100:PB1031	Speed loop gain after gain switching
	0-100:PB1032	Speed integral compensation after gain switching
	0-100:PB1033	Vibration suppression control 1 - Vibration frequency after gain switching
	0-100:PB1034	Vibration suppression control 1 - Resonance frequency after gain switching
	0-100:PB1035	Vibration suppression control 1 - Vibration frequency damping after gain switching
	0-100:PB1036	Vibration suppression control 1 - Resonance frequency damping after gain switching
	0-100:PB1045	Command notch filter
	0-100:PB1046	Machine resonance suppression filter 3
	0-100:PB1047	Notch shape selection 3
	0-100:PB1048	Machine resonance suppression filter 4
	0-100:PB1049	Notch shape selection 4
	0-100:PB1050	Machine resonance suppression filter 5
	0-100:PB1051	Notch shape selection 5
	0-100:PB1052	Vibration suppression control 2 - Vibration frequency
	0-100:PB1053	Vibration suppression control 2 - Resonance frequency
	0-100:PB1054	Vibration suppression control 2 - Vibration frequency damping
	0-100:PB1055	Vibration suppression control 2 - Resonance frequency damping
	0-100:PB1056	Vibration suppression control 2 - Vibration frequency after gain switching
	0-100:PB1057	Vibration suppression control 2 - Resonance frequency after gain switching
	0-100:PB1058	Vibration suppression control 2 - Vibration frequency damping after gain switching
	0-100:PB1059	Vibration suppression control 2 - Resonance frequency damping after gain switching
	0-100:PB1060	Model loop gain after gain switching
	0-100:PC1001	JOG operation acceleration time constant / Acceleration time constant 1
	0-100:PC1002	JOG operation deceleration time constant / Deceleration time constant 1
	0-100:PC1003	S-pattern acceleration/deceleration time constant
	0-100:PC1004	Torque command time constant/thrust command time constant
	0-100:PC1005	Auto Operation Speed 1
	0-100:PC1006	Auto Operation Speed 2
	0-100:PC1007	Manual Operation Speed 1
	0-100:PC1008	Internal speed command 4/limit 4
	0-100:PC1009	Internal speed command 5/limit 5
	0-100:PC1010	Internal speed command 6/limit 6
	0-100:PC1011	Internal speed command 7/limit 7
	0-100:PC1012	Analog speed command - Maximum speed / Analog speed limit - Maximum speed

Type	Device No.	Application
Word	0-100:PC1013	Analog torque/thrust command maximum output
	0-100:PC1014	Analog Monitor 1 Output
	0-100:PC1015	Analog Monitor 2 Output
	0-100:PC1016	Electromagnetic brake sequence output
	0-100:PC1017	Zero speed
	0-100:PC1018	Alarm History Clear
	0-100:PC1019	Encoder output pulse selection
	0-100:PC1020	Station No. Setting
	0-100:PC1021	RS-422 Communication Function Selection
	0-100:PC1022	Function Selection C-1
	0-100:PC1023	Function Selection C-2
	0-100:PC1024	Function Selection C-3
	0-100:PC1026	Function Selection C-5
	0-100:PC1027	Function Selection C-6
	0-100:PC1030	Home position return acceleration time constant / Acceleration time constant 2
	0-100:PC1031	Home position return deceleration time constant / Deceleration time constant 2
	0-100:PC1032	Command input pulse multiplication numerator 2
	0-100:PC1033	Command input pulse multiplication numerator 3
	0-100:PC1034	Command input pulse multiplication numerator 4
	0-100:PC1035	Internal torque limit 2/Internal thrust limit 2
	0-100:PC1036	Status Display Selection
	0-100:PC1037	Analog Override Offset
	0-100:PC1038	Analog torque limit offset
	0-100:PC1039	Analog Monitor 1 Offset
	0-100:PC1040	Analog Monitor 2 Offset
	0-100:PC1043	Error excessive alarm detection level
	0-100:PC1044	Function Selection C-9
	0-100:PC1045	Function Selection C-A
	0-100:PC1051	Forced stop deceleration time constant
	0-100:PC1054	Vertical axis freefall prevention compensation amount
	0-100:PC1060	Function Selection C-D
	0-100:PD1001	Input signal automatic on selection 1
	0-100:PD1003	Input Device Selection 1L
	0-100:PD1004	Input Device Selection 1H
	0-100:PD1005	Input Device Selection 2L
	0-100:PD1006	Input Device Selection 2H
	0-100:PD1007	Input Device Selection 3L
	0-100:PD1008	Input Device Selection 3H
	0-100:PD1009	Input Device Selection 4L
	0-100:PD1010	Input Device Selection 4H
	0-100:PD1011	Input Device Selection 5L
	0-100:PD1012	Input Device Selection 5H
	0-100:PD1013	Input Device Selection 6L
	0-100:PD1014	Input Device Selection 6H
	0-100:PD1017	Input Device Selection 8L
	0-100:PD1018	Input Device Selection 8H
	0-100:PD1019	Input Device Selection 9L
	0-100:PD1020	Input Device Selection 9H
	0-100:PD1021	Input Device Selection 10L
	0-100:PD1022	Input Device Selection 10H
	0-100:PD1023	Output Device Selection 1
	0-100:PD1024	Output Device Selection 2
	0-100:PD1025	Output Device Selection 3
	0-100:PD1026	Output Device Selection 4
	0-100:PD1028	Output Device Selection 6
	0-100:PD1029	Input Filter Setting
	0-100:PD1030	Function Selection D-1
	0-100:PD1031	Function Selection D-2

Type	Device No.	Application
Word	0-100:PD1032	Function Selection D-3
	0-100:PD1033	Function Selection D-4
	0-100:PD1034	Function Selection D-5
	0-100:PD1041	Input signal automatic on selection 3
	0-100:PD1042	Input signal automatic on selection 4
	0-100:PD1043	Input Device Selection 11L
	0-100:PD1044	Input Device Selection 11H
	0-100:PD1045	Input Device Selection 12L
	0-100:PD1046	Input Device Selection 12H
	0-100:PD1047	Output Device Selection 7
	0-100:PE1001	Fully Closed Loop Function Selection 1
	0-100:PE1003	Fully Closed Loop Function Selection 2
	0-100:PE1004	Fully Closed Loop control Feedback pulse electronic gear 1 Numerator
	0-100:PE1005	Fully Closed Loop control Feedback pulse electronic gear 1 Denominator
	0-100:PE1006	Fully Closed Loop control Speed deviation error detection
	0-100:PE1007	Fully Closed Loop control Position deviation error detection level
	0-100:PE1008	Fully Closed Loop dual feedback filter
	0-100:PE1010	Fully Closed Loop Function Selection 3
	0-100:PE1034	Fully Closed Loop control Feedback pulse electronic gear 2 Numerator
	0-100:PE1035	Fully Closed Loop control Feedback pulse electronic gear 2 Denominator
	0-100:PE1041	Function Selection E-3
	0-100:PF1009	Function Selection F-5
	0-100:PF1015	Electronic dynamic brake operating time
	0-100:PF1021	Drive recorder switching time setting
	0-100:PF1023	Vibration tough drive - Oscillation detection level
	0-100:PF1024	Vibration tough drive function selection
	0-100:PF1025	SEMI-F47 function - Instantaneous power failure detection time
	0-100:PF1031	Machine diagnosis function - Friction judgement speed
	0-100:PF1034	RS-422 communication function selection 3
	0-100:PL1001	Linear servo motor/DD motor function selection 1
	0-100:PL1002	Linear encoder resolution - Numerator
	0-100:PL1003	Linear encoder resolution - Denominator
	0-100:PL1004	Linear servo motor/DD motor function selection 2
	0-100:PL1005	Position deviation error detection level
	0-100:PL1006	Speed deviation error detection level
	0-100:PL1007	Torque/thrust deviation error detection level
	0-100:PL1008	Linear servo motor/DD motor function selection 3
	0-100:PL1009	Magnetic pole detection voltage level
	0-100:PL1017	Magnetic pole detection - Minute position detection method - Function selection
	0-100:PL1018	Magnetic pole detection - Minute position detection method - Identification signal amplitude
	0-100:PO1012	Function Selection O-3
	0-100:PT1001	Command Mode Selection
	0-100:PT1002	Function Selection T-1
	0-100:PT1003	Feeding Function Selection
	0-100:PT1004	Home Position Return Type
	0-100:PT1005	Home Position Return Speed
	0-100:PT1006	Creep Speed
	0-100:PT1007	Home position shift distance
	0-100:PT1008	Home position return position data
	0-100:PT1009	Travel distance after proximity dog
	0-100:PT1010	Stopper type home position return stopper time
	0-100:PT1011	Stopper type home position return torque limit value
	0-100:PT1012	Rough match output range
	0-100:PT1013	JOG Operation
	0-100:PT1014	Backlash compensation
	0-100:PT1015, 0-100:PT1016	Software Limit+

Type	Device No.	Application
Word	0-100:PT1017, 0-100:PT1018	Software Limit
	0-100:PT1019, 0-100:PT1020	Position range output address +
	0-100:PT1021, 0-100:PT1022	Position range output address -
	0-100:PT1023	OUT1 output setting time
	0-100:PT1024	OUT2 output setting time
	0-100:PT1025	OUT3 output setting time
	0-100:PT1026	Function Selection T-2
	0-100:PT1027	Operation Mode Selection
	0-100:PT1028	Number of stations per rotation
	0-100:PT1029	Function Selection T-3
	0-100:PT1034	Point table/Program default
	0-100:PT1038	Function Selection T-7
	0-100:PT1039	Torque limit delay time
	0-100:PT1040	Station home position shift distance
	0-100:PT1041	Home position return inhibit selection
	0-100:PT1042	Digital override minimum multiplication
	0-100:PT1043	Digital override pitch width
	0-0, 0-1, 0-100: ST0	Cumulative feedback pulses/Servo motor-side cumulative feedback pulses (after gear)
	0-100:ST1	Servo motor speed/linear servo motor speed
	0-100:ST2	Droop Pulses
	0-100:ST3	Cumulative Command Pulses
	0-100:ST4	Command Pulse Frequency
	0-100:ST5	Analog Speed Command Voltage/Analog Speed Limit Voltage
	0-100:ST6	Analog Torque Command Voltage/Analog Torque Limit Voltage
	0-100:ST7	Regenerative Load Ratio
	0-100:ST8	Effective Load Ratio
	0-0, 0-1, 0-100: ST9	Peak Load Ratio
	0-100:ST10	Instantaneous Torque/Instantaneous generation thrust
	0-100:ST11	Within One-revolution Position /Servo motor encoder with one-revolution/Virtual position within one-revolution
	0-100:ST12	ABS Counter/Servo motor encoder ABS counter/Virtual ABS counter
	0-100:ST13	Load to Motor Inertia Ratio
	0-0, 0-1, 0-100: ST14	Bus Voltage
	0-100:ST15	Load-side encoder cumulative feedback pulses
	0-100:ST16	Load-side encoder droop pulses
	0-100:ST17	Machine edge encoder information 1/Z phase counter
	0-100:ST18	Machine edge encoder information 2
	0-100:ST22	Servo motor thermistor temperature
	0-100:ST23	Servo motor edge return pulse accumulation (after gear)
	0-100:ST24	Electric angle
	0-100:ST30	Servo motor edge/machine edge position deviation
	0-100:ST31	Servo motor edge/machine edge speed deviation
	0-100:ST32	Encoder Inside Temperature
	0-100:ST33	Settling Time
	0-100:ST34	Oscillation Detection Frequency
	0-100:ST35	Number of Tough Drive Operations
	0-100:ST40	Unit Power Consumption
	0-100:ST41	Unit Total Power Consumption
	0-100:ST42	Current position
	0-100:ST43	Command position
	0-100:ST44	Specified remaining distance
	0-100:ST45	Point table No./Program No./Station position No.
	0-100:ST46	Step No.
	0-100:ST47	Analog override voltage
	0-100:ST48	Override level
	0-100:ALMO	Current alarm No.

Type	Device No.	Application
Word	0-100:ALM11	Status at Alarm Occurrence (Cumulative Feedback Pulses)
	0-100:ALM12	Status at Alarm Occurrence (Servo Motor Speed)
	0-100:ALM13	Status at Alarm Occurrence (Droop Pulses)
	0-100:ALM14	Status at Alarm Occurrence (Cumulative Command Pulses)
	0-100:ALM15	Status at Alarm Occurrence (Command Pulse Frequency)
	0-100:ALM16	Status at Alarm Occurrence (Analog Speed Command Voltage/Analog Speed Limit Voltage)
	0-100:ALM17	Status at Alarm Occurrence (Analog Torque Command Voltage/Analog Torque Limit Voltage)
	0-100:ALM18	Status at Alarm Occurrence (Regenerative Load Ratio)
	0-100:ALM19	Status at Alarm Occurrence (Effective Load Ratio)
	0-100:ALM20	Status at Alarm Occurrence (Peak Load Ratio)
	0-100:ALM21	Status at Alarm Occurrence (Instantaneous Torque)
	0-100:ALM22	Status at Alarm Occurrence Position within one-revolution
	0-100:ALM23	Status at Alarm Occurrence ABS counter
	0-100:ALM24	Status at Alarm Occurrence Load to motor inertia ratio
	0-100:ALM25	Status at Alarm Occurrence Bus voltage
	0-100:ALM26	Status at Alarm Occurrence Load-side cumulative feedback pulses
	0-100:ALM27	Status at Alarm Occurrence Load-side droop pulses
	0-100:ALM28	Status at Alarm Occurrence Load-side encoder information 1
	0-100:ALM29	Status at Alarm Occurrence Load-side encoder information 2
	0-100:ALM33	Status at Alarm Occurrence Temperature of servo motor thermistor
	0-100:ALM34	Status at Alarm Occurrence Servo motor-side cumulative feedback pulses (before gear)
	0-100:ALM35	Status at Alarm Occurrence Electrical angle
	0-100:ALM41	Status at Alarm Occurrence Servo motor-side/load-side position deviation
	0-100:ALM42	Status at Alarm Occurrence Servo motor-side/load-side speed deviation
	0-100:ALM43	Status at Alarm Occurrence Encoder inside temperature
	0-100:ALM44	Status at Alarm Occurrence Settling time
	0-100:ALM45	Status at Alarm Occurrence Oscillation detection frequency
	0-100:ALM46	Status at Alarm Occurrence Number of tough drive operations
	0-100:ALM51	Status at Alarm Occurrence Unit power consumption
	0-100:ALM52	Status at Alarm Occurrence Unit total power consumption
	0-100:ALM53	Status at Alarm Occurrence Current position
	0-100:ALM54	Status at Alarm Occurrence Command position
	0-100:ALM55	Status at Alarm Occurrence Command remaining distance
	0-100:ALM56	Status at Alarm Occurrence Point table No./Program No./Station position No.
	0-100:ALM57	Status at Alarm Occurrence Step No.
	0-100:ALM58	Status at Alarm Occurrence Analog override voltage
	0-100:ALM59	Status at Alarm Occurrence Override level
	0-100:ALM200	Alarm No. Read from Alarm History (Latest Alarm)
	0-100:ALM201	Alarm No. Read from Alarm History (1st Previous Alarm)
	0-100:ALM202	Alarm No. Read from Alarm History (2nd Previous Alarm)
	0-100:ALM203	Alarm No. Read from Alarm History (3rd Previous Alarm)
	0-100:ALM204	Alarm No. Read from Alarm History (4th Previous Alarm)
	0-100:ALM205	Alarm No. Read from Alarm History (5th Previous Alarm)
	0-100:ALM206	Alarm No. Read from Alarm History (6th Previous Alarm)
	0-100:ALM207	Alarm No. Read from Alarm History (7th Previous Alarm)
	0-100:ALM208	Alarm No. Read from Alarm History (8th Previous Alarm)
	0-100:ALM220	Alarm Occurrence Time Read from Alarm History (Latest Alarm)
	0-100:ALM221	Alarm Occurrence Time Read from Alarm History (1st Previous Alarm)
	0-100:ALM222	Alarm Occurrence Time Read from Alarm History (2nd Previous Alarm)
	0-100:ALM223	Alarm Occurrence Time Read from Alarm History (3rd Previous Alarm)
	0-100:ALM224	Alarm Occurrence Time Read from Alarm History (4th Previous Alarm)
	0-100:ALM225	Alarm Occurrence Time Read from Alarm History (5th Previous Alarm)
	0-100:ALM226	Alarm Occurrence Time Read from Alarm History (6th Previous Alarm)
	0-100:ALM227	Alarm Occurrence Time Read from Alarm History (7th Previous Alarm)
	0-100:ALM228	Alarm Occurrence Time Read from Alarm History (8th Previous Alarm)

Type	Device No.	Application
Word	0-100:POS1001 to 0-100:POS1255	Point table positioning data No.1 to No.255
	0-100:SPD1001 to 0-100:SPD1255	Point table•speed data No.1 to No.255
	0-100:ACT1001 to 0-100:ACT1255	Point table•acceleration time constant No.1 to No.255
	0-100:DCT1001 to 0-100:DCT1255	Point table•deceleration time constant No.1 to No.255
	0-100:DWL1001 to 0-100:DWL1255	Point table•dwell No.1 to No.255
	0-100:AUX1001 to 0-100:AUX1255	Point table•sub functionNo.1 to No.255
	0-100:MCD1001 to 0-100:MCD1255	Point table•M code No.1 to No.255
	0-100:MD3	Machine diagnosis data Read static friction when Fwd. Rot.
	0-100:MD4	Machine diagnosis data Read dynamic friction when Fwd. Rot.
	0-100:MD5	Machine diagnosis data Read static friction when Rev. Rot.
	0-100:MD6	Machine diagnosis data Read dynamic friction when Rev. Rot. and rated speed
	0-100:MD7	Machine diagnosis data Read Vibration frequency when stop, servo lock
	0-100:MD8	Machine diagnosis data Read oscillation level when stop, servo lock
	0-100:MD9	Machine diagnosis data Read Vibration frequency during operation
	0-100:MD10	Machine diagnosis data Read oscillation level during operation
	0-100:MD11	Machine diagnosis data Read rated speed
	0-100:OTS1	One-touch tuning Read status check for one-touch tuning
	0-100:OTS1	One-touch tuning Read error code obtain
	0-100:OTS2	One-touch tuning Setting time
	0-100:OTS3	One-touch tuning Read overshoot amount
	0-100:DI0	Input device status 1
	0-100:DI1	Input device status 2
	0-100:DI2	Input device status 3
	0-100:DI3	External input pin status
	0-100:DO0	Output device status 1
	0-100:DO1	Output device status 2
	0-100:DO2	Output device status 3
	0-100:DO3	Output device status 4
	0-100:DO4	External output pin status
	0-100:ALD0	Servo amplifier life diagnosis cumulative energization time
	0-100:ALD1	Servo amplifier life diagnosis the number of on/off times of the inrush relay
	0-100:TMI0	Input signal for test operation 1
	0-100:TMI2	Input signal for test operation 3
	0-100:TMO0	Forced output of signal pin
	0-100:TMD0	Test operation mode data (motor speed)
	0-100:TMD1	Test operation mode data (acceleration/deceleration time constant)
	0-100:TMD3	Test operation mode data (travel distance)

#### 5.4.2 GOT internal devices

Type	Device No.	Application
Bit	GB40	Script Trigger (Always ON)
	GB60000	Reply mode selection trigger
	GB60010	Test operation start trigger (JOG operation)
	GB60011	Data write completion bit (motor rotation speed)
	GB60012	Data write completion bit (acceleration/deceleration constant)
	GB60013	Forward rotation operation start trigger
	GB60014	Reverse rotation operation start trigger
	GB60015	Test operation start trigger (positioning operation)
	GB60016	Data write completion bit (travel distance)
	GB60017	Test operation start trigger (Output Signal (DO) Forced Output)
	GB60018	Test operation start trigger(single step feed)
	GB60019	Point table decision flag
	GB60020	Check before operation start trigger
	GB60021	Point table decision flag
	GB60022	Operation start trigger
	GB62019	Valid/invalid station setting screen scroll up script trigger
	GB62020	Valid/invalid station setting screen scroll down script trigger
	GB62021 to GB62052	Valid/invalid station setting screen for bit lamp
	GB62053 to GB62060	Valid/invalid station setting screen for bit lamp trigger
	GB62061 to GB62092	For bit lamp displayed in station No. selection screen
	GB62094	Valid/invalid station screen startup flat
	GB62095	Station No. selection screen startup flag
	GB62096	Station No. selection screen scroll up script trigger
	GB62097	Station No. selection screen scroll down script trigger
	GB62098	Process for station No. selection script trigger
	GB62301	Recipe 1 save start flag
	GD60031.b13	GOT error reset signal
	GD61110.b0 to GD61110.b8	Dummy device for (DO) forced output
	GD61140.b0 to GD61140.b4	Gain adjust input permission bit
	GD61200.b0	Recipe 1 write trigger device
	GD61200.b1	Recipe 1 read trigger device
	GD61210.b0	Recipe common external notification information Write in process notification signal
	GD61210.b1	Recipe common external notification information Write in process notification signal
	GS512.b0	Time Change signal
Word	GD10	Station No. setting
	GD60000	Base screen switching
	GD60001	Overlap window 1 screen switching
	GD60004	Overlap window 2 screen switching
	GD60016	Super impose window 1 screen switching
	GD60021	Language switching
	GD60022	System language switching
	GD60031, GD60041	System information
	GD60080 to GD60082	Document Display
	GD60100 to GD60739	Station names of 0 to 31 station
	GD60800	Station name offset value
	GD61000 to GD61024	For displaying input device
	GD61025 to GD61044	For displaying output device
	GD61050	Logging ID
	GD61051 to GD61053	Historical trend graph Graph information
	GD61060 to GD61063	Historical trend graph Cursor Position Time
	GD61064 to GD61067	Historical trend graph Beginning Position Time
	GD61068 to GD61071	Historical trend graph End Position Time
Word	GD61068 to GD61071	Historical trend graph End Position Time



Type	Device No.	Application
	GD61075 to GD61077	Historical trend graph Display Position Time Specification
	GD61080	Motor type calculation value storage device
	GD61100	Transfer motor speed
	GD61102	Transfer acce/deceleration const
	GD61104	Travel distance
	GD61110	Device for forced output
	GD61111	Forced output status comparison device
	GD61120	Point table No.
	GD61130	Reply mode selection
	GD61140	Gain Adjust Mode Selection
	GD61150	Obtain unit
	GD61155	Point table data offset
	GD61210 to GD61212	Recipe common external notification information
	GD62622	Valid/invalid bit lamp offset
	GD62623	Name offset
	GD62765	Station No. switching switch
	GD63990 to GD63995	Clock Digital switch
	GS513 to GS516	Changed time
	GS531, GS532	Station block information
	GS650 to GS652	Current time
	TMP800 to TMP844	For script operation: Obtain input/output device value
	TMP850	For script operation: Command mode
	TMP851	For script operation: Unit
	TMP852	For script operation: STM
	TMP900 to TMP903	For script operation: Station No. selection, For valid/invalid
	TMP950 to TMP996	For script operation: Clock setting

## 5.5 Comment List

Comment Group No.	Comment No.	Where comments are used
499	No.1 to 250, 2184, 10000 to 10001	B-30026
500	No.1	B-30001 to 30500
	No.2	B-30011 to 30500
	No.3	B-30001, B-30011, B-30021, B-30031, B-30041, B-30061, B-30081
	No.4 to 8	B-30001
	No.9 to 13	B-30011
	No.14 to 19	B-30021
	No.20	B-30021, B-30500
	No.21 to 26	B-30041
	No.27 to 31	B-30061
	No.32 to 36	B-30081
	No.37, 38	B-30011, B-30021, B-30031, B-30041, B-30061, B-30081
	No.39	B-30011, B-30021, B-30031, B-30041, B-30061 to 30071, B-30081
	No.40	B-30011, B-30021, B-30031, B-30041 to 30057, B-30061, B-30081
	No.41	B-30011, B-30021, B-30031, B-30041, B-30061, B-30081
	No.42 to 45	B-30012 to 30016
	No.46 to 51	B-30022 to 30026, B-30500
	No.52 to 56	B-30042 to 30057
	No.57 to 60	B-30063 to 30071
	No.61 to 64	B-30083 to 30091
	No.101, 102	B-30001 to 30091
	No.103	B-30001
	No.151 to 186	B-30012

Comment Group No.	Comment No.	Where comments are used
500	No.201 to 223	B-30013
	No.251 to 274	B-30014
	No.301 to 303	B-30015
	No.351 to 353	B-30016
	No.401 to 417	B-30023
	No.451 to 466	B-30024
	No.501 to 512	B-30025
	No.551 to 563	B-30026
	No.601 to 612	B-30031
	No.651 to 674	B-30042
	No.701 to 715	B-30043
	No.751 to 775	B-30045
	No.801 to 825	B-30046
	No.851 to 874	B-30047
	No.901 to 926	B-30049
	No.951 to 975	B-30050
	No.1001 to 1020	B-30051
	No.1051 to 1074	B-30053
	No.1101 to 1124	B-30054
	No.1151 to 1160	B-30055
	No.1201 to 1218	B-30057
	No.1251 to 1267	B-30063
	No.1301 to 1322	B-30065
	No.1351 to 1358	B-30067
	No.1401 to 1425	B-30069
	No.1451 to 1475	B-30070
	No.1501 to 1509	B-30071
	No.1551 to 1559	B-30083
	No.1601 to 1613	B-30085
	No.1651, 1652	B-30089
	No.1701 to 1708	B-30091
	No.1751 to 1772	B-30022
	No.1801, 1802	W-30001
	No.1826	W-30002
	No.1851 to 1859	W-30003
	No.1876 to 1880	W-30008
	No.1901 to 1904	W-30009
	No.1926 to 1928	W-30021
	No.1926 to 1949	W-30021, 30101
	No.1950 to 1957	W-30021, 30102
	No.1958 to 1959	W-30021, 30101
	No.1960	W-30021, 30102
	No.1976 to 1978	W-30022
	No.1979 to 1985	W-30022, 30102
	No.1986 to 1997	W-30022, 30102
	No.2001 to 2002	W-30011

## 5.6 Recipe List

### 5.6.1 Common Setting

External notification information	
External notification device	GD61210
Recipe No. notification device	GD61211
Record No. notification device	GD61212

### 5.6.2 Individual Setting

#### Recipe No.30001Recipe1

Item		Setting
Recipe file	Recipe file	Use a recipe file (read and write)
	File format	G2P (Binary)
	Drive name	A: Standard SD Card
	Folder name	Package1¥recipe
	File name	ARP30001G2P
Trigger device	Write trigger 1	GD61200.b0
	Read trigger 1	GD61200.b1
	Record No. device	Not used
Block number		33
Record number		1
Block 1	Device	GS531
	Device type	[Signed BIN16]
	Point	2
Block 2	Device	GD60100
	Device type	String
	Point	20
Block 3	Device	GD60120
	Device type	String
	Point	20
Block 4	Device	GD60140
	Device type	String
	Point	20
Block 5	Device	GD60160
	Device type	String
	Point	20
Block 6	Device	GD60180
	Device type	String
	Point	20
Block 7	Device	GD60200
	Device type	String
	Point	20
Block 8	Device	GD60220
	Device type	String
	Point	20
Block 9	Device	GD60240
	Device type	String
	Point	20
Block 10	Device	GD60260
	Device type	String

Item		Setting
Block 11	Point	20
	Device	GD60280
	Device type	String
Block 12	Point	20
	Device	GD60300
	Device type	String
Block 13	Point	20
	Device	GD60320
	Device type	String
Block 14	Point	20
	Device	GD60340
	Device type	String
Block 15	Point	20
	Device	GD60360
	Device type	String
Block 16	Point	20
	Device	GD60380
	Device type	String
Block 17	Point	20
	Device	GD60400
	Device type	String
Block 18	Point	20
	Device	GD60420
	Device type	String
Block 19	Point	20
	Device	GD60440
	Device type	String
Block 20	Point	20
	Device	GD60460
	Device type	String
Block 21	Point	20
	Device	GD60480
	Device type	String
Block 22	Point	20
	Device	GD60500
	Device type	String
Block 23	Point	20
	Device	GD60520
	Device type	String
Block 24	Point	20
	Device	GD60540
	Device type	String
Block 25	Point	20
	Device	GD60560
	Device type	String
Block 26	Device	GD60580
	Device type	String

Item		Setting
	Point	20
Block 27	Device	GD60600
	Device type	String
	Point	20
Block 28	Device	GD60620
	Device type	String
	Point	20
Block 29	Device	GD60640
	Device type	String
	Point	20
Block 30	Device	GD60660
	Device type	String
	Point	20
Block 31	Device	GD60680
	Device type	String
	Point	20
Block 32	Device	GD60700
	Device type	String
	Point	20
Block 33	Device	GD60720
	Device type	String
	Point	20

## 5.7 Script List

Item	Settings
Project script	Specified
Screen script	B-30001, B-30014, B-30016, B-30022, B-30023, B-30031, B-30083 to 30091 B-30500
Object script	B-30500, W-30003

### 5.7.1 Project script

Script No.	30001	Script name	Script30001
Comment	Initial setting		
Data Type	Signed BIN16	Trigger type	Rise GB40
[w:GD60080]=201; //Set Document ID to 201 [w:GD60081]=1; //Set Document page No. to 1  [w:GD10] = 0; //Station No. initial value [w:GD60800] = 0; //Initial station name offset value set([b:GD61200.b0]); //Write recipe  [w:GD61050] = 30001; //Initial value of logging ID [w:GD61120] = 1; //Point table initial value for 1 step sending [w:GD61130] = 2; //One-touch tuning initial selection (basic mode)			
Script No.	30010	Script name	Script30010
Comment	Clear super impose window.		
Data Type	Signed BIN16	Trigger type	Ordinary
//Super impose windows are NOT cleared while displaying specified screen. //Super impose windows in other screens are cleared.  switch([w:GD60000]){ case 30031:			

<pre> break;  case 30083:     break;  case 30085:     break;  case 30091:     break;  default :     [w:GD60016] = 0;     break; } </pre>			
Script No.	30020	Script name	Script30020
Comment	Turn OFF the RecipeWriteTrigger.		
Data Type	Signed BIN16	Trigger type	ON GD61200.b0
<pre> if ([b:GD61210.b0] == ON ) { //While writing the record.     rst([b:GD61200.b0]); //Reset trigger device for recipe write. } </pre>			
Script No.	30025	Script name	Script30025
Comment	When StaNo.SelectScreen Opened		
Data Type	Signed BIN16	Trigger type	Rise GB62095
<pre> //Reflect each setting when Station No. window is opened  [w:GD62622] = 0; //Bit lamp offset [w:GD62623] = 0; //Name offset  //Turn ON internal devices (GB61021 to GB61052) according to validated station number. [u32:TMP0900] = [u32:GS531] ; [w:TMP0902] = 0; while([w:TMP0902] &lt; 32) {     if([u32:TMP0900] &amp; 0x00000001) == 1)     {         set([b:GB62021[w:TMP0902]]);     }      [u32:TMP0900] = [u32:TMP0900] &gt;&gt; 1;     [w:TMP0902] = [w:TMP0902] + 1; }  //Turn ON bit lamp in the station number selection window [w:TMP0903] = [w:GD10]; set([b:GB62061[w:TMP0903]]);  //Turn OFF trigger with validated between station number. 0 to 7 //OFF=Available ON=Not available [w:TMP0900] = 0; while([w:TMP0900] &lt; 8) {     if([b:GB62021[w:TMP900]] == OFF)     {         rst([b:GB62053[w:TMP0900]]); //Trigger OFF     }else{         set([b:GB62053[w:TMP0900]]); //Trigger ON     }      [w:TMP0900] = [w:TMP0900] + 1; }  rst([b:GB62095]); </pre>			

Script No.	30026	Script name	Script30026
Comment	Process while StationNo.selected		
Data Type	Signed BIN16	Trigger type	ON GB62098
<pre>//Switch Statin No. //Configure necessary settings when switching station No.  [w:TMP0900] = [w:GD62765] + [w:GD62622]; //Calculate the selected station number [w:TMP0901] = 0;  //Turn bit ON according to the selected station number while([w:TMP0901] &lt; 32) {     if([w:TMP0901] + 1 == [w:TMP0900])     {         set([b:GB62061[w:TMP0901]]);     }else{         rst([b:GB62061[w:TMP0901]]);     }     [w:TMP0901] = [w:TMP0901] + 1; }  //Processing before closing the screen. //Process according to the selected station number [w:TMP0901] = 0;  while([w:TMP0901] &lt; 32) {     if([b:GB62061[w:TMP0901]] == ON)     {         [w:TMP0900] = [w:TMP0901] + 1;         break;     }     [w:TMP0901] = [w:TMP0901] + 1; }  switch([w:TMP0900]) {     case 1:    [w:GD10] = 0;        //Station number 0                [w:GD60800] = 0;                [w:GD61050] = 30001; //Logging ID displayed in the graph screen while monitoring the station No.0                break;      case 2:    [w:GD10] = 1;        //Station number 1                [w:GD60800] = 20;                [w:GD61050] = 30002; //Logging ID displayed in the graph screen while monitoring the station No.1                break;      case 3:    [w:GD10] = 2;        ///Station number 2                [w:GD60800] = 40;                [w:GD61050] = 30003; //Logging ID displayed in the graph screen while monitoring the station No.2                break;      case 4:    [w:GD10] = 3;        ///Station number 3                [w:GD60800] = 60;                [w:GD61050] = 30004; //Logging ID displayed in the graph screen while monitoring the station No.3                break;      case 5:    [w:GD10] = 4;        ///Station number 4</pre>			

No.4	[w:GD60800] = 80; [w:GD61050] = 30005; //Logging ID displayed in the graph screen while monitoring the station break;
No.5	case 6: [w:GD10] = 5; //Station number 5 [w:GD60800] = 100; [w:GD61050] = 30006; //Logging ID displayed in the graph screen while monitoring the station break;
No.6	case 7: [w:GD10] = 6; //Station number 6 [w:GD60800] = 120; [w:GD61050] = 30007; //Logging ID displayed in the graph screen while monitoring the station break;
No.7	case 8: [w:GD10] = 7; //Station number 7 [w:GD60800] = 140; [w:GD61050] = 30008; //Logging ID displayed in the graph screen while monitoring the station break;
No.8	case 9: [w:GD10] = 8; //Station number 8 [w:GD60800] = 160; [w:GD61050] = 30009; //Logging ID displayed in the graph screen while monitoring the station break;
No.9	case 10: [w:GD10] = 9; //Station number 9 [w:GD60800] = 180; [w:GD61050] = 30010; //Logging ID displayed in the graph screen while monitoring the station break;
No.10	case 11: [w:GD10] = 10; //Station number 10 [w:GD60800] = 200; [w:GD61050] = 30011; //Logging ID displayed in the graph screen while monitoring the station break;
No.11	case 12: [w:GD10] = 11; //Station number 11 [w:GD60800] = 220; [w:GD61050] = 30012; //Logging ID displayed in the graph screen while monitoring the station break;
No.12	case 13: [w:GD10] = 12; //Station number 12 [w:GD60800] = 240; [w:GD61050] = 30013; //Logging ID displayed in the graph screen while monitoring the station break;
No.13	case 14: [w:GD10] = 13; //Station number 13 [w:GD60800] = 260; [w:GD61050] = 30014; //Logging ID displayed in the graph screen while monitoring the station break;
No.14	case 15: [w:GD10] = 14; //Station number 14 [w:GD60800] = 280; [w:GD61050] = 30015; //Logging ID displayed in the graph screen while monitoring the station break;



No.15	case 16: [w:GD10] = 15;        ///Station number 15 [w:GD60800] = 300; [w:GD61050] = 30016; //Logging ID displayed in the graph screen while monitoring the station break;
No.16	case 17: [w:GD10] = 16;        ///Station number 16 [w:GD60800] = 320; [w:GD61050] = 30017; //Logging ID displayed in the graph screen while monitoring the station break;
No.17	case 18: [w:GD10] = 17;        ///Station number 17 [w:GD60800] = 340; [w:GD61050] = 30018; //Logging ID displayed in the graph screen while monitoring the station break;
No.18	case 19: [w:GD10] = 18;        ///Station number 18 [w:GD60800] = 360; [w:GD61050] = 30019; //Logging ID displayed in the graph screen while monitoring the station break;
No.19	case 20: [w:GD10] = 19;        ///Station number 19 [w:GD60800] = 380; [w:GD61050] = 30020; //Logging ID displayed in the graph screen while monitoring the station break;
No.20	case 21: [w:GD10] = 20;        ///Station number 20 [w:GD60800] = 400; [w:GD61050] = 30021; //Logging ID displayed in the graph screen while monitoring the station break;
No.21	case 22: [w:GD10] = 21;        ///Station number 21 [w:GD60800] = 420; [w:GD61050] = 30022; //Logging ID displayed in the graph screen while monitoring the station break;
No.22	case 23: [w:GD10] = 22;        ///Station number 22 [w:GD60800] = 440; [w:GD61050] = 30023; //Logging ID displayed in the graph screen while monitoring the station break;
No.23	case 24: [w:GD10] = 23;        ///Station number 23 [w:GD60800] = 460; [w:GD61050] = 30024; //Logging ID displayed in the graph screen while monitoring the station break;
No.24	case 25: [w:GD10] = 24;        ///Station number 24 [w:GD60800] = 480; [w:GD61050] = 30025; //Logging ID displayed in the graph screen while monitoring the station break;
	case 26: [w:GD10] = 25;        ///Station number 25 [w:GD60800] = 500; [w:GD61050] = 30026; //Logging ID displayed in the graph screen while monitoring the station

```

No.25      break;

      case 27:  [w:GD10] = 26;      ///Station number 26
                [w:GD60800] = 520;
                [w:GD61050] = 30027; //Logging ID displayed in the graph screen while monitoring the station
No.26      break;

      case 28:  [w:GD10] = 27;      ///Station number 27
                [w:GD60800] = 540;
                [w:GD61050] = 30028; //Logging ID displayed in the graph screen while monitoring the station
No.27      break;

      case 29:  [w:GD10] = 28;      ///Station number 28
                [w:GD60800] = 560;
                [w:GD61050] = 30029; //Logging ID displayed in the graph screen while monitoring the station
No.28      break;

      case 30:  [w:GD10] = 29;      ///Station number 29
                [w:GD60800] = 580;
                [w:GD61050] = 30030; //Logging ID displayed in the graph screen while monitoring the station
No.29      break;

      case 31:  [w:GD10] = 30;      ///Station number 30
                [w:GD60800] = 600;
                [w:GD61050] = 30031; //Logging ID displayed in the graph screen while monitoring the station
No.30      break;

      case 32:  [w:GD10] = 31;      ///Station number 31
                [w:GD60800] = 620;
                [w:GD61050] = 30032; //Logging ID displayed in the graph screen while monitoring the station
No.31      break;

      default:  break;
}

rst([b:GB62098]);

```

Script No.	30027	Script name	Script30027
Comment	Station No. Selection Scroll up		
Data Type	Signed BIN16	Trigger type	Rise GB62096

```

//Scroll up

//Set the bit lamp offset
//Makes scrolling loop
if([w:GD62622] >= 8)
{
  [w:GD62622] = [w:GD62622] - 8;
}else{
  [w:GD62622] = 24;
}

//Set the name offset
[w:GD62623] = [w:GD62622] * 20;

//Turn OFF trigger with displayed and validated station number
//OFF=Available ON=Not available
[w:TMP0900] = [w:GD62622];

```

```

[w:TMP0901] = 0;
while([w:TMP0901] < 8)
{
    if([b:GB62021[w:TMP900]] == OFF)
    {
        rst([b:GB62053[w:TMP0901]]); //Trigger OFF
    }else{
        set([b:GB62053[w:TMP0901]]); //Trigger ON
    }

    [w:TMP0900] = [w:TMP0900] + 1;
    [w:TMP0901] = [w:TMP0901] + 1;
}

```

Script No.	30028	Script name	Script30028
Comment	Station No. Selection ScrollDown		
Data Type	Signed BIN16	Trigger type	Rise GB62097

//Scroll down

```

//Set the bit lamp offset
//Makes scrolling loop
if([w:GD62622] >= 8)
{
    [w:GD62622] = [w:GD62622] - 8;
}else{
    [w:GD62622] = 24;
}

//Set the name offset
[w:GD62623] = [w:GD62622] * 20;

//Turn OFF trigger with displayed and validated station number.
//OFF=Available ON=Not available
[w:TMP0900] = [w:GD62622];
[w:TMP0901] = 0;
while([w:TMP0901] < 8)
{
    if([b:GB62021[w:TMP900]] == OFF)
    {
        rst([b:GB62053[w:TMP0901]]); //Trigger OFF
    }else{
        set([b:GB62053[w:TMP0901]]); //Trigger ON
    }

    [w:TMP0900] = [w:TMP0900] + 1;
    [w:TMP0901] = [w:TMP0901] + 1;
}

```

Script No.	30100	Script name	Script30100
Comment	Graph display processing		
Data Type	Signed BIN16	Trigger type	Ordinary

```

//Change the necessary values for the graph processing according to the mode.
[w:TMP910] = ([0-100:w:PA1001] >> 4) && 0x000F;
switch([w:TMP910]){
    case 0: //Normal control mode
        [w:GD61080] = 36;
        break;

    case 1: //Full closed control mode
        [w:GD61080] = 36;
        break;

    case 4: //Linear servo motor control mode

```

```

[w:GD61080] = 18;
break;

case 6: //DD motor control mode
[w:GD61080] = 3;
break;

}

```

## 5.7.2 Screen Script

### Base Screen 30001

Script No.	30021	Script name	Script30021
Comment	WhenValid/InvalidStationScrnOpen		
Data Type	Signed BIN16	Trigger type	Rise GB62094
<pre> //Reflect settings when the window is opened.  [w:GD62622] = 0; //Set the bit lamp offset [w:GD62623] = 0; //Name offset  //Turn OFF trigger with validated between station number 0 to 7. //OFF=Available ON=Not available [w:TMP0900] = 0; while([w:TMP0900] &lt; 8) {     if([b:GB62021[w:TMP900]] == OFF)     {         rst([b:GB62053[w:TMP0900]]); //Trigger OFF     }else{         set([b:GB62053[w:TMP0900]]); //Trigger ON     }      [w:TMP0900] = [w:TMP0900] + 1; } </pre>			
Script No.	30003	Script name	Script30003
Comment	Processing before recipe saved		
Data Type	Signed BIN16	Trigger type	Rise GB62301
<pre> //Turn ON internal devices (GB61021 to GB61052) according to validated station number. [u32:TMP0900] = [u32:GS531] ; [w:TMP0902] = 0; while([w:TMP0902] &lt; 32) {     if(([u32:TMP0900] &amp; 0x00000001) == 1)     {         set([b:GB62021[w:TMP0902]]);     }      [u32:TMP0900] = [u32:TMP0900] &gt;&gt; 1;     [w:TMP0902] = [w:TMP0902] + 1; }  //Turn ON bit lamp in the station number selection window. [w:TMP0903] = [w:GD10]; set([b:GB62061[w:TMP0903]]);  rst([b:GB62301]); //Reset the flag to start to save recipe. </pre>			

Script No.	30022	Script name	Script30022
Comment	Recipe saved		
Data Type	Signed BIN16	Trigger type	ON GB62094
<pre>//Store the results that were set in valid/invalid station setting window in recipe.  if([w:GD60004] == 0 ) { //In case script switching device of overlap2 is 0 (While window2 is closed).     [w:TMP0900] = 0;     [u32:TMP0901] = [u32:GS531]; //Store the latest current station block.      //Reflect the results of ON/OFF status in word device.     while([w:TMP0900] &lt; 32)     {         if([b:GB62021[w:TMP0900]] == ON)         {             [u32:TMP0903] = 0x00000001 &lt;&lt; [w:TMP0900] ;             [u32:TMP0901] = [u32:TMP0901]   [u32:TMP0903];         }else{             [u32:TMP0903] = 0x00000001 &lt;&lt; [w:TMP0900] ;             [u32:TMP0901] = [u32:TMP0901] &amp; ( to [u32:TMP0903]);         }         [w:TMP0900] = [w:TMP0900] + 1;     }      [u32:GS531] = [u32:TMP0901]; //Set GS531 to the reflected results.      set([b:GD61200.b1]); //Read recipe      rst([b:GB62094]); //Reset start flag for valid/invalid station screen. }</pre>			
Script No.	30019	Script name	Script30019
Comment	Processing before recipe saved.		
Data Type	Signed BIN16	Trigger type	Rise GD61210.b1
<pre>//Turn read trigger OFF after confirmation of during writing recipe.  rst([b:GD61200.b1]);</pre>			
Script No.	30023	Script name	Script30023
Comment	Scroll up		
Data Type	Signed BIN16	Trigger type	Rise GB62019
<pre>//Scroll up  //Set the bit lamp offset //Makes scrolling loop if([w:GD62622] &gt;= 8) {     [w:GD62622] = [w:GD62622] - 8; }else{     [w:GD62622] = 24; }  //Set the name offset [w:GD62623] = [w:GD62622] * 20;  //Turn OFF trigger with displayed and validated station number. //OFF=Available ON=Not available [w:TMP0900] = [w:GD62622]; [w:TMP0901] = 0; while([w:TMP0901] &lt; 8) {     if([b:GB62021[w:TMP900]] == OFF)     {</pre>			

<pre> rst([b:GB62053[w:TMP0901]]); //Trigger OFF }else{ set([b:GB62053[w:TMP0901]]); //Trigger ON }  [w:TMP0900] = [w:TMP0900] + 1; [w:TMP0901] = [w:TMP0901] + 1; } </pre>			
Script No.	30024	Script name	Script30024
Comment	Scroll down		
Data Type	Signed BIN16	Trigger type	Rise GB62020
<pre> //Scroll down  //Set the bit lamp offset //Makes scrolling loop if([w:GD62622] &lt; 24) { [w:GD62622] = [w:GD62622] + 8; }else{ [w:GD62622] = 0; }  //Set the name offset [w:GD62623] = [w:GD62622] * 20;  //Turn OFF trigger with displayed and validated station number. //OFF=Available ON=Not available [w:TMP0900] = [w:GD62622]; [w:TMP0901] = 0; while([w:TMP0901] &lt; 8) { if([b:GB62021[w:TMP900]] == OFF) { rst([b:GB62053[w:TMP0901]]); //Trigger OFF }else{ set([b:GB62053[w:TMP0901]]); //Trigger ON }  [w:TMP0900] = [w:TMP0900] + 1; [w:TMP0901] = [w:TMP0901] + 1; } </pre>			

#### Base Screen 30014

Script No.	30101	Script name	Script30101
Comment	Obtain Present Time		
Data Type	Signed BIN16	Trigger type	Rise GB40
<pre> //Store Year, Month, Day, Hour, Minute, Second When Screen Is Displayed [w:GD61075]=[w:GS650]; [w:GD61076]=[w:GS651]; [w:GD61077]=[w:GS652]; </pre>			

#### Base Screen 30016

Script No.	30105	Script name	Script30105
Comment	In/output DeviceMonitorProcess		
Data Type	Unsigned BIN16	Trigger type	Ordinary
<pre> //Input device  //EM2/EM1 [u32:TMP800] = [0-100:u32:DIO] &amp; 0x00040000; //Calculate bit18 of DIO with logical conjunction and store it in TMP [w:GD61000] = [u32:TMP800] &gt;&gt; 18; //Shift TMP right by 18 and store it in GD61000 </pre>			

```

//STAB
[u32:TMP801] = [0-100:u32:DI0] & 0x00100000; //Calculate bit20 of DI0 with logical conjunction and store it in
TMP
[w:GD61001] = [u32:TMP801] >> 20; //Shift TMP right by 20 and store it in GD61001

//TSTP
[u32:TMP802] = [0-100:u32:DI0] & 0x01000000; //Calculate bit24 of DI0 with logical conjunction and store it in
TMP
[w:GD61002] = [u32:TMP802] >> 24; //Shift TMP right by 24 and store it in GD61002

//CDP
[u32:TMP803] = [0-100:u32:DI0] & 0x08000000; //Calculate bit27 of DI0 with logical conjunction and store it in
TMP
[w:GD61003] = [u32:TMP803] >> 27; //Shift TMP right by 27 and store it in GD61003

//CLD
[u32:TMP804] = [0-100:u32:DI0] & 0x10000000; //Calculate bit28 of DI0 with logical conjunction and store it in
TMP
[w:GD61004] = [u32:TMP802] >> 28; //Shift TMP right by 28 and store it in GD61004

//MECR
[u32:TMP805] = [0-100:u32:DI0] & 0x20000000; //Calculate bit29 of DI0 with logical conjunction and store it in
TMP
[w:GD61005] = [u32:TMP802] >> 29; //Shift TMP right by 29 and store it in GD61005

//MSD
[u32:TMP806] = [0-100:u32:DI1] & 0x00010000; //Calculate bit16 of DI1 with logical conjunction and store it in
TMP
[w:GD61006] = [u32:TMP806] >> 16; //Shift TMP right by 16 and store it in GD61006

//PI1
[u32:TMP807] = [0-100:u32:DI1] & 0x00020000; //Calculate bit17 of DI1 with logical conjunction and store it in
TMP
[w:GD61007] = [u32:TMP807] >> 17; //Shift TMP right by 17 and store it in GD61007

//PI2
[u32:TMP808] = [0-100:u32:DI1] & 0x00040000; //Calculate bit18 of DI1 with logical conjunction and store it in
TMP
[w:GD61008] = [u32:TMP808] >> 18; //Shift TMP right by 18 and store it in GD61008

//PI3
[u32:TMP809] = [0-100:u32:DI1] & 0x00080000; //Calculate bit19 of DI1 with logical conjunction and store it in
TMP
[w:GD61009] = [u32:TMP809] >> 19; //Shift TMP right by 19 and store it in GD61009

//LPS
[u32:TMP810] = [0-100:u32:DI2] & 0x00010000; //Calculate bit16 of DI2 with logical conjunction and store it in
TMP
[w:GD61010] = [u32:TMP810] >> 16; //Shift TMP right by 16 and store it in GD61010

//RT
[u32:TMP811] = [0-100:u32:DI2] & 0x00020000; //Calculate bit17 of DI2 with logical conjunction and store it in
TMP
[w:GD61011] = [u32:TMP811] >> 17; //Shift TMP right by 17 and store it in GD61011

//RTCDP
[u32:TMP812] = [0-100:u32:DI2] & 0x00040000; //Calculate bit18 of DI2 with logical conjunction and store it in
TMP
[w:GD61012] = [u32:TMP812] >> 18; //Shift TMP right by 18 and store it in GD61012

//OV0
[u32:TMP813] = [0-100:u32:DI2] & 0x00100000; //Calculate bit20 of DI2 with logical conjunction and store it in
TMP

```

```

[w:GD61013] = [u32:TMP813] >> 20;           //Shift TMP right by 20 and store it in GD61013

//OV1
[u32:TMP814] = [0-100:u32:DI2] & 0x00200000; //Calculate bit21 of DI2 with logical conjunction and store it in
TMP
[w:GD61014] = [u32:TMP814] >> 21;           //Shift TMP right by 21 and store it in GD61014

//OV2
[u32:TMP815] = [0-100:u32:DI2] & 0x00400000; //Calculate bit22 of DI2 with logical conjunction and store it in
TMP
[w:GD61015] = [u32:TMP815] >> 22;           //Shift TMP right by 22 and store it in GD61015

//OV3
[u32:TMP816] = [0-100:u32:DI2] & 0x00800000; //Calculate bit23 of DI2 with logical conjunction and store it in
TMP
[w:GD61016] = [u32:TMP816] >> 23;           //Shift TMP right by 23 and store it in GD61016

//DI0
[u32:TMP817] = [0-100:u32:DI2] & 0x01000000; //Calculate bit24 of DI2 with logical conjunction and store it in
TMP
[w:GD61017] = [u32:TMP817] >> 24;           //Shift TMP right by 24 and store it in GD61017

//DI1
[u32:TMP818] = [0-100:u32:DI2] & 0x02000000; //Calculate bit25 of DI2 with logical conjunction and store it in
TMP
[w:GD61018] = [u32:TMP818] >> 25;           //Shift TMP right by 25 and store it in GD61018

//DI2
[u32:TMP819] = [0-100:u32:DI2] & 0x04000000; //Calculate bit26 of DI2 with logical conjunction and store it in
TMP
[w:GD61019] = [u32:TMP819] >> 26;           //Shift TMP right by 26 and store it in GD61019

//DI3
[u32:TMP820] = [0-100:u32:DI2] & 0x08000000; //Calculate bit27 of DI2 with logical conjunction and store it in
TMP
[w:GD61020] = [u32:TMP820] >> 27;           //Shift TMP right by 27 and store it in GD61020

//DI4
[u32:TMP821] = [0-100:u32:DI2] & 0x10000000; //Calculate bit28 of DI2 with logical conjunction and store it in
TMP
[w:GD61021] = [u32:TMP821] >> 28;           //Shift TMP right by 28 and store it in GD61021

//DI5
[u32:TMP822] = [0-100:u32:DI2] & 0x20000000; //Calculate bit29 of DI2 with logical conjunction and store it in
TMP
[w:GD61022] = [u32:TMP822] >> 29;           //Shift TMP right by 29 and store it in GD61022

//DI6
[u32:TMP823] = [0-100:u32:DI2] & 0x40000000; //Calculate bit30 of DI2 with logical conjunction and store it in
TMP
[w:GD61023] = [u32:TMP823] >> 30;           //Shift TMP right by 30 and store it in GD61023

//DI7
[u32:TMP824] = [0-100:u32:DI2] & 0x40000000; //Calculate bit31 of DI2 with logical conjunction and store it in
TMP
[w:GD61024] = [u32:TMP824] >> 31;           //Shift TMP right by 31 and store it in GD61024


//Output device

//CDPS
[u32:TMP825] = [0-100:u32:DO0] & 0x02000000; //Calculate bit25 of DO0 with logical conjunction and store it in
TMP

```



```

[w:GD61025] = [u32:TMP825] >> 25; //Shift TMP right by 25 and store it in GD61025

//CLDS
[u32:TMP826] = [0-100:u32:DO0] & 0x04000000; //Calculate bit26 of DO0 with logical conjunction and store it in
TMP
[w:GD61026] = [u32:TMP826] >> 26; //Shift TMP right by 26 and store it in GD61026

//ABSV
[u32:TMP827] = [0-100:u32:DO0] & 0x08000000; //Calculate bit27 of DO0 with logical conjunction and store it in
TMP
[w:GD61027] = [u32:TMP827] >> 27; //Shift TMP right by 27 and store it in GD61027

//MTTR
[u32:TMP828] = [0-100:u32:DO0] & 0x80000000; //Calculate bit31 of DO0 with logical conjunction and store it in
TMP
[w:GD61028] = [u32:TMP828] >> 31; //Shift TMP right by 31 and store it in GD61028

//MSDH
[u32:TMP829] = [0-100:u32:DO1] & 0x00080000; //Calculate bit19 of DO1 with logical conjunction and store it in
TMP
[w:GD61029] = [u32:TMP829] >> 19; //Shift TMP right by 19 and store it in GD61029

//MSDL
[u32:TMP830] = [0-100:u32:DO1] & 0x00100000; //Calculate bit20 of DO1 with logical conjunction and store it in
TMP
[w:GD61030] = [u32:TMP830] >> 20; //Shift TMP right by 20 and store it in GD61030

//SOUT
[u32:TMP831] = [0-100:u32:DO1] & 0x00200000; //Calculate bit21 of DO1 with logical conjunction and store it in
TMP
[w:GD61031] = [u32:TMP831] >> 21; //Shift TMP right by 21 and store it in GD61031

//OUT1
[u32:TMP832] = [0-100:u32:DO1] & 0x00400000; //Calculate bit22 of DO1 with logical conjunction and store it in
TMP
[w:GD61032] = [u32:TMP832] >> 22; //Shift TMP right by 22 and store it in GD61032

//OUT2
[u32:TMP833] = [0-100:u32:DO1] & 0x00800000; //Calculate bit23 of DO1 with logical conjunction and store it in
TMP
[w:GD61033] = [u32:TMP833] >> 23; //Shift TMP right by 23 and store it in GD61033

//OUT3
[u32:TMP834] = [0-100:u32:DO1] & 0x01000000; //Calculate bit24 of DO1 with logical conjunction and store it in
TMP
[w:GD61034] = [u32:TMP834] >> 24; //Shift TMP right by 24 and store it in GD61034

//ALMWNG
[u32:TMP835] = [0-100:u32:DO2] & 0x00020000; //Calculate bit17 of DO2 with logical conjunction and store it in
TMP
[w:GD61035] = [u32:TMP835] >> 17; //Shift TMP right by 17 and store it in GD61035

//BW9F
[u32:TMP836] = [0-100:u32:DO2] & 0x00040000; //Calculate bit18 of DO2 with logical conjunction and store it in
TMP
[w:GD61036] = [u32:TMP836] >> 18; //Shift TMP right by 18 and store it in GD61036

//PT0/PS0
[u32:TMP837] = [0-100:u32:DO2] & 0x01000000; //Calculate bit24 of DO2 with logical conjunction and store it in
TMP
[w:GD61037] = [u32:TMP837] >> 24; //Shift TMP right by 24 and store it in GD61037

//PT1/PS1
[u32:TMP838] = [0-100:u32:DO2] & 0x02000000; //Calculate bit25 of DO2 with logical conjunction and store it in

```

```

TMP
[w:GD61038] = [u32:TMP838] >> 25; //Shift TMP right by 25 and store it in GD61038

//PT2/PS2
[u32:TMP839] = [0-100:u32:DO2] & 0x04000000; //Calculate bit26 of DO2 with logical conjunction and store it in TMP
[w:GD61039] = [u32:TMP839] >> 26; //Shift TMP right by 26 and store it in GD61039

//PT3/PS3
[u32:TMP840] = [0-100:u32:DO2] & 0x08000000; //Calculate bit27 of DO2 with logical conjunction and store it in TMP
[w:GD61040] = [u32:TMP840] >> 27; //Shift TMP right by 27 and store it in GD61040

//PT4/PS4
[u32:TMP841] = [0-100:u32:DO2] & 0x10000000; //Calculate bit28 of DO2 with logical conjunction and store it in TMP
[w:GD61041] = [u32:TMP841] >> 28; //Shift TMP right by 28 and store it in GD61041

//PT5/PS5
[u32:TMP842] = [0-100:u32:DO2] & 0x20000000; //Calculate bit29 of DO2 with logical conjunction and store it in TMP
[w:GD61042] = [u32:TMP842] >> 29; //Shift TMP right by 29 and store it in GD61042

//PT6/PS6
[u32:TMP843] = [0-100:u32:DO2] & 0x40000000; //Calculate bit30 of DO2 with logical conjunction and store it in TMP
[w:GD61043] = [u32:TMP843] >> 30; //Shift TMP right by 30 and store it in GD61043

//PT7/PS7
[u32:TMP844] = [0-100:u32:DO2] & 0x80000000; //Calculate bit31 of DO2 with logical conjunction and store it in TMP
[w:GD61044] = [u32:TMP844] >> 31; //Shift TMP right by 31 and store it in GD61044

```

#### Base Screen 30022

Script No.	30110	Script name	Script30110
Comment	Gain adjustment selection mode.		
Data Type	unsigned BIN16	Trigger type	Ordinary
//Change the trigger in accordance with selected gain adjustment mode. switch([0-100:w:PA1008]){ case 0x0000: //2 gain adjustment mode 1 [w:GD61140] = 1; break; case 0x0001: //Auto tuning mode 1 [w:GD61140] = 2; break; case 0x0002: //Auto tuning mode 2 [w:GD61140] = 4; break; case 0x0003: //Manual mode [w:GD61140] = 8; break; case 0x0004: //2 gain adjustment mode 2 [w:GD61140] = 16; break; }			

**Base Screen 30023**

Script No.	30115	Script name	Script30115
Comment	Reply mode selection		
Data Type	Signed BIN16	Trigger type	Rise GB60000
<pre> rst([b:GB60000]);  //Start tuning in accordance with selected reply mode. switch([w:GD61130]){   case 1:     set([0-100:b:OT11]); //High mode     break;   case 2:     set([0-100:b:OT10]); //Basic mode     break;   case 3:     set([0-100:b:OT12]); //Low mode     break; } </pre>			

**Base Screen 30031**

Script No.	30120	Script name	Script30120
Comment	Switch target position display.		
Data Type	Unsigned BIN16	Trigger type	Ordinary
<pre> [w:TMP850] = [0-100:w:PT1001] &amp; 0x000F ; //Store the set value of command mode in TMP. [w:TMP851] = ([0-100:w:PT1001] &gt;&gt; 8) &amp; 0x000F; //Store the set value of the unit in TMP. [w:TMP852] = [0-100:w:PT1003] &amp; 0x000F; //Store the set value of STM in TMP. [w:GD61150] = [w:TMP851]; //Store the unit in GD61150.  if([w:TMP850] == 0){ //During absolute value command order    if([w:TMP851] == 0){ //Unit: [mm]     switch([w:TMP852]){ //Decision       case 0: //Decimal point in the third digit         if([w:GD60016] != 30034){           [w:GD60016] = 30034;         }         break;       case 1: //Decimal point in the second digit         if([w:GD60016] != 30033){           [w:GD60016] = 30033;         }         break;       case 2: //Decimal point in the first digit         if([w:GD60016] != 30032){           [w:GD60016] = 30032;         }         break;       case 3: //Decimal point in the zeroth digit         if([w:GD60016] != 30031){           [w:GD60016] = 30031;         }         break;     }   }   if([w:TMP851] == 1){ //Unit: [inch]     switch([w:TMP852]){ //Decision       case 0: //Decimal point in the fourth digit         if([w:GD60016] != 30035){           [w:GD60016] = 30035;         }         break;       case 1: //Decimal point in the third digit </pre>			

```

        if([w:GD60016] != 30034){
            [w:GD60016] = 30034;
        }
        break;
    case 2: //Decimal point in the second digit
        if([w:GD60016] != 30033){
            [w:GD60016] = 30033;
        }
        break;
    case 3: //Decimal point in the first digit
        if([w:GD60016] != 30032){
            [w:GD60016] = 30032;
        }
        break;
    }
}
if([w:TMP851] == 2){ //Unit: [degree]
    if([w:GD60016] != 30036){
        [w:GD60016] = 30036;
    }
}
if([w:TMP851] == 3){ //Unit: [pulse]
    if([w:GD60016] != 30031){
        [w:GD60016] = 30031;
    }
}
}

if([w:TMP850] == 1){ //During incremental value command mode

    if([w:TMP851] == 0){ //Unit: [mm]
        switch([w:TMP852]){ //Decision
            case 0: //Decimal point in the third digit
                if([w:GD60016] != 30044){
                    [w:GD60016] = 30044;
                }
                break;
            case 1: //Decimal point in the second digit
                if([w:GD60016] != 30043){
                    [w:GD60016] = 30043;
                }
                break;
            case 2: //Decimal point in the first digit
                if([w:GD60016] != 30042){
                    [w:GD60016] = 30042;
                }
                break;
            case 3: //Decimal point in the zeroth digit
                if([w:GD60016] != 30041){
                    [w:GD60016] = 30041;
                }
                break;
        }
    }
}
if([w:TMP851] == 1){ //Unit: [inch]
    switch([w:TMP852]){ //Decision
        case 0: //Decimal point in the fourth digit
            if([w:GD60016] != 30045){
                [w:GD60016] = 30045;
            }
            break;
        case 1: //Decimal point in the third digit
            if([w:GD60016] != 30044){
                [w:GD60016] = 30044;
            }
        }
    }
}

```

```

    }
    break;
case 2: //Decimal point in the second digit
    if([w:GD60016] != 30043){
        [w:GD60016] = 30043;
    }
    break;
case 3: //Decimal point in the first digit
    if([w:GD60016] != 30042){
        [w:GD60016] = 30042;
    }
    break;
}
}
if([w:TMP851] == 2){ //Unit: [degree]
    if([w:GD60016] != 30046){
        [w:GD60016] = 30046;
    }
}
if([w:TMP851] == 3){ //Unit: [pulse]
    if([w:GD60016] != 30041){
        [w:GD60016] = 30041;
    }
}
}
}

```

### Base Screen 30083

Script No.	30125	Script name	Script30125
Comment	Start/end JOG operation		
Data Type	Signed BIN16	Trigger type	Rise/Fall GB60010
<pre> //Start operation if([b:GB60010] == ON){     set([0-100:b:OM1]); //Switch to JOG operation mode.     set([b:GB60011]); //Turn ON the trigger to transfer motor speed.     set([b:GB60012]); //Turn ON the trigger to transfer acceleration/deceleration constant. }else{     set([0-100:b:OM0]); //End test operation mode. } </pre>			
Script No.	30126	Script name	Script30126
Comment	Transfer motor speed		
Data Type	Unsigned BIN32	Trigger type	Rise GB60011
<pre> [0-100:u32:TMD0] = [w:GD61100]; //Substitute GD61100 Value in TMD0 Device rst([b:GB60011]); //Switch Trigger OFF </pre>			
Script No.	30127	Script name	Script30127
Comment	Transfer acce/deceleration const		
Data Type	Unsigned BIN32	Trigger type	Rise GB60012
<pre> [0-100:u32:TMD1] = [w:GD61102]; //Substitute GD61102 Value in TMD1 Device rst([b:GB60012]); //Switch Trigger OFF </pre>			
Script No.	30128	Script name	Script30128
Comment	Forward rotation operation		
Data Type	Signed BIN16	Trigger type	Rise/Fall GB60013
<pre> if([b:GB60013] == ON){ //When Trigger Signal Rises     [0-100:u32:TMI0] = 0x00000801; //Input 2049(0x0801) to TMI0 Device }else{ //When Trigger Signal Falls     [0-100:u32:TMI0] = 0x00000001; //Input 1(0x0001) to TMI0 Device } </pre>			
Script No.	30129	Script name	Script30129
Comment	Reverse rotation operation		
Data Type	[Signed BIN16]	Trigger type	Rise/Fall GB60014

```

if([b:GB60014] == ON){          //When Trigger Signal Rises
    [0-100:u32:TMI0] = 4097;    //Input 4097(0x1001) to TMI0 Device
}else{                          //When Trigger Signal Falls
    [0-100:u32:TMI0] = 1;      //Input 1(0x0001) to TMI0 Device
}

```

#### Base Screen 30085

Script No.	30130	Script name	Script30130
Comment	Start/endPositioningOperation		
Data Type	Signed BIN16	Trigger type	Rise/Fall GB60015
<pre> //Start operation if([b:GB60015] == ON){     set([0-100:b:OM2]); //Switch to positioning operation mode     set([b:GB60011]); //Turn ON the trigger to transfer motor speed     set([b:GB60012]); //Turn ON the trigger to transfer acceleration/deceleration constant     set([b:GB60016]); //Turn travel distance transfer trigger ON. }else{     set([0-100:b:OM0]); //End test operation mode } </pre>			
Script No.	30126	Script name	Script30126
Comment	Transfer motor speed		
Data Type	Unsigned BIN32	Trigger type	Rise GB60011
<pre> [0-100:u32:TMD0] = [w:GD61100]; //Substitute GD61100 Value in TMD0 Device rst([b:GB60011]); //Switch Trigger OFF </pre>			
Script No.	30127	Script name	Script30127
Comment	Transfer acce/deceleration const		
Data Type	Unsigned BIN32	Trigger type	Rise GB60012
<pre> [0-100:u32:TMD1] = [w:GD61102]; //Substitute GD61102 Value in TMD1 Device rst([b:GB60012]); //Switch Trigger OFF </pre>			
Script No.	30131	Script name	Script30131
Comment	Travel distance transfer		
Data Type	Unsigned BIN32	Trigger type	Rise GB60016
<pre> [0-100:u32:TMD3] = [w:GD61104]; //Substitute GD61104 Value in TMD3 Device [b:GB60016] = OFF; //Switch Trigger OFF </pre>			

#### Base Screen 30089

Script No.	30135	Script name	Script30135
Comment	Start/end (DO) forced output		
Data Type	Signed BIN16	Trigger type	Rise/Fall GB60017
<pre> //Start operation if([b:GB60017] == ON){     [w:GD61110] = 0; //Clear dummy device     [w:GD61111] = 0; //Clear dummy device     set([0-100:b:OM4]); //Switch to output signal (DO) forced output mode. }else{     [w:GD61110] = 0; //Clear dummy device     [w:GD61111] = 0; //Clear dummy device     set([0-100:b:OM0]); //End test operation mode } </pre>			
Script No.	30136	Script name	Script30136
Comment	Transfer motor speed		
Data Type	Unsigned BIN16	Trigger type	ON GB60017
<pre> if([w:GD61111] != [w:GD61110]){ //In case signal changes     [0-100:u32:TMO0] = [w:GD61110]; //Store the value in TMO0     [w:GD61111] = [w:GD61110]; //Store the value for comparison } </pre>			

**Base Screen 30091**

Script No.	30140	Script name	Script30140
Comment	Start/end 1 step sending		
Data Type	Signed BIN16	Trigger type	Rise/Fall GB60018
<pre>//Start operation if([b:GB60018] == ON){     set([0-100:b:OM5]); //Switch to 1 step sending mode     set([b:GB60019]); //Turn ON the point table decision trigger }else{     set([0-100:b:OM0]); //End test operation mode     rst([b:GB60019]); //Switch Trigger OFF     rst([b:GB60020]); //Switch Trigger OFF     rst([b:GB60021]); //Switch Trigger OFF     rst([b:GB60022]); //Switch Trigger OFF }</pre>			
Script No.	30141	Script name	Script30141
Comment	Point table decision		
Data Type	Unsigned BIN32	Trigger type	Rise GB60019
<pre>rst([b:GB60019]);  [0-100:u32:TMI0] = 0x00000001; //Store 1 (0x0001) in TMI0 device. [0-100:u32:TMI2] = ([w:GD61120] &lt;&lt; 24) + 1; //Set the point table No. in the 24th bit and after in TMI2 device.  set([b:GB60021]); //Point table decision flag</pre>			
Script No.	30142	Script name	Script30142
Comment	Check before starting operation		
Data Type	Signed BIN16	Trigger type	Rise GB60020
<pre>rst([b:GB60020]);  //If point table decision flag is ON. if([b:GB60021]){     set([b:GB60022]); //Switch Trigger ON }else{     [0-100:u32:TMI0] = 0x00000001; //Store 1 (0x0001) in TMI0 device.     [0-100:u32:TMI2] = ([w:GD61120] &lt;&lt; 24) + 1; //Set the point table No. in the 24th bit and after in TMI2 device.     set([b:GB60022]); //Switch Trigger ON }</pre>			
Script No.	30143	Script name	Script30143
Comment	Start operation		
Data Type	Signed BIN16	Trigger type	Rise GB60022
<pre>rst([b:GB60021]); rst([b:GB60022]);  [0-100:u32:TMI0] = 0x00000801; //Input 2049(0x0801) to TMI0 Device</pre>			

**Window Screen 30002**

Script No.	30002	Script name	Script30002
Comment	Lang. Switching for Man. Display		
Data Type	Signed BIN16	Trigger type	When closing a screen
<pre>if(([w:GD60000] &gt;= 30500) &amp;&amp; ([w:GD60000] &lt;=30502)){ //Base Screen Switching Device Value 30500 to 30502     if([w:GD60021] == 1){ //In Case of Language 1         [w:GD60000] = 30500; //Manual Display - Move to Language 1 Screen     }     if([w:GD60021] == 2){ //In Case of Language 2         [w:GD60000] = 30501; //Manual Display - Move to Language 2 Screen     }     if([w:GD60021] == 3){ //In Case of Language 3         [w:GD60000] = 30502; //Manual Display - Move to Language 3 Screen     } }</pre>			

### Base Screen 30500

Script No.	30002	Script name	Script30002
Comment	DocumentDisplayProcessOfLastPage		
Data Type	Signed BIN16	Trigger type	Ordinary
<pre>//Check the total number of document pages is not 0. if([w:GD60082]!=0){   //Compare the current page number to the total number of document pages to see if the current page number   exceeds the total number.   if([w:GD60081]&gt;[w:GD60082]){     //Set the last page to display.     [w:GD60081]=[w:GD60082];   } }</pre>			

### 5.7.3 Object Script

#### Base screen 30500

Object	Switch	Object ID *1	20045
Script user ID	1		
Data type	Signed BIN16	Trigger type	Device Writing
<pre>//Do not exceed the total number of the document pages. if([u16:GD60081] &gt;= [u16:GD60082]){   [u16:GD60081] = [u16:GD60082] - 1; }</pre>			

#### Window Screen 30003

Object	Numerical Display (Year)	Object ID *1	10014
Script user ID	1		
Data type	Unsigned BIN16	Trigger type	Rise, GB40
<pre>//Obtain Today's Year &amp; Month from Clock Data [w:TMP950] = [w:GS650] &amp; 0xF000; //Obtain Tenths Digit of "Last 2-Digits of Year" from Clock Data for Setting [w:TMP960] = [w:TMP950] &gt;&gt; 12; //Decimal Alignment [w:TMP968] = [w:TMP960] * 10; //BCD-&gt;BIN [w:TMP951] = [w:GS650] &amp; 0x0F00; //Obtain Ones Digit of "Last 2-Digits of Year" from Clock Data for Setting [w:TMP961] = [w:TMP951] &gt;&gt; 8; //BCD-&gt;BIN [w:TMP973] = 2000 + [w:TMP968] + [w:TMP961]; //Set Year to TMP973 as BIN [w:GD63990] = [w:TMP973]; //Set Year  [w:TMP952] = [w:GS650] &amp; 0x00F0; //Obtain Tenths Digit of Month from Clock Data for Setting [w:TMP962] = [w:TMP952] &gt;&gt; 4; //Decimal Alignment [w:TMP969] = [w:TMP962] * 10; //BCD-&gt;BIN [w:TMP953] = [w:GS650] &amp; 0x000F; //Obtain Ones Digit of Month from Clock Data for Setting [w:TMP974] = [w:TMP969] + [w:TMP953]; //Set Month to TMP974 as BIN [w:GD63991] = [w:TMP974]; //Set Month  [w:TMP954] = [w:GS651] &amp; 0xF000; //Obtain Tenths Digit of "Last 2-Digits of Day" from Clock Data for Setting [w:TMP963] = [w:TMP954] &gt;&gt; 12; //Decimal Alignment [w:TMP970] = [w:TMP963] * 10; //BCD-&gt;BIN [w:TMP955] = [w:GS651] &amp; 0x0F00; //Obtain Ones Digit of "Last 2-Digits of Day" from Clock Data for Setting [w:TMP964] = [w:TMP955] &gt;&gt; 8; //BCD-&gt;BIN [w:TMP975] = [w:TMP970] + [w:TMP964]; //Set Day to TMP975 as BIN [w:GD63992] = [w:TMP975]; //Set Day  [w:TMP956] = [w:GS651] &amp; 0x00F0; //Obtain Tenths Digit of Hour from Clock Data for Setting [w:TMP965] = [w:TMP956] &gt;&gt; 4; //Decimal Alignment [w:TMP971] = [w:TMP965] * 10; //BCD-&gt;BIN [w:TMP957] = [w:GS651] &amp; 0x000F; //Obtain Ones Digit of Hour from Clock Data for Setting [w:TMP976] = [w:TMP971] + [w:TMP957]; //Set Hour to TMP976 as BIN [w:GD63993] = [w:TMP976]; //Set Hour  [w:TMP958] = [w:GS652] &amp; 0xF000; //Obtain Tenths Digit of "Last 2-Digits of Minute" from Clock Data for Setting [w:TMP966] = [w:TMP958] &gt;&gt; 12; //Decimal Alignment</pre>			



[w:TMP972] = [w:TMP966] * 10; //BCD->BIN [w:TMP959] = [w:GS652] & 0x0F00; //Obtain Ones Digit of "Last 2-Digits of Minute" from Clock Data for Setting [w:TMP967] = [w:TMP959] >> 8; //BCD->BIN [w:TMP977] = [w:TMP972] + [w:TMP967]; //Set Minute to TMP977 as BIN [w:GD63994] = [w:TMP977]; //Set Minute  [w:TMP993] = [w:GS652] & 0x00F0; //Obtain Tenths Digit of Second from Clock Data for Setting [w:TMP995] = [w:TMP993] >> 4; //Decimal Alignment [w:TMP996] = [w:TMP995] * 10; //BCD->BIN [w:TMP994] = [w:GS652] & 0x000F; //Obtain Ones Digit of Second from Clock Data for Setting [w:TMP978] = [w:TMP996] + [w:TMP994]; //Set Second to TMP978 as BIN [w:GD63995] = [w:TMP978]; //Set Second			
Object	Numerical Display (Month)	Object ID *1	10015
Script user ID	2		
Data type	Unsigned BIN16	Trigger type	Ordinary
//BIN -> BCD Conversion  [w:TMP979] = [w:GD63990] - 2000; //Last 2-Digits of Year  [w:TMP980] = (([w:TMP979] / 10) << 4) + ([w:TMP979] % 10); //Year BIN -> BCD [w:TMP981] = (([w:GD63991] / 10) << 4) + ([w:GD63991] % 10); //Month BIN -> BCD [w:TMP982] = (([w:GD63992] / 10) << 4) + ([w:GD63992] % 10); //Day BIN -> BCD [w:TMP983] = (([w:GD63993] / 10) << 4) + ([w:GD63993] % 10); //Hour BIN -> BCD [w:TMP984] = (([w:GD63994] / 10) << 4) + ([w:GD63994] % 10); //Minute BIN -> BCD [w:TMP985] = (([w:GD63995] / 10) << 4) + ([w:GD63995] % 10); //Second BIN -> BCD			
Object	Numerical Display (Day)	Object ID *1	10016
Script user ID	3		
Data type	Unsigned BIN16	Trigger type	Ordinary
//Year & Month Setting  [w:GS513] = ([w:TMP980] << 8) + [w:TMP981]; //Set Year & Month to Change Time Device			
Object	Numerical Display (Hour)	Object ID *1	10017
Script user ID	4		
Data type	Unsigned BIN16	Trigger type	Ordinary
//Date & Time Setting  [w:GS514] = ([w:TMP982] << 8) + [w:TMP983]; //Set Date & Time to Change Time Device			
Object	Numerical Display (Minute)	Object ID *1	10018
Script user ID	5		
Data type	Unsigned BIN16	Trigger type	Ordinary
//Minute & Second Setting  [w:GS515] = ([w:TMP984] << 8) + [w:TMP985]; //Set Minute & Second to Change Time Device			
Object	Numerical Display (Second)	Object ID *1	10019
Script user ID	6		
Data type	Unsigned BIN16	Trigger type	Ordinary
//Day of Week Setting  [w:TMP986] = [w:GD63990]; //Year (BIN) [w:TMP987] = [w:GD63991]; //Month (BIN) [w:TMP988] = [w:GD63992]; //Day (BIN)  if((([w:TMP987] == 1)    ([w:TMP987] == 2)){ //Correction Processing to Calculate January and February as 13th/14th Month [w:TMP986] = [w:TMP986] - 1; //Subtract 1 from Year [w:TMP987] = [w:TMP987] + 12; //Add 12 to Month }			

```
[w:TMP989] = [w:TMP986]/4; //Create Items Required for Zeller's Congruence
[w:TMP990] = [w:TMP986]/100; //Create Items Required for Zeller's Congruence
[w:TMP991] = [w:TMP986]/400; //Create Items Required for Zeller's Congruence
[w:TMP992] = (13*[w:TMP987]+8)/5; //Create Items Required for Zeller's Congruence

//Calculate Day of Week Using Zeller's Congruence and Set the Day to Change Time Device
[w:GS516] = ([w:TMP986]+[w:TMP989]-[w:TMP990]+[w:TMP991]+[w:TMP992]+[w:TMP988])%7;
```

\*1 The Object ID might be changed when a screen is utilized.

## 6. MANUAL DISPLAY

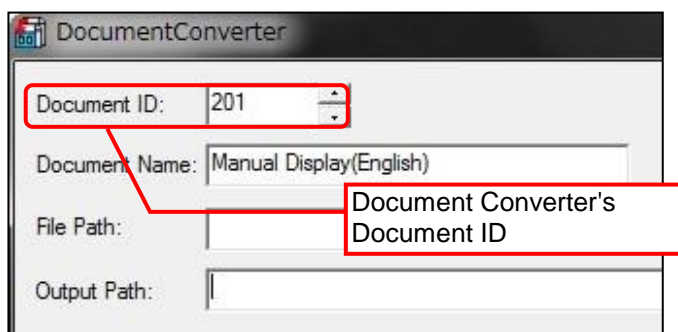
Manuals can be displayed using the document display function. For more details about the document display function, please refer to the "GT Designer3 (GOT2000) Help". Please note that the document display function does not support language switching. Therefore, in the sample screens, the language of document is switched by switching the document (Document ID) specified for a display language.

### 6.1 Preparing Document Data for Manual Display

Example: Displaying a English manual (document) for Manual Display on the base screen B-30500

- (1) Convert the manual (Word or Excel, etc.) to be displayed into the document data (JPEG file) that can be used with the document display function by using Document Converter. Set the Document Converter's [Document ID] to 201.

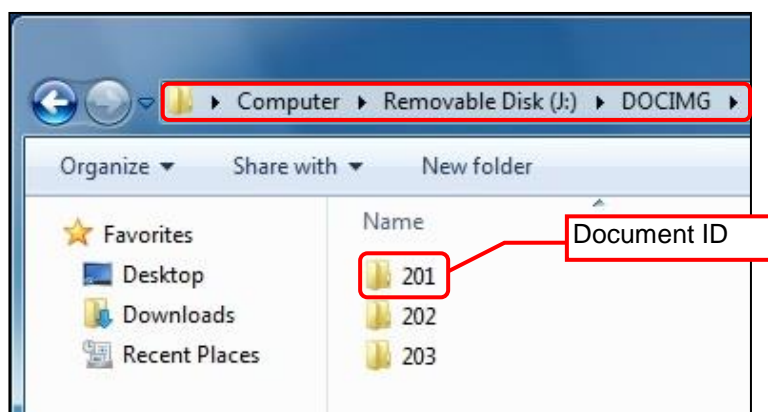
\*For details of the relation between Document ID and Display language, please refer to the table below.



Column No. of the comment group No	Language	Document ID
1	English	201
2	Japanese	202
3	Chinese (Simplified)	203

\*Please use Document Converter 2.09k or later. The total number pages and pages switches cannot work properly with 2.08 or older versions.

- (2) The document data is generated in the 201 folder in the DOCIMG. Save the entire DOCIMG folder into the SD card root directory without changing the folder configuration inside the DOCIMG folder.



SD card folder configuration

Note: In case the total number of pages is 100 or more.

This sample is made with the assumption that the total number of pages is up to 99 pages. If it exceeds 99 pages, please modify the format of numerical input (the number of "#") that displays the total number of pages and the page number of the currently displayed page.

## 7. Other

If the number of connected units is changed, the logging setting must be changed according to the number of controllers. By specifying logging ID according to the station No. with the script, corresponding logging data can be displayed in historical trend graph when switching station No.

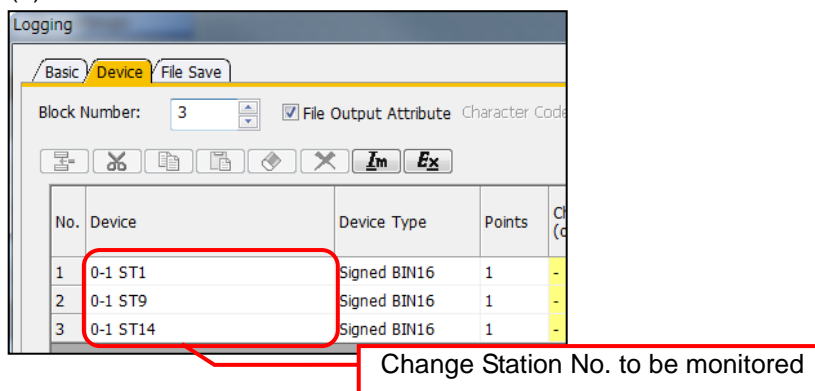
### 7.1 Changing T Logging Setting

Ex: Using 3 controllers.

(1) Set up logging setting as many as the number of controllers. Copy setting of logging 2.



(2) Set the station No. of controllers in device tab.



### 7.2 Editing Script

Script No.30026 specifies logging ID for station No. 0 to 31.

If necessary, change logging ID of controller station No. set up in 7.1 (2) to match logging ID set up in 7.1 (1).

