

SMC Corporation Controller
LEC Series
LECP6

Sample Screen Manual

Mitsubishi Electric Corporation

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6. MANUAL DISPLAY69

6.1 Preparing Document Data for Manual Display69

REVISIONS

Sample Screen Manual

| Date | Control No.* | Description |
|--------|------------------|---|
| 2014/8 | BCN-P5999-0212 | First edition |
| 2015/2 | BCN-P5999-0212-2 | Device specification for Document ID supported Recipe process error display function, Device data process error display function added. |
| | | |
| | | |
| | | |
| | | |
| | | |

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

Project Data

| Date | Project data | GT Designer3* | Description |
|--------|------------------------|---------------|--|
| 2014/8 | SMC_LECP6_V_Ver1_E.GTX | 1.117X | First edition |
| 2015/2 | SMC_LECP6_V_Ver2_E.GTX | 1.126G | Device specification for Document ID supported Main monitor, parameters, statuses, etc. modified. Recipe process error display function, Device data process error display function added. |
| | | | |
| | | | |
| | | | |
| | | | |

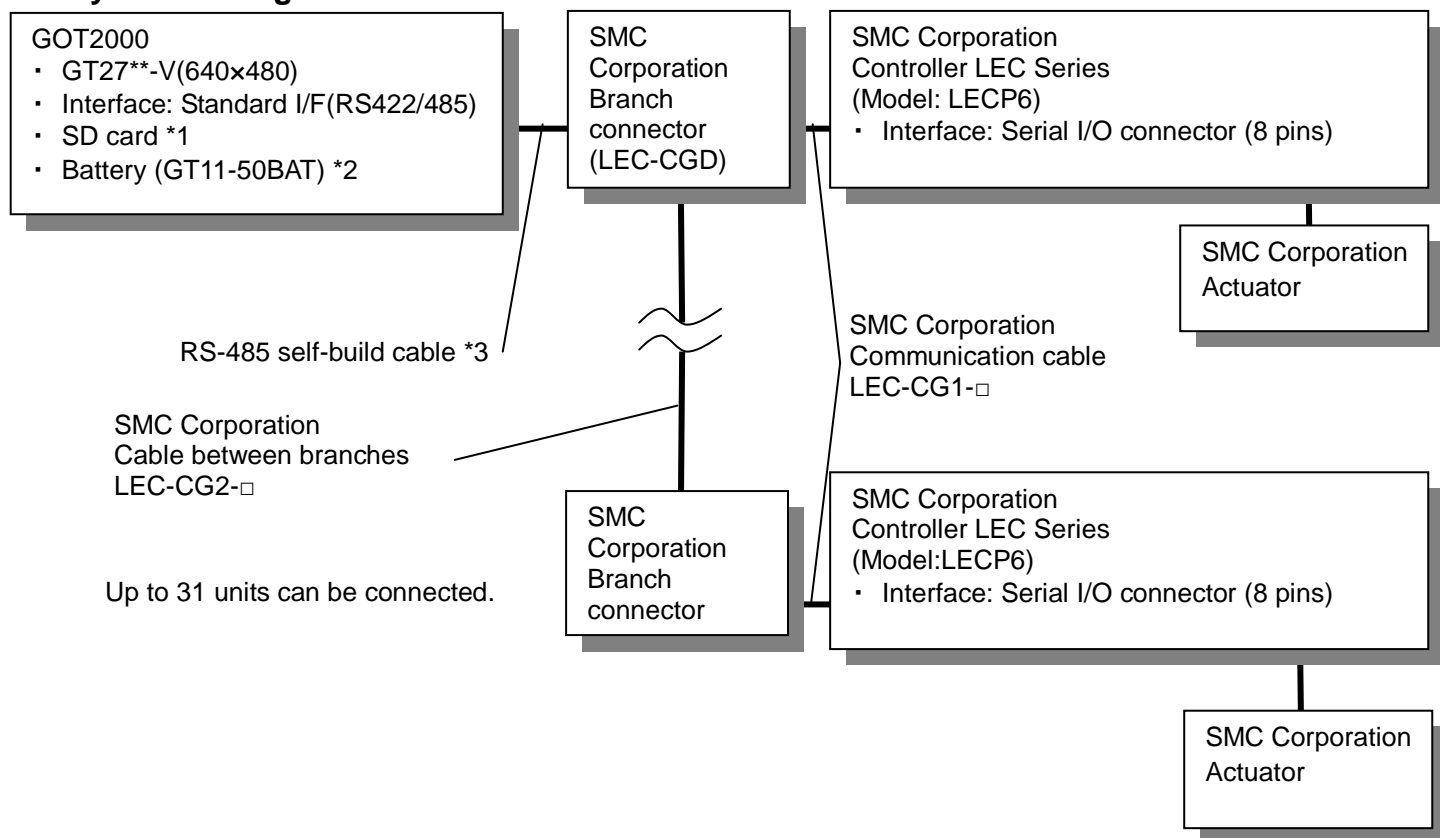
* The version number of screen design software used to create the project data is listed. Please use the screen design software with the listed version or later.

1. OUTLINE

This manual explains the sample screens of GOT2000 connected to a SMC Corporation Controller LEC Series (LECP6) in serial (RS-485) communication. The sample screens can be used to monitor or change the current value and setting value.

2. SYSTEM CONFIGURATION

2.1 System Configuration

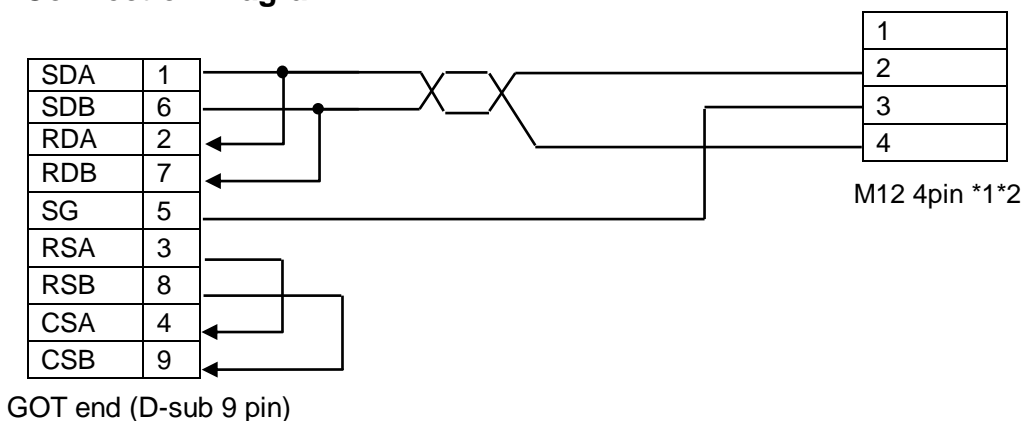


*1: The SD card is used for the document display and recipe functions.

*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 connection method, please refer to "2.2 Connection Diagram".

2.2 Connection Diagram



*1: The recommended connector is XS2G-D4□□ manufactured by OMRON Corporation.

*2: For details of the connection after a connector, contact SMC Corporation.

3. GOT

3.1 System Applications That Are Automatically Selected

| Type | System application name | |
|----------------------|-----------------------------|----------------------|
| Standard Function | Standard System Application | |
| | Standard Font | Japanese |
| Communication Driver | MODBUS/RTU | |
| Extended Function | Standard Font | |
| | Chinese (Simplified) | |
| | Alphanumeric/Kana | |
| | Outline Font | Japanese (Kanji) |
| | | Chinese (Simplified) |
| | Device Data Transfer | |
| | Document Display | |

3.2 Controller Setting of Screen Design Software

| Item | Set value | Remarks |
|-------------------------------------|-----------|---|
| Transmission Speed(BPS) | 115200 | |
| Data Bit | 8 bit | |
| Stop Bit | 1 bit | |
| Parity | None | |
| Retry(Times) | 3 | |
| Timeout Time(Sec) | 3 | |
| Host Address | 1 | Sets the axis number of the controller to be monitored. |
| Delay Time(ms) | 5 | |
| 32bit Storage | HL order | |
| FunctionCode[0F] | Used | |
| FunctionCode[10] | Used | |
| Coil read times(Points) | 2000 | |
| Input relay read times(Points) | 2000 | |
| Holding register read times(Points) | 125 | |
| Input register read times(Points) | 125 | |
| Coil write times(Points) | 800 | |
| Holding register write times(point) | 100 | |

3.3 Overlap Window Setting of Screen Design Software

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

4. CONTROLLER

4.1 Communication Settings for the Controller

| Item | Set value | Remarks |
|-------------------------|-----------|---|
| Transmission speed(bps) | 115200 | Can be changed by the parameter. (Initial value 38400bps) |
| Bit length | 8 bit | Cannot be changed because the value is fixed. |
| Sop bit length | 1 bit | Cannot be changed because the value is fixed. |
| Parity | None | Cannot be changed because the value is fixed. |

5. SCREEN SPECIFICATIONS

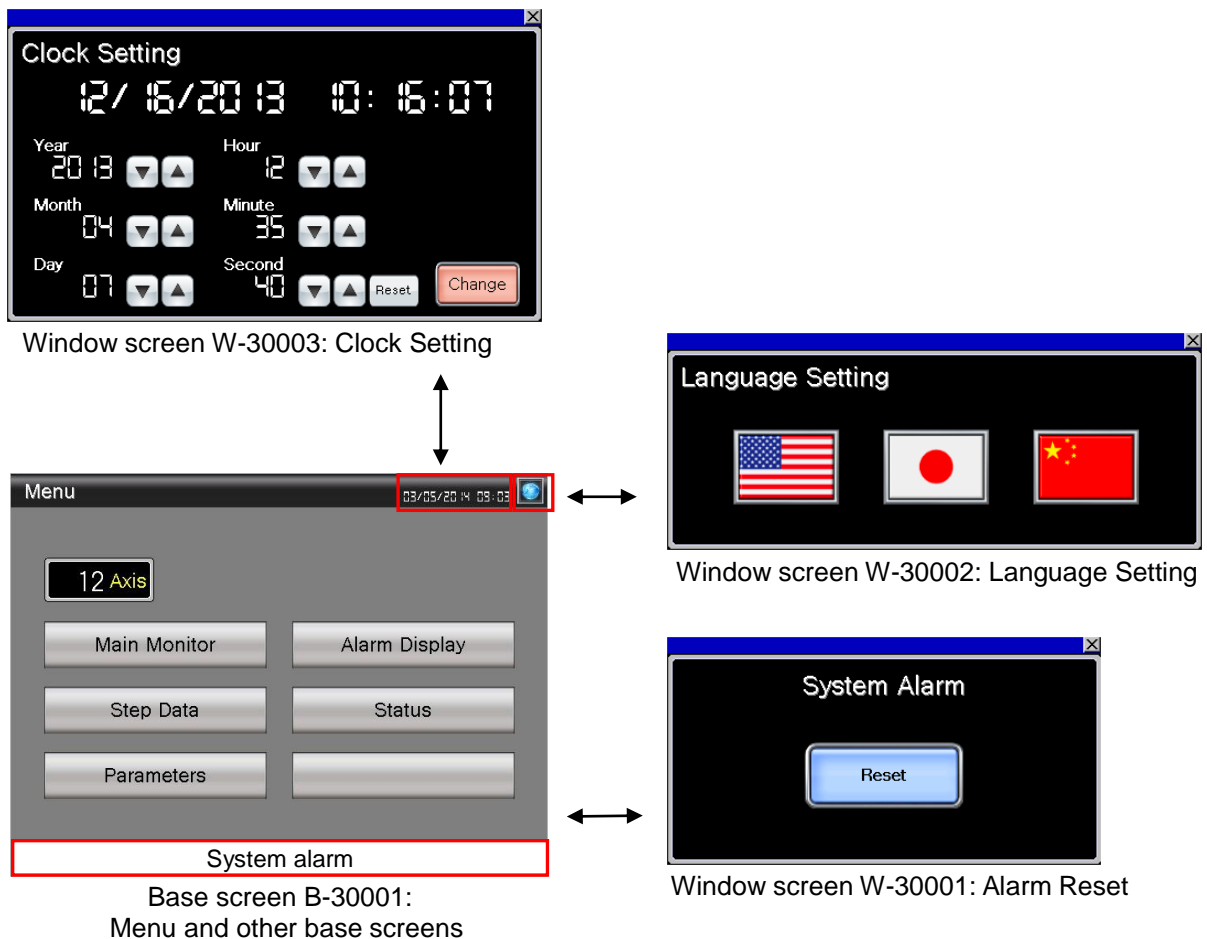
5.1 Display Language

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

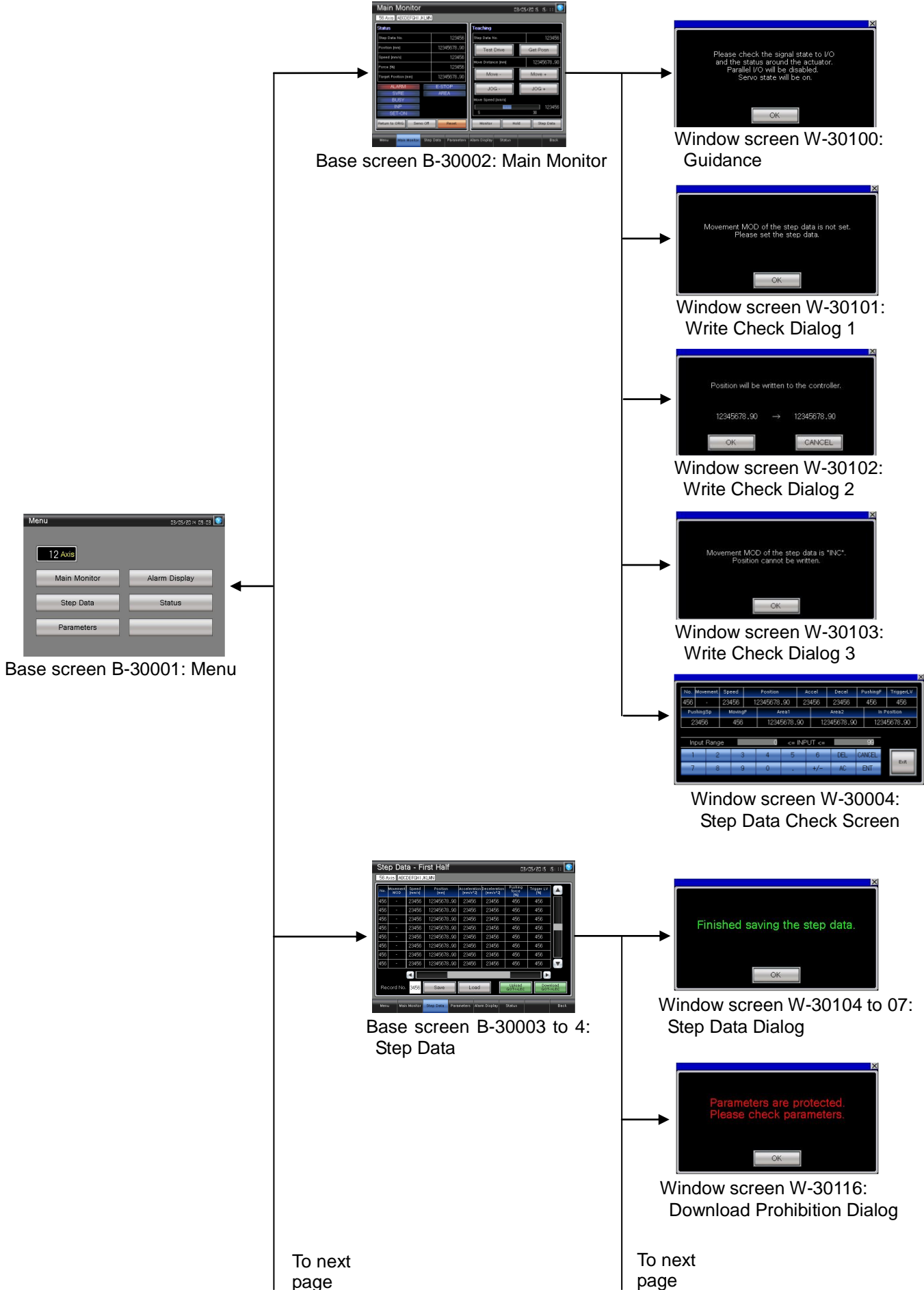
| Column No. | Language |
|------------|----------------------|
| 1 | English |
| 2 | Japanese |
| 3 | Chinese (Simplified) |

5.2 Screen List/Transition

5.2.1 Screen list/transition (common)



5.2.2 Screen transition (individual)

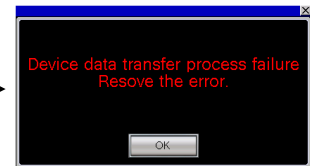


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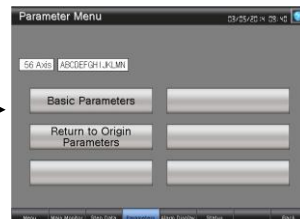
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Window screen W-30117:
Recipe Process Error Dialog



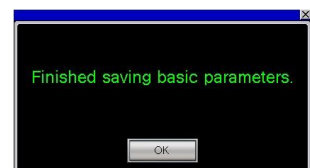
Window screen W-30118:
Device Data TransferError
Dialog



Base screen B-30005:
Parameter Menu



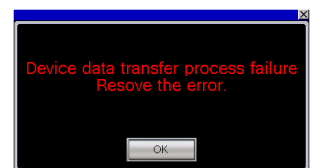
Base screen B-30006 to 7:
Basic Parameters



Window screen W-30108 to 11:
Basic Parameters Dialog



Window screen W-30117:
Recipe Process Error Dialog



Window screen W-30118:
Device Data TransferError
Dialog

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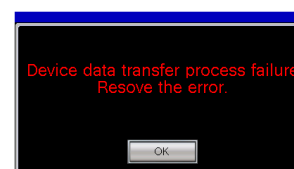
Base screen B-30008:
Return to Origin Parameters



Window screen W-30108 to 11:
Return to Origin Parameter Dialog



Window screen W-30117:
Recipe Process Error Dialog



Window screen W-30118:
Device Data Transfer Error Dialog



Base screen B-30009:
Alarm Display



Base screen B-30010:
Current Alarm

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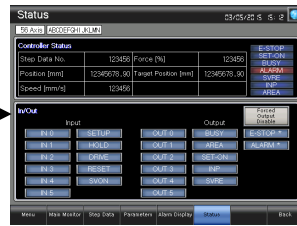
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Base screen B-30012:
Status



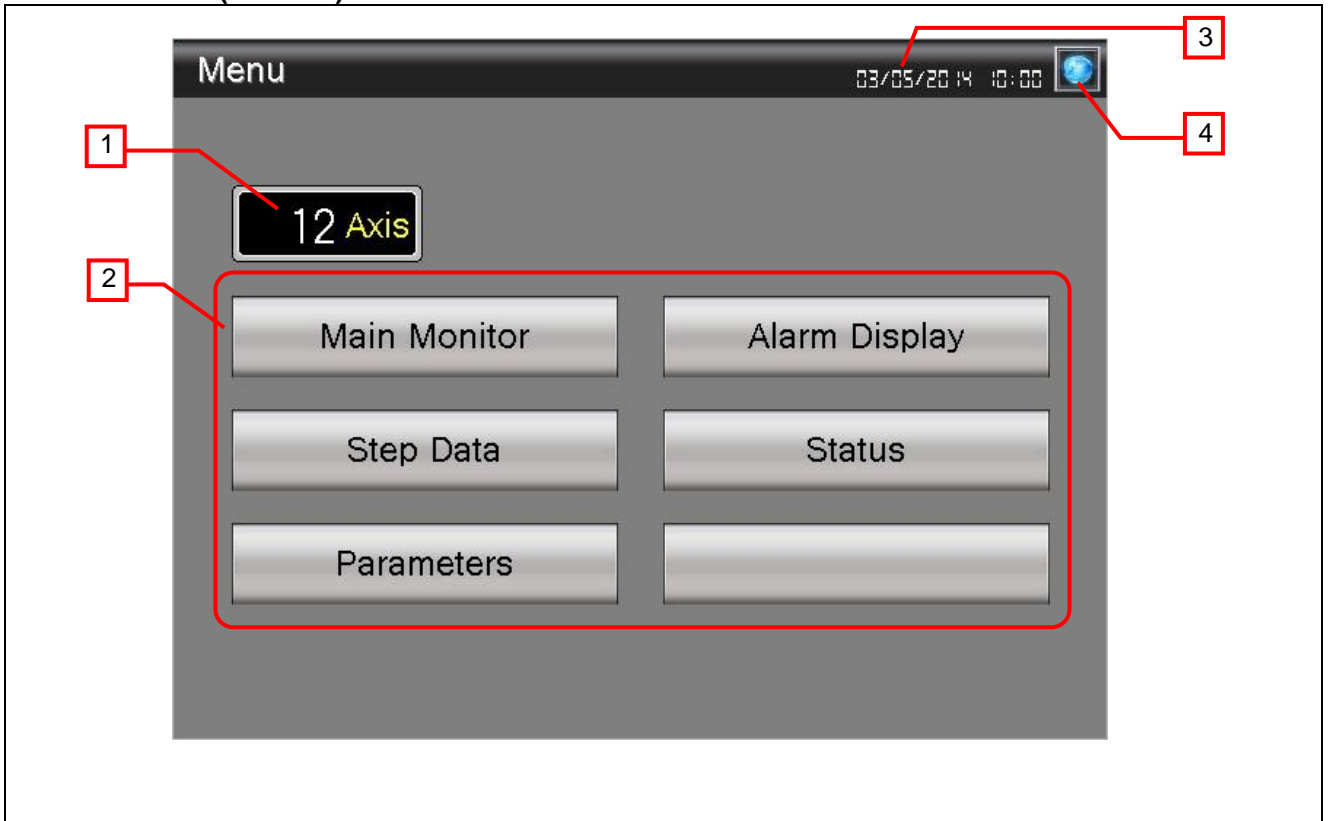
Base screen B-30011:
Alarm History



Base screen B-30500:
Manual Display

5.3 Explanation of Screens

5.3.1 Menu (B-30001)



Outline

This is the Menu screen.

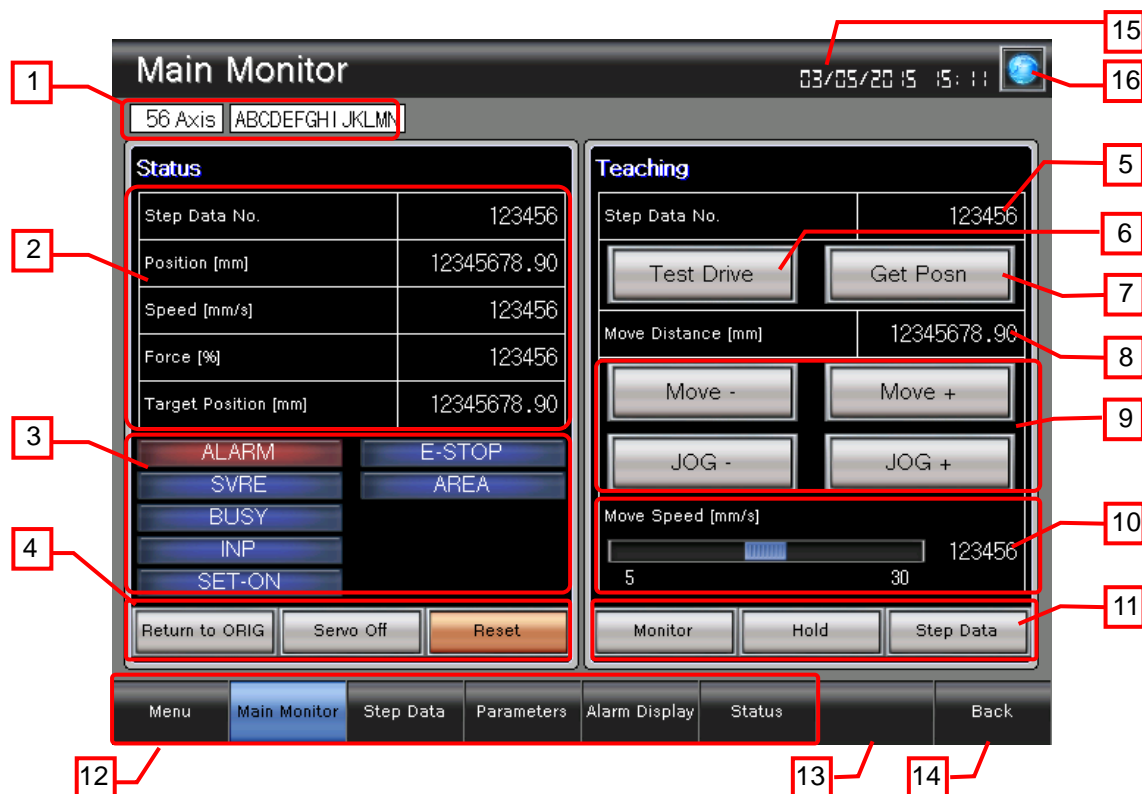
Description

1. Displays the axis number of the controller to be monitored. The axis number can be changed by touching the numerical value.
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 controllers, the controller with the axis number set for [Host Address] of the communication settings must be included. In this sample, "1" is set to the [Host Address]. For more details about the host address setting, please refer to the "GOT2000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals)".
- When GOT is started, the axis number is set to "1" with the project script. For more details about scripts, please refer to "5.6 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

5.3.2 Main Monitor (B-30002)



Outline

This screen displays the controller statuses and operates the actuator.

Description

- Displays the axis number and unit name of the controller to be monitored. The axis number can be changed by touching the numerical value.
- Displays the current position, speed, force, and the target position of the step data No. which the test drive was performed.
- Displays the controller statuses.

| | |
|--------|---|
| ALARM | : Lights while an alarm occurs. |
| SVRE | : Lights when the servo is turned ON. |
| BUSY | : Lights during the motor rotation (operation). |
| INP | : Lights when the operation is completed. |
| SET-ON | : Lights when return to the origin position is completed. |
| E-STOP | : Lights when EMG is stopped. |
| AREA | : Lights when the current value is within the range of area 1 to 2 for the step data. |
- Switches to execute the origin return, servo on / servo off, and reset.

| | |
|----------------------|---|
| Return to ORIG | : Returns to the origin position. This switch becomes active only in test mode. |
| Servo On / Servo Off | : Switches between servo on and servo off. This switch becomes active only in test mode. |
| Reset | : Resets the alarm. The operation is interrupted (stopped) if the button is touched during operation of the actuator. |
- Specifies the step data No. to be used for the test drive or getting the position.
- Starts the test drive for the specified step data No. This switch becomes active only in test mode.
- Writes the current data to the specified step data No.
- Sets the move distance for moving through the specified pitch.
- Operates the actuator manually.

| | |
|--------|--|
| Move + | : Move forward by the distance set for [Move Distance]. This switch becomes active only in test mode. |
| Move - | : Move backward by the distance set for [Move Distance]. This switch becomes active only in test mode. |

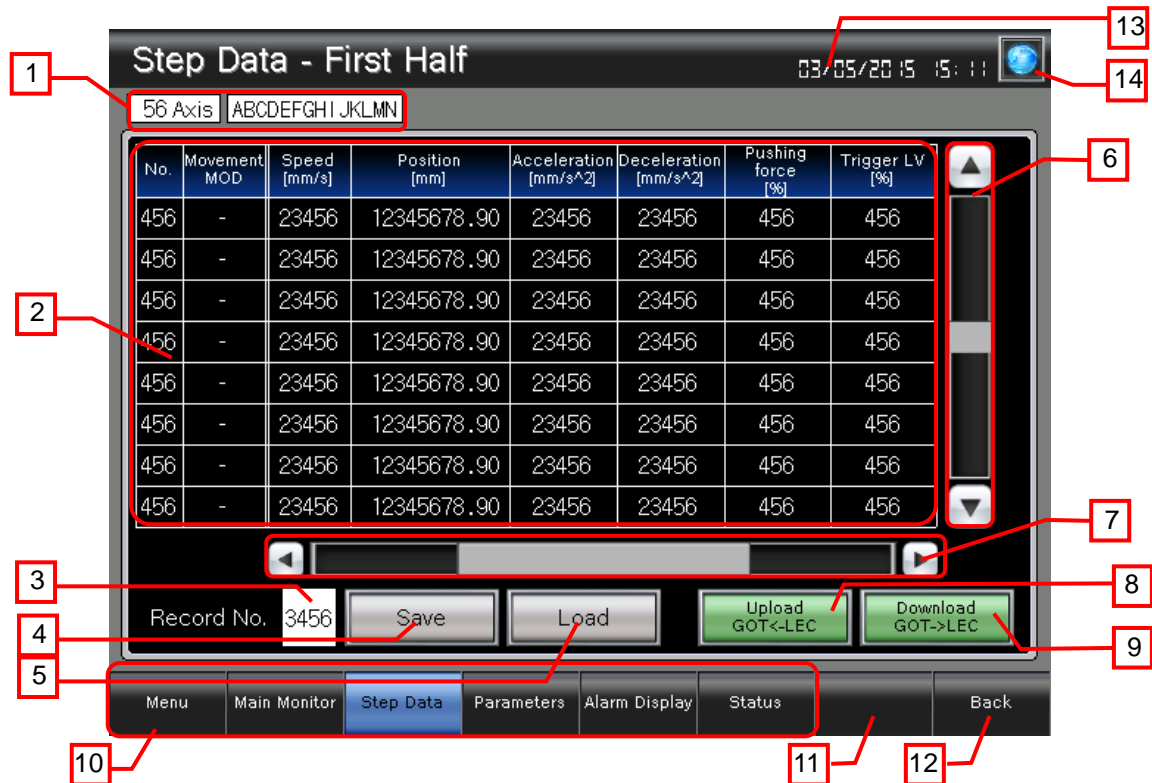
- | | |
|-------|--|
| JOG + | : Move forward while the button is touched. This switch becomes active only in test mode. |
| JOG - | : Move backward while the button is touched. This switch becomes active only in test mode. |
10. Specifies the speed for moving through the specified pitch and JOG transfer.
 11. Switches to display the monitor mode / test mode, hold, or step data.

| | |
|--------------|---|
| Monitor/Test | : Switches between the monitor mode and test mode. |
| Hold | : The actuator is suspended during the test mode. The operation is restarted when the button is touched during suspend. This switch becomes active only in test mode. |
| Step Data | : Displays the step data of the specified step data No. |
 12. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
 13. Shows unused switches for base screen switching.
 14. Switches to the previously opened screen.
 15. Displays the current date and time. Touch the button to open the [Clock Setting] window.
 16. Opens the [Language Setting] window.

Remarks

- When GOT is started, the move speed is set to "5" with the project script. For more details about scripts, please refer to "5.6 Script List".
- A screen script is used for the test drive, reading of the current position, JOG initial setting, and execution of the manual operation. For more details about scripts, please refer to "5.6 Script List".
- When closing a screen during test mode, the screen script changes the mode to monitor mode. For more details about scripts, please refer to "5.6 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

5.3.3 Step Data - First Half (B-30003)



Outline

This screen displays and edits the step data (first half), or saves and loads the step data (first half/latter half). ("Save" means saving the step data to a recipe file; "Load" means reading the step data from the recipe file.)

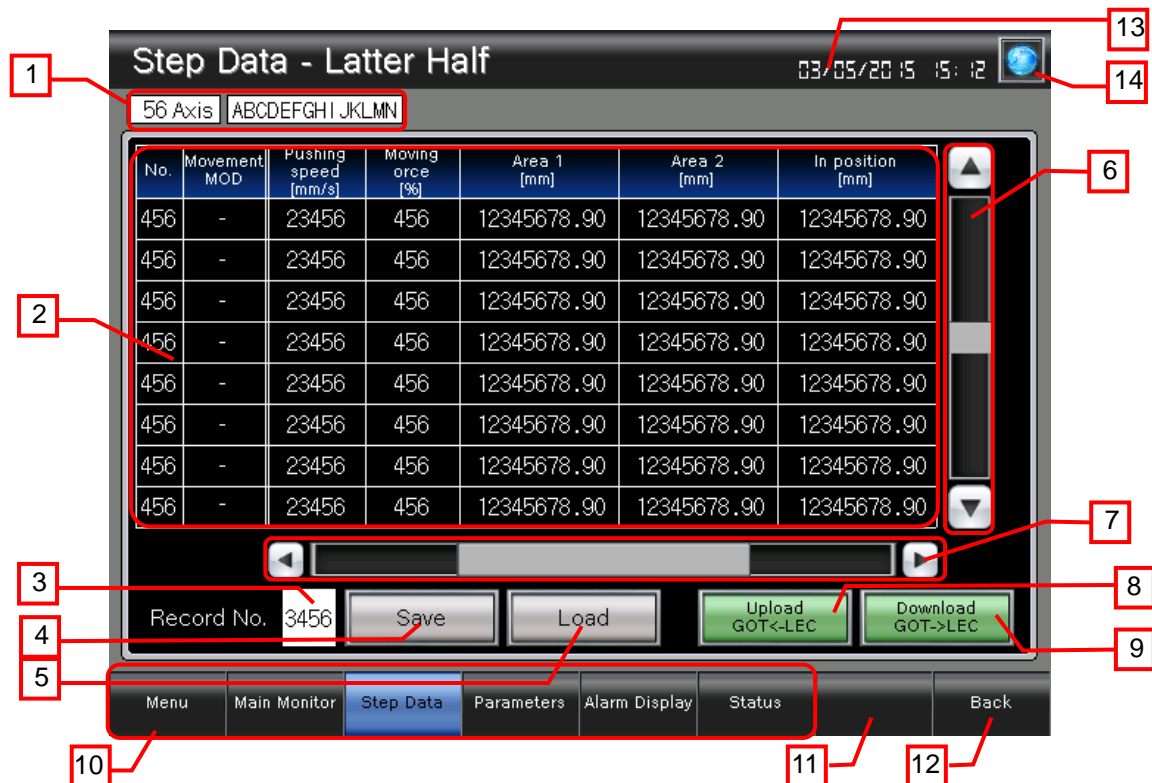
Description

- Displays the axis number and unit name of the controller to be monitored. The axis number can be changed by touching the numerical value.
- Displays or edits the step data uploaded to GOT from the controller. The setting value of movement MOD is switched by every touch as follows: "-", "ABS", "INC", then "-".
- Specifies the record No. of the recipe file whose step data is to be saved and loaded.
- Saves the step data edited with GOT to the recipe file with the specified record No. Step Data Save Dialog is displayed at the execution. Displays the Recipe Process Error dialog if a recipe process error occurs. Hold down the switch for two seconds.
- Loads the step data which is saved in the recipe file with the specified record No. to GOT. Step Data Load Dialog is displayed at the execution. Displays the Recipe Process Error dialog if a recipe process error occurs. Hold down the switch for two seconds.
- Scrolls the step data.
 - : Scrolls 8 data up.
 - : Scrolls 8 data down.
- Switches display items of step data.
- Uploads the step data of the controller to GOT. Step Data Upload Dialog is displayed at the execution. Displays the Device Data Transfer Error dialog if a device data transfer error occurs. Hold down the switch for two seconds.
- Downloads the step data of GOT to the controller. Download Prohibition Dialog or Step Data Download Dialog is displayed at the execution. Displays the Device Data Transfer Error dialog if a device data transfer error occurs. Hold down the switch for two seconds.
- 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

- The setting range of the step data differs depending on the type of the actuator. For more details, please refer to the Manual of the actuator.
- Up to No.63 of the step data can be displayed and edited.
- A screen script is used for switching between show and hide of the step data. For more details about scripts, please refer to "5.6 Script List".
- When GOT is started, the record No. is set to "1" with the project script. For more details about scripts, please refer to "5.6 Script List".
- Save data and load data can be registered up to 1000 data per one axis.
- A screen script is used for save, load, upload, and download. 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.

5.3.4 Step Data - Latter Half (B-30004)



Outline

This screen displays and edits the step data (latter half), or saves and loads the step data (first half/latter half). ("Save" means saving the step data to a recipe file; "Load" means reading the step data from the recipe file.)

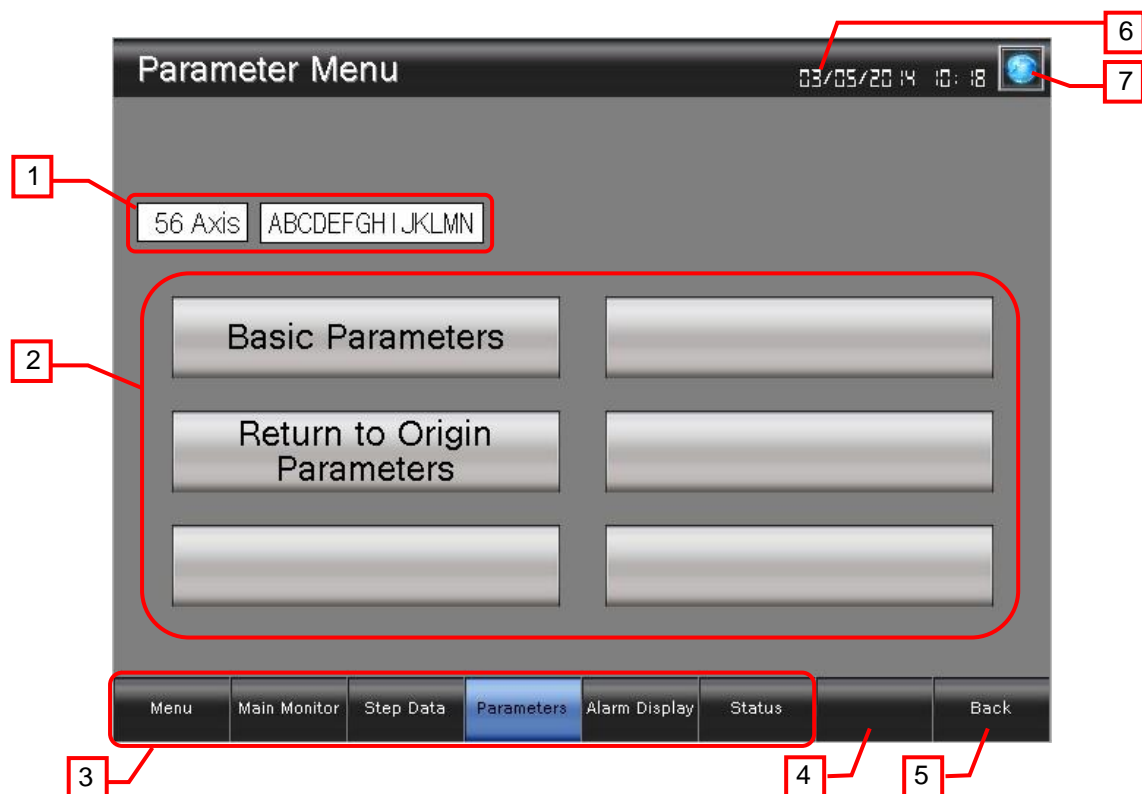
Description

- Displays the axis number and unit name of the controller to be monitored. The axis number can be changed by touching the number.
- Displays or edits the step data uploaded to GOT from the controller. The setting value of movement MOD is switched by every touch as follows: "-", "ABS", "INC", then "-".
- Specifies the record No. of the recipe file whose step data is to be saved and loaded.
- Saves the step data edited with GOT to the recipe file with the specified record No. Step Data Save Dialog is displayed at the execution. Displays the Recipe Process Error dialog if a recipe process error occurs. Hold down the switch for two seconds.
- Loads the step data which is saved in the recipe file with the specified record No. to GOT. Step Data Load Dialog is displayed at the execution. Displays the Recipe Process Error dialog if a recipe process error occurs. Hold down the switch for two seconds.
- Scrolls the step data.
 - : Scrolls 8 data up.
 - : Scrolls 8 data down.
- Switches display items of step data.
- Uploads the step data of the controller to GOT. Step Data Upload Dialog is displayed at the execution. Displays the Device Data Transfer Error dialog if a device data transfer error occurs. Hold down the switch for two seconds.
- Downloads the step data of GOT to the controller. Download Prohibition Dialog or Step Data Download Dialog is displayed at the execution. Displays the Device Data Transfer Error dialog if a device data transfer error occurs. Hold down the switch for two seconds.
- Switches to each screen. The blue switch is used to switch to the Step Data - First Half 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

- The setting range of the step data differs depending on the type of the actuator. For more details, please refer to the Manual of the actuator.
- Up to No.63 of the step data can be displayed and edited.
- A screen script is used for switching between show and hide of the step data. For more details about scripts, please refer to "5.6 Script List".
- When GOT is started, the record No. is set to "1" with the project script. For more details about scripts, please refer to "5.6 Script List".
- Save data and load data can be registered up to 1000 data per one axis.
- A screen script is used for save, load, upload, and download. 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 Parameter Menu (B-30005)



Outline

This is the Parameter Menu screen.

Description

1. Displays the axis number and unit name of the controller to be monitored. The axis number can be changed by touching the numerical value.
2. Switches to each screen.
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Shows unused switches for base screen switching.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touch the button to open the [Clock Setting] window.
7. Opens the [Language Setting] window.

Remarks

- 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 Basic Parameters 1/2 (B-30006)



Outline

This screen displays and edits basic parameters (1/2), or saves and loads the basic parameters (1/2, 2/2). ("Save" means saving basic parameters to a recipe file; "Load" means reading basic parameters from the recipe file.)

Description

1. Displays the axis number and unit name of the controller to be monitored. The axis number can be changed by touching the numerical value.
2. Displays or edits the basic parameter uploaded to GOT from the controller. The setting value of parameter protection is switched by every touch as follows: "1: Basic + Step Data", "2: Basic", then "1: Basic + Step Data".
3. Specifies the record No. of the recipe file whose basic parameter is to be saved and loaded.
4. Saves the basic parameter edited with GOT to the recipe file with the specified record No. Basic Parameters Save Dialog is displayed at the execution. Displays the Recipe Process Error dialog if a recipe process error occurs. Hold down the switch for two seconds.
5. Loads the basic parameter which is saved in the recipe file with the specified record No. to GOT. Basic Parameters Load Dialog is displayed at the execution. Displays the Recipe Process Error dialog if a recipe process error occurs. Hold down the switch for two seconds.
6. Switches display items of basic parameter.
7. Uploads the basic parameter of the controller to GOT. Basic Parameters Upload Dialog is displayed at the execution. Displays the Device Data Transfer Error dialog if a device data transfer error occurs. Hold down the switch for two seconds.
8. Downloads the basic parameter of GOT to the controller. Basic Parameters Download Dialog is displayed at the execution. Displays the Device Data Transfer Error dialog if a device data transfer error occurs. Hold down the switch for two seconds.
9. Switches to each screen. The blue switch is used to switch to the Parameter Menu screen.
10. Shows unused switches for base screen switching.
11. Switches to the previously opened screen.
12. Displays the current date and time. Touch the button to open the [Clock Setting] window.
13. Opens the [Language Setting] window.

Remarks

- The setting range of the basic parameter differs depending on the type of the actuator. For more details, please refer to the Manual of the actuator.
- A screen script is used for switching the parameter protection. For more details about scripts, please refer to "5.6 Script List".
- When GOT is started, the record No. is set to "1" with the project script. For more details about scripts, please refer to "5.6 Script List".
- Save data and load data can be registered up to 1000 data per one axis.
- A screen script is used for save, load, upload, and download. 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.

5.3.7 Basic Parameters 2/2 (B-30007)



Outline

This screen displays and edits basic parameters (2/2), or saves and loads the basic parameters (1/2, 2/2). ("Save" means saving basic parameters to a recipe file; "Load" means reading basic parameters from the recipe file.)

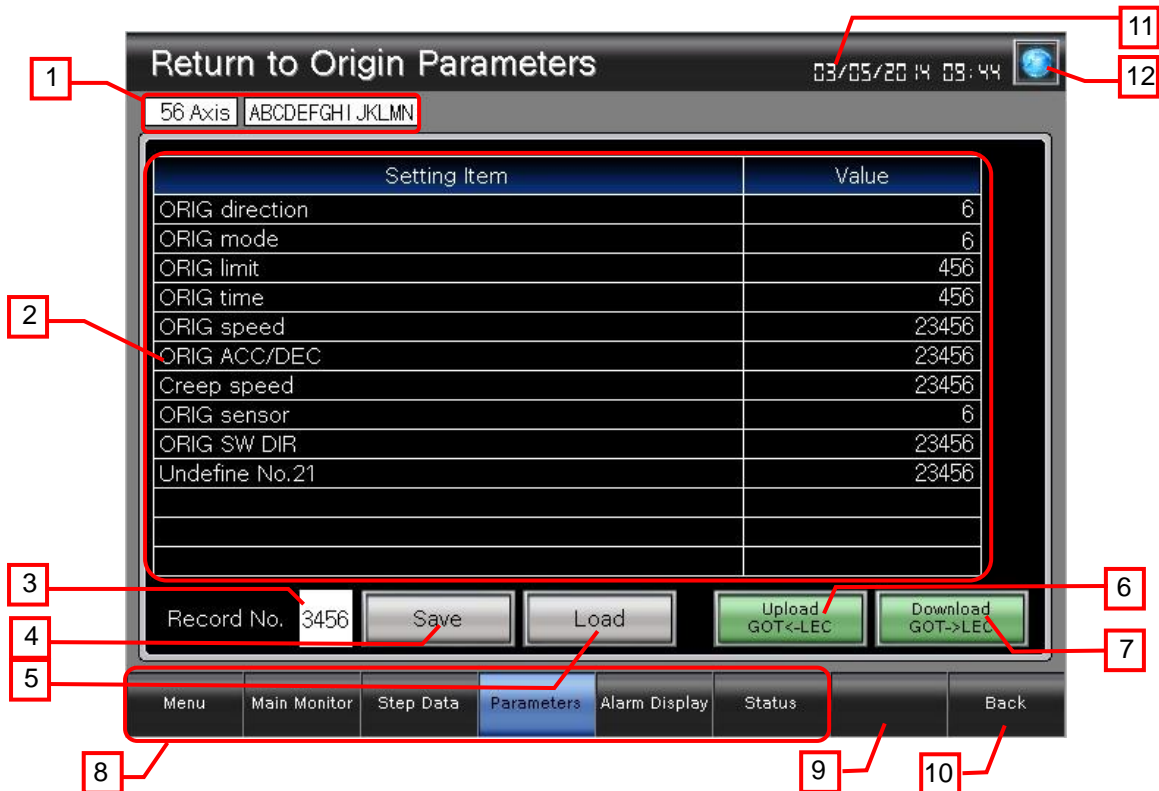
Description

1. Displays the axis number and unit name of the controller to be monitored. The axis number can be changed by touching the numerical value.
2. Displays or edits the basic parameter uploaded to GOT from the controller.
3. Specifies the record No. of the recipe file whose basic parameter is to be saved and loaded.
4. Saves the basic parameter edited with GOT to the recipe file with the specified record No. Basic Parameters Save Dialog is displayed at the execution. Displays the Recipe Process Error dialog if a recipe process error occurs. Hold down the switch for two seconds.
5. Loads the basic parameter which is saved in the recipe file with the specified record No. to GOT. Basic Parameters Load Dialog is displayed at the execution. Displays the Recipe Process Error dialog if a recipe process error occurs. Hold down the switch for two seconds.
6. Switches display items of basic parameter.
7. Uploads the basic parameter of the controller to GOT. Basic Parameters Upload Dialog is displayed at the execution. Displays the Device Data Transfer Error dialog if a device data transfer error occurs. Hold down the switch for two seconds.
8. Downloads the basic parameter of GOT to the controller. Basic Parameters Download Dialog is displayed at the execution. Displays the Device Data Transfer Error dialog if a device data transfer error occurs. Hold down the switch for two seconds.
9. Switches to each screen. The blue switch is used to switch to the Parameter Menu screen.
10. Shows unused switches for base screen switching.
11. Switches to the previously opened screen.
12. Displays the current date and time. Touch the button to open the [Clock Setting] window.
13. Opens the [Language Setting] window.

Remarks

- The setting range of the basic parameter differs depending on the type of the actuator. For more details, please refer to the Manual of the actuator.
- When GOT is started, the record No. is set to "1" with the project script. For more details about scripts, please refer to "5.6 Script List".
- Save data and load data can be registered up to 1000 data per one axis.
- A screen script is used for save, load, upload, and download. 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.

5.3.8 Return to Origin Parameters (B-30008)



Outline

This screen displays and edits return to origin parameters, or saves and loads the return to origin parameters. ("Save" means saving return to origin parameters to a recipe file; "Load" means reading return to origin parameters from the recipe file.)

Description

- Displays the axis number and unit name of the controller to be monitored. The axis number can be changed by touching the numerical value.
- Displays or edits the return to origin parameter uploaded to GOT from the controller.
- Specifies the record No. of the recipe file whose return to origin parameter is to be saved and loaded.
- Saves the return to origin parameter edited with GOT to the recipe file with the specified record No. Return to ORIG Param Save Dialog is displayed at the execution. Displays the Recipe Process Error dialog if a recipe process error occurs. Hold down the switch for two seconds.
- Loads the return to origin parameter which is saved in the recipe file with the specified record No. to GOT. Return to ORIG Param Load Dialog is displayed at the execution. Displays the Recipe Process Error dialog if a recipe process error occurs. Hold down the switch for two seconds.
- Uploads the return to origin parameter of the controller to GOT. Return to ORIG Param UL Dialog is displayed at the execution. Displays the Device Data Transfer Error dialog if a device data transfer error occurs. Hold down the switch for two seconds.
- Downloads the return to origin parameter of GOT to the controller. Return to ORIG Param DL Dialog is displayed at the execution. Displays the Device Data Transfer Error dialog if a device data transfer error occurs. Hold down the switch for two seconds.
- Switches to each screen. The blue switch is used to switch to the Parameter Menu 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

- The setting range of the return to origin parameter differs depending on the type of the actuator. For more details, please refer to the Manual of the actuator.
- When GOT is started, the record No. is set to "1" with the project script. For more details about scripts, please refer to "5.6 Script List".
- Save data and load data can be registered up to 1000 data per one axis.
- A screen script is used for save, load, upload, and download. 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.

5.3.9 Alarm Display (B-30009)



Outline

This is the Alarm Display Menu screen.

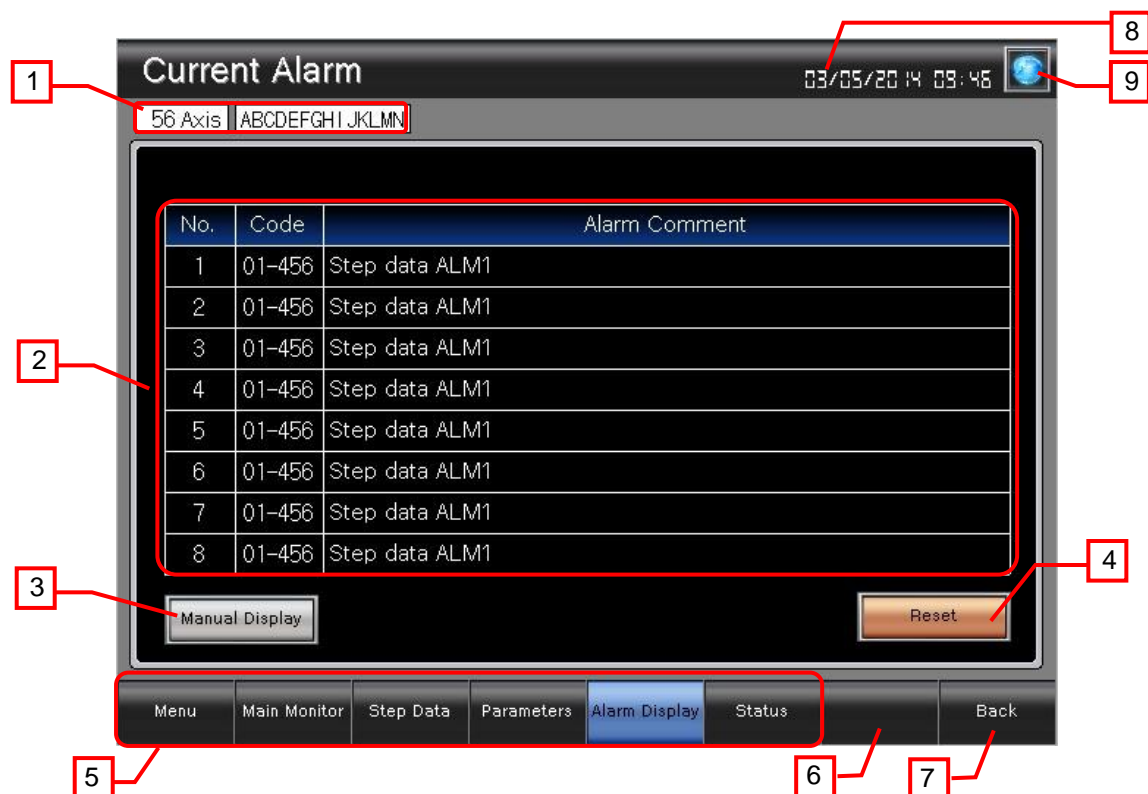
Description

1. Displays the axis number and unit name of the controller to be monitored. The axis number can be changed by touching the numerical value.
2. Switches to each screen.
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Shows unused switches for base screen switching.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touch the button to open the [Clock Setting] window.
7. Opens the [Language Setting] window.

Remarks

- 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 Current Alarm (B-30010)



Outline

This screen displays current alarms.

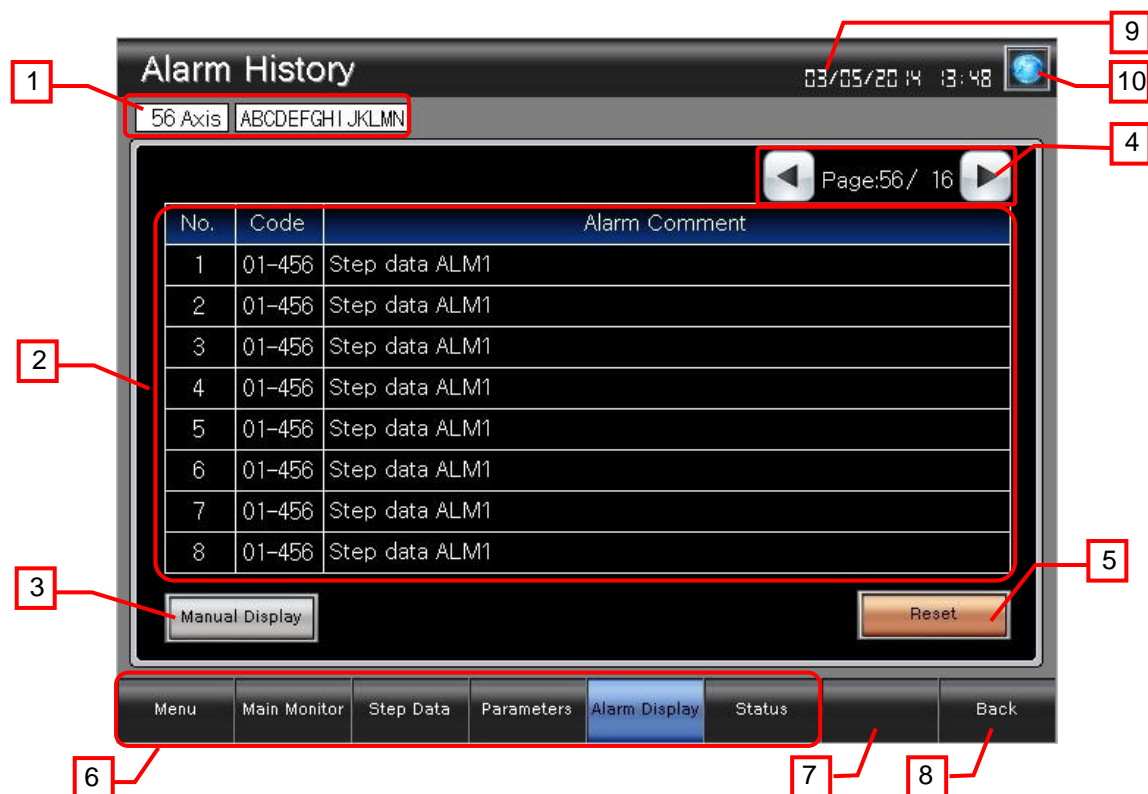
Description

1. Displays the axis number and unit name of the controller to be monitored. The axis number can be changed by touching the numerical value.
2. Displays current alarms.
3. Switches to the [Manual Display] screen.
4. Resets the alarm. The operation is interrupted (stopped) if the button is touched during operation of the actuator.
5. Switches to each screen. The blue switch is used to switch to the Alarm Display 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

- Up to eight types of alarms are displayed.
- 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 History (B-30011)



Outline

This screen displays alarm history.

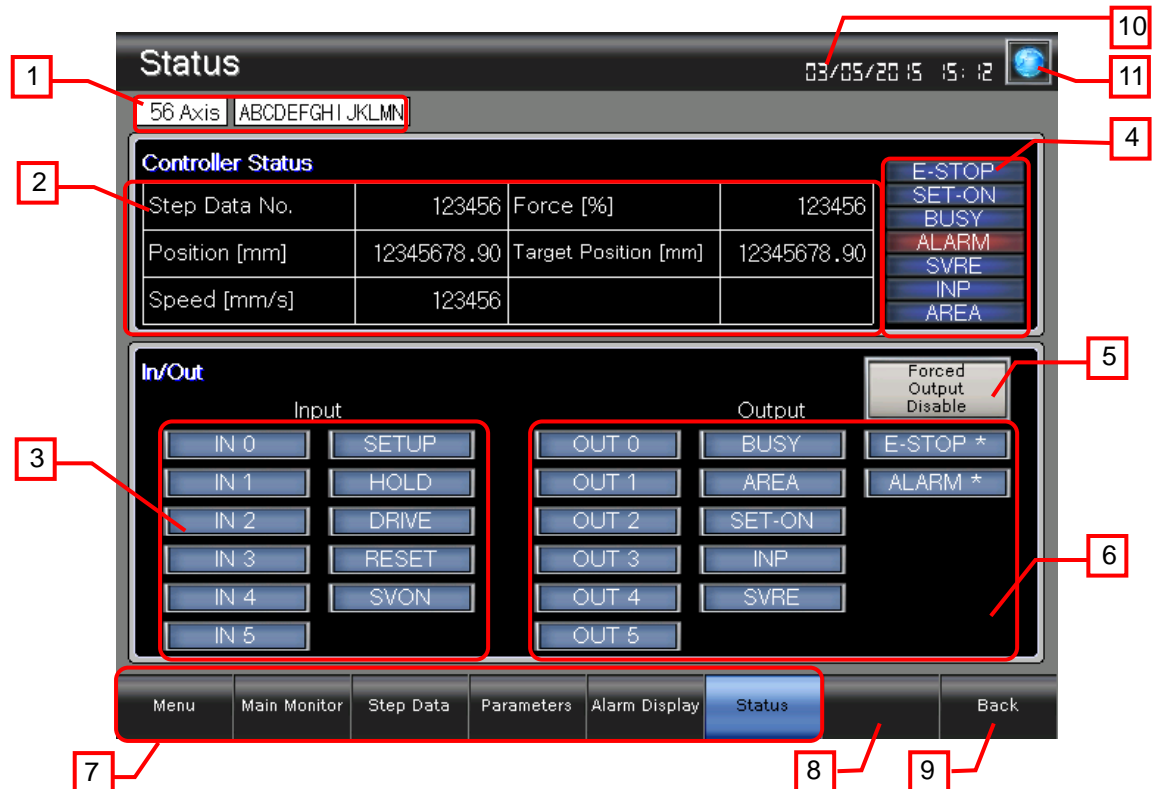
Description

1. Displays the axis number and unit name of the controller to be monitored. The axis number can be changed by touching the numerical value.
2. Displays alarm history.
3. Switches to the [Manual Display] screen.
4. Change the page of alarm history.
5. Resets the alarm. The operation is interrupted (stopped) if the button is touched during operation of the actuator.
6. Switches to each screen. The blue switch is used to switch to the Alarm Display screen.
7. Shows unused switches for base screen switching.
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

- Up to the history of eight alarms×16 times are displayed.
- 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 Status (B-30012)



Outline

This screen displays the controller statuses and the parallel I/O statuses.

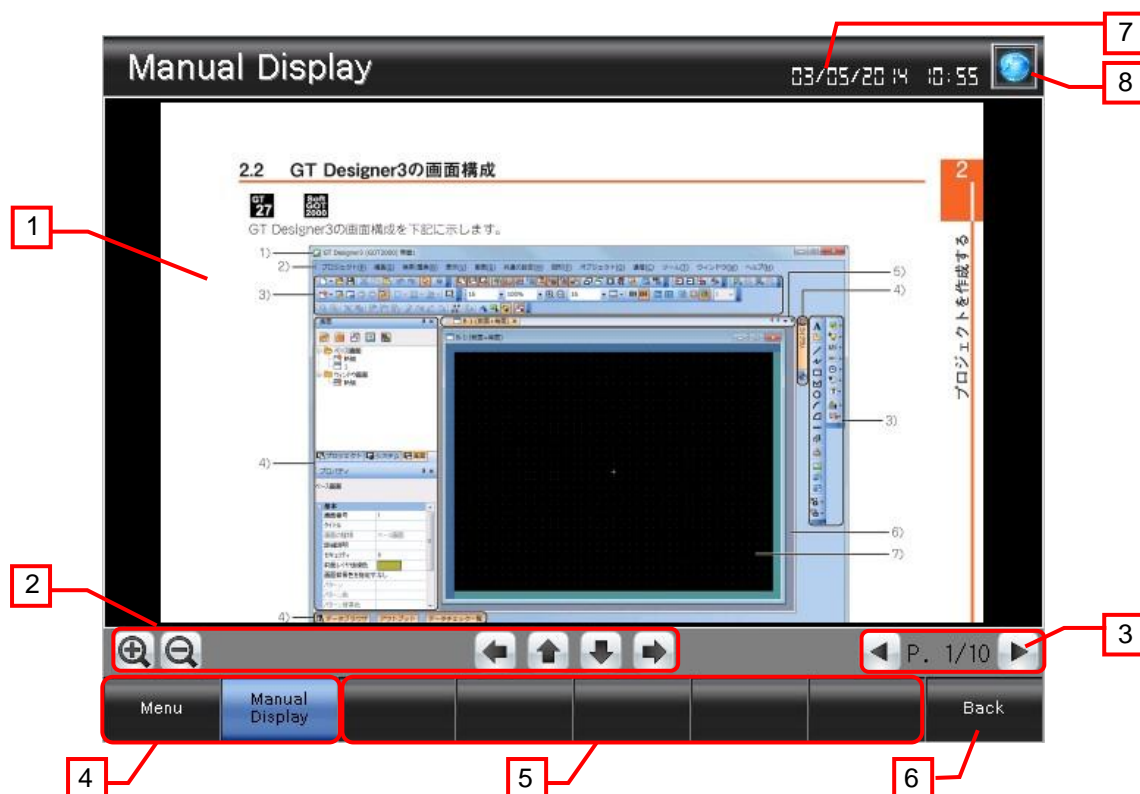
Description

- Displays the axis number and unit name of the controller to be monitored. The axis number can be changed by touching the numerical value.
- Displays the current position, speed, force, and the target position of the step data No. which the test drive was performed.
- Displays the input signal in parallel communication.
- Displays the controller statuses.
 - E-STOP : Lights when EMG is stopped.
 - SET-ON : Lights when the origin return is completed.
 - BUSY : Lights during the motor rotation (operation).
 - ALARM : Lights while an alarm occurs.
 - SVRE : Lights when the servo is turned ON.
 - INP : Lights when the operation is completed.
 - AREA : Lights when the current value is within the range of area 1 to 2 for the step data.
- The switch to enable the compulsory output of the parallel output terminal.
- Displays the output signal at parallel communication. Touch each output signal to compulsory output the output signal while the compulsory output is enabled.
- 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

- Enable switch is only available in parallel communication (monitor mode).
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.










5.3.13 Manual Display (B-30500)



Outline

This screen displays the manual of the currently displayed language.

Description

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

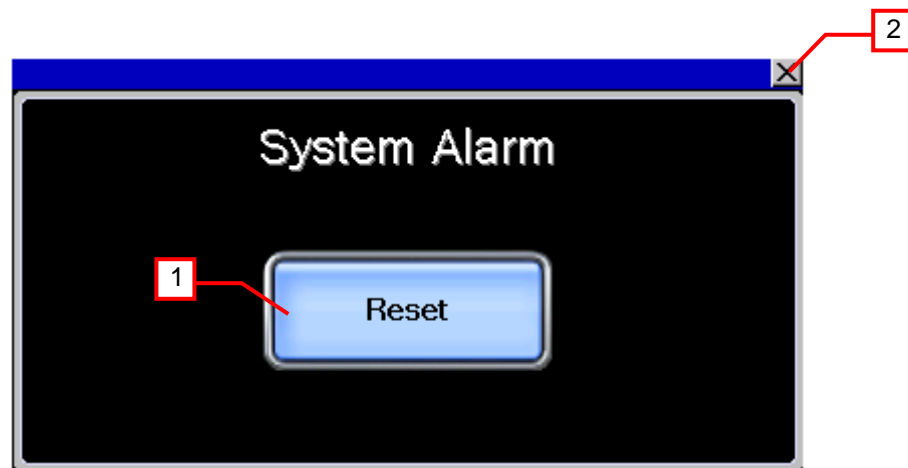
Remarks

- The 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.

5.3.14 Alarm Reset (W-30001)



Outline

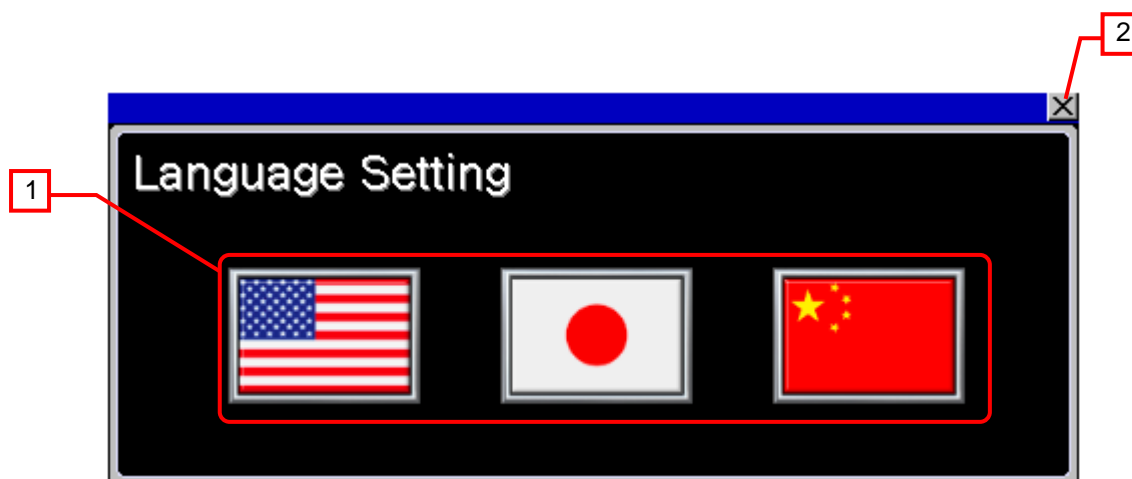
This window screen allows resetting the system alarm.

Description

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

Remarks

5.3.15 Language Setting (W-30002)



Outline

This window allows selecting the GOT language.

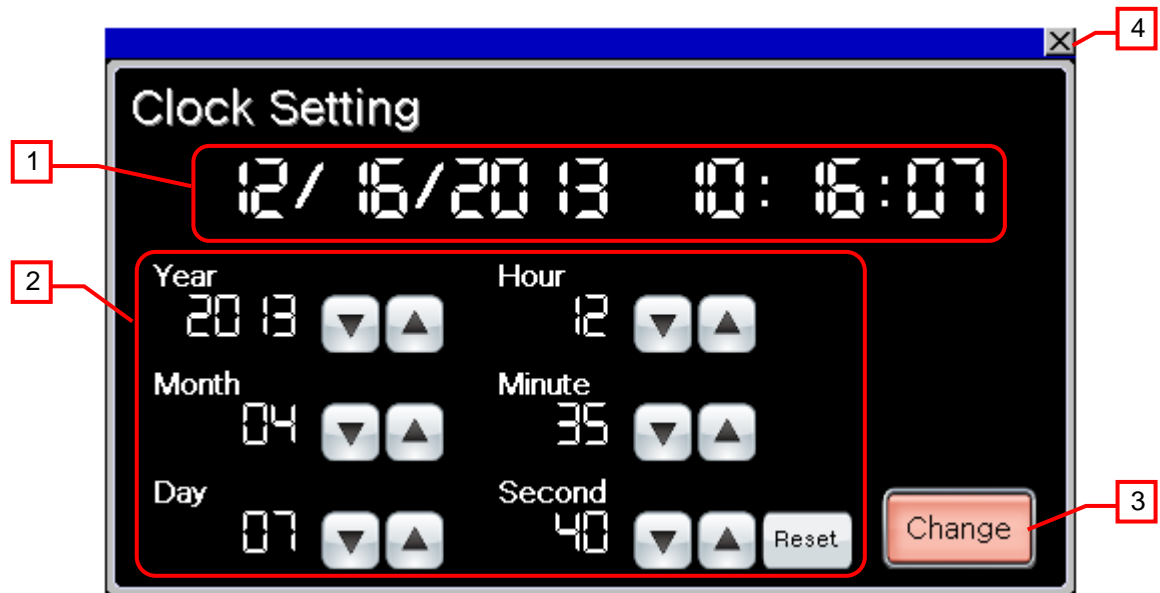
Description

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

Remarks

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



5.3.16 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 screen after 1 second.
4. Closes the window screen.

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".

5.3.17 Step Data Check Screen (W-30004)

The screenshot shows a control screen with a blue header bar. A red box labeled '1' highlights the main data table. A red box labeled '2' highlights the 'Input Range' section. A red box labeled '3' highlights the numeric keypad. A red box labeled '4' highlights the 'Exit' button.

| No. | Movement | Speed | Position | Accel | Decel | PushingF | TriggerLV |
|-----------|----------|---------|-------------|-------------|-------|-------------|-----------|
| 456 | - | 23456 | 12345678.90 | 23456 | 23456 | 456 | 456 |
| PushingSp | | MovingF | Area1 | Area2 | | In Position | |
| 23456 | | 456 | 12345678.90 | 12345678.90 | | 12345678.90 | |

Input Range 0 <= INPUT <= 99

| | | | | | | | |
|---|---|---|---|---|-----|-----|--------|
| 1 | 2 | 3 | 4 | 5 | 6 | DEL | CANCEL |
| 7 | 8 | 9 | 0 | . | +/- | AC | ENT |

Exit

Outline

This screen displays and edits the step data.

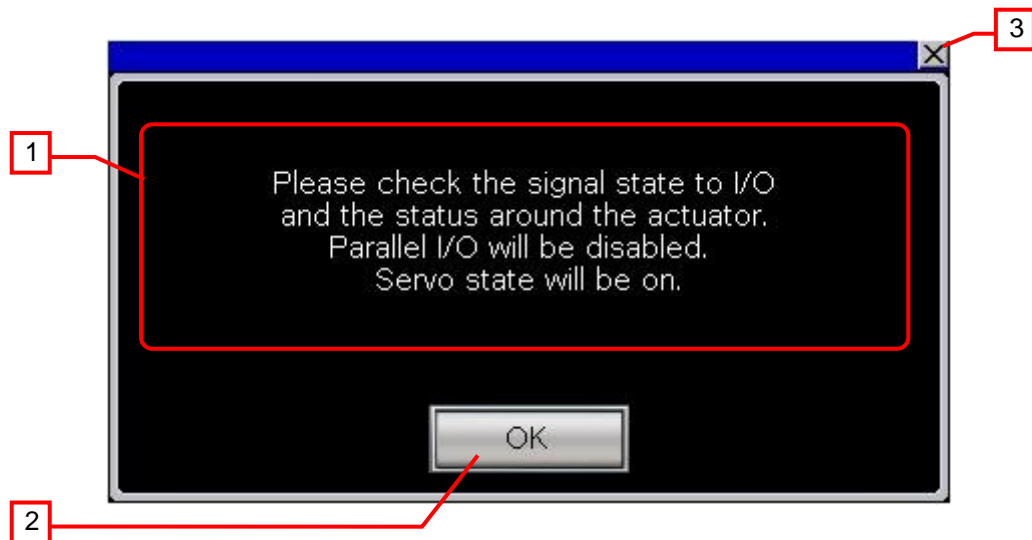
Description

1. Displays and edits the step data. The setting value of movement MOD is switched by every touch as follows: "-", "ABS", "INC", then "-".
2. Displays the input range of the step data.
3. Numeric keypad to input.
4. Closes the window screen.

Remarks

- The step data of the controller is referred directly. Pay enough attention to writing it.
- A screen script is used for switching between show and hide of the step data. For more details about scripts, please refer to "5.6 Script List".

5.3.18 Guidance (W-30100)



Outline

This window is displayed when switching between the monitor mode and the test mode.

Description

1. Displays the confirmation message.
2. Closes the window after switching to monitor mode or test mode.
3. Closes the window screen.

Remarks

- The servo is turned ON when switching from monitor mode to test mode.
- A screen script is used for switching the servo ON. For more details about scripts, please refer to “5.6 Script List”.

5.3.19 Write Check Dialog 1 (W-30101)



Outline

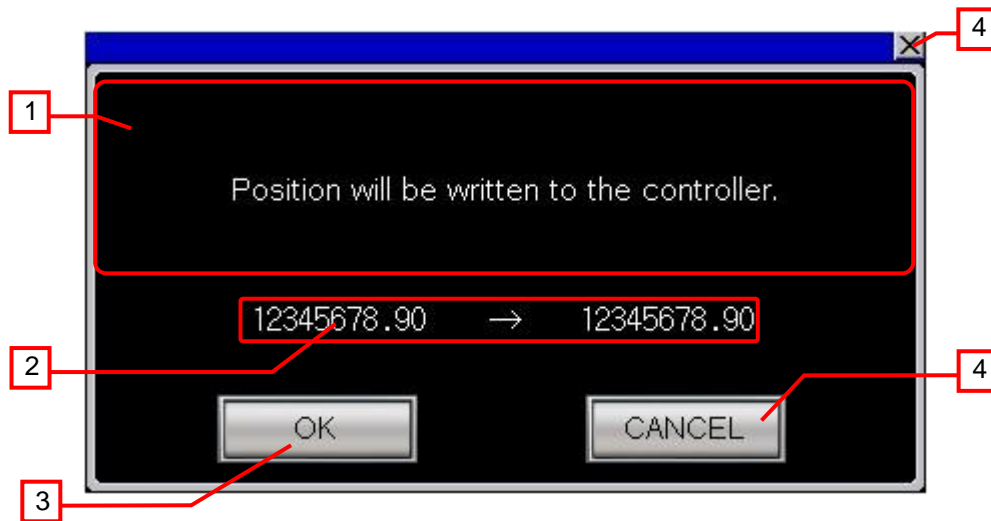
This window screen is displayed when the movement MOD of the step data is not set.

Description

1. Displays the confirmation message.
2. Closes the window screen.

Remarks

5.3.20 Write Check Dialog 2 (W-30102)



Outline

This window screen is displayed when the movement MOD of the step data is set to "ABS".

Description

1. Displays the confirmation message.
2. Displays the value to be written and the value of the controller.
3. Writes the current position to the controller and closes the window screen.
4. Closes the window screen.

Remarks

- The value is directly written to the controller. Pay enough attention to writing it.
- A screen script is used for writing to the controller. For more details about scripts, please refer to "5.6 Script List".

5.3.21 Write Check Dialog 3 (W-30103)



Outline

This window screen is displayed when the movement MOD of the step data is set to "INC".

Description

1. Displays the confirmation message.
2. Closes the window screen.

Remarks

- When monitoring a controller other than the one set for [Host Address] of the communication settings, the controller with the selected axis number must be included.

5.3.22 Step Data Dialog (W-30104 to 30107)



Outline

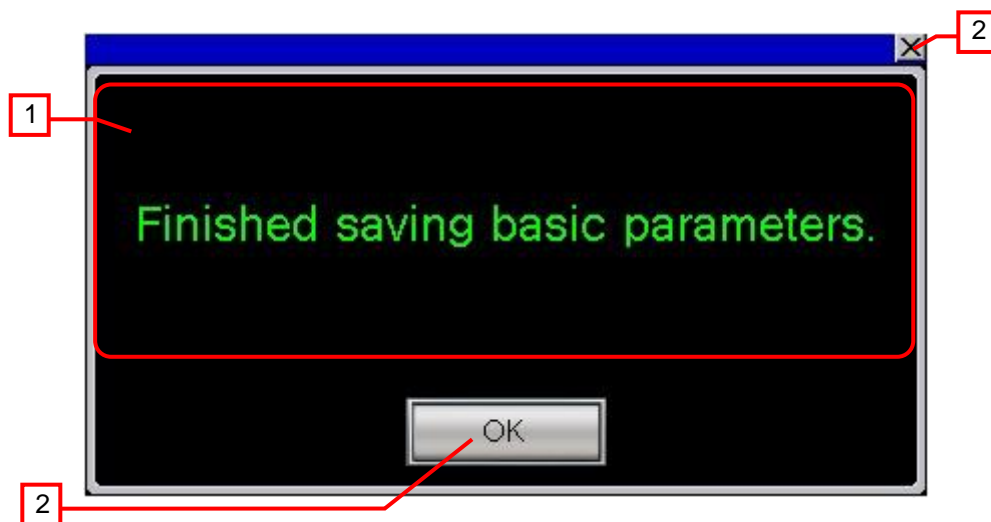
This window screen notifies the processing progress of the step data.

Description

1. Displays the confirmation message.
2. Closes the window screen.

Remarks

5.3.23 Basic Parameters Dialog (W-30108 to 30111)



Outline

This window screen notifies the processing progress of basic parameters.

Description

1. Displays the confirmation message.
2. Closes the window screen.

Remarks

5.3.24 Return to Origin Parameter Dialog (W-30112 to 30115)



Outline

This window screen notifies the processing progress of return to origin parameters.

Description

1. Displays the confirmation message.
2. Closes the window screen.

Remarks

5.3.25 Download Prohibition Dialog (W-30116)



Outline

This window screen is displayed when parameters are protected.

Description

1. Displays the confirmation message.
2. Closes the window screen.

Remarks

5.3.26 Recipe Process Error Dialog (W-30117)



Outline

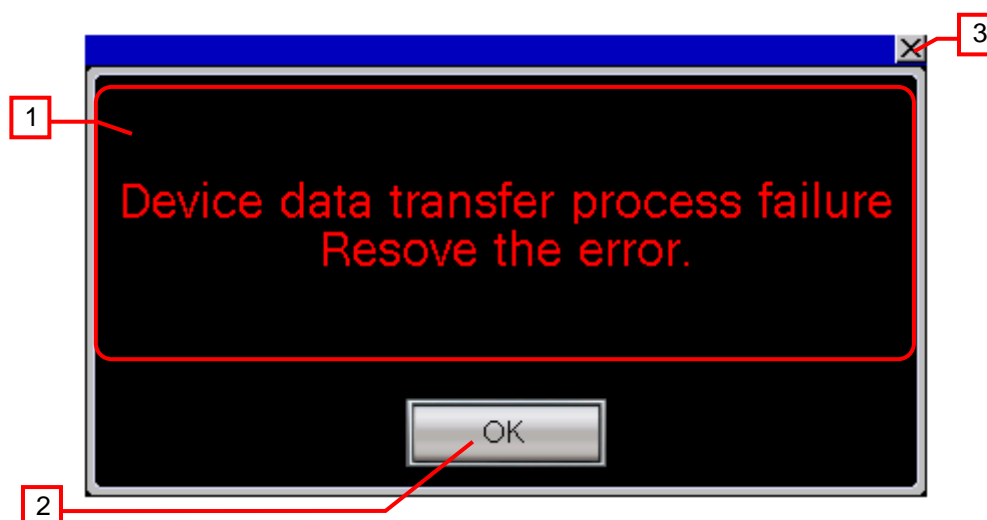
This window screen is displayed when a recipe process error occurs.

Description

1. Displays the confirmation message.
2. Resets the recipe process error and closes the window screen after 1 second.
3. Closes the window screen.

Remarks

5.3.27 Device Data TransferError Dialog (W-30118)



Outline

This window screen is displayed when a device data transfer error occurs.

Description

1. Displays the confirmation message.
2. Closes the window screen after 1 second.
3. Closes the window screen.

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 |
|------|------------------|--|
| Bit | 000001 | OUT0 |
| | 000002 | OUT1 |
| | 000003 | OUT2 |
| | 000004 | OUT3 |
| | 000005 | OUT4 |
| | 000006 | OUT5 |
| | 000007 | BUSY |
| | 000008 | AREA |
| | 000009 | SET-ON |
| | 000010 | INP |
| | 000011 | SVRE |
| | 000012 | *E-STOP |
| | 000013 | *ALARM |
| | 000017 to 000024 | Test drive step No. storage device |
| | 000025 | Temporary stop |
| | 000026 | Servo ON/OFF |
| | 000027 | Test drive trigger |
| | 000029 | Return to origin |
| | 000049 | Operation mode switch |
| | 000050 | Compulsory output mode |
| | 000070 | Alarm reset (The operation of the actuator will also be stopped) |
| | 100001 | IN0 |
| | 100002 | IN1 |
| | 100003 | IN2 |
| | 100004 | IN3 |
| | 100005 | IN4 |
| | 100006 | IN5 |
| | 100007 | SETUP |
| | 100008 | HOLD |
| | 100009 | DRIVE |
| | 100010 | RESET |
| | 100011 | SVON |
| | 100073 | BUSY |
| | 100074 | SVRE |
| | 100075 | SET-ON |
| | 100076 | INP |
| | 100077 | AREA |
| | 100079 | E-STOP |
| | 100080 | ALARM |

| Type | Device No. | Application |
|------|------------------|---|
| Word | 400001 to 400032 | Basic parameter area |
| | 400033 to 400040 | Return to origin parameter area |
| | 400050 to 400052 | JOG initial value |
| | 400138 | Unit system specification |
| | 400897 to 400960 | Alarm history |
| | 401025 to 402048 | Step data area |
| | 436865 | Position |
| | 436867 | Speed |
| | 436868 | Force |
| | 436869 | Target position |
| | 436871 | Step data No. in operation |
| | 436873 to 436876 | Current alarm |
| | 437121 | Operation at a specific value _ operation instruction |
| | 437123 | Operation at a specific value _ movement MOD |
| | 437124 | Operation at a specific value _ speed |
| | 437125 | Operation at a specific value _ position |
| | 437127 | Acceleration |
| | 437128 | Deceleration |
| | 437132 | Moving force |

5.4.2 GOT internal devices

| Type | Device No. | Application |
|------|------------|--|
| Bit | GB40 | Script trigger |
| | GB41 | Script trigger reset |
| | GB61001 | Test drive No. storage trigger |
| | GB61002 | Position acquisition trigger |
| | GB61003 | Position acquisition execution trigger |
| | GB61004 | Move - trigger |
| | GB61005 | Move + trigger |
| | GB61006 | JOG initial value setting trigger |
| | GB61007 | JOG- move trigger |
| | GB61008 | JOG+ move trigger |
| | GB61009 | Movement MOD read flag |
| | GB61010 | Servo operation trigger |
| | GB61011 | Step data movement flag |
| | GB61012 | Movement MOD write trigger |
| | GB61013 | Test mode switch check flag |
| | GB61014 | JOG operation check flag |
| | GB61100 | Step data save trigger |
| | GB61101 | Step data load trigger |
| | GB61102 | Step data upload trigger |
| | GB61103 | Step data download trigger |
| | GB61104 | Step data write check trigger |
| | GB61105 | Recipe transfer operational check flag |
| | GB61106 | Device data transfer check flag |
| | GB61107 | Parameter check flag |
| | GB61200 | Basic parameter save trigger |

| Type | Device No. | Application |
|------|--------------------------|--|
| Bit | GB61201 | Basic parameter load trigger |
| | GB61202 | Basic parameter upload trigger |
| | GB61203 | Basic parameter download trigger |
| | GB61204 | Parameter protection change trigger |
| | GB61300 | Return to origin parameter save trigger |
| | GB61301 | Return to origin parameter load trigger |
| | GB61302 | Return to origin parameter upload trigger |
| | GB61303 | Return to origin parameter download trigger |
| | GD63040.b0 to GD63040.b7 | Step data display flag |
| | GS512.b0 | Time change signal |
| Word | GD10 | Controller No. setting |
| | GD60000 | Base screen switching |
| | GD60001 | Overlap window 1 screen switching |
| | GD60004 | Overlap window 2 screen switching |
| | GD60016 | Superimpose window 1 screen switching |
| | GD60021 | Language switching |
| | GD60022 | System language switching |
| | GD60031, GD60041 | System information |
| | GD60080 to GD60082 | Document display |
| | GD61001 | External control device |
| | GD61002 | Recipe No. storage device |
| | GD61003 | Record No. storage device |
| | GD61004 | External notification device |
| | GD61005 | Recipe No. notification device |
| | GD61006 | Record No. notification device |
| | GD61007 | Movement MOD transfer external control device |
| | GD61008 | Movement MOD transfer external notification device |
| | GD61009 | Step data transfer external control device |
| | GD61010 | Step data transfer external notification device |
| | GD61011 | Basic parameter transfer external control device |
| | GD61012 | Basic parameter transfer external notification device |
| | GD61013 | Return to origin parameter transfer external control device |
| | GD61014 | Return to origin parameter transfer external notification device |
| | GD61015 | Parameter protect transfer external control device |
| | GD61016 | Parameter protect transfer external notification device |
| | GD61100 | Step data No. |
| | GD61101 to GD61164 | Movement MOD storage area |
| | GD61165 | Position storage destination offset |
| | GD61166 to GD61167 | Move distance |
| | GD61168 | Move speed |
| | GD62000 to GD63023 | Step data storage area |
| | GD63101 | B-30003, B-30004 step data offset device |
| | GD63102 | Step data save destination record No. |
| | GD63103 | Parameter protect check device |
| | GD63200 to GD63231 | Basic parameter storage area |
| | GD63300 | Basic parameter save destination record No. |
| | GD63500 to GD63507 | Return to origin parameter storage area |
| | GD63600 | Return to origin parameter save destination record No. |

| Type | Device No. | Application |
|------|--|------------------------------|
| Word | GD63610 | Alarm history display device |
| | GD63611 | Alarm history offset device |
| | GD63990 to GD63995 | Clock digiswitch |
| | GS513 to GS516 | Changed time |
| | GS650 to GS652 | Present time |
| | TMP0800 to TMP0802 TMP950 to TMP996 | For script operation |

5.5 Comment List

| Comment group No. | Comment No. | Where comments are used |
|-------------------|-----------------|-----------------------------|
| 499 | No.48 to 198 | B-30010, B-30011 |
| | No.1 | B-30001 to B-30012, B-30500 |
| 500 | No.2 | B-30001 to B-30012 |
| | No.3 | B-30002 to B-30012 |
| | No.4 | B-30001 |
| | No.5 to 7 | B-30001 to B-30012 |
| | No.9 to 10 | B-30500 |
| | No.11 | B-30002 to B-30012, B-30500 |
| | No.12 | B-30001 to B-30012 |
| | No.100 to 114 | B-30002 |
| | No.200 | B-30003 |
| | No.201 | B-30004 |
| | No.202 to 203 | B-30003, B-30004 |
| | No.204 to 217 | B-30003 |
| | No.218 to 230 | B-30004 |
| | No.231 to 238 | B-30003, B-30004 |
| | No.300 to 302 | B-30005 |
| | No.400 | B-30006 |
| | No.401 | B-30007 |
| | No.402 to 403 | B-30006, B-30007 |
| | No.404 to 416 | B-30006 |
| | No.417 to 427 | B-30007 |
| | No.428 to 432 | B-30006, B-30007 |
| | No.500 to 517 | B-30008 |
| | No.600 to 602 | B-30009 |
| | No.603 | B-30010 |
| | No.604 | B-30011 |
| | No.605 to 609 | B-30010, B-30011 |
| | No.700 to 749 | B-30012 |
| | No.1000 to 1001 | W-30001 |
| | No.1002 | W-30002 |
| | No.1003 to 1010 | W-30003 |
| | No.1100 to 1118 | W-30004 |
| | No.1400 to 1402 | W-30100 |
| | No.1500 | W-30101 |
| | No.1501 | W-30102 |
| | No.1502 | W-30103 |
| | No.1503 | W-30101 to W-30103 |
| | No.1504 | W-30102 |
| | No.1600 to 1601 | W-30104 |
| | No.1602 to 1603 | W-30105 |
| | No.1604 to 1605 | W-30106 |
| | No.1606 to 1607 | W-30107 |
| | No.1608 | W-30104 to W-30107 |
| | No.1700 to 1701 | W-30108 |
| | No.1702 to 1703 | W-30109 |
| | No.1704 to 1705 | W-30110 |

| Comment group No. | Comment No. | Where comments are used |
|-------------------|-----------------|-------------------------|
| 500 | No.1706 to 1707 | W-30111 |
| | No.1708 | W-30108 to W-30111 |
| | No.1800 to 1801 | W-30112 |
| | No.1802 to 1803 | W-30113 |
| | No.1804 to 1805 | W-30114 |
| | No.1806 to 1807 | W-30115 |
| | No.1808 | W-30112 to W-30115 |
| | No.1900 to 1901 | W-30116 |
| | No.2000 to 2001 | W-30117 |
| | No.2100 to 2101 | W-30118 |

5.6 Script List

| Item | Settings |
|----------------|--|
| Project script | Specified |
| Screen script | B-30002, B-30003, B-30004, B-30006, B-30007, B-30008 , B-30500 |
| Object script | 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:GD10] =1; //Indirect Specification Destination Initial Value [w:GD63102]=1; //Step Data Save Destination Record No. Initial Value [w:GD63300]=1; //Basic Step Data Save Destination Record No. Initial Value [w:GD63600]=1; //Return to Origin Step Data Save Destination Record No. Initial Value [w:GD61168]=5; //Move Speed Initial Value set([b:GB61009]); //Movement MOD Acquisition Initial Processing | | | |

5.6.2 Screen script

Base screen 30002

| | | | |
|---|---------------------------|--------------|---------------|
| Script No. | 30003 | Script name | Script30003 |
| Comment | Movement MOD Acquisition | | |
| Data type | Signed BIN16 | Trigger type | ON, GB40 |
| //Obtain the movement MOD of the step data when starting the screen or changing connection destination. if([b:GB61009] == ON) { //Movement MOD Transfer Trigger ON set([b:GD61007.b0]); //Flag Reset rst([b:GB61009]); } | | | |
| Script No. | 30004 | Script name | Script30004 |
| Comment | JOG Initial Value Setting | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61006 |
| //Set the JOG move initial value. This works in conjunction with the device data transfer. //JOG Acceleration [1-248:w:437127]=[1-248:w:400050]; //JOG Deceleration [1-248:w:437128]=[1-248:w:400051]; //JOG Moving Force [1-248:w:437132] = [1-248:w:400052]; //Flag Reset rst([b:GB61006]); | | | |
| Script No. | 30005 | Script name | Script30005 |
| Comment | Step No. Write | | |
| Data type | Signed BIN16 | Trigger type | ON, GB61001 |
| //When the teaching step No. is entered, write the number to the controller. //Write Step No. to Controller [1-248:b:000017] = [b:GD61100.b0]; [1-248:b:000018] = [b:GD61100.b1]; [1-248:b:000019] = [b:GD61100.b2]; | | | |

| | | | |
|--|----------------------|--------------|---------------|
| [1-248:b:000020] = [b:GD61100.b3]; [1-248:b:000021] = [b:GD61100.b4]; [1-248:b:000022] = [b:GD61100.b5]; [1-248:b:000023] = [b:GD61100.b6]; [1-248:b:000024] = [b:GD61100.b7]; //Calculate Storage Destination Offset [w:GD61165] = [w:GD61100] * 16; //Trigger Reset rst([b:GB61001]); | | | |
| Script No. | 30006 | Script name | Script30006 |
| Comment | Position Acquisition | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61002 |
| //Display the check dialog depending on the movement MOD of the storage destination. //Change the window screen depending on the movement MOD of the storage destination. switch([w:GD61101[w:GD61100]]){ //No Setting case 0: [w:GD60004] = 30101; break; //ABS case 1: [w:GD60004] = 30102; break; //INC case 2: [w:GD60004] = 30103; break; } //Flag Reset rst([b:GB61002]); | | | |
| Script No. | 30007 | Script name | Script30007 |
| Comment | Move Distance - | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61004 |
| //Execute Move Distance - Move //Store Move Distance [1-248:s32:437125] = 0 - [s32:GD61166]; //Store Speed [1-248:s16:437124] = [s16:GD61168]; //Execute Move Distance - Move set([1-248:b:437121.b8]); //Flag Reset rst([b:GB61004]); | | | |
| Script No. | 30008 | Script name | Script30008 |
| Comment | Move Distance + | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61005 |
| //Execute Move Distance + Move //Store Move Distance [1-248:s32:437125] = [s32:GD61166]; //Store Speed [1-248:s16:437124] = [s16:GD61168]; | | | |

| | | | |
|--|-----------------|--------------|---------------|
| <pre>//Execute Move Distance + Move set([1-248:b:437121.b8]); //Flag Reset rst([b:GB61005]);</pre> | | | |
| Script No. | 30009 | Script name | Script30009 |
| Comment | JOG- | | |
| Data type | Signed BIN16 | Trigger type | Fall, GB61007 |
| <pre>//Stop JOG - Move if([b:GB61014] == ON){ //Stop JOG - Move set([1-248:b:000070]); ///JOG operation check flag reset rst([b:GB61014]); }</pre> | | | |
| Script No. | 30010 | Script name | Script30010 |
| Comment | JOG+ | | |
| Data type | Signed BIN16 | Trigger type | Fall, GB61008 |
| <pre>//Stop JOG + Move if([b:GB61014] == ON){ //Stop JOG + Move set([1-248:b:000070]); //JOG operation check flag reset rst([b:GB61014]); }</pre> | | | |
| Script No. | 30011 | Script name | Script30011 |
| Comment | Servo Operation | | |
| Data type | Signed BIN16 | Trigger type | Fall, GB61010 |
| <pre>//When move to the test mode, turn on the servo; when move to the monitor mode, turn off the servo. if([b:GB61013] == ON){ if([1-248:b:000049] == OFF){ //Compulsory Output Mode OFF rst([1-248:b:000050]); //Servo ON set([1-248:b:000026]); } //Operation Mode Change alt([1-248:b:000049]); //Close Guidance [w:GD60004] = 0; //Test mode switch confirmation trigger OFF rst([b:GB61013]); }</pre> | | | |
| Script No. | 30012 | Script name | Script30012 |
| Comment | Position Write | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61003 |
| <pre>//When the movement MOD of the position storage destination is ABS, write the current position to the position of the target step data. //Store Position to Step Data [1-248:s32:401027[w:GD61165]] = [1-248:s32:436865]; //Flag Reset rst([b:GB61003]);</pre> | | | |

| | | | |
|--|------------------------------|--------------|-----------------------|
| Script No. | 30013 | Script name | Script30013 |
| Comment | Step Data Display Setting 1 | | |
| Data type | Signed BIN16 | Trigger type | Ordinary |
| <pre>//Check the movement MOD of the step data No. which is specified by teaching. //If it is not set, do not display the numerical value in the //step data check screen window. //Check Movement MOD of Step Data if([1-248:w:401025[w:GD61165]] == 0){ //If Not Set, Turn On Flag set([b:GB61011]); } else{ //If Set, Turn Off Flag rst([b:GB61011]); }</pre> | | | |
| Script No. | 30014 | Script name | Script30014 |
| Comment | Movement MOD Write | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61012 |
| <pre>//When the movement MOD is changed from the step data check screen, //change the movement MOD of the controller and the movement MOD storage area. //Change the value depending on the value of the movement MOD storage area. switch([w:GD61101[w:GD61100]]){ //Value 0 case 0: [w:GD61101[w:GD61100]] =1; [1-248:s16:401025[w:GD61165]] =1; break; //Value 1 case 1: [w:GD61101[w:GD61100]] =2; [1-248:s16:401025[w:GD61165]] =2; break; //Value 2 case 2: [w:GD61101[w:GD61100]] =0; [1-248:s16:401025[w:GD61165]] =0; break; } //Flag Reset rst([b:GB61012]);</pre> | | | |
| Script No. | 30015 | Script name | Script30015 |
| Comment | Movement MOD Read Flag Reset | | |
| Data type | Signed BIN16 | Trigger type | When closing a screen |
| <pre>//When closing the screen, reset the movement MOD read flag and the step data storage area. //Movement MOD Read Flag Reset set([b:GB61009]); //OFF in case of test mode if([b:000049] == ON){ rst([b:000049]); } //Test mode switch confirmation trigger reset rst([b:GB61013]); //JOG operation check flag reset</pre> | | | |

rst([b:GB61014]);

Base screen 30003, 30004

| | | | |
|---|-----------------------------|--------------|-------------|
| Script No. | 30016 | Script name | Script30016 |
| Comment | Step Data Display Setting 2 | | |
| Data type | Signed BIN16 | Trigger type | Ordinary |
| //In the Step Data Edit screen, set the flag to switch numerical value display depending on the movement MOD. | | | |
| //Line 1 | | | |
| if([w:GD62000[w:GD63101]] == 0){ | | | |
| set([b:GD63040.b0]); | | | |
| } | | | |
| else{ | | | |
| rst([b:GD63040.b0]); | | | |
| } | | | |
| //Line 2 | | | |
| if([w:GD62016[w:GD63101]] == 0){ | | | |
| set([b:GD63040.b1]); | | | |
| } | | | |
| else{ | | | |
| rst([b:GD63040.b1]); | | | |
| } | | | |
| //Line 3 | | | |
| if([w:GD62032[w:GD63101]] == 0){ | | | |
| set([b:GD63040.b2]); | | | |
| } | | | |
| else{ | | | |
| rst([b:GD63040.b2]); | | | |
| } | | | |
| //Line 4 | | | |
| if([w:GD62048[w:GD63101]] == 0){ | | | |
| set([b:GD63040.b3]); | | | |
| } | | | |
| else{ | | | |
| rst([b:GD63040.b3]); | | | |
| } | | | |
| //Line 5 | | | |
| if([w:GD62064[w:GD63101]] == 0){ | | | |
| set([b:GD63040.b4]); | | | |
| } | | | |
| else{ | | | |
| rst([b:GD63040.b4]); | | | |
| } | | | |
| //Line 6 | | | |
| if([w:GD62080[w:GD63101]] == 0){ | | | |
| set([b:GD63040.b5]); | | | |
| } | | | |
| else{ | | | |
| rst([b:GD63040.b5]); | | | |
| } | | | |
| //Line 7 | | | |
| if([w:GD62096[w:GD63101]] == 0){ | | | |
| set([b:GD63040.b6]); | | | |

```

}
else{
  rst([b:GD63040.b6]);
}

```

```

//Line 8
if([w:GD62112[w:GD63101]] == 0){
  set([b:GD63040.b7]);
}
else{
  rst([b:GD63040.b7]);
}

```

| | | | |
|------------|------------------------------|--------------|---------------|
| Script No. | 30017 | Script name | Script30017 |
| Comment | Step Data Save Preprocessing | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61100 |

//After starting the recipe read of the step data, turn off the step data save trigger.

```

if([b:GD61004.b15] == OFF){
  //Specify the read destination recipe No. from the controller No. setting and store the data.
  [w:GD61002] = [w:GD10] + 30000;
  //Store Read Destination Record No.
  [w:GD61003] = [w:GD63102];
  //Turn On Read Trigger
  set([b:GD61001.b1]);
  //Turn Off Step Data Save Trigger
  rst([b:GB61100]);
  //Display Step Data Save Dialog
  [w:GD60004] = 30104;
}
//Displays the Recipe Process Error Dialog if an error has occurred.
else{
  //Displays the Recipe Process Error Dialog.
  [w:GD60004] = 30117;
  //Turn Off Step Data Save Trigger
  rst([b:GB61100]);
}

```

| | | | |
|------------|--------------------------------|--------------|------------------|
| Script No. | 30018 | Script name | Script30018 |
| Comment | Step Data Save Post-processing | | |
| Data type | Signed BIN16 | Trigger type | Rise, GD61004.b1 |

//After checking the recipe read, turn off the read trigger.

```

//Read Trigger OFF
rst([b:GD61001.b1]);

```

| | | | |
|------------|------------------------------|--------------|---------------|
| Script No. | 30019 | Script name | Script30019 |
| Comment | Step Data Load Preprocessing | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61101 |

//After starting the recipe write of the step data, turn off the step data load trigger.

```

if([b:GD61004.b15] == OFF){
  //Specify the write recipe No. from the controller No. setting and store the data.
  [w:GD61002] = [w:GD10] + 30000;
  //Store Write Record No.
  [w:GD61003] = [w:GD63102];
  //Turn On Write Trigger
  set([b:GD61001.b0]);
  //Turn Off Step Data Load Trigger
  rst([b:GB61101]);
  //Display Step Data Load Dialog
  [w:GD60004] = 30105;
}
//Displays the Recipe Process Error Dialog if an error has occurred.

```

| | | | |
|---|----------------------------------|--------------|------------------|
| <pre> else{ //Displays the Recipe Process Error Dialog. [w:GD60004] = 30117; //Turn Off Step Data Load Trigger rst([b:GB61101]); } </pre> | | | |
| Script No. | 30020 | Script name | Script30020 |
| Comment | Step Data Load Post-processing | | |
| Data type | Signed BIN16 | Trigger type | Rise, GD61004.b0 |
| <pre> //After checking the recipe write, turn off the write trigger. //Write Trigger OFF rst([b:GD61001.b0]); </pre> | | | |
| Script No. | 30021 | Script name | Script30021 |
| Comment | Step Data Upload Process | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61102 |
| <pre> //After starting the device data transfer of the step data, turn off the step data upload trigger. //Turn ON Device Data Transfer Trigger set([b:GD61009.b0]); //Step Data Upload Trigger OFF rst([b:GB61102]); //Device Data Transfer Trigger Operational Check ON set([b:GB61106]); </pre> | | | |
| Script No. | 30022 | Script name | Script30022 |
| Comment | Step Data Download Process | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61103 |
| <pre> //After starting the device data transfer of the step data, turn off the step data download trigger. //Check the parameter protection of basic parameters and //check if it is allowed to download the step data. [w:TMP0800] = [w:GD63103] & 0x00FF; [w:GD1000]=[w:TMP0800]; if([w:TMP0800] == 2){ [w:GD60004] = 30116; //Step Data Download Trigger OFF rst([b:GB61103]); } else{ //Turn ON Transfer Source Inversion Flag set([b:GD61009.b1]); //Turn ON Device Data Transfer Trigger set([b:GD61009.b0]); //Step Data Download Trigger OFF rst([b:GB61103]); //Device Data Transfer Trigger Operational Check ON set([b:GB61106]); } </pre> | | | |
| Script No. | 30023 | Script name | Script30023 |
| Comment | DisplaysDeviceDataTransferDialog | | |
| Data type | Signed BIN16 | Trigger type | ON, GB61106 |
| <pre> //Displays the Device Data Transfer Dialog. //When a Device Data Transfer error occurs. if([b:GD61010.b15] == ON){ if([b:GD61010.b0] == OFF){ if([b:GD61009.b0] == OFF){ [w:GD60004] = 30118; </pre> | | | |

```

    rst([b:GB61106]);
  }
}
//During device data transfer.
if([b:GD61010.b0] == ON){
  if([b:GD61009.b0] == ON){
    if([b:GD61009.b1] == ON){
      //Displays the Upload in progress window.
      [w:GD60004] = 30107;
      //Turn OFF Transfer Source Inversion Flag
      rst([b:GD61009.b1]);
    }
  }
  //Displays the Download in progress window.
  [w:GD60004] = 30106;
}
//Device Data Transfer Trigger OFF
rst([b:GD61009.b0]);
}
}
//Wait For Device Data Transfer Completion
if([b:GD61010.b15] == OFF){
  if([b:GD61010.b0] == OFF){
    if([b:GD61009.b0] == OFF){
      rst([b:GB61106]);
    }
  }
}
}

```

| | | | |
|------------|-----------------------|--------------|---------------|
| Script No. | 30025 | Script name | Script30025 |
| Comment | Step Data Write Check | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61104 |

/ //Loads the parameter protect of basic parameter.

```

//Initialize the parameter protect check device.
[w:GD63103] = 0;
//Turn ON Device Data Transfer Trigger
set([b:GD61015.b0]);
//Parameter check flag ON
set([b:GB61107]);
//Flag Reset
rst([b:GB61104]);

```

| | | | |
|------------|----------------------|--------------|-------------------|
| Script No. | 30043 | Script name | Script30043 |
| Comment | Recipe Error Process | | |
| Data type | Signed BIN16 | Trigger type | Rise, GD61004.b15 |

//Displays a dialog when a recipe error process occurs.

```

if([b:GB61105] == OFF){
  [w:GD60004] = 30117;
  set([b:GB61105]);
}

```

| | | | |
|------------|--------------|--------------|-----------------------|
| Script No. | 30044 | Script name | Script30044 |
| Comment | Flag Reset | | |
| Data type | Signed BIN16 | Trigger type | When closing a screen |

//Resets the flag when closing the screen.

```

rst([b:GB61106]);

```

| | | | |
|------------|--------------------------|-------------|-------------|
| Script No. | 30045 | Script name | Script30045 |
| Comment | Parameters Protect Check | | |

| Data type | Signed BIN16 | Trigger type | ON, GB61107 |
|--|--------------|--------------|-------------|
| <pre>//Checks parameter protect is loaded. if([b:GD61015.b0] == ON){ if([b:GD61016.b0] == ON){ rst([b:GD61015.b0]); } } //Clears the flag after device data transfer is completed. if([b:GD61015.b0] == OFF){ if([b:GD61016.b0] == OFF){ set([b:GB61103]); rst([b:GB61107]); } } }</pre> | | | |

Base screen 30006

| Script No. | 30042 | Script name | Script30042 |
|--|-------------------------------|--------------|---------------|
| Comment | Parameters Protect Processing | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61204 |
| <pre>//Processing When Changing Parameters Protection //Parameters Protection Initial Processing [w:TMP0801] = [w:GD63212] & 255; [w:TMP0802] = [w:GD63212] >> 8; [w:TMP0802] = [w:TMP0802] << 8; //Change the processing depending on the numerical value of the parameters protection. if([w:TMP801] == 1){ [w:GD63212] = [w:TMP0802] 2; } else{ [w:GD63212] = [w:TMP0802] 1; } //Flag Reset rst([b:GB61204]);</pre> | | | |

Base screen 30006, 30007

| Script No. | 30026 | Script name | Script30026 |
|---|--------------------------------|--------------|---------------|
| Comment | Basic Param Save Preprocessing | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61200 |
| <pre>//After starting the recipe read of basic parameters, turn off the basic parameter save trigger. if([b:GD61004.b15] == OFF){ //Specify the read destination recipe No. from the controller No. setting and store the data. [w:GD61002] = [w:GD10] + 30100; //Store Read Destination Record No. [w:GD61003] = [w:GD63300]; //Turn On Read Trigger set([b:GD61001.b1]); //Turn Off Basic Parameters Save Trigger rst([b:GB61200]); //Display Step Data Save Dialog [w:GD60004] = 30108; } //Displays the Recipe Process Error Dialog if an error has occurred. else{ //Displays the Recipe Process Error Dialog.</pre> | | | |

| | | | |
|---|----------------------------------|--------------|------------------|
| [w:GD60004] = 30117; //Turn Off Basic Parameters Save Trigger rst([b:GB61200]); } | | | |
| Script No. | 30027 | Script name | Script30027 |
| Comment | Basic Param Save Post-processing | | |
| Data type | Signed BIN16 | Trigger type | Rise, GD61004.b1 |
| //After checking the recipe reading notification signal, turn off the read trigger. //Read Trigger OFF rst([b:GD61001.b1]); | | | |
| Script No. | 30028 | Script name | Script30028 |
| Comment | Basic Param Load Preprocessing | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61201 |
| //After starting the recipe write of basic parameters, turn off the basic parameter load trigger. if([b:GD61004.b15] == OFF){ //Specify the write recipe No. from the controller No. setting and store the data. [w:GD61002] = [w:GD10] + 30100; //Store Write Record No. [w:GD61003] = [w:GD63300]; //Turn On Write Trigger set([b:GD61001.b0]); //Turn Off Basic Parameters Load Trigger rst([b:GB61201]); //Display Step Data Load Dialog [w:GD60004] = 30109; } //Displays the Recipe Process Error Dialog if an error has occurred. else{ //Displays the Recipe Process Error Dialog. [w:GD60004] = 30117; //Turn Off Basic Parameters Load Trigger rst([b:GB61201]); } | | | |
| Script No. | 30029 | Script name | Script30029 |
| Comment | Basic Param Load Post-processing | | |
| Data type | Signed BIN16 | Trigger type | Rise, GD61004.b0 |
| //After checking the recipe writing notification signal, turn off the write trigger. //Write Trigger OFF rst([b:GD61001.b0]); | | | |
| Script No. | 30030 | Script name | Script30030 |
| Comment | Basic Parameter Upload Process | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61202 |
| //After starting the device data transfer of basic parameters, turn off the basic parameters upload trigger. //Turn ON Device Data Transfer Trigger set([b:GD61011.b0]); //Basic Parameters Upload Trigger OFF rst([b:GB61202]); //Device Data Transfer Trigger Operational Check ON set([b:GB61106]); | | | |
| Script No. | 30031 | Script name | Script30031 |
| Comment | Basic Parameter Download Process | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61203 |

| | | | |
|--|----------------------------------|--------------|-------------------|
| //After starting the device data transfer of basic parameters, turn off the basic parameters download trigger. | | | |
| //Turn ON Transfer Source Inversion Flag set([b:GD61011.b1]); //Turn ON Device Data Transfer Trigger set([b:GD61011.b0]); //Basic Parameters Download Trigger OFF rst([b:GB61203]); //Device Data Transfer Trigger Operational Check ON set([b:GB61106]); | | | |
| Script No. | 30032 | Script name | Script30032 |
| Comment | DisplaysDeviceDataTransferDialog | | |
| Data type | Signed BIN16 | Trigger type | ON, GB61106 |
| //Displays the Device Data Transfer Dialog. //When a Device Data Transfer error occurs. if([b:GD61012.b15] == ON){ if([b:GD61012.b0] == OFF){ if([b:GD61011.b0] == OFF){ [w:GD60004] = 30118; rst([b:GB61106]); } } } //During device data transfer. if([b:GD61012.b0] == ON){ if([b:GD61011.b0] == ON){ if([b:GD61011.b1] == ON){ //Displays the Upload in progress window. [w:GD60004] = 30111; //Turn OFF Transfer Source Inversion Flag rst([b:GD61011.b1]); } else{ //Displays the Download in progress window. [w:GD60004] = 30110; } } //Device Data Transfer Trigger OFF rst([b:GD61011.b0]); } } //Wait For Device Data Transfer Completion if([b:GD61012.b15] == OFF){ if([b:GD61012.b0] == OFF){ if([b:GD61011.b0] == OFF){ rst([b:GB61106]); } } } } | | | |
| Script No. | 30043 | Script name | Script30043 |
| Comment | Recipe Error Process | | |
| Data type | Signed BIN16 | Trigger type | Rise, GD61004.b15 |
| //Displays a dialog when a recipe error process occurs. if([b:GB61105] == OFF){ [w:GD60004] = 30117; set([b:GB61105]); } | | | |
| Script No. | 30044 | Script name | Script30044 |
| Comment | Flag Reset | | |

| | | | |
|---|--------------|--------------|-----------------------|
| Data type | Signed BIN16 | Trigger type | When closing a screen |
| //Resets the flag when closing the screen. rst([b:GB61106]); | | | |

Base screen 30008

| | | | |
|---|----------------------------------|--------------|------------------|
| Script No. | 30034 | Script name | Script30034 |
| Comment | RTN to ORIG Param Save Preproc | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61300 |
| //After starting the recipe read of return to origin parameters, turn off the return to origin parameter save trigger. if([b:GD61004.b15] == OFF){ //Specify the read destination recipe No. from the controller No. setting and store the data. [w:GD61002] = [w:GD10] + 30200; //Store Read Destination Record No. [w:GD61003] = [w:GD63600]; //Turn On Read Trigger set([b:GD61001.b1]); //Turn Off Return to Origin Parameters Save Trigger rst([b:GB61300]); //Display Step Data Save Dialog [w:GD60004] = 30112; } //Displays the Recipe Process Error Dialog if an error has occurred. else{ //Displays the Recipe Process Error Dialog. [w:GD60004] = 30117; //Turn Off Return to Origin Parameters Save Trigger rst([b:GB61300]); } | | | |
| Script No. | 30035 | Script name | Script30035 |
| Comment | RTN to ORIG Param Save Post-proc | | |
| Data type | Signed BIN16 | Trigger type | Rise, GD61004.b1 |
| //After checking the recipe reading notification signal, turn off the read trigger. //Read Trigger OFF rst([b:GD61001.b1]); | | | |
| Script No. | 30036 | Script name | Script30036 |
| Comment | RTN to ORIG Param Load Preproc | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61301 |
| //After starting the recipe write of return to origin parameters, turn off the return to origin parameters load trigger. if([b:GD61004.b15] == OFF){ //Specify the write recipe No. from the controller No. setting and store the data. [w:GD61002] = [w:GD10] + 30200; //Store Write Record No. [w:GD61003] = [w:GD63600]; //Turn On Write Trigger set([b:GD61001.b0]); //Turn Off Return to Origin Parameters Load Trigger rst([b:GB61301]); //Display Step Data Load Dialog [w:GD60004] = 30113; } //Displays the Recipe Process Error Dialog if an error has occurred. else{ //Displays the Recipe Process Error Dialog. | | | |

| | | | |
|---|----------------------------------|--------------|------------------|
| [w:GD60004] = 30117; //Turn Off Return to Origin Parameters Save Trigger rst([b:GB61301]); } | | | |
| Script No. | 30037 | Script name | Script30037 |
| Comment | RTN to ORIG Param Load Post-proc | | |
| Data type | Signed BIN16 | Trigger type | Rise, GD61004.b0 |
| //After checking the recipe writing notification signal, turn off the write trigger. //Write Trigger OFF rst([b:GD61001.b0]); | | | |
| Script No. | 30038 | Script name | Script30038 |
| Comment | RTN to ORIG Param UL Process | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61302 |
| //After starting the device data transfer of return to origin parameters, turn off the return to origin parameters upload trigger. //Turn ON Device Data Transfer Trigger set([b:GD61013.b0]); //Return to Origin Parameters Upload Trigger OFF rst([b:GB61302]); //Device Data Transfer Trigger Operational Check ON set([b:GB61106]); | | | |
| Script No. | 30039 | Script name | Script30039 |
| Comment | RTN to ORIG Param DL Process | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61303 |
| //After starting the device data transfer of return to origin parameters, turn off the return to origin parameters download trigger. //Turn ON Transfer Source Inversion Flag set([b:GD61013.b1]); //Turn ON Device Data Transfer Trigger set([b:GD61013.b0]); //Return to Origin Parameters Download Trigger OFF rst([b:GB61303]); //Device Data Transfer Trigger Operational Check ON set([b:GB61106]); | | | |
| Script No. | 30040 | Script name | Script30040 |
| Comment | DisplaysDeviceDataTransferDialog | | |
| Data type | Signed BIN16 | Trigger type | Rise, GB61106 |
| //Displays the Device Data Transfer Dialog. //When a Device Data Transfer error occurs. if([b:GD61014.b15] == ON){ if([b:GD61014.b0] == OFF){ if([b:GD61013.b0] == OFF){ [w:GD60004] = 30118; rst([b:GB61106]); } } } //During device data transfer. if([b:GD61014.b0] == ON){ if([b:GD61013.b0] == ON){ if([b:GD61013.b1] == ON){ //Displays the Upload in progress window. [w:GD60004] = 30115; //Turn OFF Transfer Source Inversion Flag rst([b:GD61013.b1]); | | | |

| | | | |
|--|----------------------|--------------|-----------------------|
| <pre> } else{ //Displays the Download in progress window. [w:GD60004] = 30114; } //Device Data Transfer Trigger OFF rst([b:GD61013.b0]); } } //Wait For Device Data Transfer Completion if([b:GD61014.b15] == OFF){ if([b:GD61014.b0] == OFF){ if([b:GD61013.b0] == OFF){ rst([b:GB61106]); } } } } } </pre> | | | |
| Script No. | 30043 | Script name | Script30043 |
| Comment | Recipe Error Process | | |
| Data type | Signed BIN16 | Trigger type | Rise, GD61004.b15 |
| <pre> //Displays a dialog when a recipe error process occurs. if([b:GB61105] == OFF){ [w:GD60004] = 30117; set([b:GB61105]); } </pre> | | | |
| Script No. | 30044 | Script name | Script30044 |
| Comment | Flag Reset | | |
| Data type | Signed BIN16 | Trigger type | When closing a screen |
| <pre> //Resets the flag when closing the screen. rst([b:GB61106]); </pre> | | | |

Base screen 30500

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

5.6.3 Object script

Base screen 30500

| | | | |
|---|----------------|--------------|----------------|
| Object | Switch | Object ID *1 | 20041 |
| Script user ID | 1 | | |
| Data type | Unsigned BIN16 | Trigger type | Device Writing |
| <pre> //Prevents exceeding the total number of the document pages. if([u16:GD60081] >= [u16:GD60082]){ [u16:GD60081] = [u16:GD60082] - 1; } </pre> | | | |

Window screen 30003

| | | | |
|---|-------------------|--------------|------------|
| Object | Numerical Display | Object ID *1 | 10014 |
| 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 | Object ID *1 | 10015 |
| Script user ID | 2 | | |
| Data type | Unsigned BIN16 | Trigger type | Ordinary |
| //BIN -> BCD Conversion [w:TMP979] = [w:GD63990] - 2000; //Last 2-Digits of Year [w:TMP980] = (([w:TMP979] / 10) << 4) + ([w:TMP979] % 10); //Year BIN -> BCD [w:TMP981] = (([w:GD63991] / 10) << 4) + ([w:GD63991] % 10); //Month BIN -> BCD | | | |

| | | | |
|---|-------------------|--------------|----------|
| [w:TMP982] = (([w:GD63992] / 10) << 4) + ([w:GD63992] % 10); //Day BIN -> BCD [w:TMP983] = (([w:GD63993] / 10) << 4) + ([w:GD63993] % 10); //Hour BIN -> BCD [w:TMP984] = (([w:GD63994] / 10) << 4) + ([w:GD63994] % 10); //Minute BIN -> BCD [w:TMP985] = (([w:GD63995] / 10) << 4) + ([w:GD63995] % 10); //Second BIN -> BCD | | | |
| Object | Numerical Display | Object ID *1 | 10016 |
| Script user ID | 3 | | |
| Data type | Unsigned BIN16 | Trigger type | Ordinary |
| //Year & Month Setting | | | |
| [w:GS513] = ([w:TMP980] << 8) + [w:TMP981]; //Set Year & Month to Change Time Device | | | |
| Object | Numerical Display | Object ID *1 | 10017 |
| Script user ID | 4 | | |
| Data type | Unsigned BIN16 | Trigger type | Ordinary |
| //Date & Time Setting | | | |
| [w:GS514] = ([w:TMP982] << 8) + [w:TMP983]; //Set Date & Time to Change Time Device | | | |
| Object | Numerical Display | Object ID *1 | 10018 |
| Script user ID | 5 | | |
| Data type | Unsigned BIN16 | Trigger type | Ordinary |
| //Minute & Second Setting | | | |
| [w:GS515] = ([w:TMP984] << 8) + [w:TMP985]; //Set Minute & Second to Change Time Device | | | |
| Object | Numerical Display | Object ID *1 | 10019 |
| Script user ID | 6 | | |
| Data type | Unsigned BIN16 | Trigger type | Ordinary |
| //Day of Week Setting | | | |
| [w:TMP986] = [w:GD63990]; //Year (BIN) [w:TMP987] = [w:GD63991]; //Month (BIN) [w:TMP988] = [w:GD63992]; //Day (BIN) if(([w:TMP987] == 1) ([w:TMP987] == 2)){ //Correction Processing to Calculate January and February as 13th/14th Month [w:TMP986] = [w:TMP986] - 1; //Subtract 1 from Year [w:TMP987] = [w:TMP987] + 12; //Add 12 to Month } [w:TMP989] = [w:TMP986]/4; //Create Items Required for Zeller's Congruence [w:TMP990] = [w:TMP986]/100; //Create Items Required for Zeller's Congruence [w:TMP991] = [w:TMP986]/400; //Create Items Required for Zeller's Congruence [w:TMP992] = (13*[w:TMP987]+8)/5; //Create Items Required for Zeller's Congruence //Calculate Day of Week Using Zeller's Congruence and Set the Day to Change Time Device [w:GS516] = ([w:TMP986]+[w:TMP989]-[w:TMP990]+[w:TMP991]+[w:TMP992]+[w:TMP988])%7; | | | |

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

6. MANUAL DISPLAY

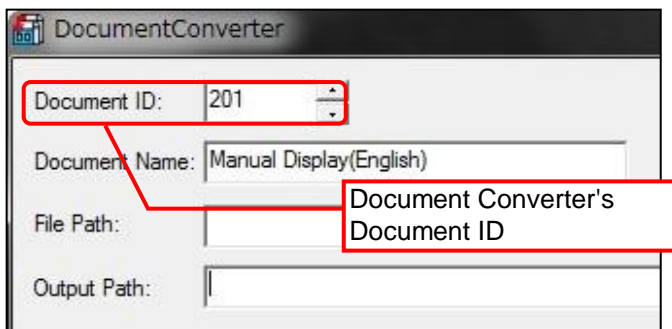
Manuals can be displayed using the document display function. For more details about the document display function, please refer to the "GT Designer3 (GOT2000) Help". Please note that the document display function does not support language switching. Therefore, in the sample screens, the language of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

6.1 Preparing Document Data for Manual Display

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

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

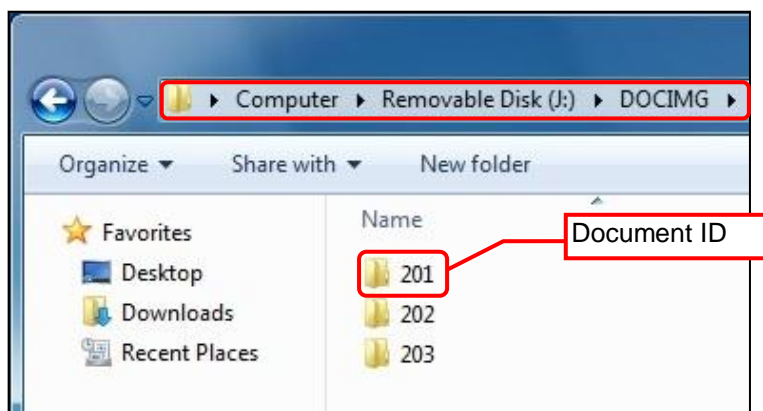
*For details of the relation between Document ID and Display language, please refer to the table below.



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

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

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



SD card folder configuration

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

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