

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

Sample Screen Manual

Mitsubishi Electric Corporation

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CONTENTS

REVISIONS	5
1. OUTLINE.....	6
2. SYSTEM CONFIGURATION	6
3. GOT.....	6
3.1 System Applications That Are Automatically Selected	6
3.2 Controller Setting of Screen Design Software	6
3.3 Overlap Window Setting of Screen Design Software	6
4. Servo Amplifier	7
4.1 Servo Amplifier Communication Setting	7
4.2 Servo Amplifier Parameter Setting	7
4.3 Supported model for the sample	7
5. SCREEN SPECIFICATIONS	8
5.1 Display Language	8
5.2 Screen List/Transition	8
5.3 Explanation of Screens.....	15
5.3.1 Menu (B-30001).....	15
5.3.2 Monitor Menu (B-30101).....	16
5.3.3 Operation Monitor (B-30011)	17
5.3.4 Graph Monitor (B-30041)	18
5.3.5 Input/output monitor (B-30021).....	20
5.3.7 Tuning (B-30103)	22
5.3.8 One-touch tuning (B-30104)	23
5.3.9 Machine diagnosis (B-30105)	24
5.3.10 Amplifier life diagnosis (B-30106)	25
5.3.11 Alarm (B-30031).....	26
5.3.12 Manual Display (B-30500)	27
5.3.13 Parameter Setting 1 Menu (B-30051).....	29
5.3.14 Basic Setting Parameters(ROM) (B-30053 to 30054)	30
5.3.15 Gain/Filter Parameters(ROM) (B-30056 to 30058).....	31
5.3.16 Ext. Setting 1 Parameters(ROM) (B-30060 to 30062)	32
5.3.17 I/O Setting Parameters(ROM) (B-30064 to 30065)	33
5.3.18 Basic Setting Parameters(RAM) (B-30071 to 30072).....	34
5.3.19 Gain/Filter Parameters(RAM) (B-30074 to 30076)	35
5.3.20 Ext.Setting1 Parameters(RAM) (B-30078 to 30080)	36
5.3.21 I/O Setting Parameters(RAM) (B-30082 to 30083).....	37
5.3.22 Parameter Setting 2 Menu (B-30110)	38
5.3.23 Ext.Setting2 Parameters(ROM) (B-30067)	39
5.3.24 Ext.Setting3 Parameters(ROM) (B-30069)	40
5.3.25 LinearServo/DDMotorSetParam(ROM) (B-30112)	41
5.3.26 Ext.Setting2 Parameters(RAM) (B-30085)	42
5.3.27 Ext.Setting3 Parameters(RAM) (B-30087)	43
5.3.28 LinearServo/DDMotorSetParam(RAM) (B-30114).....	44
5.3.29 Test Operation Menu (B-30091)	45
5.3.30 JOG Operation (B-30093).....	46
5.3.31 Positioning Operation (B-30095)	47
5.3.32 Output Signal (DO) Forced Output (B-30099)	48
5.3.33 Alarm Reset (W-30001)	49
5.3.34 Language Setting (W-30002).....	50
5.3.35 Clock Setting (W-30003).....	51
5.3.36 Status Disp. at Alarm Occurrence (W-30011)	52
5.3.37 Disp progress of One-touch Tuning (W-30013)	53
5.4 Device List	54
5.5 Comment List	60
5.6 Script List.....	63

6. MANUAL DISPLAY 72

6.1 Preparing Document Data for Manual Display 72

REVISIONS

Sample Screen Manual

Date	Control No.*	Description
2013/8	BCN-P5999-0114	First edition
2015/1	BCN-P5999-0114-2	Add the following screen. (Gain adjustment, One-touch tuning, Machine diagnosis, Amplifier life diagnosis, LinearServo/DDMotorSetParam)
2015/2	BCN-P5999-0114-3	Device Specification for Document ID

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

Project Data

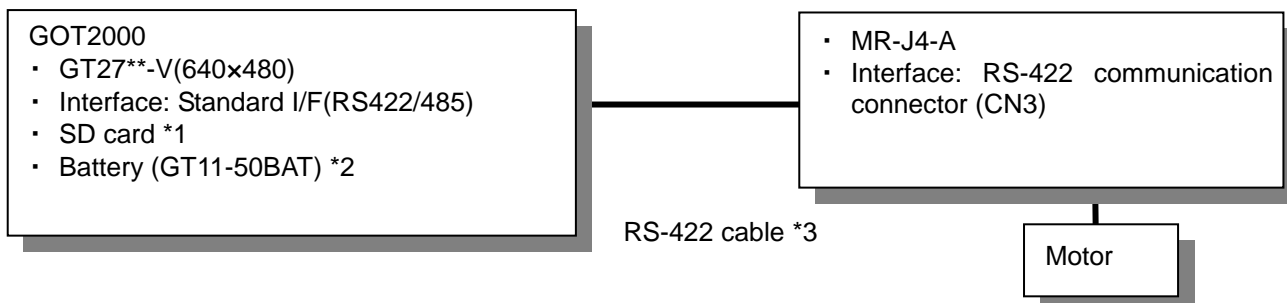
Date	Project data	GT Designer3*	Description
2013/8	mitsubishi_MR-J4-A_V_Ver1_E.GTX	1.100E	First edition
2015/1	mitsubishi_MR-J4-A_V_Ver2_E.GTX	1.126G	Add the following screen. (Gain adjustment, One-touch tuning, Machine diagnosis, Amplifier life diagnosis, LinearServo/DDMotorSetParam)
2015/2	mitsubishi_MR-J4-A_V_Ver3_E.GTX	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) 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 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)
		Alphanumeric/Kana
	Outline Font	Gothic
		Japanese (Kanji)
		Chinese (Simplified)
	Document Display	

3.2 Controller Setting of Screen Design Software

Item	Set value	Remarks
Transmission Speed (BPS)	115200	
Data Bit	8 bit	Fixed
Stop Bit	1 bit	Fixed
Parity	Even	Fixed
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.

4. Servo Amplifier

4.1 Servo Amplifier Communication Setting

Item	Set value	Remarks
Station No. setting	0	Set the 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
Parameter write inhibit	00AB	Reading/Writing of all parameters enabled
Input signal automatic on selection 1	1C00	Sets EM2 and LSP, LSN to automatic ON
Function selection D-5	0001	Sets alarm code output
Others	Initial value	

4.3 Supported model for the sample

The sample can be used with the Servo Amplifier whose date of production or Servo Amplifier S/W number meet the below conditions.

(1) The date of production

May 2014 or after

*The date of production is recorded on the Servo Amplifier plate.

(2) Servo Amplifier S/W number

Ver.B3 or later

*Servo Amplifier S/W number can be confirmed with the system configuration of MR Configurator.

5. SCREEN SPECIFICATIONS

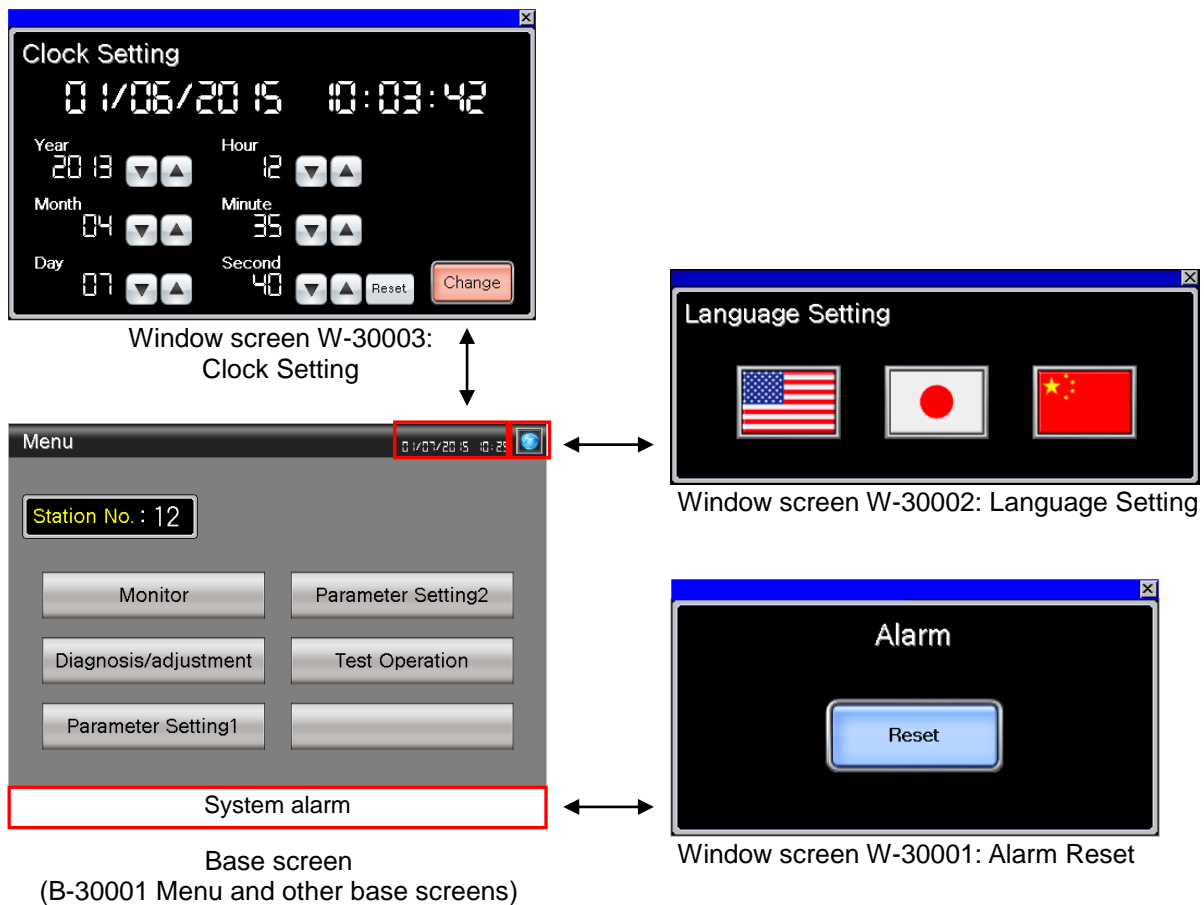
5.1 Display Language

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. 500 as shown below. When the column No. is set in the language switching device, the language corresponding to the column No. will appear.

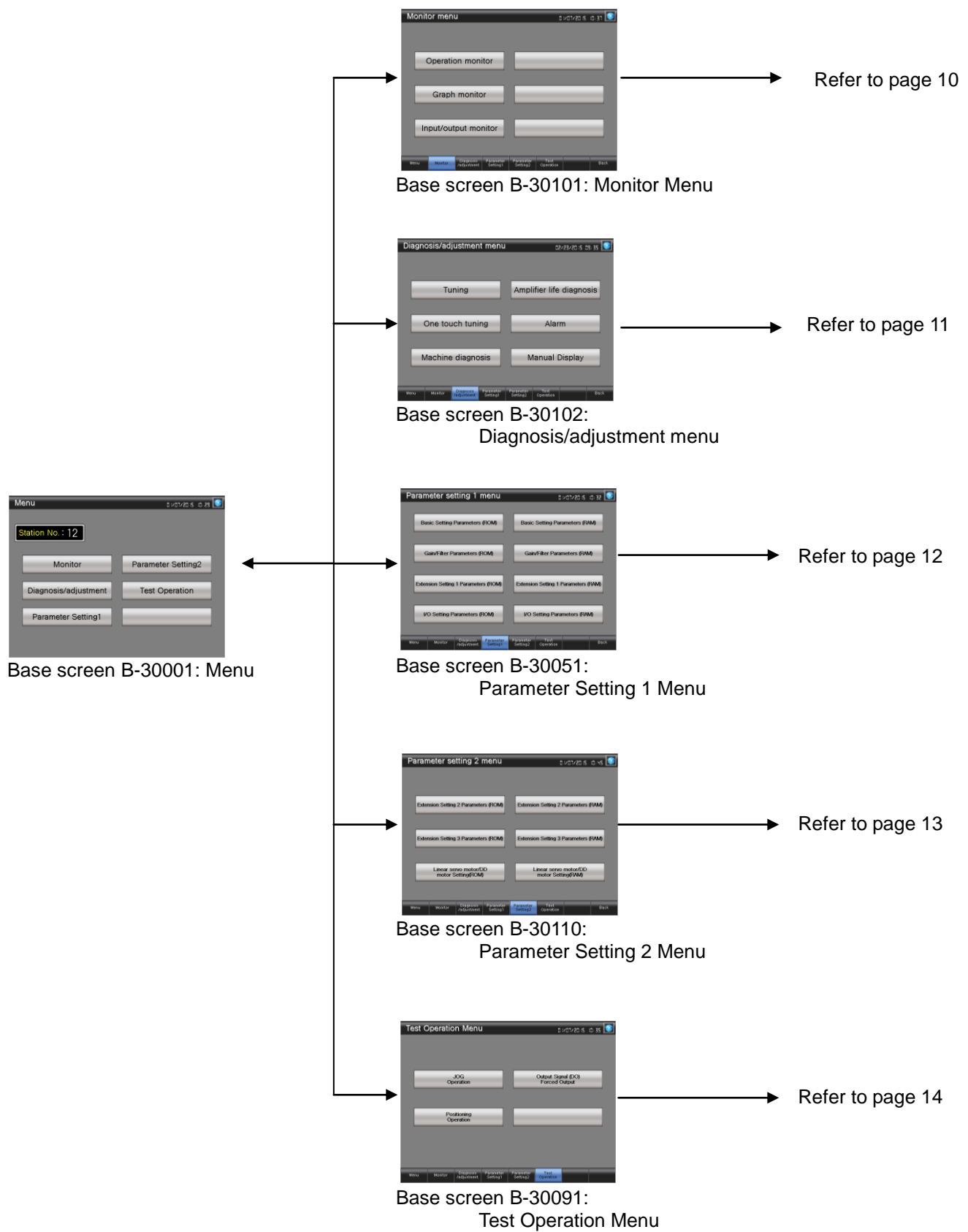
Column No.	Language
1	English
2	Japanese
3	Chinese (Simplified)

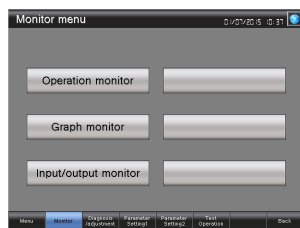
5.2 Screen List/Transition

5.2.1 Screen list/transition (common)



5.2.2 Screen list/transition (individual)

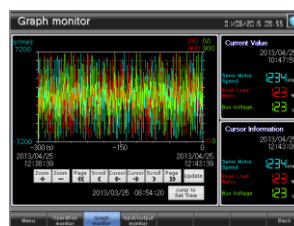




Base screen B-30101:
Monitor Menu

Item	Current Value	Unit
Cumulative Feedback Pulses	1254523590	pulse
Supply Motor Speed	1254523590	rpm
Drive Pulses	1254523590	pulse
Commanded Command Pulses	1254523590	pulse
Command Pulse Frequency	1254523590	Hz
Feeding Speed Command Voltage/Feeding Speed Limit Voltage	125.00	V
Actual Feeding Command Voltage/Feeding Speed Limit Voltage	125.00	V
Regenerative Load Ratio	1254523590	%
Effective Load Ratio	1254523590	%
Peak Load Ratio	1254523590	%
Intermittent Torque	1254523590	pulse
Index Command Position (1 pulse unit)	1254523590	pulse
RSS Current	1254523590	A
Load to Motor Inertia Ratio	1254.0	Mkg/Mkg
Reg. Torque	1254523590	W
Encoder Ratio Temperature	1254523590	°C
Setting Time	1254523590	s
Oscillation Detection Frequency	1254523590	Hz
Number of Fault Data Occurrences	1254523590	times
Unit Power Consumption (W unit)	1254523590	W
Unit Total Power Consumption (W unit)	1254523590	W

Base screen B-30011:
Operation Monitor

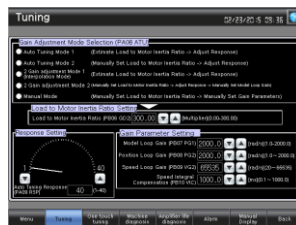


Base screen B-30041:
Graph Monitor

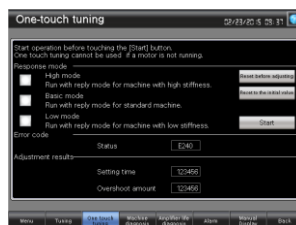
Input Signal		Output Signal	
CH1-43	CH1-18	CH1-43	
CH1-44	CH1-19	CH1-44	
CH1-45	CH1-20	CH1-45	
CH1-46	CH1-21	CH1-46	
CH1-47	CH1-22	CH1-47	
CH1-48	CH1-23	CH1-48	
CH1-49	CH1-24	CH1-49	
CH1-50	CH1-25	CH1-50	
CH1-51	CH1-26	CH1-51	
CH1-52	CH1-27	CH1-52	
CH1-53	CH1-28	CH1-53	
CH1-54	CH1-29	CH1-54	
CH1-55	CH1-30	CH1-55	
CH1-56	CH1-31	CH1-56	
CH1-57	CH1-32	CH1-57	
CH1-58	CH1-33	CH1-58	
CH1-59	CH1-34	CH1-59	
CH1-60	CH1-35	CH1-60	
CH1-61	CH1-36	CH1-61	
CH1-62	CH1-37	CH1-62	

Input Device Status		Output Device Status	
LGON	SP1	GP	① MTR
LIN	STAB2	MR	
TLI	CCP	ACCO	
REC	CH1-18	ACC3	
RES	CH1-19	ACC5	
CH	CH1-20	CHP	
	CH1-21	WMC	
	CH1-22	DMG	
	CH1-23	MTR	
	CH1-24		
	CH1-25		
	CH1-26		
	CH1-27		
	CH1-28		
	CH1-29		
	CH1-30		
	CH1-31		
	CH1-32		
	CH1-33		
	CH1-34		
	CH1-35		
	CH1-36		
	CH1-37		

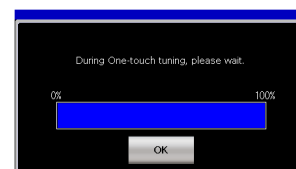
Menu
Signal
Input
Output
Status
Back



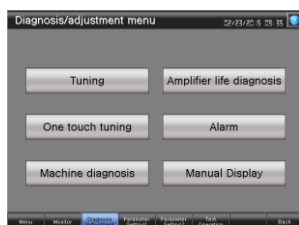
Base screen B-30103:
Tuning



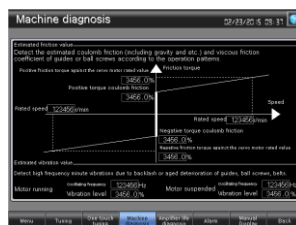
Base screen B-30104:
One-touch tuning



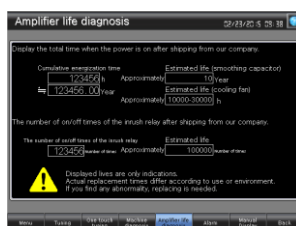
Window screen W-30013:
Disp progress of One-touchTuning



Base screen B-30102:
Diagnosis/adjustment menu



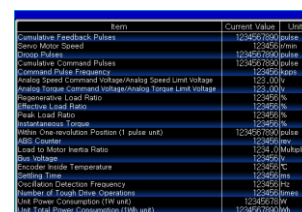
Base screen B-30105:
Machine diagnosis



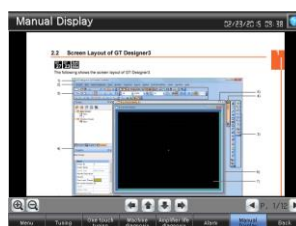
Base screen B-30106:
Amplifier life diagnosis



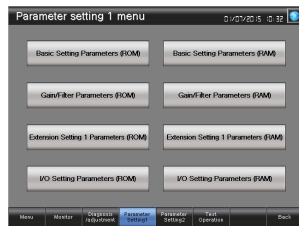
Base screen B-30031:
Alarm



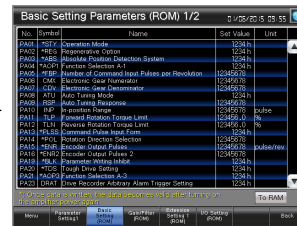
Window screen W-30011:
Status Disp. at Alarm Occurrence



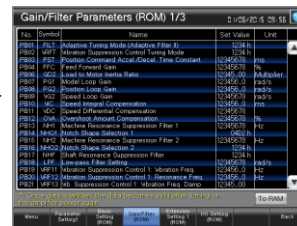
Base screen B-30500:
Manual Display



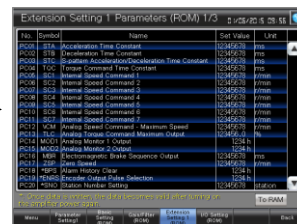
Base screen B-30051:
Parameter Setting 1 Menu



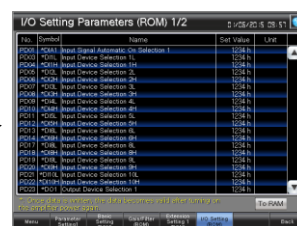
Base screen
B-30053 to 54: Basic Setting Parameters(ROM)
B-30071 to 72: Basic Setting Parameters(RAM)



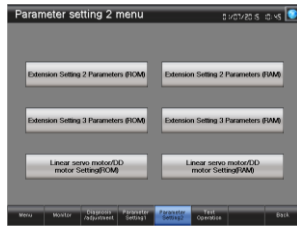
Base screen
B-30056 to 58: Gain/Filter Parameters(ROM)
B-30074 to 76: Gain/Filter Parameters(RAM)



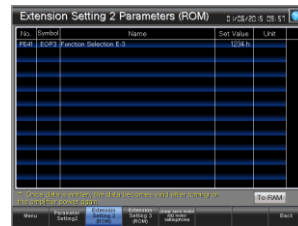
Base screen
B-30060 to 62: Ext.Setting1 Parameters(ROM)
B-30078 to 80: Ext.Setting1 Parameters(RAM)



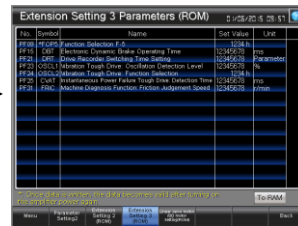
Base screen
B-30064 to 65: I/O Setting Parameters(ROM)
B-30082 to 83: I/O Setting Parameters(RAM)



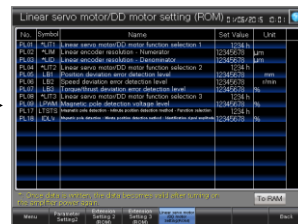
Base screen B-30110:
Parameter Setting 2 Menu



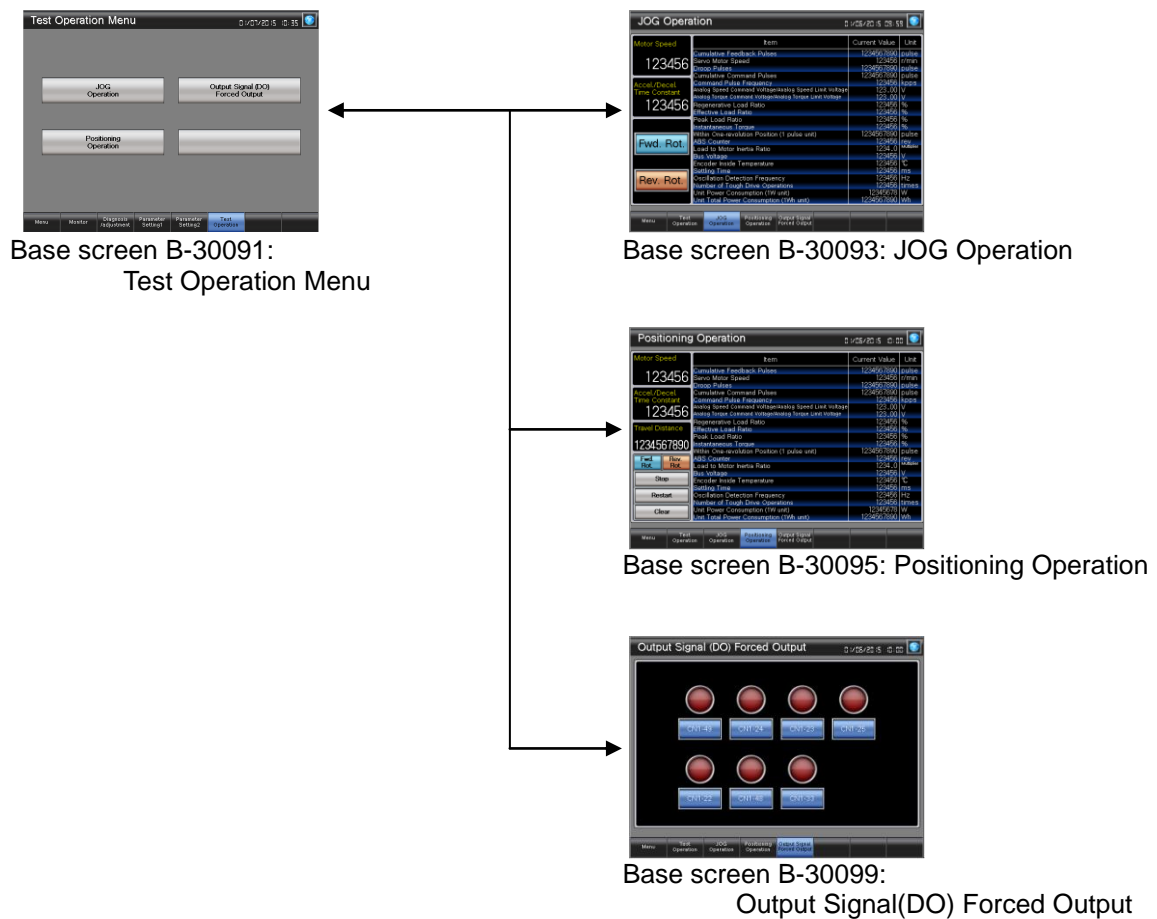
Base screen
B-30067: Ext.Setting2 Parameters(ROM)
B-30085: Ext.Setting2 Parameters(RAM)



Base screen
B-30069: Ext.Setting3 Parameters(ROM)
B-30087: Ext.Setting3 Parameters(RAM)

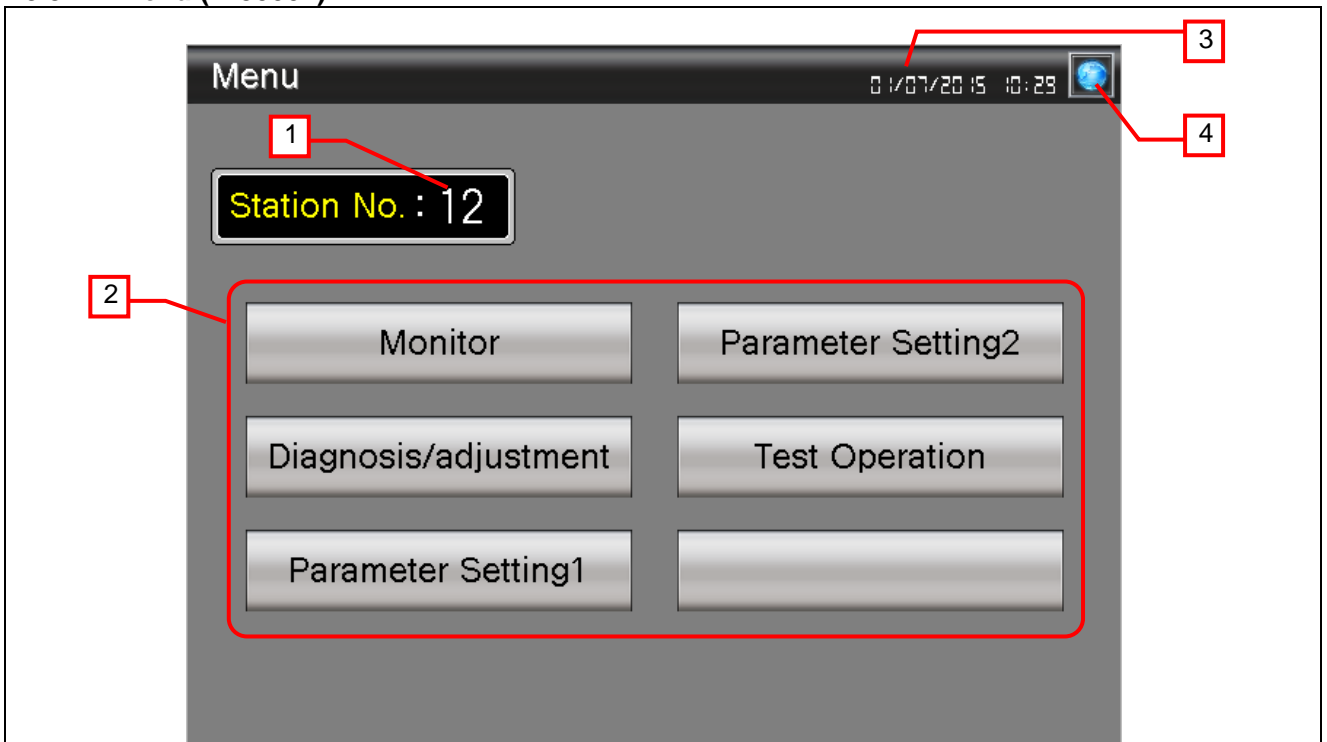


Base screen
B-30112: LinearServo/DDMotorSetParam(ROM)
B-30114: LinearServo/DDMotorSetParam(RAM)



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 to be operated and switching to other screens.

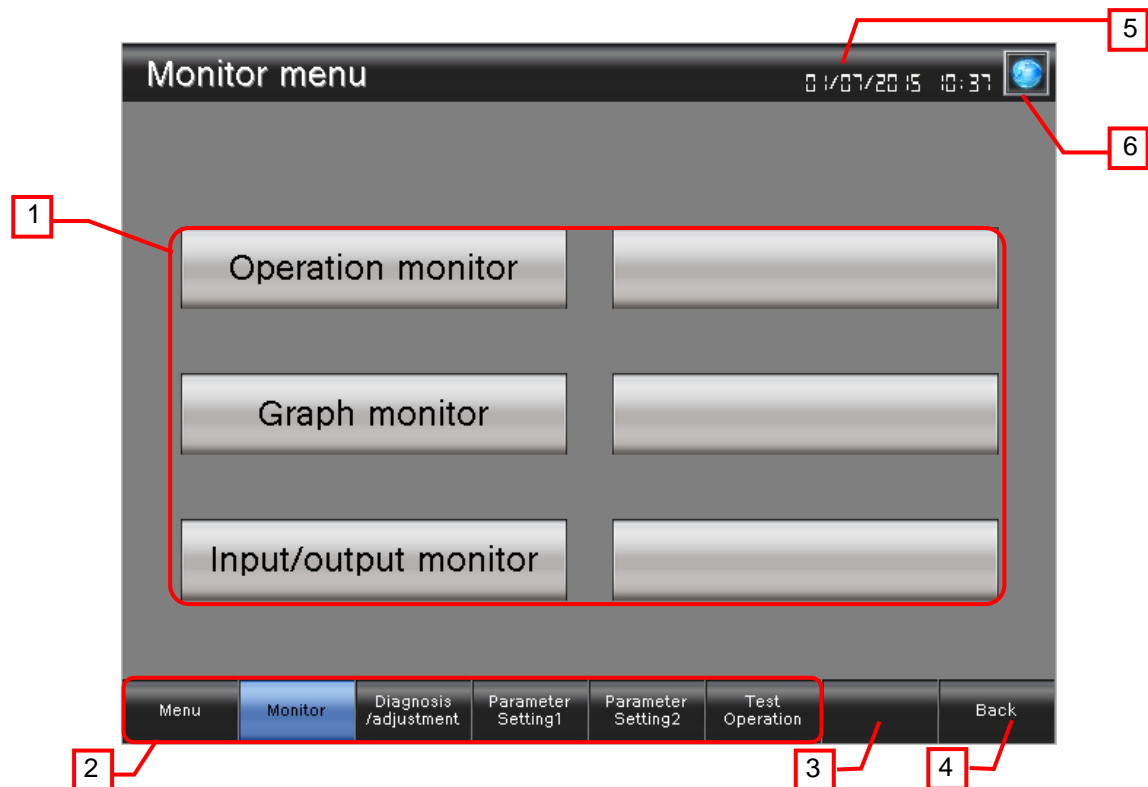
Description

1. Displays the station No. of the servo amplifier to be operated. The station No. can be changed by touching the number.
2. Switches to each screen.
3. Displays the current date and time. Touch the button to open the [Clock Setting] window.
4. Opens the [Language Setting] window.

Remarks

- When monitoring multiple servo amplifiers, the servo amplifier with the station number set for the [Host Address] of [Controller Setting] should exist. In this sample, "0" is set to the [Host Address]. For more details about [Host Address], please refer to "GOT2000 Series Connection Manual (Mitsubishi Products)".
- 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.

5.3.2 Monitor Menu (B-30101)



Outline

This is the menu screen for monitor.

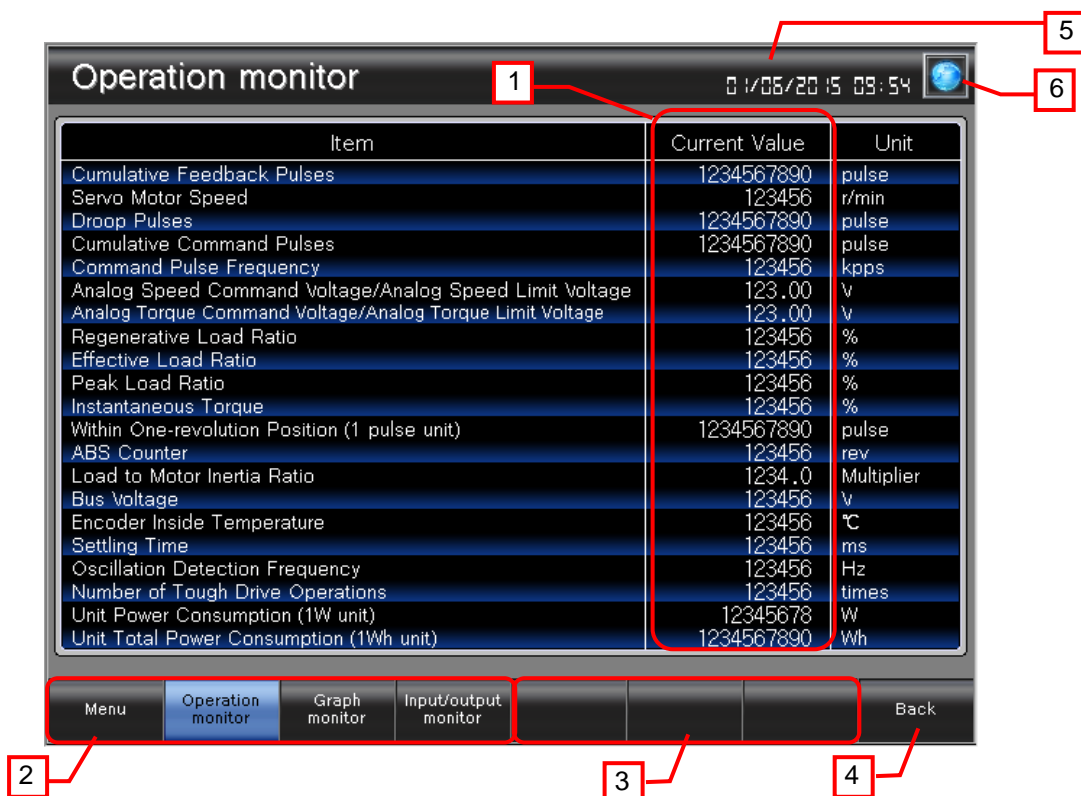
Description

1. Switches to each screen.
2. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
3. Shows unused switches for base screen switching.
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

- 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 Operation Monitor (B-30011)



Outline

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

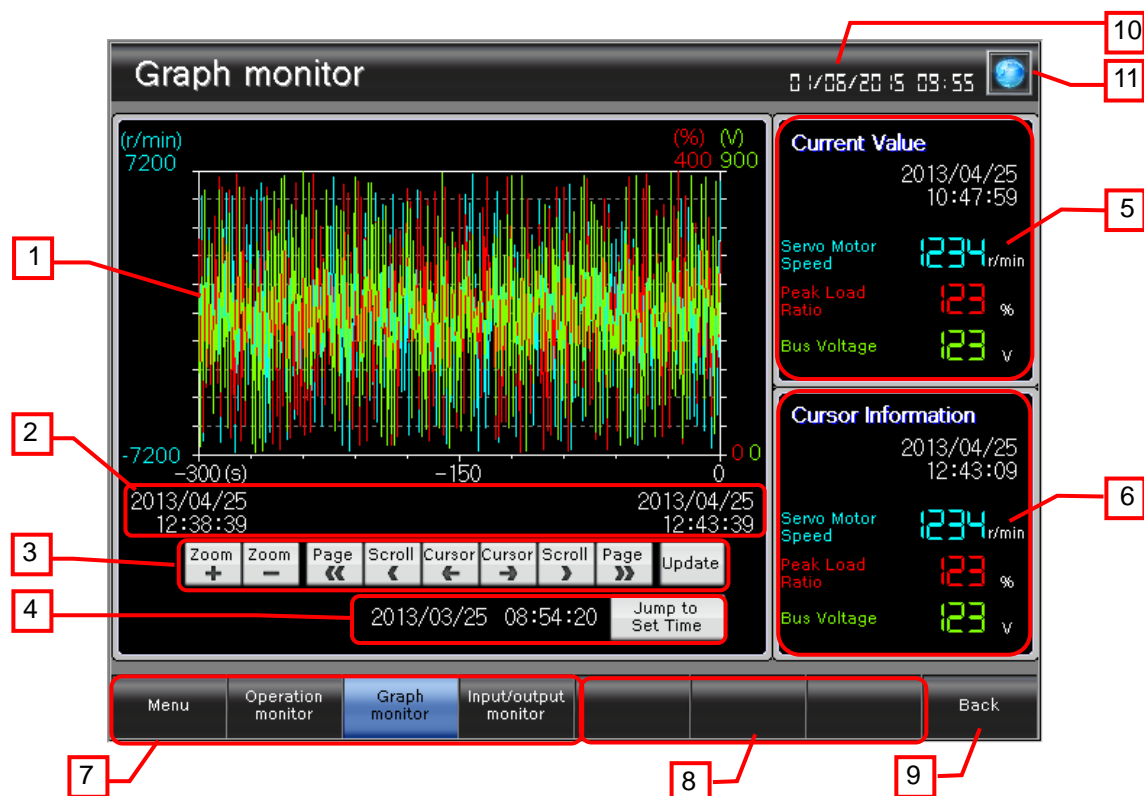
Description

1. Displays the current values of each item.
2. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
3. Shows unused switches for base screen switching.
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

- 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-30041)



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.

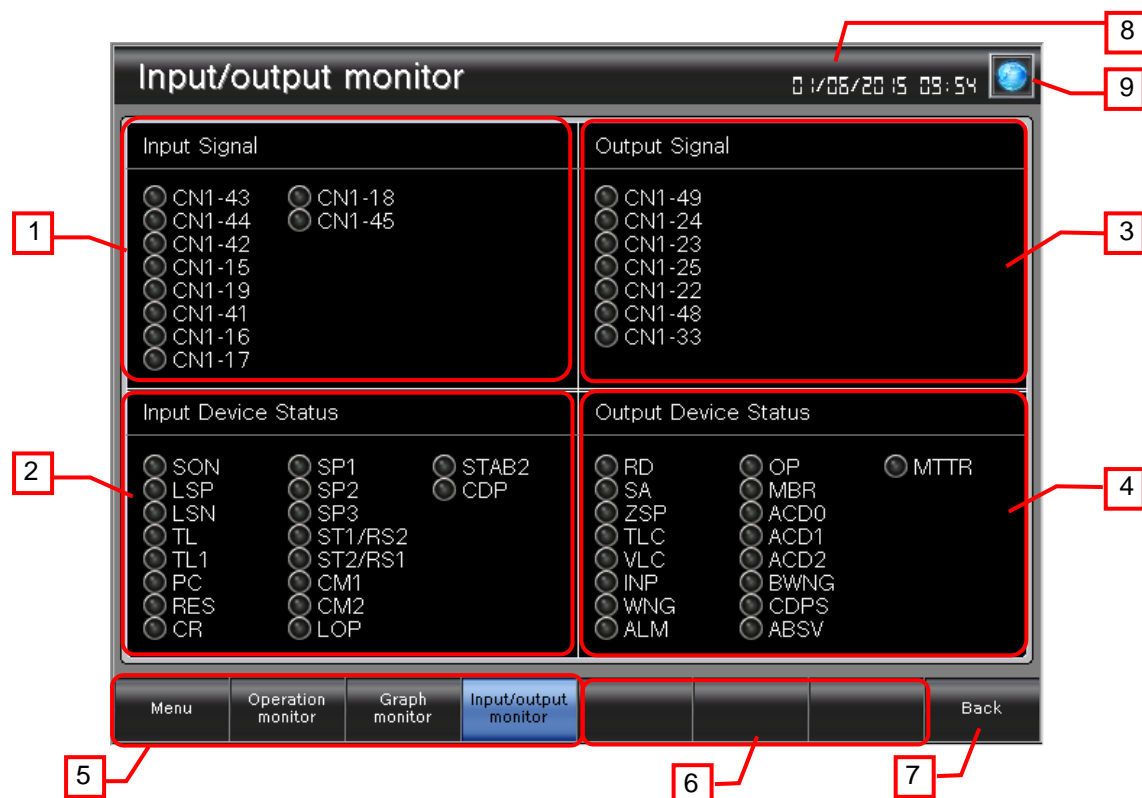
Description

- Displays the 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

- A screen script is set for the [Jump to Set Time] switch. 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.

5.3.5 Input/output monitor (B-30021)



Outline

Display input/output signal status.

Description

1. Displays the status of input signal.
2. Displays the status of input device.
3. Displays the status of output signal.
4. Displays the status of output device.
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

- Object scripts are set for the word lamps of STAB2, CDP, CDPS, ABSV, and MTTR. 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.

5.3.6 Diagnosis/adjustment menu (B-30102)



Outline

This is the menu screen for diagnosis/adjustment.

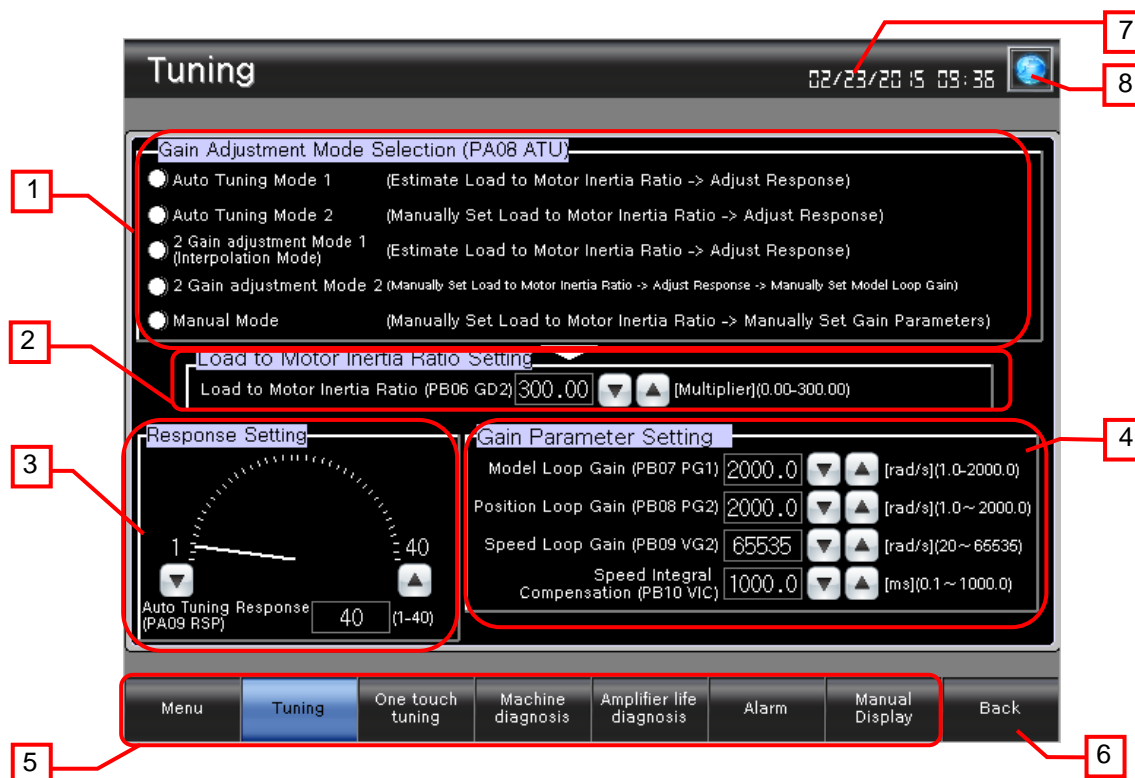
Description

1. Switches to each screen.
2. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
3. Shows unused switches for base screen switching.
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

- 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 Tuning (B-30103)



Outline

Set the necessary parameters for gain adjustment.

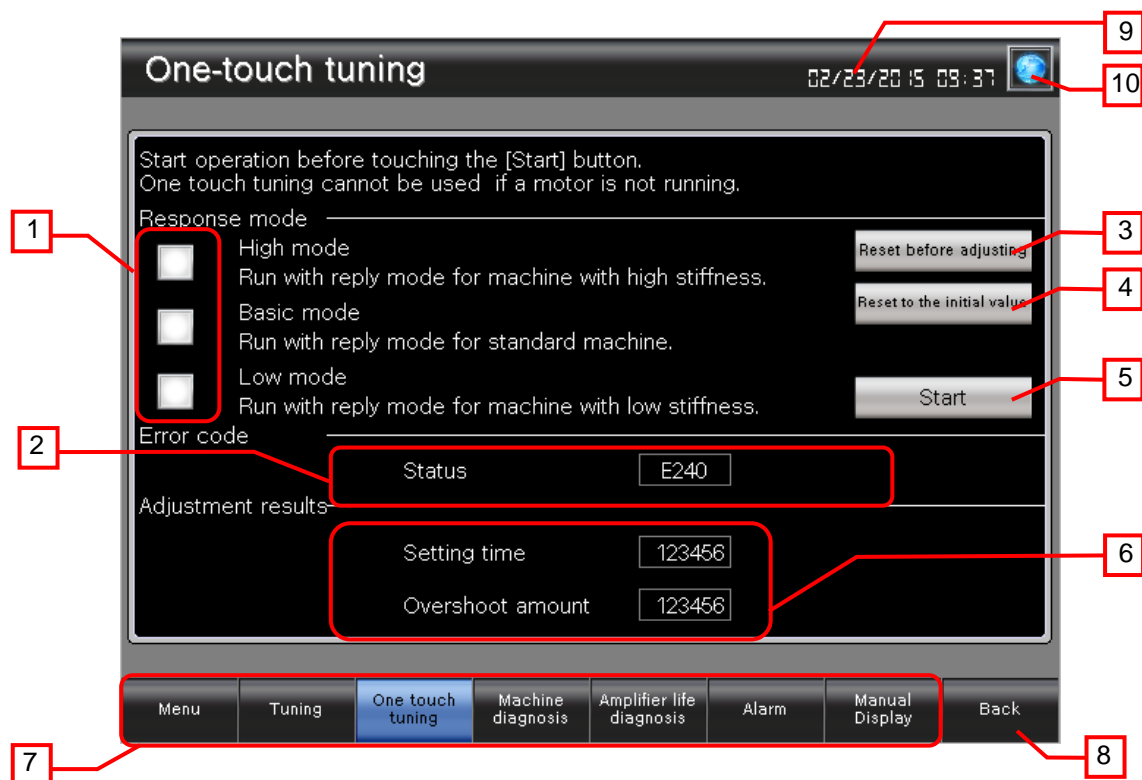
Description

1. Select the Gain adjustment mode. Items differ according to the selected mode.
2. Sets the Load to Motor Inertia Ratio.
3. Sets the Auto Tuning Response.
4. Sets the gain parameter.
5. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
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

- 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 One-touch tuning (B-30104)



Outline

Perform one-touch tuning.

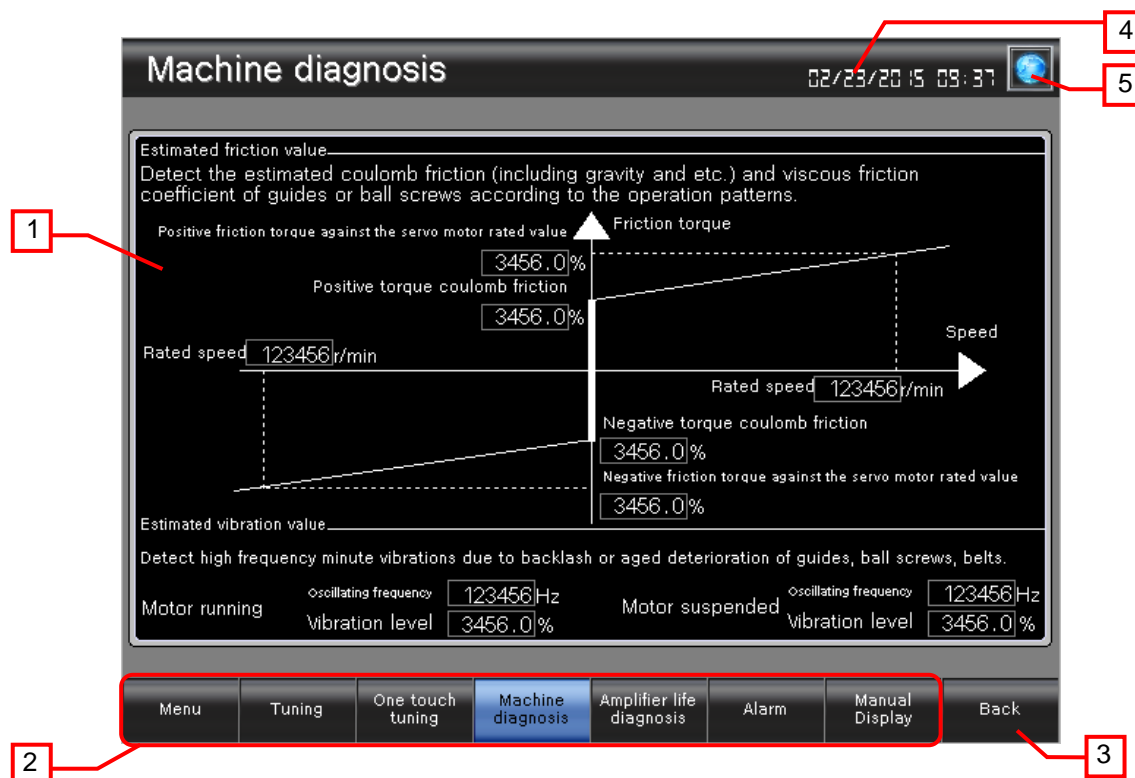
Description

1. Selects reply mode.
2. Displays the error code.
3. Back to the previous state before one touch tuning.
4. Back to the initial state.
5. Perform one touch tuning according to the selected reply mode.
6. Displays the result of tuning.
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

- 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 Machine diagnosis (B-30105)



Outline

Display the machine diagnosis

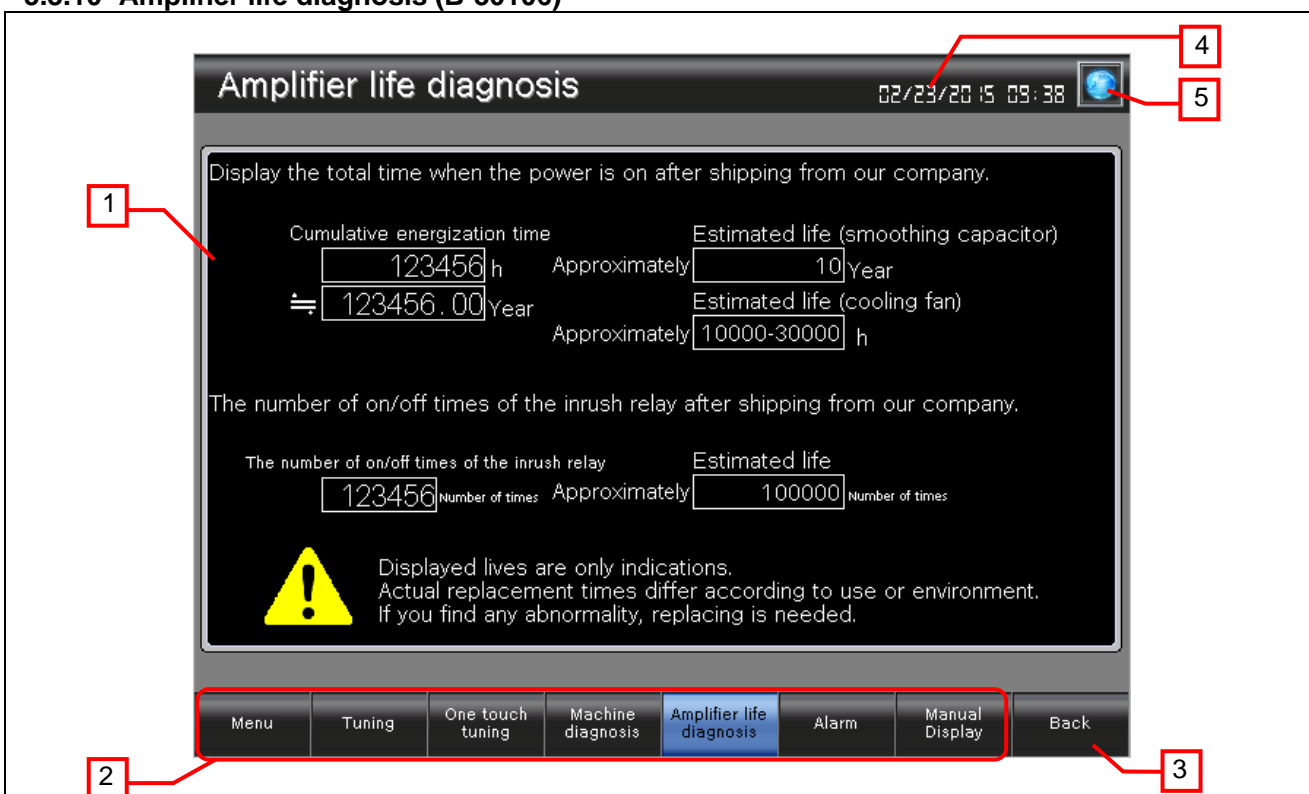
Description

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

Remarks

- 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.

5.3.10 Amplifier life diagnosis (B-30106)



Outline

Display the amplifier life diagnosis

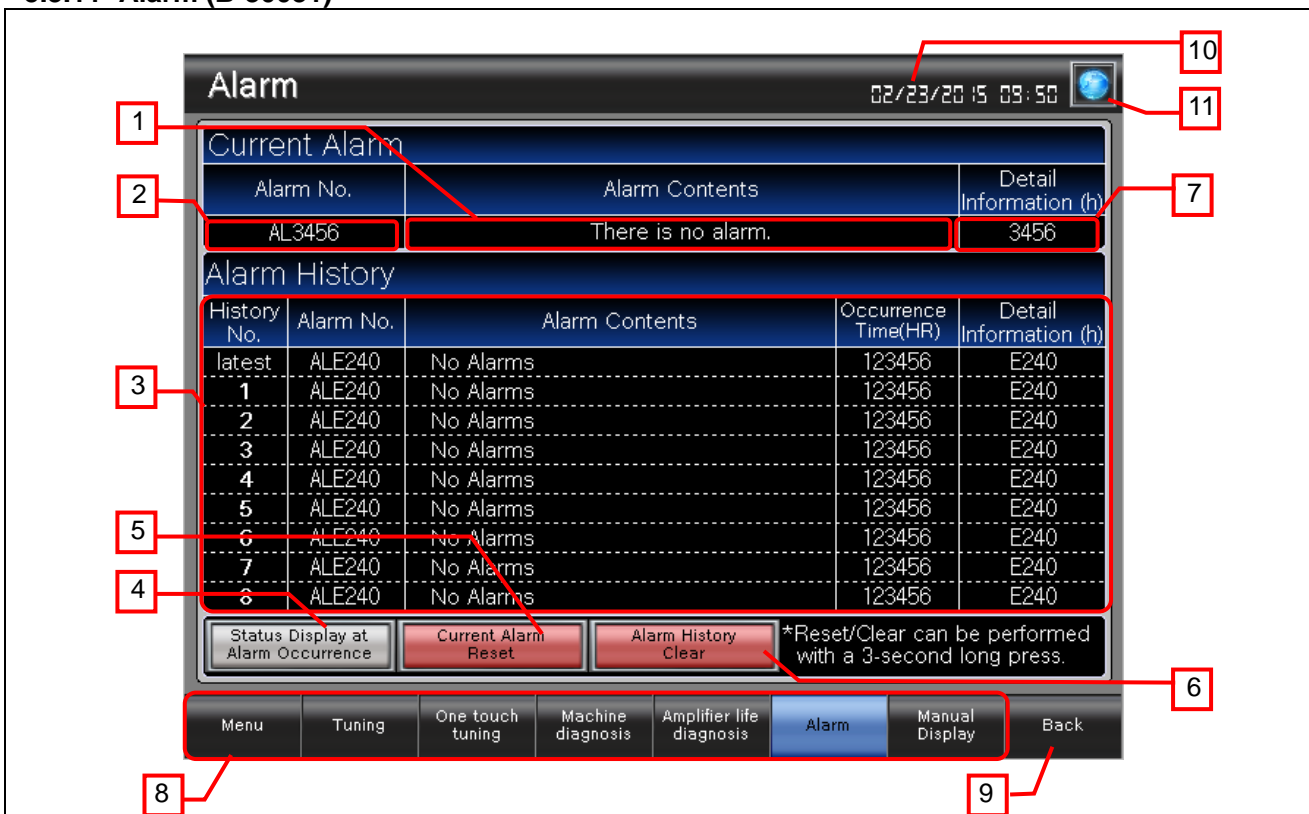
Description

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

Remarks

- 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 Alarm (B-30031)



Outline

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

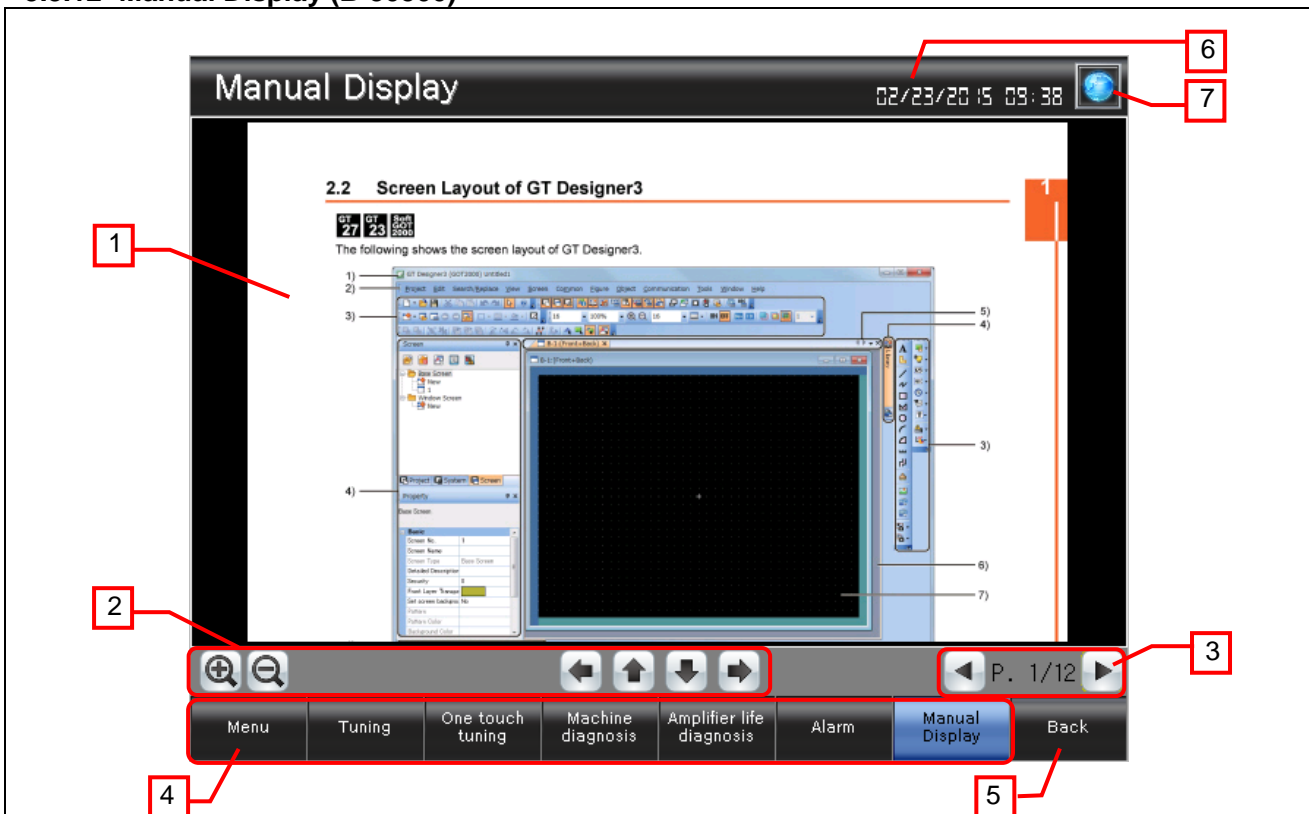
Description

- Displays the current alarm contents.
- Displays the current alarm No.
- 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).
- Displays the detail of current alarm.
- Reset the current alarm with a 3-second long press.
- Clears the alarm history with a 3-second long press.
- Displays the [Status Disp. at Alarm Occurrence] window.
- Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
- 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

- Object scripts are set for the word comment displays and word lamps of the alarm contents (current alarm and history). 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.

5.3.12 Manual Display (B-30500)



Outline

This screen displays the manual of the currently displayed language.

Description

- 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).
- 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.
- 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.
- Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
- 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.

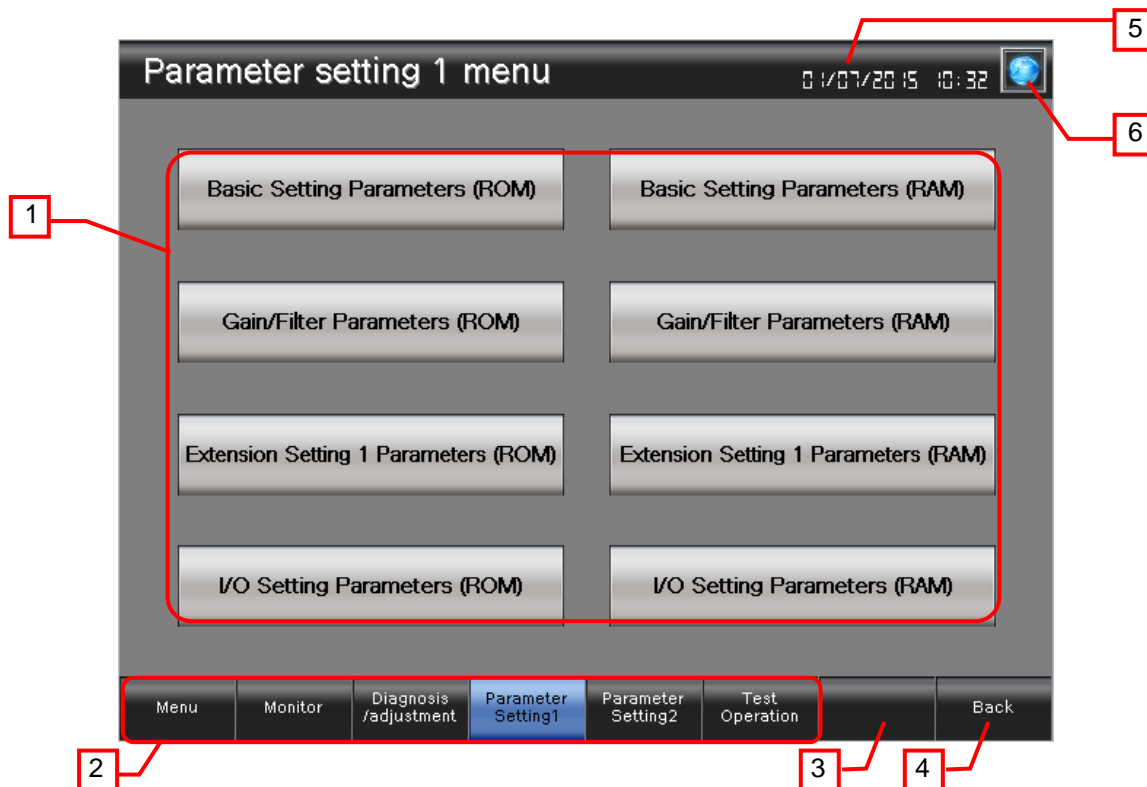
Remarks

- 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 "5.6 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 "5.6 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.

5.3.13 Parameter Setting 1 Menu (B-30051)



Outline

This is the parameter setting 1 menu screen.

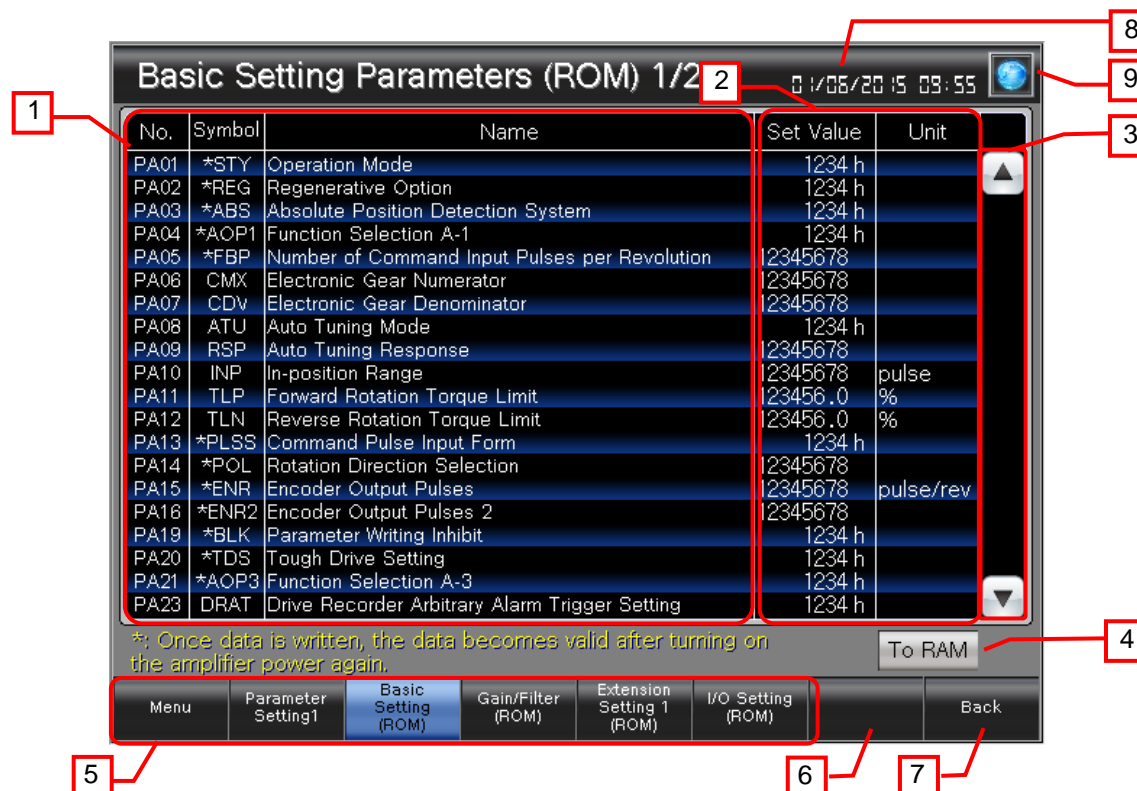
Description

1. Switches to each screen.
2. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
3. Shows unused switches for base screen switching.
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

- 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 Basic Setting Parameters(ROM) (B-30053 to 30054)



Outline

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

Description

1. Displays the number, symbol and name of parameters.
2. Displays the set values and unit of parameter. The set values are alterable.
(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 the RAM screen of currently displayed screen.
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

- 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 Gain/Filter Parameters(ROM) (B-30056 to 30058)



Outline

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

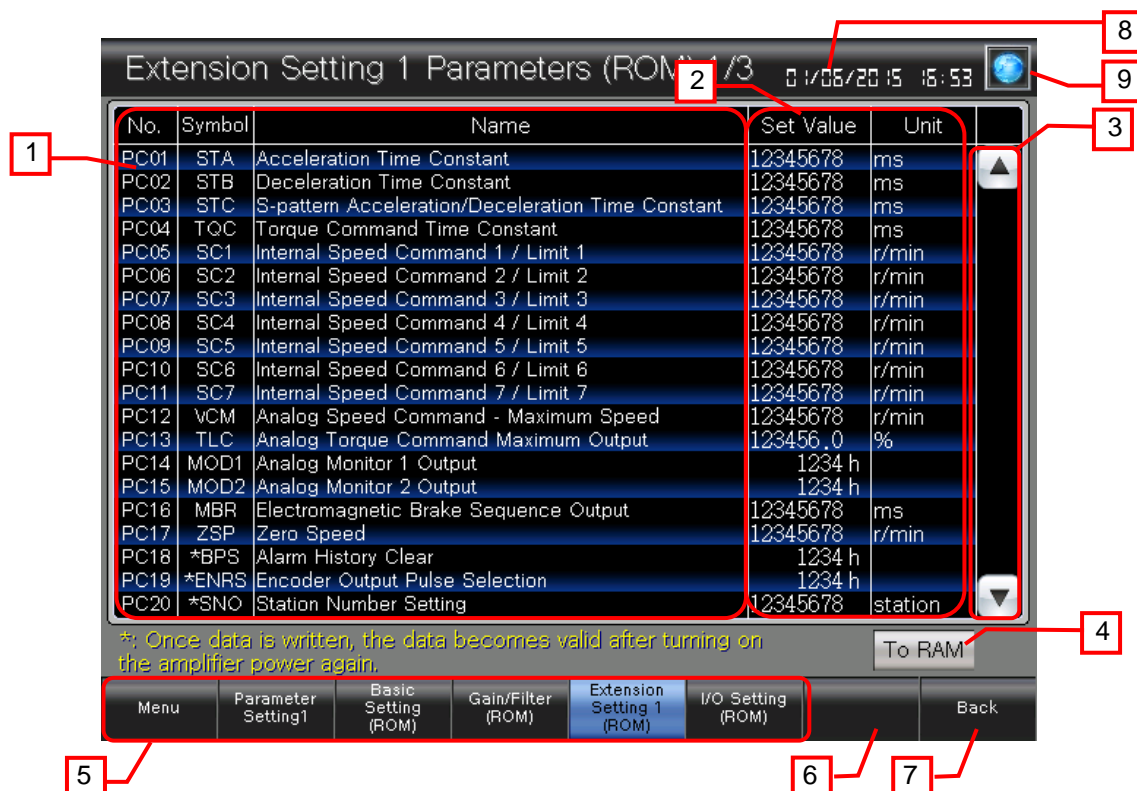
Description

1. Displays the number, symbol and name of parameters.
2. Displays the set values and units of parameter. The set values are alterable.
(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 the RAM screen of currently displayed screen.
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

- 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 Ext. Setting 1 Parameters(ROM) (B-30060 to 30062)



Outline

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

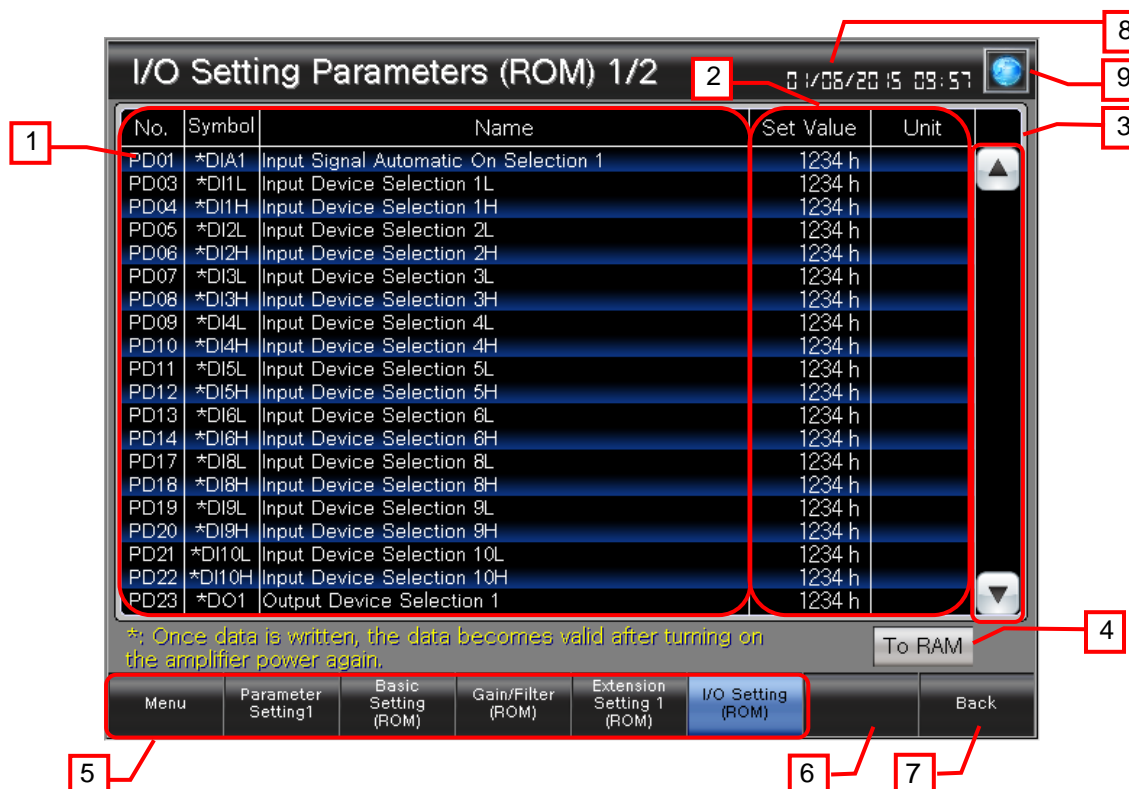
Description

1. Displays the number, symbol and name of parameters.
2. Displays the set values and units of parameter. The set values are alterable.
(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 the RAM screen of currently displayed screen.
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

- 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 I/O Setting Parameters(ROM) (B-30064 to 30065)



Outline

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

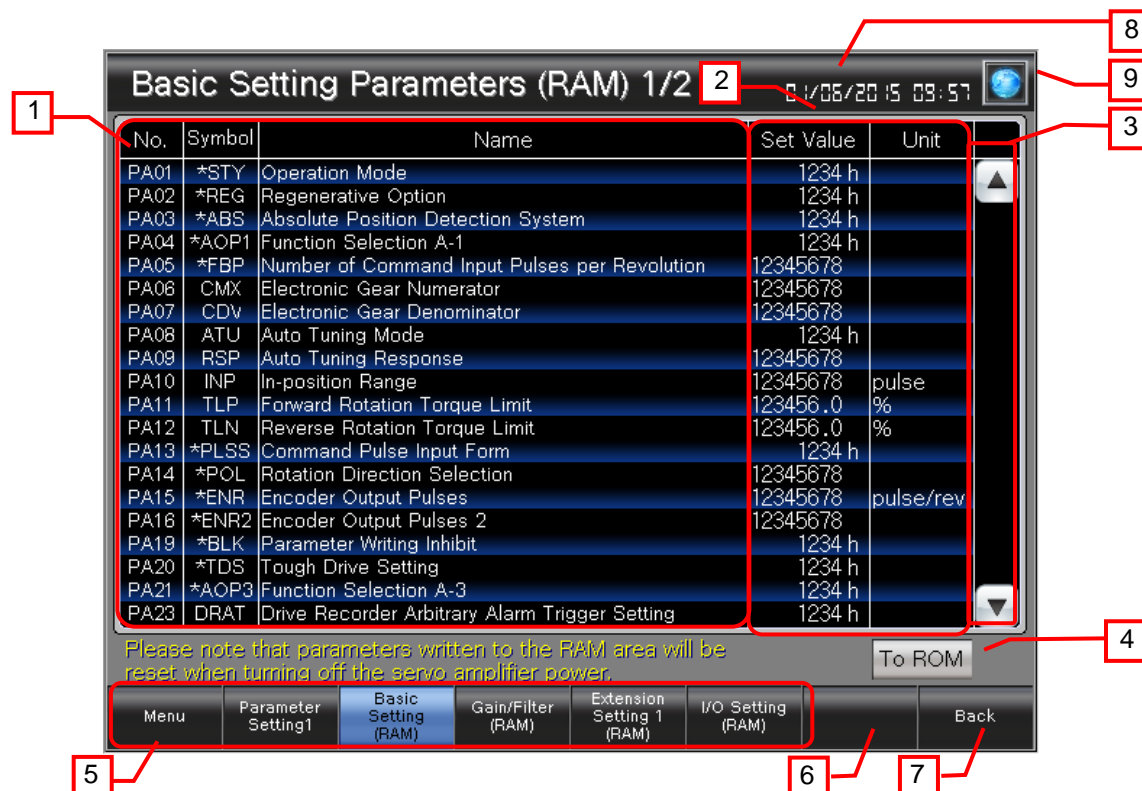
Description

1. Displays the number, symbol and name of parameters.
2. Displays the set values and units of parameter. The set values are alterable.
(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 the RAM screen of currently displayed screen.
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

- 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 Basic Setting Parameters(RAM) (B-30071 to 30072)



Outline

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

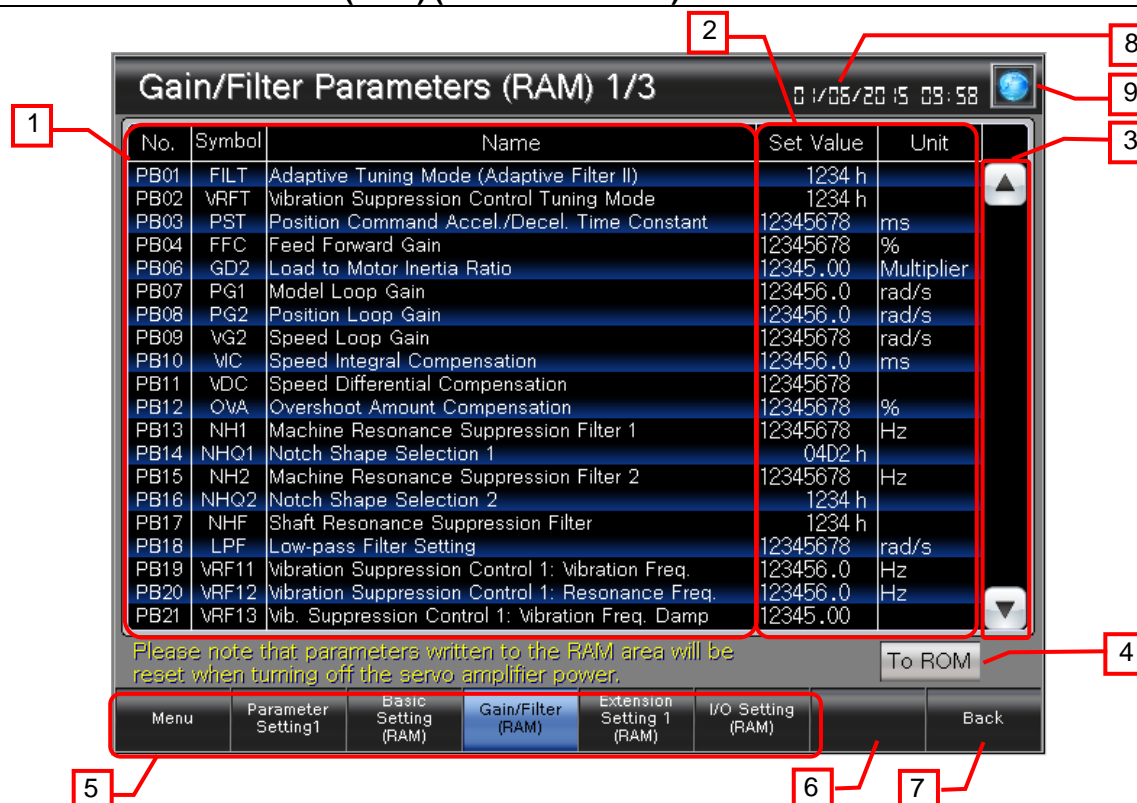
Description

1. Displays the number, symbol and name of parameters.
2. Displays the set values and units of parameter. The set values are alterable.
(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 the ROM screen of currently displayed screen.
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

- 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 Gain/Filter Parameters(RAM) (B-30074 to 30076)



Outline

This screen allows displaying and setting the gain/filter parameters of RAM in the servo amplifier.

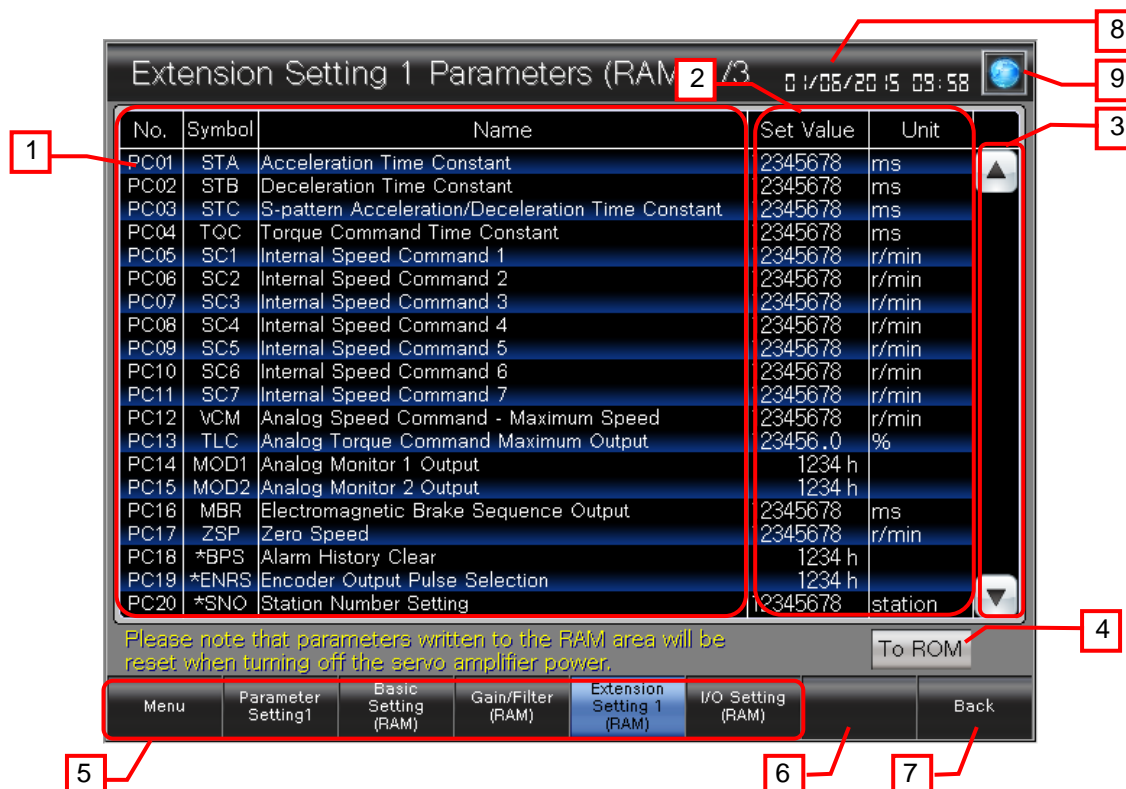
Description

1. Displays the number, symbol and name of parameters.
2. Displays the set values and units of parameter. The set values are alterable.
(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 the ROM screen of currently displayed screen.
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

- 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 Ext.Setting1 Parameters(RAM) (B-30078 to 30080)



Outline

This screen allows displaying and setting the extension setting 1 parameters of RAM in the servo amplifier.

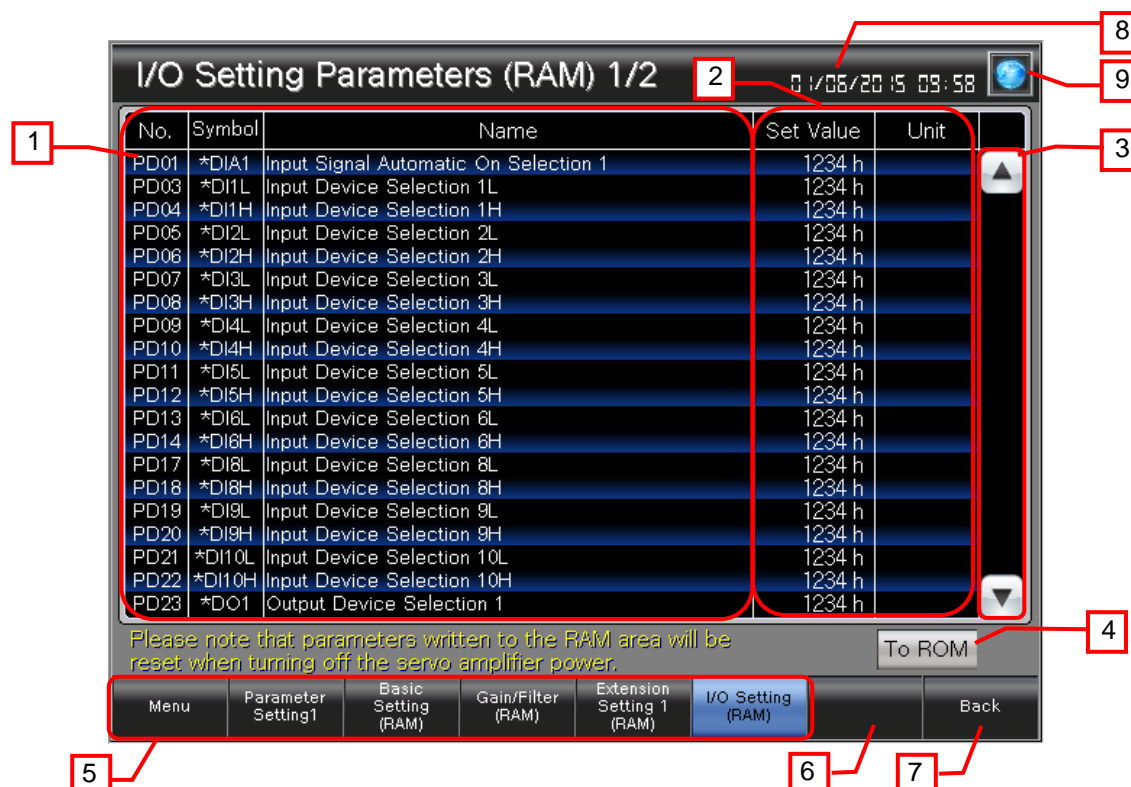
Description

1. Displays the number, symbol and name of parameters.
2. Displays the set values and units of parameter. The set values are alterable.
(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
4. Switches to the ROM screen of currently displayed screen.
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

- 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 I/O Setting Parameters(RAM) (B-30082 to 30083)



Outline

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

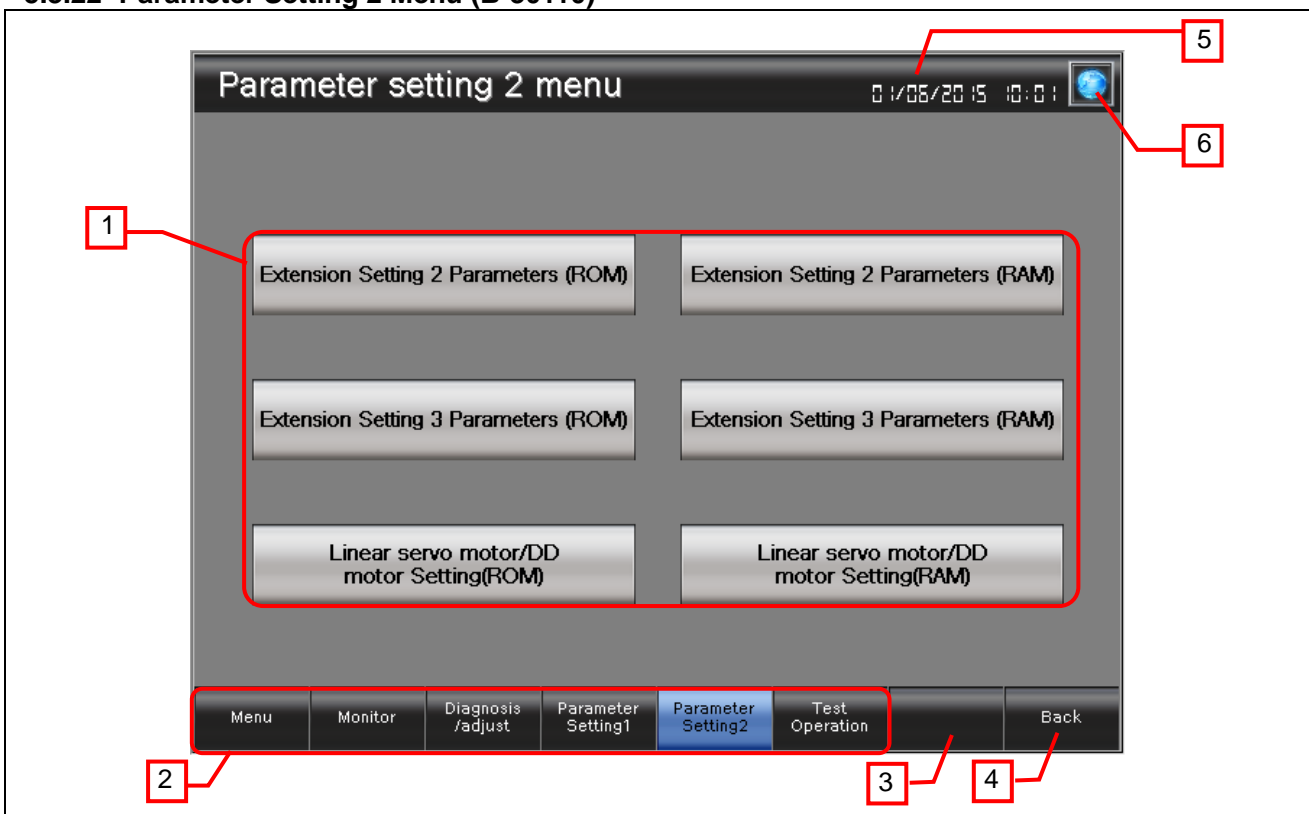
Description

1. Displays the number, symbol and name of parameters.
2. Displays the set values and units of parameter. The set values are alterable.
(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 the ROM screen of currently displayed screen.
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

- 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 Parameter Setting 2 Menu (B-30110)



Outline

This is the parameter setting 2 menu screen.

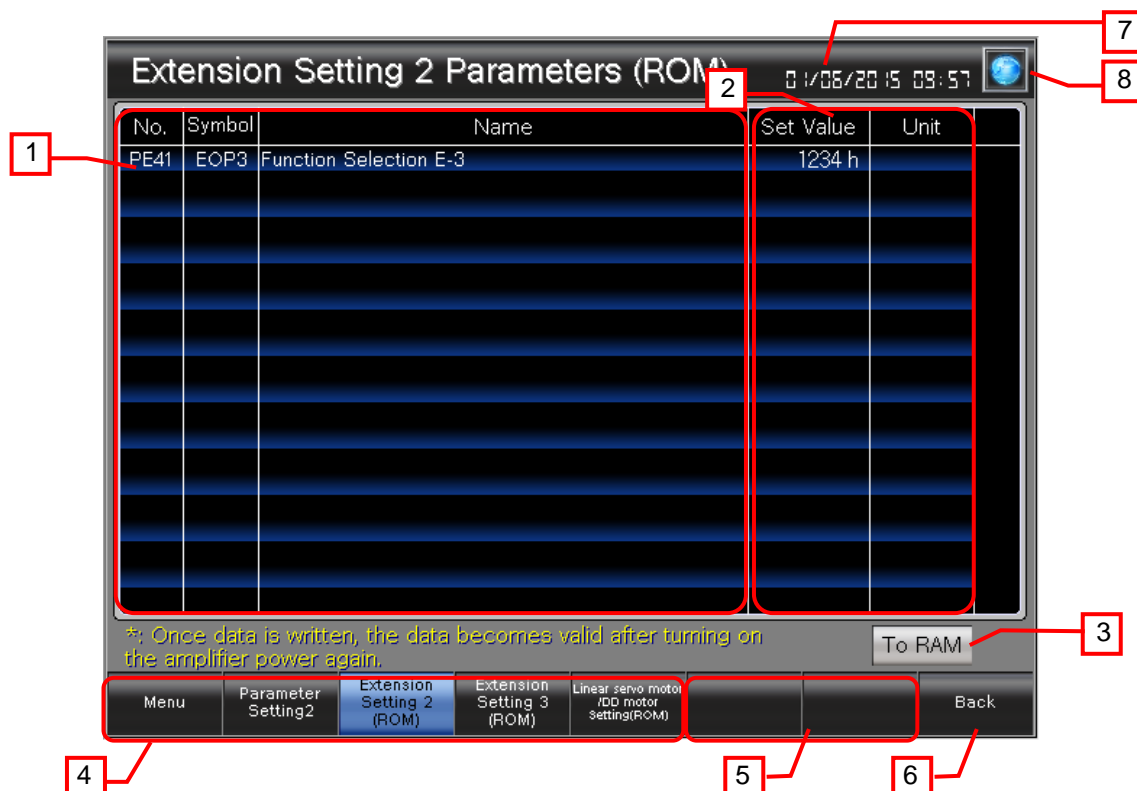
Description

1. Switches to each screen.
2. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
3. Shows unused switches for base screen switching.
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

- 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 Ext.Setting2 Parameters(ROM) (B-30067)



Outline

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

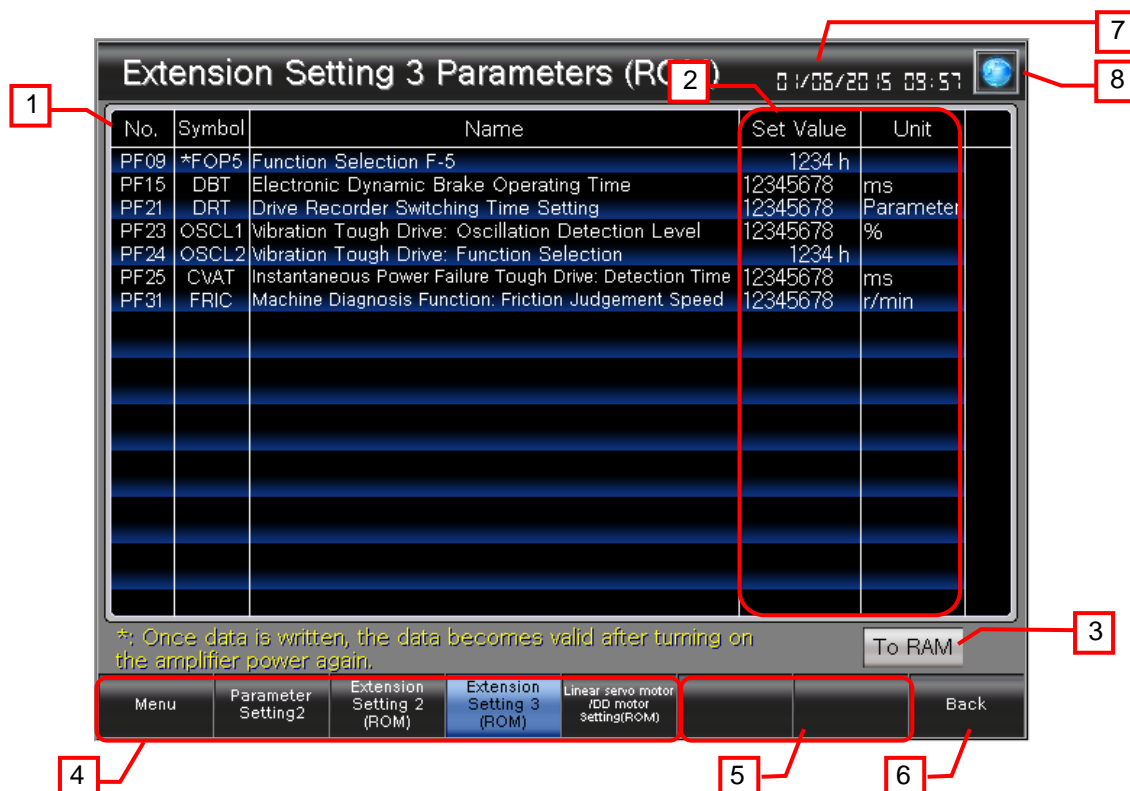
Description

1. Displays the number, symbol and name of parameters.
2. Displays the set values and units of parameter. The set values are alterable. (The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
3. Switches to the RAM screen of currently displayed screen.
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

- 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 Ext.Setting3 Parameters(ROM) (B-30069)



Outline

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

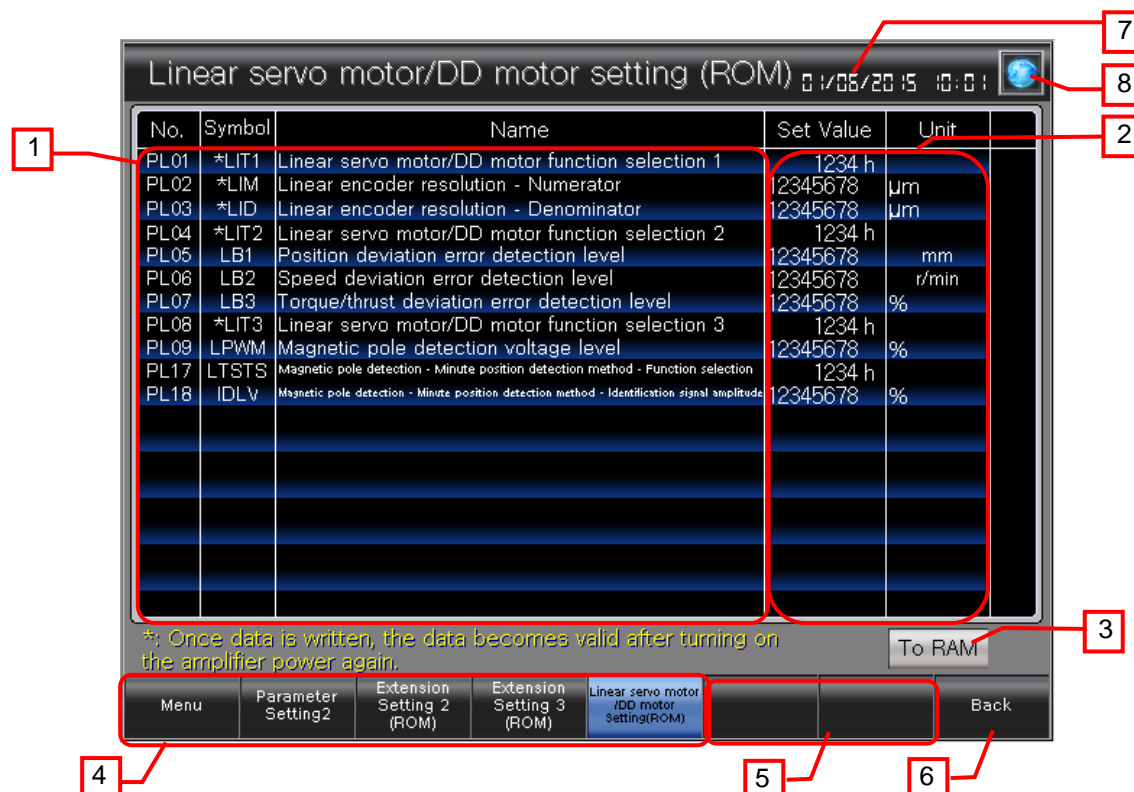
Description

1. Displays the number, symbol and name of parameters.
2. Displays the set values and units of parameter. The set values are alterable.
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
3. Switches to the RAM screen of currently displayed screen.
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

- 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 LinearServo/DDMotorSetParam(ROM) (B-30112)



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 number, symbol and name of parameters.
2. Displays the set values and units of parameter. The set values are alterable.
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
3. Switches to the RAM screen of currently displayed screen.
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

- 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.

Extension Setting 2 Parameters (RAM)

No.	Symbol	Name	Set Value	Unit
PE41	EOP3	Function Selection E-3	1234 h	

Please note that parameters written to the RAM area will be reset when turning off the servo amplifier power.

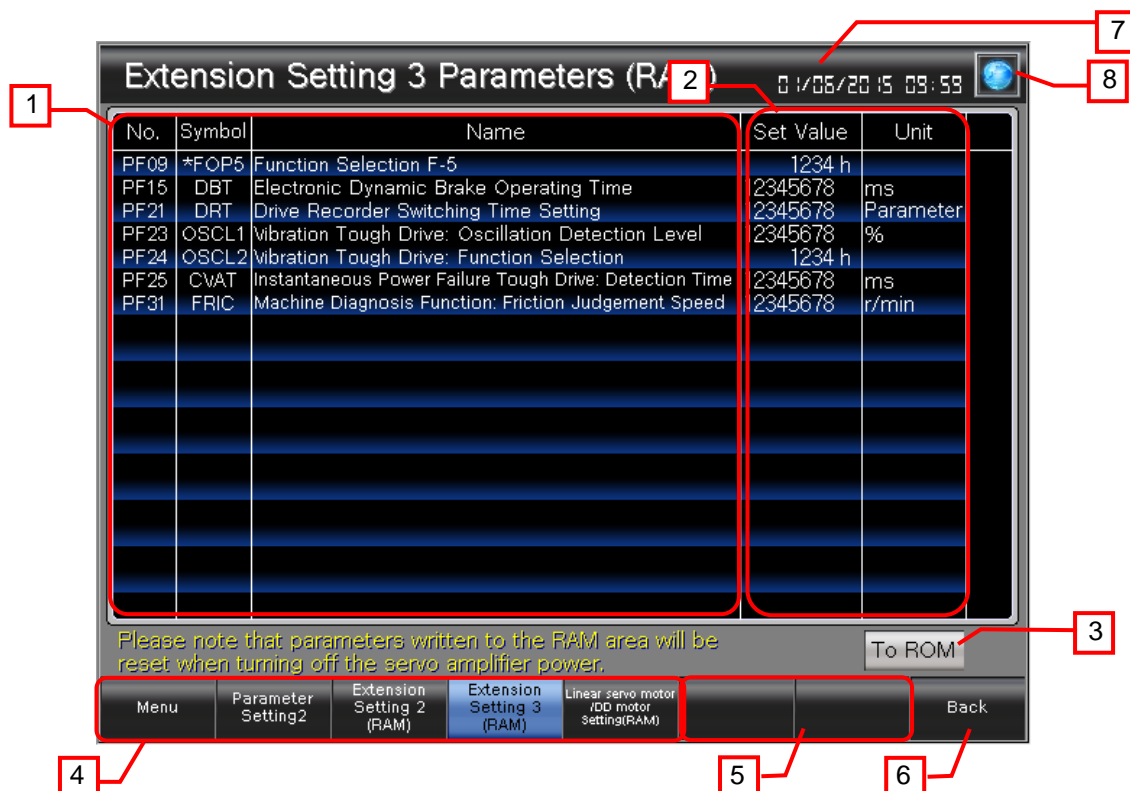
Navigation Buttons: Menu, Parameter Setting2, **Extension Setting 2 (RAM)**, Extension Setting 3 (RAM), Linear servo motor /DD motor Setting(RAM), Back

Other Elements: To ROM, Date/Time: 01/06/2015 09:53, Clock icon

Callouts:

1. Table header
2. Set Value column
3. To ROM button
4. Menu button
5. Extension Setting 2 (RAM) button
6. Back button
7. Date/Time display
8. Clock icon

5.3.27 Ext.Setting3 Parameters(RAM) (B-30087)



Outline

This screen allows displaying and setting the extension setting 3 parameters of RAM in the servo amplifier.

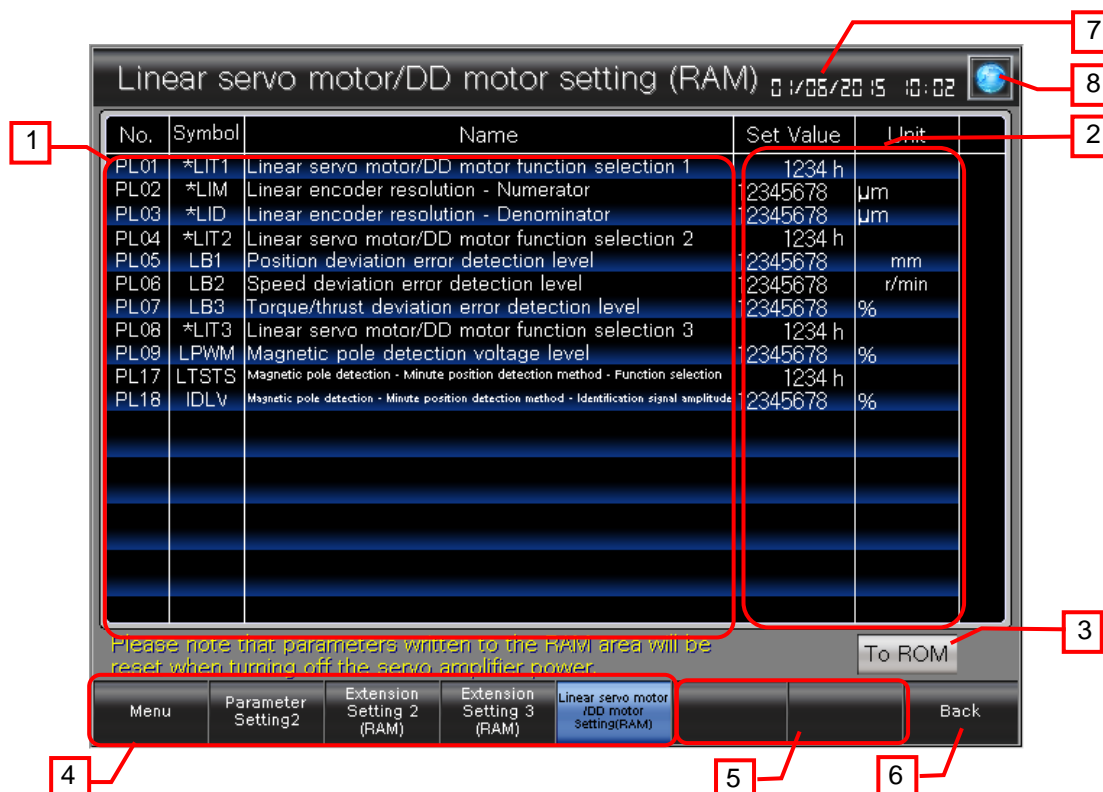
Description

1. Displays the number, symbol and name of parameters.
2. Displays the set values and units of parameter. The set values are alterable.
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
3. Switches to the ROM screen of currently displayed screen.
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

- 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 LinearServo/DDMotorSetParam(RAM) (B-30114)



Outline

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

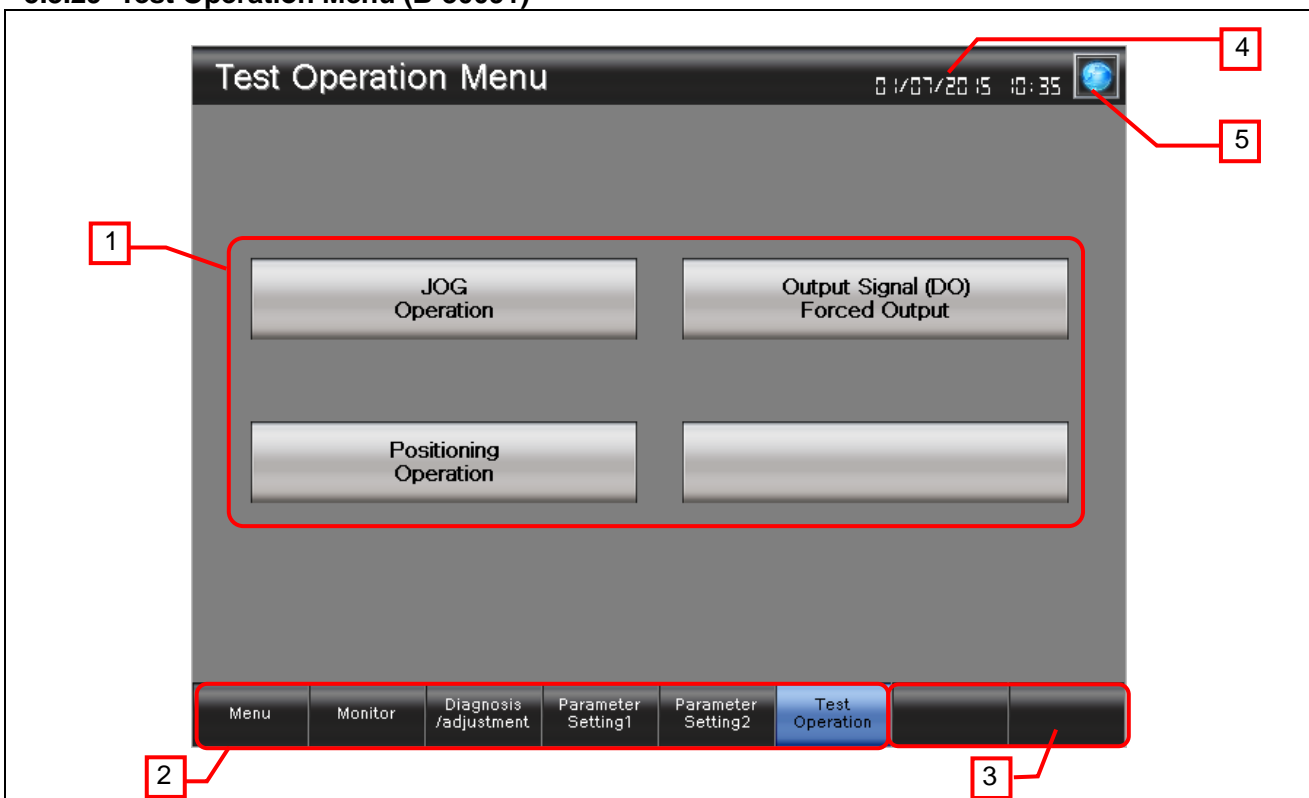
Description

1. Displays the number, symbol and name of parameters.
2. Displays the set values and units of parameter. The set values are alterable.
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
3. Switches to the ROM screen of currently displayed screen.
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

- 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 Test Operation Menu (B-30091)



Outline

This is the test operation menu screen.

Description

1. Switches to each screen.
2. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
3. Shows unused switches for base screen switching.
4. Displays the current date and time. Touch the button to open the [Clock Setting] window.
5. Opens the [Language Setting] window.

Remarks

- 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 JOG Operation (B-30093)



Outline

This screen allows a JOG operation test to be conducted.

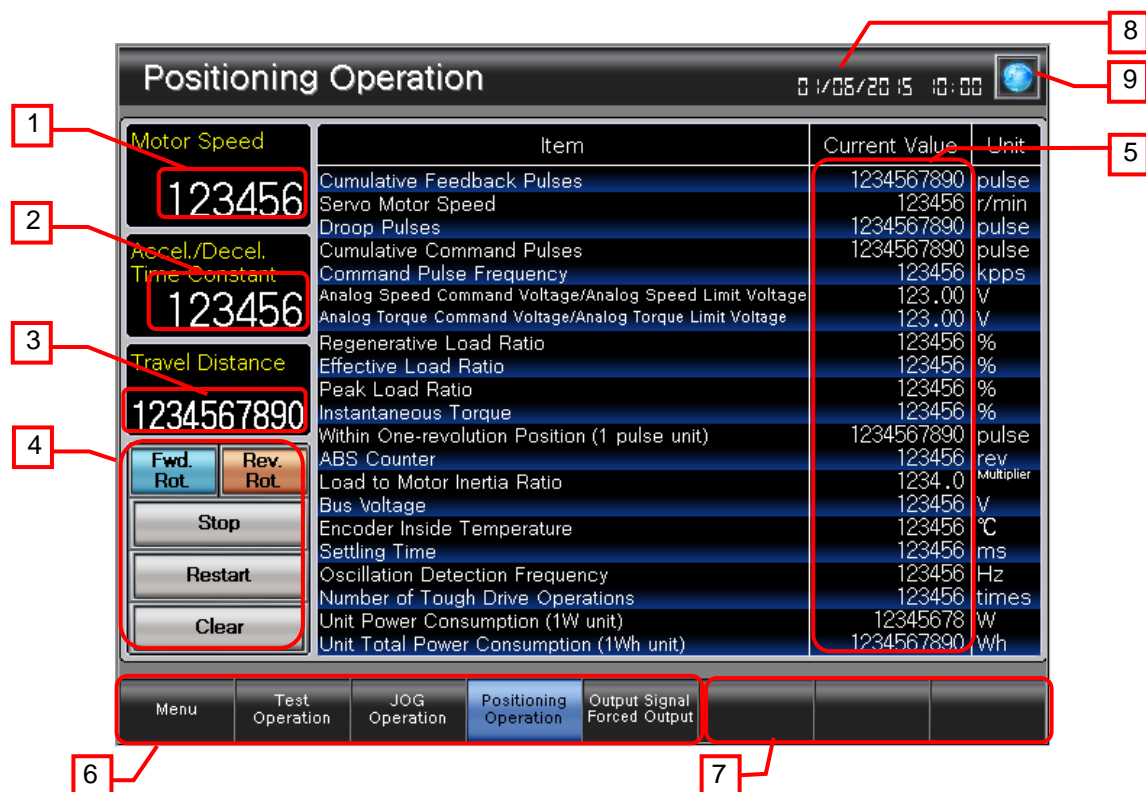
Description

1. Sets the motor speed.
2. Sets the Acceleration/Deceleration Time Constant.
3. 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.
4. Displays the current values of each item.
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. Displays the current date and time. Touch the button to open the [Clock Setting] window.
8. Opens the [Language Setting] window.

Remarks

- Object scripts are set for the numerical inputs of [Motor Speed] and [Accel./Decel. Time Constant], and also for the switches of [Fwd. Rot.] and [Rev. Rot.]. For more details about scripts, please refer to "5.6 Script List".
- Closes the currently displayed window when switching base screens.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the alarm message, the [Alarm Reset] window appears.

5.3.31 Positioning Operation (B-30095)



Outline

This screen allows a positioning operation test to be conducted.

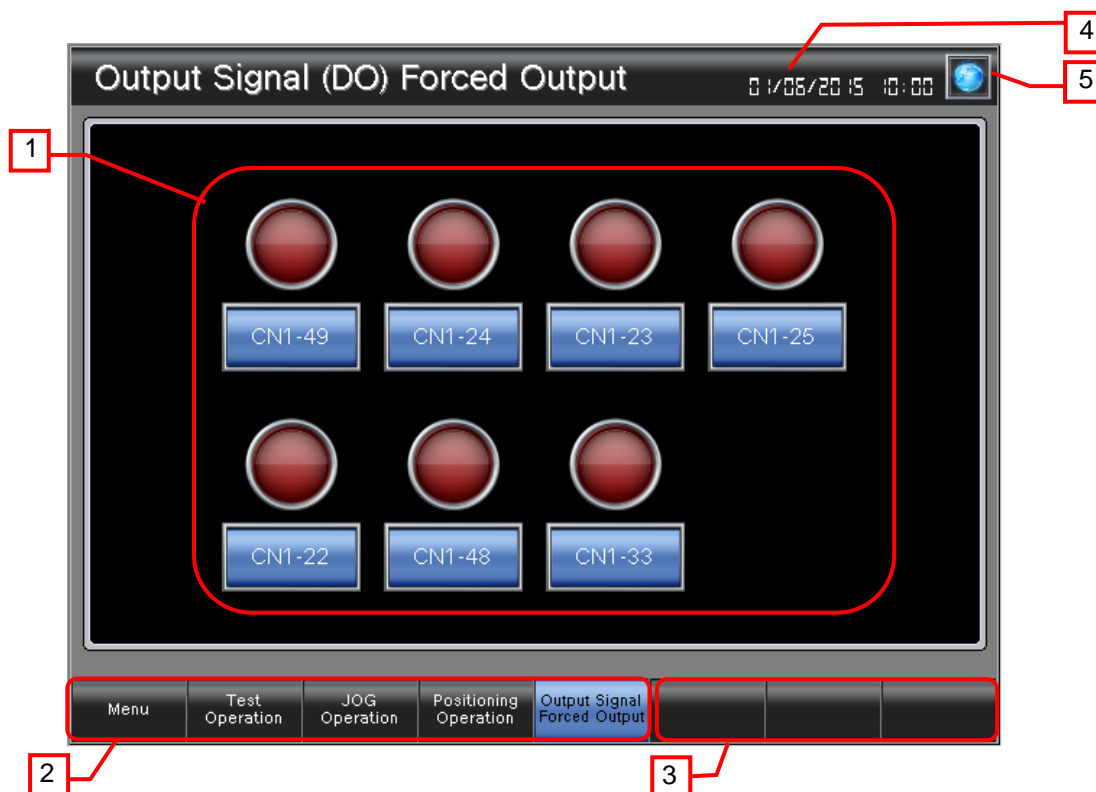
Description

1. Sets the motor speed.
2. Sets the acceleration/deceleration time constant.
3. Sets the travel distance.
4. 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.
5. Displays the current values of each item.
6. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
7. Shows unused switches for base screen switching.
8. Displays the current date and time. Touch the button to open the [Clock Setting] window.
9. Opens the [Language Setting] window.

Remarks

- Object scripts are set for the numerical inputs of [Motor Speed], [Accel./Decel. Time Constant] and [Travel Distance]. For more details about scripts, please refer to "5.6 Script List".
- Closes the currently displayed window when switching base screens.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the alarm message, the [Alarm Reset] window appears.

5.3.32 Output Signal (DO) Forced Output (B-30099)



Outline

This screen allows forced output of output signals.

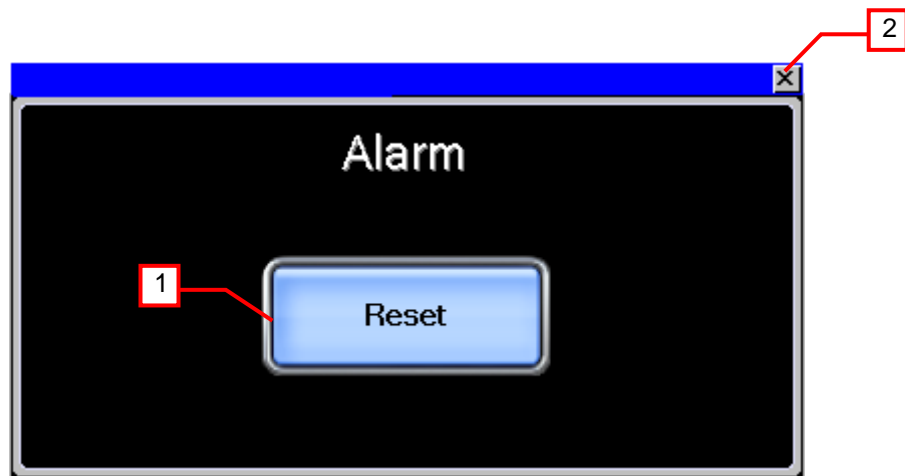
Description

1. Touch each switch for output signal (DO) forced output. Lamps light according to the output signals.
2. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
3. Shows unused switches for base screen switching.
4. Displays the current date and time. Touch the button to open the [Clock Setting] window.
5. Opens the [Language Setting] window.

Remarks

- Object scripts are set for the switches of output signals. For more details about scripts, please refer to "5.6 Script List".
- Closes the currently displayed window when switching base screens.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the alarm message, the [Alarm Reset] window appears.

5.3.33 Alarm Reset (W-30001)



Outline

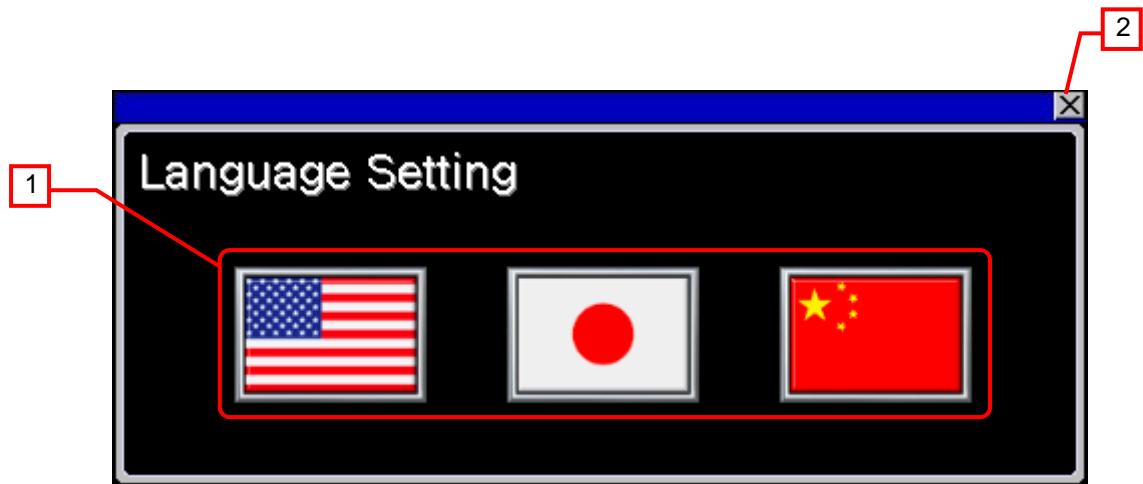
This window screen allows resetting the system alarm.

Description

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

Remarks

5.3.34 Language Setting (W-30002)



Outline

This window screen allows selecting the GOT language.

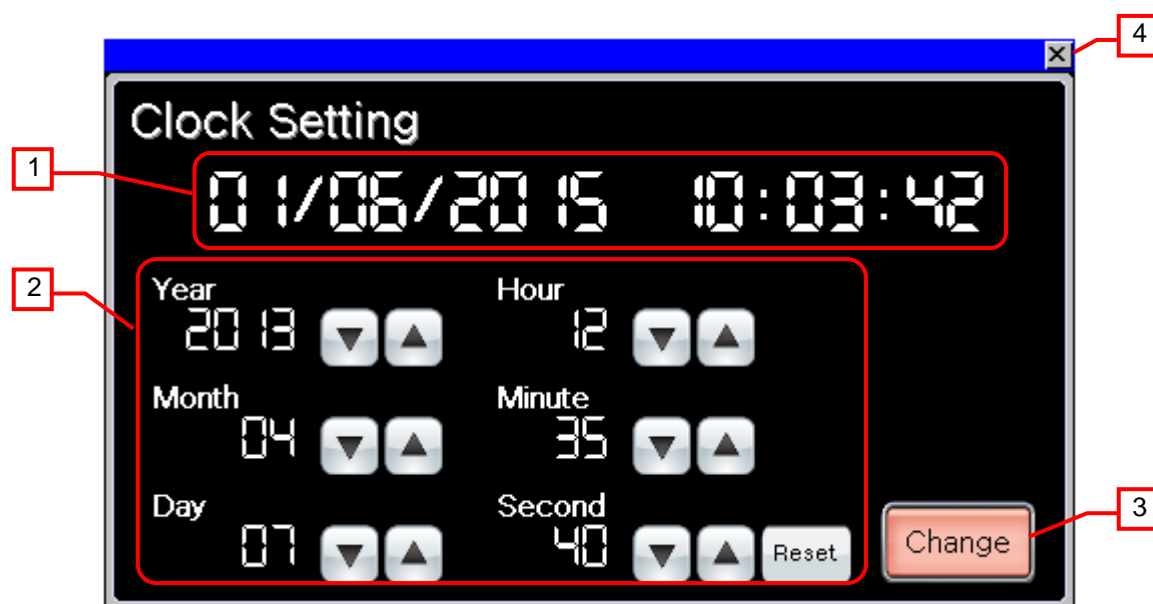
Description

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.

5.3.35 Clock Setting (W-30003)



Outline

This window screen allows changing the GOT clock data.

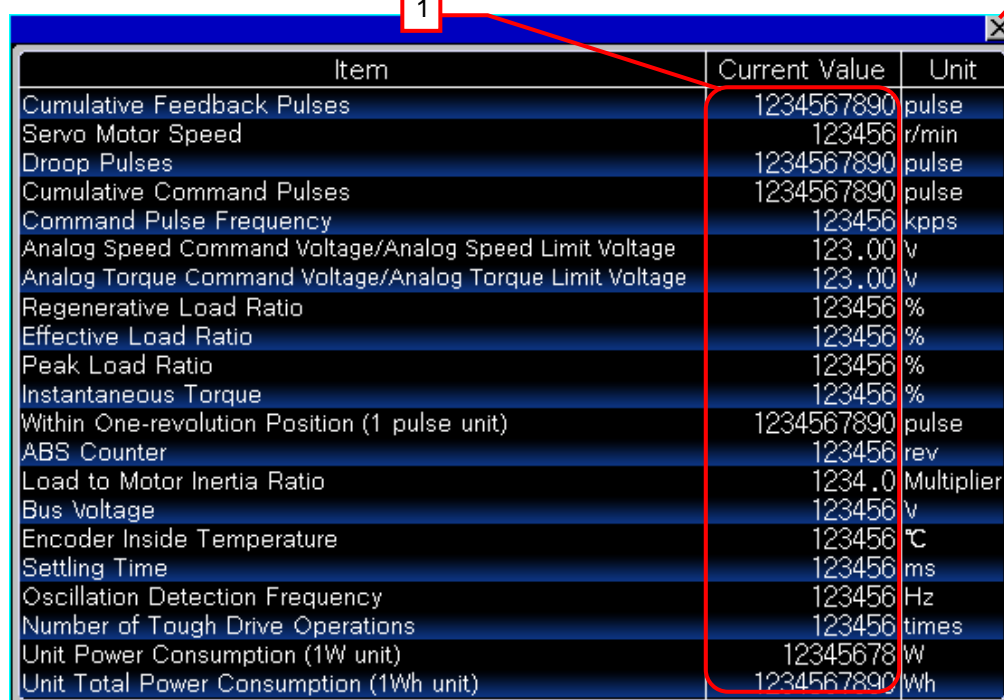
Description

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 "5.6 Script List".

5.3.36 Status Disp. at Alarm Occurrence (W-30011)



Item	Current Value	Unit
Cumulative Feedback Pulses	1234567890	pulse
Servo Motor Speed	123456	r/min
Droop Pulses	1234567890	pulse
Cumulative Command Pulses	1234567890	pulse
Command Pulse Frequency	123456	kpps
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 (1 pulse unit)	1234567890	pulse
ABS Counter	123456	rev
Load to Motor Inertia Ratio	1234.0	Multiplier
Bus Voltage	123456	v
Encoder Inside Temperature	123456	°C
Settling Time	123456	ms
Oscillation Detection Frequency	123456	Hz
Number of Tough Drive Operations	123456	times
Unit Power Consumption (1W unit)	12345678	W
Unit Total Power Consumption (1Wh unit)	1234567890	Wh

Outline

This window displays the status at alarm occurrence.

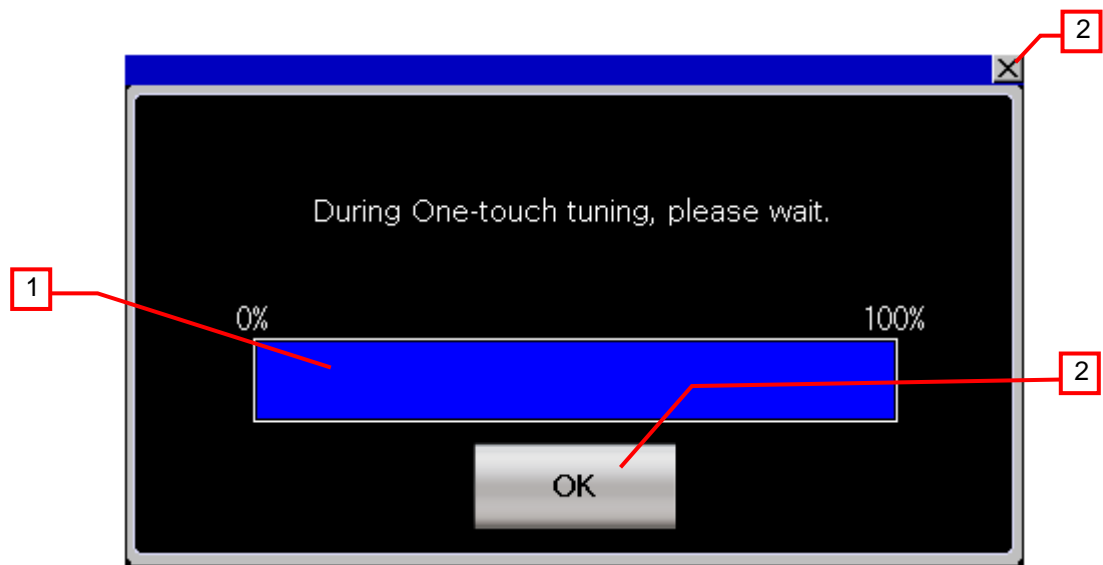
Description

1. Displays the current values of each item at alarm occurrence...
2. Closes the window.

Remarks

- This window displays when touching the [Status Display at Alarm Occurrence] switch in the [Alarm] screen (B-30031).

5.3.37 Disp progress of One-touch Tuning (W-30013)



Outline

Display the progress of one-touch tuning.

Description

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

Remarks

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	Symbol*1
Bit	SP1	Clear current alarm	-
	SP2	Clear alarm history	-
	OM0	Normal Mode (Test Operation Mode Clear)	-
	OM1	JOG Operation	-
	OM2	Positioning Operation	-
	OM4	Output Signal (DO) Forced Output	-
	TMB1	Stop Command	-
	TMB2	Start Command	-
	TMB3	Positioning Direction Selection (Fwd. Rot.)	-
	TMB4	Positioning Direction Selection (Rev. Rot.)	-
	TMB5	Restart	-
	TMB6	Clear	-
	OTI0	One-touch tuning (Basic mode)	-
	OTI1	One-touch tuning (High mode)	-
	OTI2	One-touch tuning (Low mode)	-
	OTI4	One-touch tuning (Reset to the initial value)	-
	OTI5	One-touch tuning (Reset before adjusting)	-
Word	PA01, PA1001	Operation Mode	*STY
	PA02, PA1002	Regenerative Option	*REG
	PA03, PA1003	Absolute Position Detection System	*ABS
	PA04, PA1004	Function Selection A-1	*AOP1
	PA05, PA1005	Number of Command Input Pulses per Revolution	*FBP
	PA06, PA1006	Electronic Gear Numerator	CMX
	PA07, PA1007	Electronic Gear Denominator	CDV
	PA08, PA1008	Auto Tuning Mode	ATU
	PA09, PA1009	Auto Tuning Response	RSP
	PA10, PA1010	In-position Range	INP
	PA11, PA1011	Forward Rotation Torque Limit	TLP
	PA12, PA1012	Reverse Rotation Torque Limit	TLN
	PA13, PA1013	Command Pulse Input Form	*PLSS
	PA14, PA1014	Rotation Direction Selection	*POL
	PA15, PA1015	Encoder Output Pulses	*ENR
	PA16, PA1016	Encoder Output Pulses 2	*ENR2
	PA19, PA1019	Parameter Writing Inhibit	*BLK
	PA20, PA1020	Tough Drive Setting	*TDS
	PA21, PA1021	Function Selection A-3	*AOP3
	PA23, PA1023	Drive Recorder Arbitrary Alarm Trigger Setting	DRAT
	PA24, PA1024	Function Selection A-4	AOP4
	PA25, PA1025	One-touch Tuning: Overshoot Permissible Level	OTHOV
	PB01, PB1001	Adaptive Tuning Mode (Adaptive Filter II)	FILT
	PB02, PB1002	Vibration Suppression Control Tuning Mode	VRFT
	PB03, PB1003	Position Command Accel./Decel. Time Constant	PST
	PB04, PB1004	Feed Forward Gain	FFC
	PB06, PB1006	Load to Motor Inertia Ratio	GD2
	PB07, PB1007	Model Loop Gain	PG1
	PB08, PB1008	Position Loop Gain	PG2
	PB09, PB1009	Speed Loop Gain	VG2
	PB10, PB1010	Speed Integral Compensation	VIC
	PB11, PB1011	Speed Differential Compensation	VDC
	PB12, PB1012	Overshoot Amount Compensation	OVA
	PB13, PB1013	Machine Resonance Suppression Filter 1	NH1
	PB14, PB1014	Notch Shape Selection 1	NHQ1
	PB15, PB1015	Machine Resonance Suppression Filter 2	NH2
	PB16, PB1016	Notch Shape Selection 2	NHQ2

Type	Device No.	Application	Symbol*1
Word	PB17, PB1017	Shaft Resonance Suppression Filter	NHF
	PB18, PB1018	Low-pass Filter Setting	LPF
	PB19, PB1019	Vibration Suppression Control 1: Vibration Freq.	VRF11
	PB20, PB1020	Vibration Suppression Control 1: Resonance Freq.	VRF12
	PB21, PB1021	Vib. Suppression Control 1: Vibration Freq. Damp	VRF13
	PB22, PB1022	Vib. Suppression Control 1: Resonance Freq. Damp	VRF14
	PB23, PB1023	Low-pass Filter Selection	VFBF
	PB24, PB1024	Slight Vibration Suppression Control	*MVS
	PB25, PB1025	Function Selection B-1	*BOP
	PB26, PB1026	Gain Switching Function	*CDP
	PB27, PB1027	Gain Switching Condition	CDL
	PB28, PB1028	Gain Switching Time Constant	CDT
	PB29, PB1029	Load to Motor Inertia Ratio after Gain Switching	GD2B
	PB30, PB1030	Position Loop Gain after Gain Switching	PG2B
	PB31, PB1031	Speed Loop Gain after Gain Switching	VG2B
	PB32, PB1032	Speed Integral Compensation after Gain Switching	VICB
	PB33, PB1033	Vib. Sup. Control 1: Vib. Freq. after Gain Switch	VRF1B
	PB34, PB1034	Vib. Sup. Control 1: Reso. Freq. after Gain Switch	VRF2B
	PB35, PB1035	Vib. Sup. Cont. 1: Vib. Freq. Damp after Gain Switch	VRF3B
	PB36, PB1036	Vib. Sup. Cont. 1: Reso. Freq. Damp after Gain Switch	VRF4B
	PB45, PB1045	Command Notch Filter	CNHF
	PB46, PB1046	Machine Resonance Suppression Filter 3	NH3
	PB47, PB1047	Notch Shape Selection 3	NHQ3
	PB48, PB1048	Machine Resonance Suppression Filter 4	NH4
	PB49, PB1049	Notch Shape Selection 4	NHQ4
	PB50, PB1050	Machine Resonance Suppression Filter 5	NH5
	PB51, PB1051	Notch Shape Selection 5	NHQ5
	PB52, PB1052	Vibration Suppression Control 2: Vibration Freq.	VRF21
	PB53, PB1053	Vibration Suppression Control 2: Resonance Freq.	VRF22
	PB54, PB1054	Vib. Suppression Control 2: Vibration Freq. Damping	VRF23
	PB55, PB1055	Vib. Suppression Control 2: Resonance Freq. Damping	VRF24
	PB56, PB1056	Vib. Sup. Control 2: Vib. Freq. after Gain Switch	VRF21B
	PB57, PB1057	Vib. Sup. Control 2: Reso. Freq. after Gain Switch	VRF22B
	PB58, PB1058	Vib. Sup. Cont. 2: Vib. Freq. Damp after Gain Switch	VRF23B
	PB59, PB1059	Vib. Sup. Cont. 2: Reso. Freq. Damp after Gain Switch	VRF24B
	PB60, PB1060	Model Loop Gain after Gain Switching	PG1B
	PC01, PC1001	Acceleration Time Constant	STA
	PC02, PC1002	Deceleration Time Constant	STB
	PC03, PC1003	S-pattern Acceleration/Deceleration Time Constant	STC
	PC04, PC1004	Torque Command Time Constant	TQC
	PC05, PC1005	Internal Speed Command 1 / Limit 1	SC1
	PC06, PC1006	Internal Speed Command 2 / Limit 2	SC2
	PC07, PC1007	Internal Speed Command 3 / Limit 3	SC3
	PC08, PC1008	Internal Speed Command 4 / Limit 4	SC4
	PC09, PC1009	Internal Speed Command 5 / Limit 5	SC5
	PC10, PC1010	Internal Speed Command 6 / Limit 6	SC6
	PC11, PC1011	Internal Speed Command 7 / Limit 7	SC7
	PC12, PC1012	Analog Speed Command - Maximum Speed	VCM
	PC13, PC1013	Analog Torque Command Maximum Output	TLC
	PC14, PC1014	Analog Monitor 1 Output	MOD1
	PC15, PC1015	Analog Monitor 2 Output	MOD2
	PC16, PC1016	Electromagnetic Brake Sequence Output	MBR
	PC17, PC1017	Zero Speed	ZSP
	PC18, PC1018	Alarm History Clear	*BPS
	PC19, PC1019	Encoder Output Pulse Selection	*ENRS
	PC20, PC1020	Station Number Setting	*SNO
	PC21, PC1021	RS-422 Communication Function Selection	*SOP
	PC22, PC1022	Function Selection C-1	*COP1
	PC23, PC1023	Function Selection C-2	*COP2
	PC24, PC1024	Function Selection C-3	*COP3

Type	Device No.	Application	Symbol*1
Word	PC26, PC1026	Function Selection C-5	*COP5
	PC27, PC1027	Function Selection C-6	*COP6
	PC30, PC1030	Acceleration Time Constant 2	STA2
	PC31, PC1031	Deceleration Time Constant 2	STB2
	PC32, PC1032	Command Pulse Multiplication Factor Numerator 2	CMX2
	PC33, PC1033	Command Pulse Multiplication Factor Numerator 3	CMX3
	PC34, PC1034	Command Pulse Multiplication Factor Numerator 4	CMX4
	PC35, PC1035	Internal Torque Limit 2	TL2
	PC36, PC1036	Status Display Selection	*DMD
	PC37, PC1037	Analog Speed Command Offset	VCO
	PC38, PC1038	Analog Torque Command Offset	TPO
	PC39, PC1039	Analog Monitor 1 Offset	MO1
	PC40, PC1040	Analog Monitor 2 Offset	MO2
	PC43, PC1043	Error Excessive Alarm Detection Level	ERZ
	PC51, PC1051	Forced Stop Deceleration Time Constant	RSBR
	PC54, PC1054	Vertical Axis Freefall Prevention Comp. Amount	RSUP1
	PC60, PC1060	Function Selection C-D	*COPD
	PD01, PD1001	Input Signal Automatic On Selection 1	*DIA1
	PD03, PD1003	Input Device Selection 1L	*DI1L
	PD04, PD1004	Input Device Selection 1H	*DI1H
	PD05, PD1005	Input Device Selection 2L	*DI2L
	PD06, PD1006	Input Device Selection 2H	*DI2H
	PD07, PD1007	Input Device Selection 3L	*DI3L
	PD08, PD1008	Input Device Selection 3H	*DI3H
	PD09, PD1009	Input Device Selection 4L	*DI4L
	PD10, PD1010	Input Device Selection 4H	*DI4H
	PD11, PD1011	Input Device Selection 5L	*DI5L
	PD12, PD1012	Input Device Selection 5H	*DI5H
	PD13, PD1013	Input Device Selection 6L	*DI6L
	PD14, PD1014	Input Device Selection 6H	*DI6H
	PD17, PD1017	Input Device Selection 8L	*DI8L
	PD18, PD1018	Input Device Selection 8H	*DI8H
	PD19, PD1019	Input Device Selection 9L	*DI9L
	PD20, PD1020	Input Device Selection 9H	*DI9H
	PD21, PD1021	Input Device Selection 10L	*DI10L
	PD22, PD1022	Input Device Selection 10H	*DI10H
	PD23, PD1023	Output Device Selection 1	*DO1
	PD24, PD1024	Output Device Selection 2	*DO2
	PD25, PD1025	Output Device Selection 3	*DO3
	PD26, PD1026	Output Device Selection 4	*DO4
	PD28, PD1028	Output Device Selection 6	*DO6
	PD29, PD1029	Input Filter Setting	*DIF
	PD30, PD1030	Function Selection D-1	*DOP1
	PD32, PD1032	Function Selection D-3	*DOP3
	PD34, PD1034	Function Selection D-5	*DOP5
	PE41, PE1041	Function Selection E-3	EOP3
	PF09, PF1009	Function Selection F-5	*FOP5
	PF15, PF1015	Electronic Dynamic Brake Operating Time	DBT
	PF21, PF1021	Drive Recorder Switching Time Setting	DRT
	PF23, PF1023	Vibration Tough Drive: Oscillation Detection Level	OSCL1
	PF24, PF1024	Vibration Tough Drive: Function Selection	*OSCL2
	PF25, PF1025	Instantaneous Power Failure Tough Drive: Detection Time	CVAT
	PF31, PF1031	Machine Diagnosis Function: Friction Judgement Speed	FRIC
	PL1, PL1001	Linear servo motor/DD motor function selection 1	*LIT1
	PL2, PL1002	Linear encoder resolution - Numerator	*LIM
	PL3, PL1003	Linear encoder resolution - Denominator	*LID
	PL4, PL1004	Linear servo motor/DD motor function selection 2	*LIT2
	PL5, PL1005	Position deviation error detection level	LB1
	PL6, PL1006	Speed deviation error detection level	LB2
	PL7, PL1007	Torque/thrust deviation error detection level	LB3

Type	Device No.	Application	Symbol*1
Word	PL8, PL1008	Linear servo motor/DD motor function selection 3	*LIT3
	PL9, PL1009	Magnetic pole detection voltage level	LPWM
	PL17, PL1017	Magnetic pole detection - Minute position detection method - Function selection	LTSTS
	PL18, PL1018	Magnetic pole detection - Minute position detection method - Identification signal amplitude	IDLV
	ST0	Cumulative Feedback Pulses	-
	ST1	Servo Motor Speed	-
	ST2	Droop Pulses	-
	ST3	Cumulative Command Pulses	-
	ST4	Command Pulse Frequency	-
	ST5	Analog Speed Command Voltage/Analog Speed Limit Voltage	-
	ST6	Analog Torque Command Voltage/Analog Torque Limit Voltage	-
	ST7	Regenerative Load Ratio	-
	ST8	Effective Load Ratio	-
	ST9	Peak Load Ratio	-
	ST10	Instantaneous Torque	-
	ST11	Within One-revolution Position (1 pulse unit)	-
	ST12	ABS Counter	-
	ST13	Load to Motor Inertia Ratio	-
	ST14	Bus Voltage	-
	ST32	Encoder Inside Temperature	-
	ST33	Settling Time	-
	ST34	Oscillation Detection Frequency	-
	ST35	Number of Tough Drive Operations	-
	ST40	Unit Power Consumption (1W unit)	-
	ST41	Unit Total Power Consumption (1Wh unit)	-
	ALM0	Current alarm number	-
	ALM1	Detailed data of current alarms	-
	ALM11	Servo status when alarm occurs, cumulative feedback pulses	-
	ALM12	Servo status when alarm occurs, servo motor speed	-
	ALM13	Servo status when alarm occurs, droop pulses	-
	ALM14	Servo status when alarm occurs, cumulative command pulses	-
	ALM15	Servo status when alarm occurs, command pulse frequency	-
	ALM16	Servo status when alarm occurs, analog speed command voltage/limit voltage	-
	ALM17	Servo status when alarm occurs, analog torque command voltage/limit voltage	-
	ALM18	Servo status when alarm occurs, regenerative load ratio	-
	ALM19	Servo status when alarm occurs, effective load ratio	-
	ALM20	Servo status when alarm occurs, peak load ratio	-
	ALM21	Servo status when alarm occurs, instantaneous torque	-
	ALM22	Servo states when alarm occurs, within one-revolution position (1 pulse unit)	-
	ALM23	Servo status when alarm occurs, ABS counter	-
	ALM24	Servo status when alarm occurs, load inertia moment ratio	-
	ALM25	Servo status when alarm occurs, bus voltage	-
	ALM43	Servo states when alarm occurs internal temperature of encoder	-
	ALM44	Servo states when alarm occurs setting time	-
	ALM45	Servo states when alarm occurs oscillation detection frequency	-
	ALM46	Servo states when alarm occurs number of tough drives	-
	ALM51	Servo states when alarm occurs unit power consumption 1 (increment of 1 W)	-

Type	Device No.	Application	Symbol*1
Word	ALM52	Servo states when alarm occurs unit total power consumption 1 (increment of 1 Wh)	-
	ALM200	Alarm number from alarm history most recent alarm	-
	ALM201	Alarm number from alarm history 1st alarm in past	-
	ALM202	Alarm number from alarm history 2nd alarm in past	-
	ALM203	Alarm number from alarm history 3rd alarm in past	-
	ALM204	Alarm number from alarm history 4th alarm in past	-
	ALM205	Alarm number from alarm history 5th alarm in past	-
	ALM206	Alarm number from alarm history 6th alarm in past	-
	ALM207	Alarm number from alarm history 7th alarm in past	-
	ALM208	Alarm number from alarm history 8th alarm in past	-
	ALM220	Alarm occurrence time in alarm history most recent alarm	-
	ALM221	Alarm occurrence time in alarm history 1st alarm in past	-
	ALM222	Alarm occurrence time in alarm history 2nd alarm in past	-
	ALM223	Alarm occurrence time in alarm history 3rd alarm in past	-
	ALM224	Alarm occurrence time in alarm history 4th alarm in past	-
	ALM225	Alarm occurrence time in alarm history 5th alarm in past	-
	ALM226	Alarm occurrence time in alarm history 6th alarm in past	-
	ALM227	Alarm occurrence time in alarm history 7th alarm in past	-
	ALM228	Alarm occurrence time in alarm history 8th alarm in past	-
	ALM240	Detailed alarm from alarm history most recent alarm	-
	ALM241	Detailed alarm from Alarm History 1st alarm in past	-
	ALM242	Detailed alarm from Alarm History 2nd alarm in past	-
	ALM243	Detailed alarm from Alarm History 3rd alarm in past	-
	ALM244	Detailed alarm from Alarm History 4th alarm in past	-
	ALM245	Detailed alarm from Alarm History 5th alarm in past	-
	ALM246	Detailed alarm from Alarm History 6th alarm in past	-
	ALM247	Detailed alarm from Alarm History 7th alarm in past	-
	ALM248	Detailed alarm from Alarm History 8th alarm in past	-
	DI0	Input Device Status	-
	DI1	External input pin status	-
	DO0	Output Device Status	-
	DO1	External output pin status	-
	TMI0	Input Signal when Test Operation 1	-
	TMO0	Forced Output of Signal pin	-
	TMD0	Test operation mode data (motor speed)	-
	TMD1	Test operation mode data (acceleration/deceleration time constant)	-
	TMD3	Test operation mode data (travel distance)	-
	MD3	Machine Diagnosis Data when Forward Rotation Torque Static Friction Read	-
	MD4	Machine Diagnosis Data when Forward Rotation Torque Dynamic friction(Rated Speed)	-
	MD5	Machine Diagnosis Data when Reverse Rotation Torque Static Friction Read	-
	MD6	Machine Diagnosis Data when Reverse Rotation Torque Dynamic friction(Rated Speed)	-
	MD7	Machine Diagnosis Data, Vibration Freq. Read when Stop/Servo lock	-
	MD8	Machine Diagnosis Data, Vibration level Read when Stop/Servo lock	-
	MD9	Machine Diagnosis Data, Vibration Freq. Read when Running	-
	MD10	Machine Diagnosis Data, Vibration level Read when Running	-
	MD11	Machine Diagnosis Data, Rated Speed Read	-
	OTS0	One-touch Tuning Status Confirm Read	-
	OTS1	Read Obtain of Error code	-
	OTS2	Read of Provisional time	-
	OTS3	Overshoot Quantity Read	-

Type	Device No.	Application	Symbol*1
Word	ALD0	Cumulative energization time	-
	ALD1	The number of on/off times of the inrush relay	-

*1 The * starred parameters on the symbol, change its set value, then switch power off once and switch it on again to enable the new value.

5.4.2 GOT internal devices

Type	Device No.	Application
Bit	GB40	Always ON (Use in script trigger)
	GB60000	One-touch tuning start
	GD60031.b13	GOT error reset signal
	GD61051.b0	Current alarm display flag
	GD61053.b0 to GD61069.b0	Alarm history display flag
	GD61140.b0 to GD61140.b4	Gain adjustment input permission bit
	GD61207.b0	Forward rotation switch script trigger(JOG Operation)
	GD61209.b0	Reverse rotation switch script trigger(JOG Operation)
	GD61211.b0	Motor Speed, write completion & script trigger (JOG Operation)
	GD61213.b0	Acceleration/deceleration constant, write completion & script trigger (JOG Operation)
	GD61251.b0	Motor Speed, write completion & script trigger (Positioning Operation)
	GD61253.b0	Acceleration/Deceleration Time Constant, write completion & script trigger(Positioning Operation)
	GD61255.b0	Travel Distance, write completion & script trigger (Positioning Operation)
	GD61351.b0 to GD61351.b6	Output Signal (DO) Forced Output, touch switch & script trigger
	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
	GD60021	Language switching
	GD60022	System language switching
	GD60031, GD60031	System information
	GD60080 to GD60082	Document display
	GD61001 to GD61005	Diagnosis screen Lamp & Object Script Dummy device for Display
	GD61051 to GD61070	Alarm No. Store device, Alarm flag(Object Script)
	GD61130	Reply mode selection
	GD61140	Gain adjustment mode selection
	GD61151 to GD61164	Historical trend graph, Graph information
	GD61171 to GD61174	Historical trend graph, Cursor Position Time
	GD61175 to GD61178	Historical trend graph, Beginning Position Time
	GD61179 to GD61182	Historical trend graph, End Position Time
	GD61183 to GD61185	Historical trend graph, Display Position Time Specification
	GD61201	Motor speed_ Numerical input
	GD61203	Acceleration/Deceleration Time Constant_ Numerical input
	GD61205	Travel Distance_ Numerical input
	GD61351	Output signal lamp display
	GD63990 to GD63995	Clock Digital switch
	GS513 to GS516	Changed time
	GS650 to GS652	Current time

5.5 Comment List

Comment Group No.	Comment No.	Where comments are used
500	No.1	All base screens
	No.2	B-30001 to 30051, B-30091, B-30101, B-30102, B-30110
	No.3	B-30001
	No.4	B-30031, B-30102 to 30106
	No.6 to 8	B-30001
	No.9 to 16	B-30051
	No.17 to 20	B-30110
	No.21	B-30051 to 30065, B-30071 to 30083, B-30091 B-30101 to 30102, B-30110
	No.22 to 25	B-30053 to 30065
	No.26 to 27	B-30067 to 30069, B-30112
	No.28 to 31	B-30071 to 30083
	No.32 to 33	B-30085 to 30087, B-30114
	No.34 to 35	B-30091 to 30099
	No.37	B-30099
	No.38	B-30093 to 30099
	No.39	B-30011 to 30087, B-30101 to 30500
	No.40	B-30053 to 30069
	No.41	B-30071 to 30087, B-30114
	No.42	B-30031, B-30102 to 30106, B-30500
	No.43	B-30071 to 30087, B-30114
	No.44	B-30053 to 30069, B-30112
	No.45	B-30051
	No.46	B-30091
	No.47	B-30093
	No.48	B-30095
	No.49	B-30091
	No.50	B30051, B-30091 to 30102, B-30110
	No.51 to 53	B-30053 to 30087, B-30112 to 30114
	No.54	B-30011, B-30093 to 30095, W-30011
	No.55	B-30053 to 30087, B-30112 to 30114
	No.56	B-30011, B-30093 to 30095, W-30011
	No.57	B-30011, B-30053 to 30087, B-30093 to 30095, B-30112 to 30114, W-30011
	No 58	B-30053 to 30087, B-30112 to 30114
	No.59	B-30011, B-30053, B-30071, B-30093 to 30095, W-30011
	No.60	B-30011, B-30060, B-30069, B-30078, B-30087, B-30093 to 30095, W-30011
	No.61 to 62	B-30011, B-30093 to 30095, W-30011
	No.63	B-30011, B-30053 to 30079, B-30087 B-30093 to 30095, B-30112 to 30114, W-30011
	No.64	B-30011, B-30061, B-30079, B-30093 to 30095, W-30011
	No.65	B-30011, B-30056 to 30057, B-30074 to 30075, B-30093 to 30095, W-30011
	No.66	B-30011, B-30093 to 30095, W-30011
	No.67	B-30011, B-30056 to 30057, B-30060 to 30061, B-30069, B-30074 to 30075, B-30078 to 30079, B-30087, B-30093 to 30095, W-30011
	No.68	B-30011, B-30056 to 30058, B-30074 to 30076, B-30093 to 30095, W-30011
	No.69 to 71	B-30011, B-30093 to 30095, W-30011
	No.72	B-30053, B-30071
	No.73	B-30056 to 30058, B-30074 to 30076
	No.74	B-30060, B-30078
	No.75 to 76	B-30061, B-30079

Comment Group No.	Comment No.	Where comments are used
500	No.77	B-30051, B-30067 to 30069, B-30085 to 30091, B-30101 to 30102, B-30110 to 30114
	No.78	B-30110
	No.79	B-30001
	No.80	B-30067 to 30069, B-30112
	No.81	B-30085 to 30089, B-30114
	No.82	B-30112 to 30114
	No.83	B-30051, B-30091, B-30101, B-30102, B-30110
	No.101 to 121	B-30011, B-30093 to 30095, W-30011
	No.151 to 206	B-30021
	No.251 to 252	B-30031
	No.253	B-30031, B-30103 to 30106, B-30500
	No.254 to 343	B-30031
	No.351 to 380	B-30041
	No.401	B-30053
	No.402	B-30054
	No.403	B-30071
	No.404	B-30072
	No.405 to 424	B-30053, B-30071
	No.425 to 426	B-30054, B-30072
	No.427 to 446	B-30053, B-30071
	No.447 to 448	B-30054, B-30072
	No.449 to 468	B-30053, B-30071
	No.469 to 470	B-30054, B-30072
	No.501	B-30056
	No.502	B-30057
	No.503	B-30058, B-30076, B-30106
	No.504	B-30074
	No.505	B-30075
	No.506	B-30076
	No.507 to 526	B-30056, B-30074
	No.527 to 546	B-30057, B-30075
	No.547 to 557	B-30058, B-30076
	No.558 to 577	B-30056, B-30074
	No.578 to 597	B-30057, B-30075
	No.598 to 608	B-30058, B-30076
	No.609 to 628	B-30056, B-30074
	No.629 to 648	B-30057, B-30075
	No.649 to 659	B-30058, B-30076
	No.701	B-30060
	No.702	B-30061
	No.703	B-30062
	No.704	B-30078
	No.705	B-30079
	No.706	B-30080
	No.707 to 726	B-30060, B-30078
	No.727 to 746	B-30061, B-30079
	No.747	B-30062, B-30080
	No.748 to 767	B-30060, B-30078
	No.768 to 787	B-30061, B-30079
	No.788	B-30062, B-30080
	No.789 to 808	B-30060, B-30078
	No.809 to 828	B-30061, B-30079
	No.829	B-30062, B-30080
	No.851	B-30064
	No.852	B-30065
	No.853	B-30082
	No.854	B-30083
	No.855 to 874	B-30064, B-30082
	No.875 to 882	B-30065, B-30083

Comment Group No.	Comment No.	Where comments are used
500	No.883 to 902	B-30064, B-30082
	No.903 to 910	B-30065, B-30083
	No.911 to 930	B-30064, B-30082
	No.931 to 938	B-30065, B-30083
	No.951	B-30067
	No.952	B-30085
	No.953 to 955	B-30067, B-30085
	No.1001	B-30069
	No.1002	B-30087
	No.1003 to 1023	B-30069, B-30087
	No.1051 to 1052	B-30093 to 30095
	No.1053 to 1054	B-30093
	No.1101 to 1106	B-30095
	No.1151 to 1157	B-30099
	No.1201	W-30002
	No.1251 to 1260	W-30003
	No.1301 to 1302	W-30001
	No.1351	B-30101
	No.1352 to 1354	B-30011, B-30021, B-30041, B-30101
	No.1356	B-30102
	No.1357 to 1359	B-30011, B-30021, B-30041
	No.1360 to 1363	B-30031, B-30103 to 30106, B-30500
	No.1501 to 1504	B-30031, B-30102 to 30106
	No.1551 to 1571	B-30103
	No.1601 to 1617	B-30104
	No.1651 to 1666	B-30105
	No.1701 to 1712	B-30106
	No.1751	B-30112
	No.1752	B-30114
	No.1758 to 1795	B-30112, B-30114
	No.1796 to 1797	B-30110
	No.1801 to 1802	W-30013

5.6 Script List

Item	Settings
Project script	Specified
Screen script	B-30041, B-30103, B-30104, B-30500
Object script	B-30021, B-30031, B-30093, B-30095, B-30099, B-30500, W-30003

5.6.1 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:GD61130]=2; //One-touch tuning initial selection (basic mode)			

5.6.2 Screen Script

Base Screen 30041

Script No.	30002	Script name	Script30002
Comment	Obtain Present Time		
Data type	Unsigned BIN16	Trigger type	Rise GB40
//Store Year, Month, Day, Hour, Minute, Second When Screen Is Displayed [w:GD61183]=[w:GS650]; [w:GD61184]=[w:GS651]; [w:GD61185]=[w:GS652];			

Base Screen 30103

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 30104

Script No.	30115	Script name	Script30115
Comment	Reply mode selection		
Data type	Signed BIN16	Trigger type	Rise GB60000
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;
}

```

Base Screen 30500

Script No.	30003	Script name	Script30003
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]>[w:GD60082]){ //Set the last page to display. [w:GD60081]=[w:GD60082]; } } </pre>			

5.6.3 Object Script

Base Screen 30021

Object	Word Lamp(STAB2)	Object ID *1	10059
Script user ID	1		
Data type	Unsigned BIN16	Trigger type	Ordinary
<pre> [u32:TMP0800] = [0-100:u32:DI0] & 0x00100000; //Calculate bit20 of DI0 with logical conjunction and store it in TMP [w:GD61001] = [u32:TMP0800] >> 20; //Shift TMP right by 20 and store it in GD61001 </pre>			
Object	Word Lamp(CDP)	Object ID *1	10060
Script user ID	2		
Data type	Unsigned BIN16	Trigger type	Ordinary
<pre> [u32:TMP0801] = [0-100:u32:DI0] & 0x08000000; //Calculate bit27 of DI0 with logical conjunction and store it in TMP [w:GD61002] = [u32:TMP0801] >> 27; //Shift TMP right by 27 and store it in GD61002 </pre>			
Object	Word Lamp(CDPS)	Object ID *1	10057
Script user ID	3		
Data type	Unsigned BIN16	Trigger type	Ordinary
<pre> [u32:TMP0802] = [0-100:u32:DO0] & 0x02000000; //Calculate bit25 of DI0 with logical conjunction and store it in TMP [w:GD61003] = [u32:TMP0802] >> 25; //Shift TMP right by 25 and store it in GD61003 </pre>			
Object	Word Lamp(ABSV)	Object ID *1	10058
Script user ID	4		
Data type	Unsigned BIN16	Trigger type	Ordinary
<pre> [u32:TMP0803] = [0-100:u32:DO0] & 0x08000000; //Calculate bit27 of DI0 with logical conjunction and store it in TMP [w:GD61004] = [u32:TMP0803] >> 27; //Shift TMP right by 27 and store it in GD61004 </pre>			
Object	Word Lamp(MTTR)	Object ID *1	10116
Script user ID	5		
Data type	Unsigned BIN16	Trigger type	Ordinary
<pre> [u32:TMP0804] = [0-100:u32:DO0] & 0x80000000; //Calculate bit31 of DI0 with logical conjunction and store it in TMP [w:GD61005] = [u32:TMP0804] >> 31; //Shift TMP right by 31 and store it in GD61005 </pre>			

Base Screen 30031

Object	Word Lamp(Alarm)	Object ID *1	10060
Script user ID	1		
Data type	Unsigned BIN16	Trigger type	Ordinary
[w:GD61052] = [0-100:w:ALM0]; //Store Alarm No. in GD Device //If Alarm No. Is as Mentioned Below if([w:GD61052] == 234 [w:GD61052] == 235 [w:GD61052] == 236 [w:GD61052] == 237 [w:GD61052] == 240 [w:GD61052] == 242 [w:GD61052] == 243){ [w:GD61051] = 1; //If Alarm No. Is as Mentioned Otherwise }else{ [w:GD61051] = 0; } 			
Object	Word comment Display(Alarm)	Object ID *1	10061
Script user ID	2		
Data type	Unsigned BIN16	Trigger type	Fall GD61051.b0
if([b:GD61051.b0] == OFF){ clear_object(); } //If Indicated Trigger Is OFF //Clear Objects			
Object	Word Lamp(Latest)	Object ID *1	10064
Script user ID	3		
Data type	Unsigned BIN16	Trigger type	Ordinary
[w:GD61054] = [0-100:w:ALM200]; //Store Alarm No. in GD Device //If Alarm No. Is as Mentioned Below if([w:GD61054] == 234 [w:GD61054] == 235 [w:GD61054] == 236 [w:GD61054] == 237 [w:GD61054] == 240 [w:GD61054] == 242 [w:GD61054] == 243){ [w:GD61053] = 1; //If Alarm No. Is as Mentioned Otherwise }else{ [w:GD61053] = 0; } 			
Object	Word comment Display (Latest)	Object ID *1	10065
Script user ID	4		
Data type	Unsigned BIN16	Trigger type	Fall GD61053.b0
if([b:GD61053.b0] == OFF){ clear_object(); } //If Indicated Trigger Is OFF //Clear Objects			
Object	Word Lamp (1st)	Object ID *1	10067
Script user ID	5		
Data type	Unsigned BIN16	Trigger type	Ordinary
[w:GD61056] = [0-100:w:ALM201]; //Store Alarm No. in GD Device //If Alarm No. Is as Mentioned Below if([w:GD61056] == 234 [w:GD61056] == 235 [w:GD61056] == 236 [w:GD61056] == 237 [w:GD61056] == 240 [w:GD61056] == 242 [w:GD61056] == 243){ [w:GD61055] = 1; //If Alarm No. Is as Mentioned Otherwise }else{ [w:GD61055] = 0; } 			
Object	Word comment Display (1st)	Object ID *1	10068
Script user ID	6		
Data type	Unsigned BIN16	Trigger type	Fall GD61055.b0
if([b:GD61055.b0] == OFF){ clear_object(); } //If Indicated Trigger Is OFF //Clear Objects			

Object	Word Lamp (2st)	Object ID *1	10069
Script user ID	7		
Data type	Unsigned BIN16	Trigger type	Ordinary
[w:GD61058] = [0-100:w:ALM202]; //Store Alarm No. in GD Device //If Alarm No. Is as Mentioned Below if([w:GD61058] == 234 [w:GD61058] == 235 [w:GD61058] == 236 [w:GD61058] == 237 [w:GD61058] == 240 [w:GD61058] == 242 [w:GD61058] == 243){ [w:GD61057] = 1; //If Alarm No. Is as Mentioned Otherwise }else{ [w:GD61057] = 0; } 			
Object	Word comment Display (2st)	Object ID *1	10070
Script user ID	8		
Data type	Unsigned BIN16	Trigger type	Fall GD61057.b0
if([b:GD61057.b0] == OFF){ clear_object(); } //If Indicated Trigger Is OFF //Clear Objects			
Object	Word Lamp (3st)	Object ID *1	10071
Script user ID	9		
Data type	Unsigned BIN16	Trigger type	Ordinary
[w:GD61060] = [0-100:w:ALM203]; //Store Alarm No. in GD Device //If Alarm No. Is as Mentioned Below if([w:GD61060] == 234 [w:GD61060] == 235 [w:GD61060] == 236 [w:GD61060] == 237 [w:GD61060] == 240 [w:GD61060] == 242 [w:GD61060] == 243){ [w:GD61059] = 1; //If Alarm No. Is as Mentioned Otherwise }else{ [w:GD61059] = 0; } 			
Object	Word comment Display (3st)	Object ID *1	10072
Script user ID	10		
Data type	Unsigned BIN16	Trigger type	Fall GD61059.b0
if([b:GD61059.b0] == OFF){ clear_object(); } //If Indicated Trigger Is OFF //Clear Objects			
Object	Word Lamp (4st)	Object ID *1	10073
Script user ID	11		
Data type	Unsigned BIN16	Trigger type	Ordinary
[w:GD61062] = [0-100:w:ALM204]; //Store Alarm No. in GD Device //If Alarm No. Is as Mentioned Below if([w:GD61062] == 234 [w:GD61062] == 235 [w:GD61062] == 236 [w:GD61062] == 237 [w:GD61062] == 240 [w:GD61062] == 242 [w:GD61062] == 243){ [w:GD61061] = 1; //If Alarm No. Is as Mentioned Otherwise }else{ [w:GD61061] = 0; } 			
Object	Word comment Display (4st)	Object ID *1	10074
Script user ID	12		
Data type	Unsigned BIN16	Trigger type	Fall GD61061.b0
if([b:GD61061.b0] == OFF){ clear_object(); } //If Indicated Trigger Is OFF //Clear Objects			

Object	Word Lamp (5st)	Object ID *1	10075
Script user ID	13		
Data type	Unsigned BIN16	Trigger type	Ordinary
[w:GD61064] = [0-100:w:ALM205]; //Store Alarm No. in GD Device //If Alarm No. Is as Mentioned Below if([w:GD61064] == 234 [w:GD61064] == 235 [w:GD61064] == 236 [w:GD61064] == 237 [w:GD61064] == 240 [w:GD61064] == 242 [w:GD61064] == 243){ [w:GD61063] = 1; //If Alarm No. Is as Mentioned Otherwise }else{ [w:GD61063] = 0; } 			
Object	Word comment Display (5st)	Object ID *1	10076
Script user ID	14		
Data type	Unsigned BIN16	Trigger type	Fall GD61063.b0
if([b:GD61063.b0] == OFF){ clear_object(); } //If Indicated Trigger Is OFF //Clear Objects			
Object	Word Lamp (6st)	Object ID *1	10077
Script user ID	15		
Data type	Unsigned BIN16	Trigger type	Ordinary
[w:GD61066] = [0-100:w:ALM206]; //Store Alarm No. in GD Device //If Alarm No. Is as Mentioned Below if([w:GD61066] == 234 [w:GD61066] == 235 [w:GD61066] == 236 [w:GD61066] == 237 [w:GD61066] == 240 [w:GD61066] == 242 [w:GD61066] == 243){ [w:GD61065] = 1; //If Alarm No. Is as Mentioned Otherwise }else{ [w:GD61065] = 0; } 			
Object	Word comment Display (6st)	Object ID *1	10078
Script user ID	16		
Data type	Unsigned BIN16	Trigger type	Fall GD61065.b0
if([b:GD61065.b0] == OFF){ clear_object(); } //If Indicated Trigger Is OFF //Clear Objects			
Object	Word Lamp (7st)	Object ID *1	10079
Script user ID	17		
Data type	Unsigned BIN16	Trigger type	Ordinary
[w:GD61068] = [0-100:w:ALM207]; //Store Alarm No. in GD Device //If Alarm No. Is as Mentioned Below if([w:GD61068] == 234 [w:GD61068] == 235 [w:GD61068] == 236 [w:GD61068] == 237 [w:GD61068] == 240 [w:GD61068] == 242 [w:GD61068] == 243){ [w:GD61067] = 1; //If Alarm No. Is as Mentioned Otherwise }else{ [w:GD61067] = 0; } 			
Object	Word comment Display (7st)	Object ID *1	10080
Script user ID	18		
Data type	Unsigned BIN16	Trigger type	Fall GD61067.b0
if([b:GD61067.b0] == OFF){ clear_object(); } //If Indicated Trigger Is OFF //Clear Objects			

Object	Word Lamp (8st)	Object ID *1	10081
Script user ID	19		
Data type	Unsigned BIN16	Trigger type	Ordinary
[w:GD61070] = [0-100:w:ALM208]; //Store Alarm No. in GD Device //If Alarm No. Is as Mentioned Below if([w:GD61070] == 234 [w:GD61070] == 235 [w:GD61070] == 236 [w:GD61070] == 237 [w:GD61070] == 240 [w:GD61070] == 242 [w:GD61070] == 243){ [w:GD61069] = 1; //If Alarm No. Is as Mentioned Otherwise }else{ [w:GD61069] = 0; } }			
Object	Word comment Display (8st)	Object ID *1	10082
Script user ID	20		
Data type	Unsigned BIN16	Trigger type	Fall GD61069.b0
if([b:GD61069.b0] == OFF){ clear_object(); } //If Indicated Trigger Is OFF //Clear Objects			

Base Screen 30093

Object	Numerical input (Motor Speed)	Object ID *1	10008
Script user ID	1		
Data type	Unsigned BIN32	Trigger type	Rise GD61211.b0
[0-100:u32:TMD0] = [w:GD61201]; //SUBSTITUTE GD61201 VALUE IN TMD0 DEVICE [b:GD61211.b0] = OFF; //Switch Trigger OFF			
Object	Numerical input (Accel./Decel. Time Constant)	Object ID *1	10009
Script user ID	2		
Data type	Unsigned BIN32	Trigger type	Rise GD61213.b0
[0-100:u32:TMD1] = [w:GD61203]; //SUBSTITUTE GD61203 VALUE IN TMD1 DEVICE [b:GD61213.b0] = OFF; //Switch Trigger OFF			
Object	Switch (Fwd. Rot.)	Object ID *1	10013
Script user ID	3		
Data type	Unsigned BIN16	Trigger type	Rise/Fall GD61217.b0
if([b:GD61207.b0] == ON){ [0-100:u32:TMI0] = 2049; }else{ [0-100:u32:TMI0] = 1; } //When Trigger Signal Rises //Input 2049(0x0801) to TMI0 Device //When Trigger Signal Falls // Input 1(0x0001) to TMI0 Device			
Object	Switch (Rev. Rot.)	Object ID *1	10012
Script user ID	4		
Data type	Unsigned BIN16	Trigger type	Rise/Fall GD61219.b0
if([b:GD61209.b0] == ON){ [0-100:u32:TMI0] = 4097; }else{ [0-100:u32:TMI0] = 1; } //When Trigger Signal Rises // Input 4097(0x1001) to TMI0 Device //When Trigger Signal Falls // Input 1(0x0001) to TMI0 Device			

Base Screen 30095

Object	Numerical input (Motor Speed)	Object ID *1	10012
Script user ID	1		
Data type	Unsigned BIN32	Trigger type	Rise GD61251.b0
[0-100:u32:TMD0] = [w:GD61201]; //SUBSTITUTE GD61201 VALUE IN TMD0 DEVICE [b:GD61251.b0] = OFF; //Switch Trigger OFF			

Object	Numerical input (Accel./Decel. Time Constant)	Object ID *1	10013
Script user ID	2		
Data type	Unsigned BIN32	Trigger type	Rise GD61253.b0
[0-100:u32:TMD1] = [w:GD61203]; //SUBSTITUTE GD61203 VALUE IN TMD1 DEVICE [b:GD61253.b0] = OFF; //Switch Trigger OFF			
Object	Numerical input (Travel distance)	Object ID *1	10014
Script user ID	3		
Data type	Unsigned BIN32	Trigger type	Rise GD61255.b0
[0-100:u32:TMD3] = [w:GD61205]; // Substitute GD61205 Value in TMD3 Device [b:GD61255.b0] = OFF; //Switch Trigger OFF			

Base Screen 30099

Object	Switch (CN1-49)	Object ID *1	10008
Script user ID	1		
Data type	Unsigned BIN16	Trigger type	Rise/Fall GD61351.b0
[0-100:u32:TMO0] = [w:GD61351]; //STORE GD61351 VALUE IN TMO0			
Object	Switch (CN1-24)	Object ID *1	10009
Script user ID	2		
Data type	Unsigned BIN16	Trigger type	Rise/Fall GD61351.b1
[0-100:u32:TMO0] = [w:GD61351]; //STORE GD61351 VALUE IN TMO0			
Object	Switch (CN1-23)	Object ID *1	10010
Script user ID	3		
Data type	Unsigned BIN16	Trigger type	Rise/Fall GD61351.b2
[0-100:u32:TMO0] = [w:GD61351]; //STORE GD61351 VALUE IN TMO0			
Object	Switch (CN1-25)	Object ID *1	10011
Script user ID	4		
Data type	Unsigned BIN16	Trigger type	Rise/Fall GD61351.b3
[0-100:u32:TMO0] = [w:GD61351]; //STORE GD61351 VALUE IN TMO0			
Object	Switch (CN1-22)	Object ID *1	10012
Script user ID	5		
Data type	Unsigned BIN16	Trigger type	Rise/Fall GD61351.b4
[0-100:u32:TMO0] = [w:GD61351]; //STORE GD61351 VALUE IN TMO0			
Object	Switch (CN1-48)	Object ID *1	10013
Script user ID	6		
Data type	Unsigned BIN16	Trigger type	Rise/Fall GD61351.b5
[0-100:u32:TMO0] = [w:GD61351]; //STORE GD61351 VALUE IN TMO0			
Object	Switch (CN1-33)	Object ID *1	10014
Script user ID	7		
Data type	Unsigned BIN16	Trigger type	Rise/Fall GD61351.b6
[0-100:u32:TMO0] = [w:GD61351]; //STORE GD61351 VALUE IN TMO0			

Base screen 30500

Object	Switch	Object ID *1	20039
Script user ID	1		
Data type	Signed BIN16	Trigger type	Device Writing
//Do not exceed the total number of the document pages. if([u16:GD60081] >= [u16:GD60082]){ [u16:GD60081] = [u16:GD60082] - 1; } 			

Window Screen 30003

Object	Numerical Display (Year)	Object ID *1	10018
Script user ID	1		
Data type	Unsigned BIN16	Trigger type	Rise, GB40
//Obtain Today's Year & Month from Clock Data [w:TMP950] = [w:GS650] & 0xF000; //Obtain Tenths Digit of "Last 2-Digits of Year" from Clock Data for Setting [w:TMP960] = [w:TMP950] >> 12; //Decimal Alignment [w:TMP968] = [w:TMP960] * 10; //BCD->BIN [w:TMP951] = [w:GS650] & 0x0F00; //Obtain Ones Digit of "Last 2-Digits of Year" from Clock Data for Setting [w:TMP961] = [w:TMP951] >> 8; //BCD->BIN [w:TMP973] = 2000 + [w:TMP968] + [w:TMP961]; //Set Year to TMP973 as BIN [w:GD63990] = [w:TMP973]; //Set Year [w:TMP952] = [w:GS650] & 0x00F0; //Obtain Tenths Digit of Month from Clock Data for Setting [w:TMP962] = [w:TMP952] >> 4; //Decimal Alignment [w:TMP969] = [w:TMP962] * 10; //BCD->BIN [w:TMP953] = [w:GS650] & 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] & 0xF000; //Obtain Tenths Digit of "Last 2-Digits of Day" from Clock Data for Setting [w:TMP963] = [w:TMP954] >> 12; //Decimal Alignment [w:TMP970] = [w:TMP963] * 10; //BCD->BIN [w:TMP955] = [w:GS651] & 0x0F00; //Obtain Ones Digit of "Last 2-Digits of Day" from Clock Data for Setting [w:TMP964] = [w:TMP955] >> 8; //BCD->BIN [w:TMP975] = [w:TMP970] + [w:TMP964]; //Set Day to TMP975 as BIN [w:GD63992] = [w:TMP975]; //Set Day [w:TMP956] = [w:GS651] & 0x00F0; //Obtain Tenths Digit of Hour from Clock Data for Setting [w:TMP965] = [w:TMP956] >> 4; //Decimal Alignment [w:TMP971] = [w:TMP965] * 10; //BCD->BIN [w:TMP957] = [w:GS651] & 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] & 0xF000; //Obtain Tenths Digit of "Last 2-Digits of Minute" from Clock Data for Setting [w:TMP966] = [w:TMP958] >> 12; //Decimal Alignment [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	10019
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	10020
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	10021
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	10022
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	10023
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

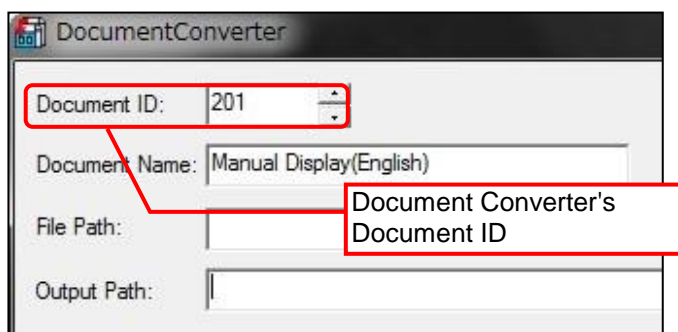
Manuals can be displayed using the document display function. For more details about the document display function, please refer to the "GT Designer3 (GOT2000) Help". Please note that the document display function does not support language switching. Therefore, in the sample screens, the language of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

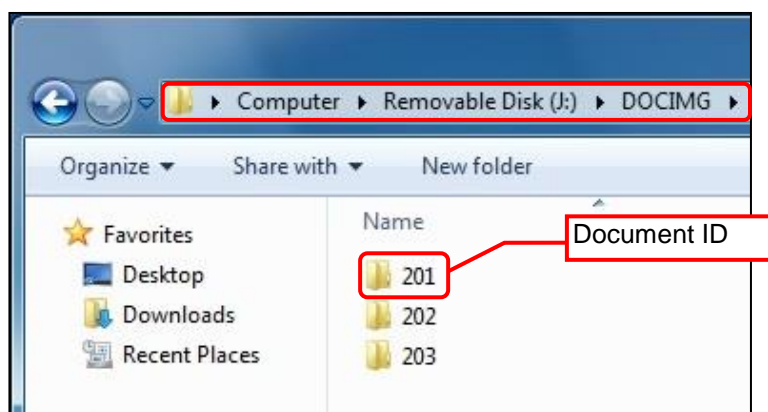
*For details of the relation between Document ID and Display language, please refer to the table below.



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.