

# IAI Corporation Robot Controller

## SCON Series

SCON-C-60IHA-CC-0-1

## PCON Series

PCON-C-28PI-CC-0-0

## ACON Series

ACON-C-10ILA-CC-0-0

## Sample Screen Manual

Mitsubishi Electric Corporation

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## REVISIONS

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### Sample Screen Manual

Date	Control No.*	Description
2017/12	BCN-P5999-0949	First edition

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

### Project Data

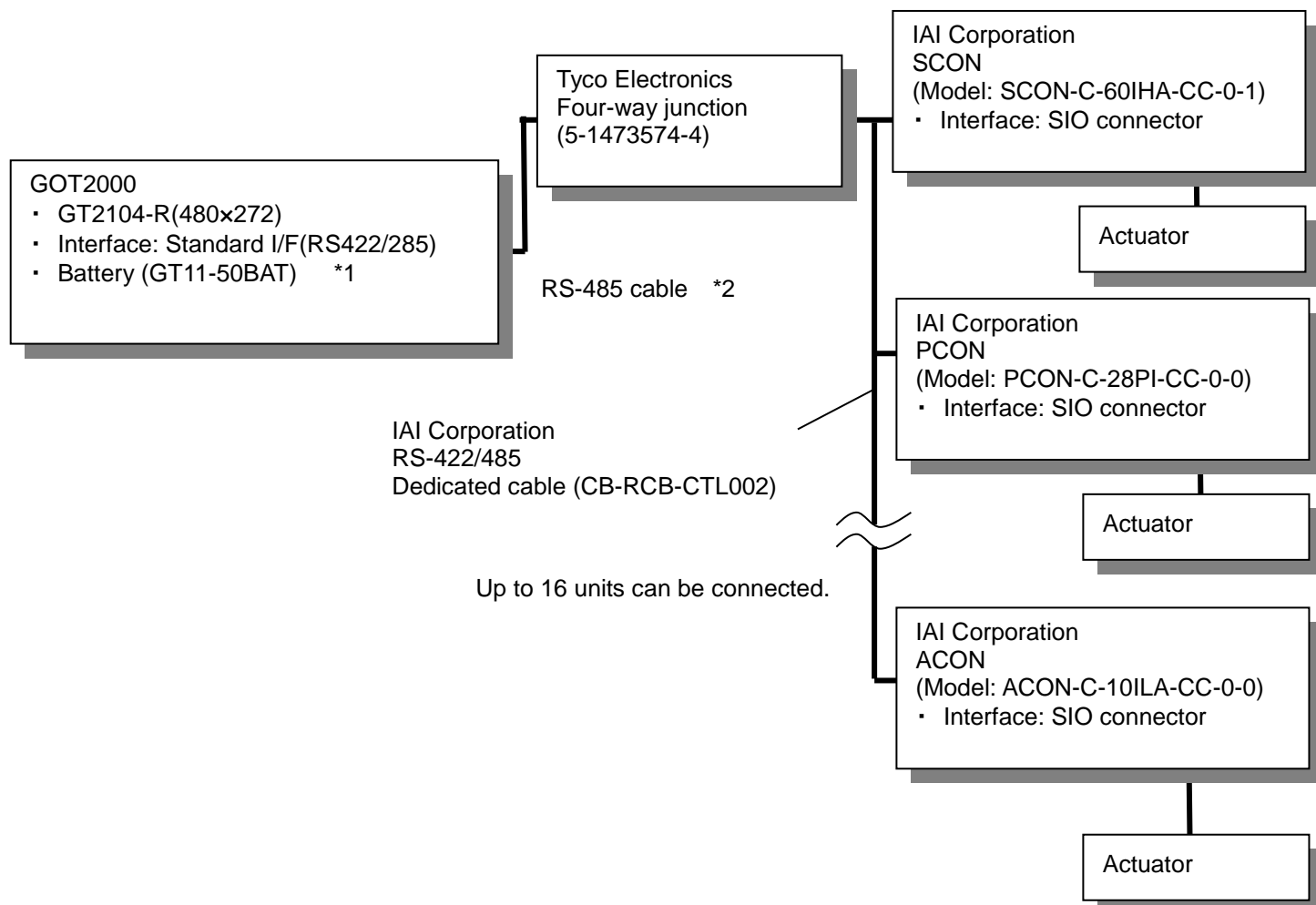
Date	Project data	GT Designer3*	Description
2017/12	GT21_IAI_S_P_ACON_R_Ver1_E.GTX	1.190Y	First edition

\* 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 is a sample screen to demonstrate how the current values and set values of actuators can be monitored and/or changed by serially (RS-485) connecting a GOT to IAI controllers such as SCON(SCON-C-60IHA-CC-0-1), PCON(PCON-C-28PI-CC-0-0) or ACON(ACON-C-10ILA-CC-0-0).

## 2. SYSTEM CONFIGURATION



\*1 : The battery is used for the backup of clock data and SRAM data. (The battery is provided with the GOT as standard.)

\*2 : For more details about the cable, please refer to the "GOT2000 Series Connection Manual (Non Mitsubishi Product 1)".

## 3. GOT

### 3.1 Required System Application

Type	System application name	
Standard Function	Standard System Application	
	Standard Font	Japanese
	TrueType Numeric Font	
Communication Driver	IAI ROBO Cylinders	
Extended Function	Standard Font	Chinese (Simplified)

### 3.2 Controller Setting of Screen Design Software

Item	Set value	Remarks
Transmission Speed (BPS)	38400	
Data Bit	8 bit	
Stop Bit	1 bit	
Parity	None	
Retry (Times)	3	
Timeout Time (Sec)	3	
Host Address	0	Sets the axis number of the robot controller.
Delay Time (ms)	0	

### 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. Robot Controller

### 4.1 Communication Settings for the Robot Controller

Controller	Item	Set value	Remarks
SCON	Transmission speed (bps)	38400 bps	Can be changed by the parameter.
	Bit length	8 bit	Cannot be changed because the value is fixed.
	Stop bit	1 bit	Cannot be changed because the value is fixed.
	Parity	None	Cannot be changed because the value is fixed.
PCON	Transmission speed (bps)	38400 bps	Can be changed by the parameter.
	Bit length	8 bit	Cannot be changed because the value is fixed.
	Stop bit	1 bit	Cannot be changed because the value is fixed.
	Parity	None	Cannot be changed because the value is fixed.
ACON	Transmission speed (bps)	38400 bps	Can be changed by the parameter.
	Bit length	8 bit	Cannot be changed because the value is fixed.
	Stop bit	1 bit	Cannot be changed because the value is fixed.
	Parity	None	Cannot be changed because the value is fixed.

### 4.2 Parameter Setting for the Robot Controller

The followings are the setting values at our operation check.

#### (1) Parameter setting

Controller	Item	Set value	Remarks
SCON	SIO transmission speed	38400 bps	Initial value: 38400 bps
	PIO pattern	1	Initial value: 0 (Positioning mode)
	PIO jog speed	100 mm/sec	Initial value: 100 mm/sec
PCON	SIO transmission speed	38400 bps	Initial value: 38400 bps
	PIO pattern	1	Initial value: 0 (Positioning mode)
	PIO jog speed	100 mm/sec	Initial value: 100 mm/sec
ACON	SIO transmission speed	38400 bps	Initial value: 38400 bps
	PIO pattern	1	Initial value: 0 (Positioning mode)
	PIO jog speed	100 mm/sec	Initial value: 100 mm/sec

(2) Switch setting for the robot controller

Controller	Item	Set value	Remarks
SCON	Controller address setting	0	Set with rotary switches. *1
	Operation mode selector switch	OFF	Set with piano switches. *1
	Operating mode	MANU	Set with AUTO/MANU selector switch. *1
PCON	Controller address setting	0	Set with rotary switches. *1
	Operating mode	MANU	Set with AUTO/MANU selector switch. *1
ACON	Controller address setting	0	Set with rotary switches. *1
	Operating mode	MANU	Set with AUTO/MANU selector switch. *1

\*1: For more details, please refer to the Manual of the robot controller currently used.

## 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 group No. 491 to 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.

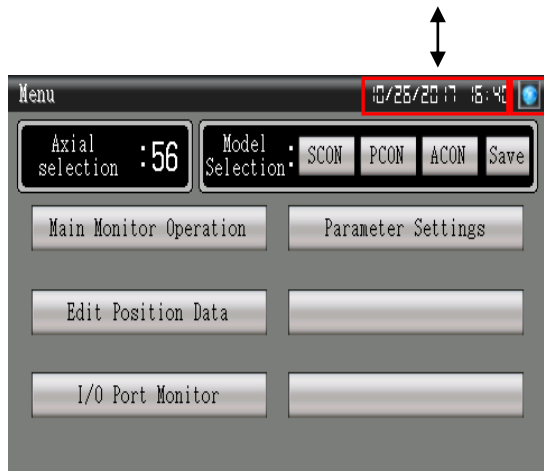
Column No.	Language
1	English
2	Japanese
3	Chinese (Simplified)

### 5.2 Screen List /Transition

#### 5.2.1 Screen list /transition (common)



Window screen W-30002: Clock Setting

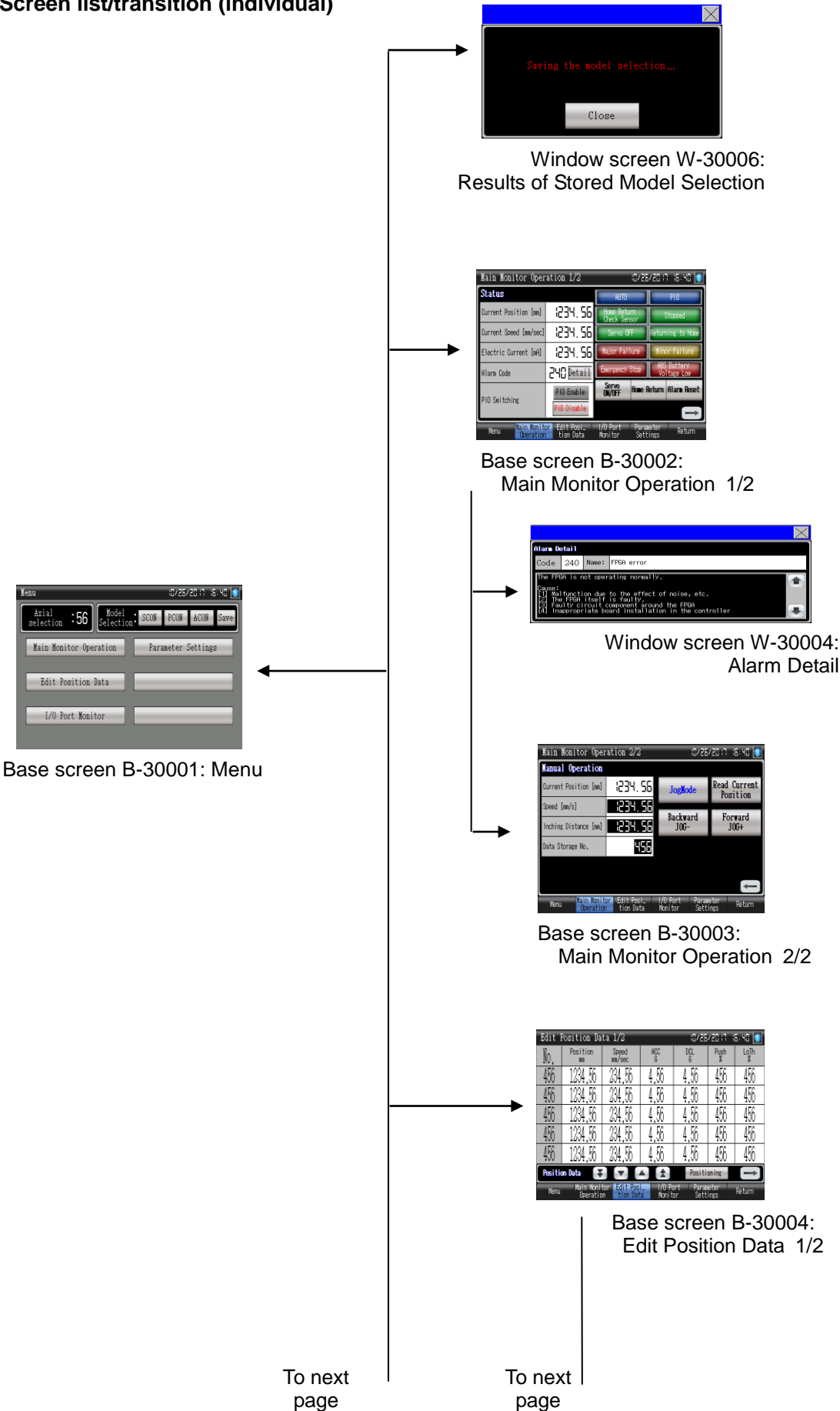


Base screen  
(B-30001 Menu and other base screens)



Window screen W-30001: Language Setting

5.2.2 Screen list/transition (individual)





From previous page

From previous page

No.	455	Zone	1234.56
Position	1234.56	Zone	1234.56
Speed	250.56	Zone	1234.56
HCC	4.56	Incremental	Normal
DCL	4.56	Command Mode	Normal
Push	455	Push Direction	Forward
Loth	455		
Positioning Band	1234.56		

Window screen W-30003:  
Position Data Edit

Execution No.	456
Completion No.	456

Window screen W-30005:  
Positioning

No.	Pos. Band	Zone	Zone	HCC	Cmd Mode	Push Direction
456	1234.56	1234.56	1234.56	Normal	Normal	Forward
456	1234.56	1234.56	1234.56	Normal	Normal	Forward
456	1234.56	1234.56	1234.56	Normal	Normal	Forward
456	1234.56	1234.56	1234.56	Normal	Normal	Forward
456	1234.56	1234.56	1234.56	Normal	Normal	Forward

Base screen B-30005:  
Edit Position Data 2/2

No.	455	Zone	1234.56
Position	1234.56	Zone	1234.56
Speed	250.56	Zone	1234.56
HCC	4.56	Incremental	Normal
DCL	4.56	Command Mode	Normal
Push	455	Push Direction	Forward
Loth	455		
Positioning Band	1234.56		

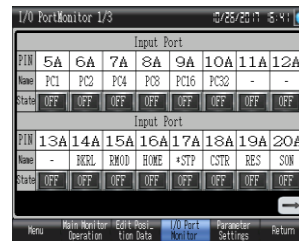
Window screen W-30003:  
Position Data Edit

Execution No.	456
Completion No.	456

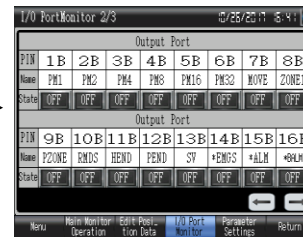
Window screen W-30005:  
Positioning

To next page

From previous page



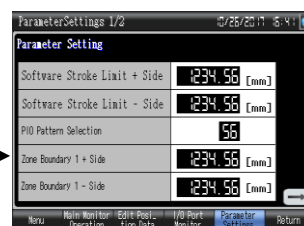
Base screen B-30006:  
I/O Port Monitor 1/3



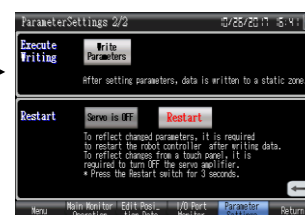
Base screen B-30007:  
I/O Port Monitor 2/3



Base screen B-30008:  
I/O Port Monitor 3/3



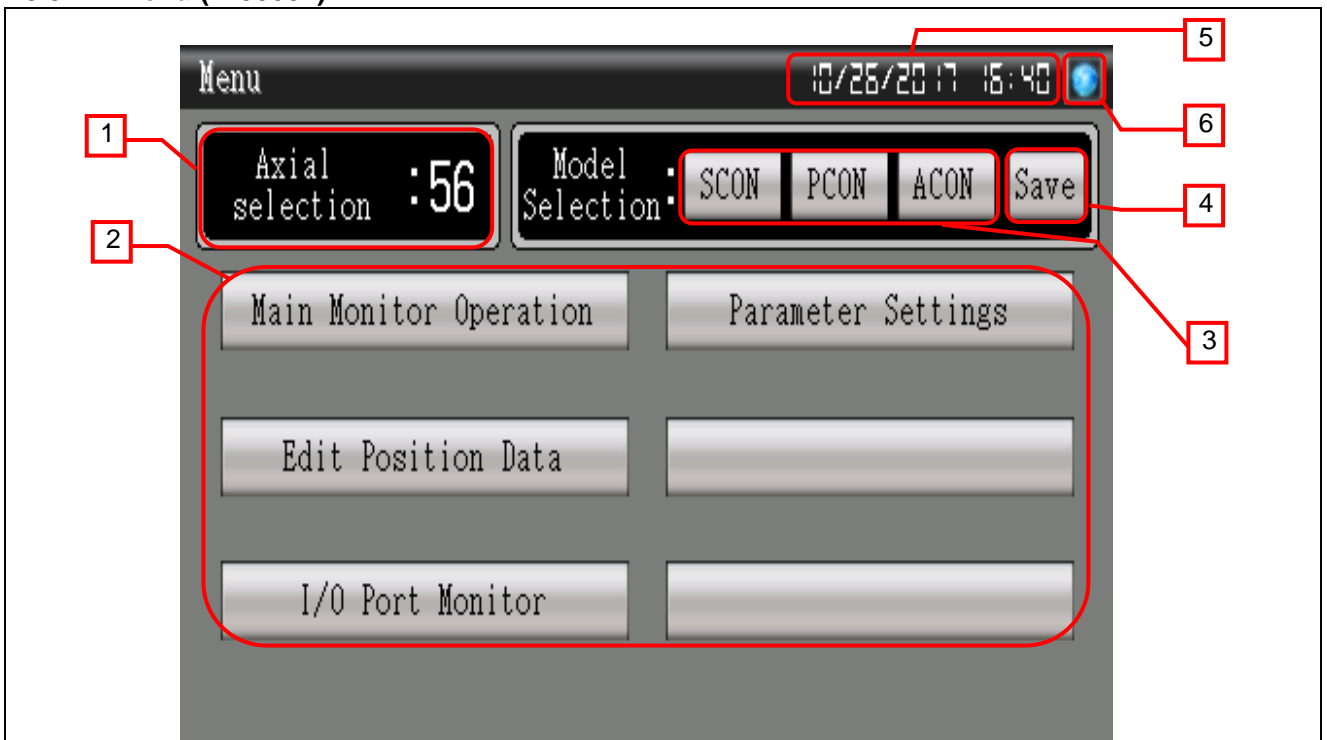
Base screen B-30009:  
Parameter Setting 1/2



Base screen B-30010:  
Parameter Setting 2/2

## 5.3 Explanation of Screens

### 5.3.1 Menu (B-30001)



#### Outline

This is the Menu screen.

Switches screens for the axis selection, saving model settings for each axis and all functions.

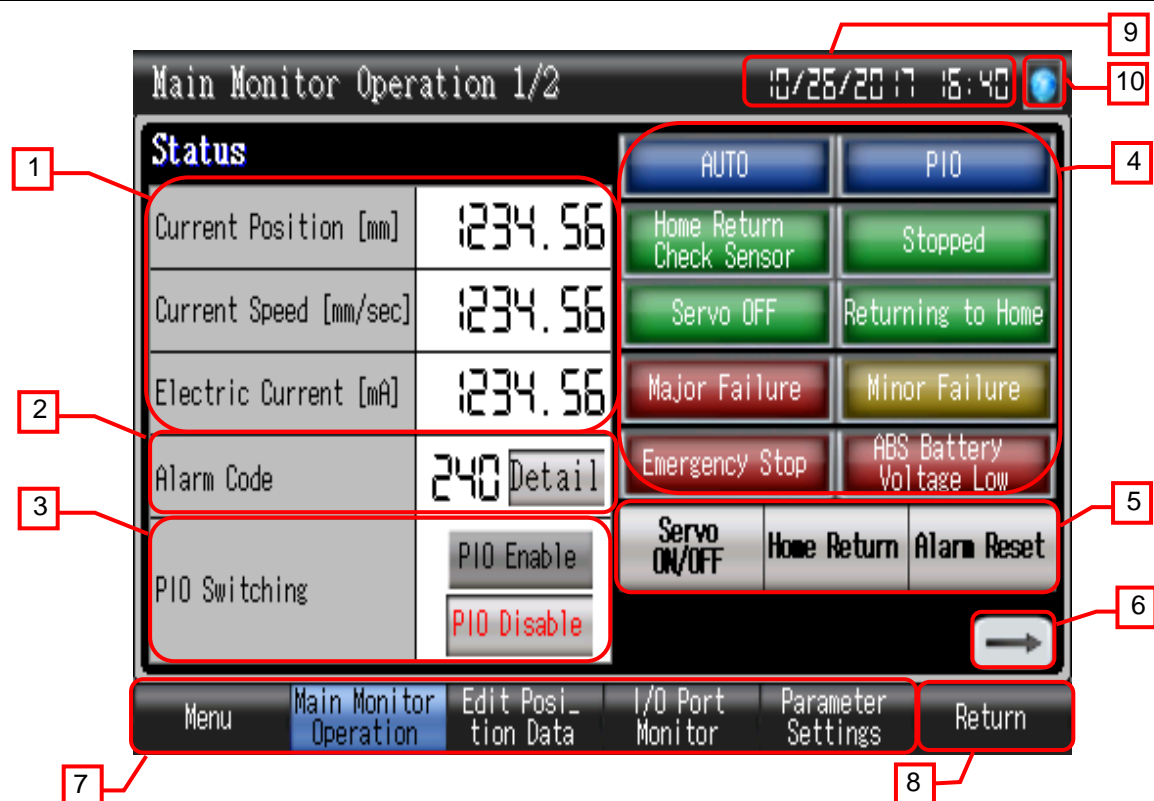
#### Description

1. Selects the axis to be operated.
2. Switches to each screen.
3. Sets the controller model for the axis you are working with.
4. Saves the controller model settings for each axis using the recipe function.
5. Displays the current date and time. Touch the button to open the [Clock Setting] window.
6. Opens the [Language Setting] window.

#### Remarks

- When monitoring multiple robot controllers, the robot controller with the station number set for [Host Address] of the communication settings must be included. In this sample, "0" is set. For more details about the host address setting, please refer to the "GOT2000 Series Connection Manual (Non Mitsubishi Product 1)".
- Touch the save button to display the Results of Stored Model Selection window as well as the stored results.
- You can save the model settings for up to 16 axes.
- Controller settings for each axis have been saved in D: Internal SRAM. The battery (GT11-50BAT) is necessary for the backup of D: Internal SRAM data.

### 5.3.2 Main Monitor Operation 1/2(B-30002)



#### Outline

This screen displays the robot controller statuses.

This screen is for turning ON and OFF the servo, Home Return and Alarm Reset.

#### Description

1. Displays the current position, current speed, and electric current.
2. Displays the current alarm code. The "Detail" switch displays the window screen to display the details of the alarm. Disabled when no alarm occurs.
3. Switches between enabling and disabling PIO.
4. Displays the robot controller statuses.
  - AUTO : Displays the operation mode.
  - PIO : Displays the switched result or current status depending on the PIO/Modbus switch setting.
  - Home Return Check Sensor : Displays the sensor input status for the model with the home return check sensor. Always the light is off for the model without the sensor.
  - Stopped : Displays [Stopped] when the slider stops and [Traveling] when the slider is traveling (including home return and push & hold operation.)
  - Servo OFF : Displays the servo ON/OFF status. The robot controller accepts no move operation command under the servo OFF status.
  - Returning to Home : Lights when the home return is completed. An alarm occurs if a move command is executed under the status that the home return is not completed.
  - Major Failure : Lights when a cold-start level alarm or operation-cancellation level alarm occurs.
  - Minor Failure : Lights when a message-level alarm occurs.
  - Emergency Stop : Displays whether or not the robot controller is in the emergency stop status due to the emergency stop input or drive-source cutoff.
  - ABS Battery Voltage Low : Displays the voltage status of the absolute battery. Turns ON when the battery voltage is low.
5. The switches to execute the servo ON/OFF, home return, and alarm reset.
  - Servo ON/OFF : Turns ON/OFF the servo.
  - Home Return : Returns to the home.
  - Alarm Reset : Resets the alarms and then turns OFF after two seconds.
6. Switches to the Main Monitor Operation screen 2/2.
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

### 5.3.3 Main Monitor Operation 2/2(B-30003)



#### Outline

This screen operates the actuator.

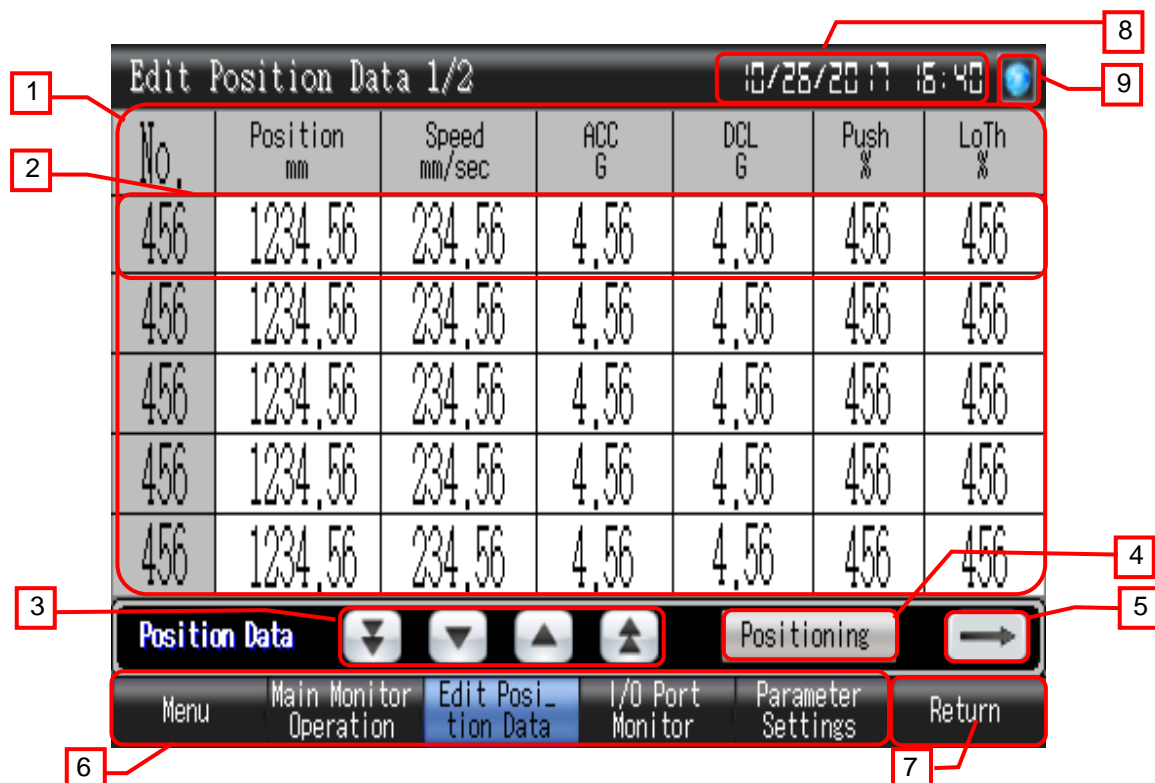
#### Description

1. Displays the current position.
2. Sets the speed, inching distance, and data storage No. when operating the actuator manually.
  - Speed : Sets the move speed at manual operation.
  - Inching Distance : Sets the positioning target position.
  - Data Storage No. : Sets the position No. to store the current position.
3. Switches between the jog mode and inching mode.
4. Reflects the current position in the target position of the position No. set for [Data Storage No.].
5. Operates the actuator manually. The operation differs depending on the jog mode or inching mode.
  - Jog Mode : Moves forward and backward while the key is touched.
  - Inching Mode : Moves the distance set for [Inching Distance] forward and backward.
6. Switches to the Main Monitor Operation screen 1/2.
7. Switches to each screen. Touch the blue switch to jump to the Main Monitor Operation screen 1/2.
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

- The manual operation of the actuator is operated by the parameter of the robot controller if the home return is not completed. For more details about the parameter of the robot controller, please refer to "4.2 Parameter Setting for the Robot Controller".
- A screen script is used for the manual operation of the actuator, reading of the current position, and execution of the position data. For more details about scripts, please refer to "5.8 Script List".





### 5.3.4 Edit Position Data 1/2(B-30004)



#### Outline

This screen displays and edits the position data.

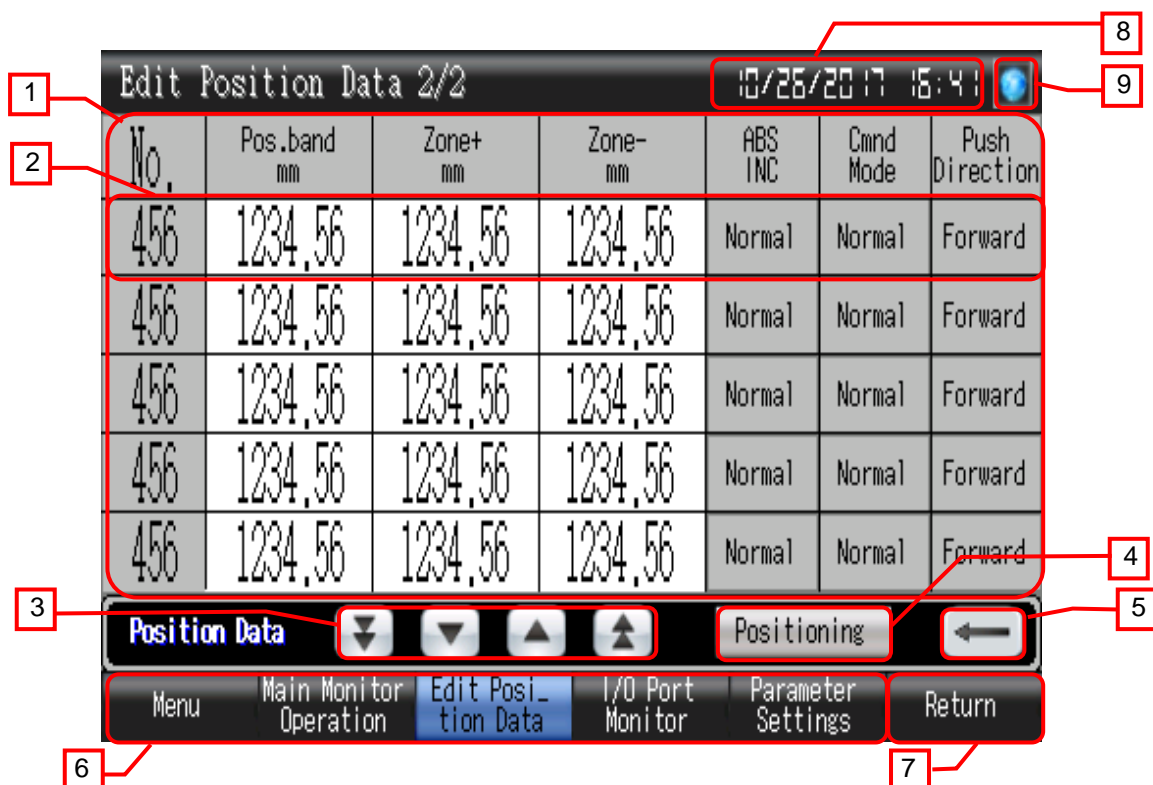
#### Description

1. Displays the position data. For more details about each item, please refer to "5.3.13 Edit Position Data (W-30003)".
2. Displays the window to edit the position data when touching the position data line.
3. Scrolls the position data. Hold down the switches to scroll continuously.
  -  : Scrolls 100 data down.
  -  : Scrolls 5 data down.
  -  : Scrolls 5 data up.
  -  : Scrolls 100 data up.
4. Displays the window to execute positioning.
5. Switches to the Edit Position Data screen 2/2.
6. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
7. Switches to the previously opened screen.
8. Displays the current date and time. Touch the area to open the [Clock Setting] window.
9. Opens the [Language Setting] window.

#### Remarks

- Up to No.511 of the position data can be displayed and edited.





### 5.3.5 Edit Position Data 2/2(B-30005)



#### Outline

This screen displays and edits the position data.

#### Description

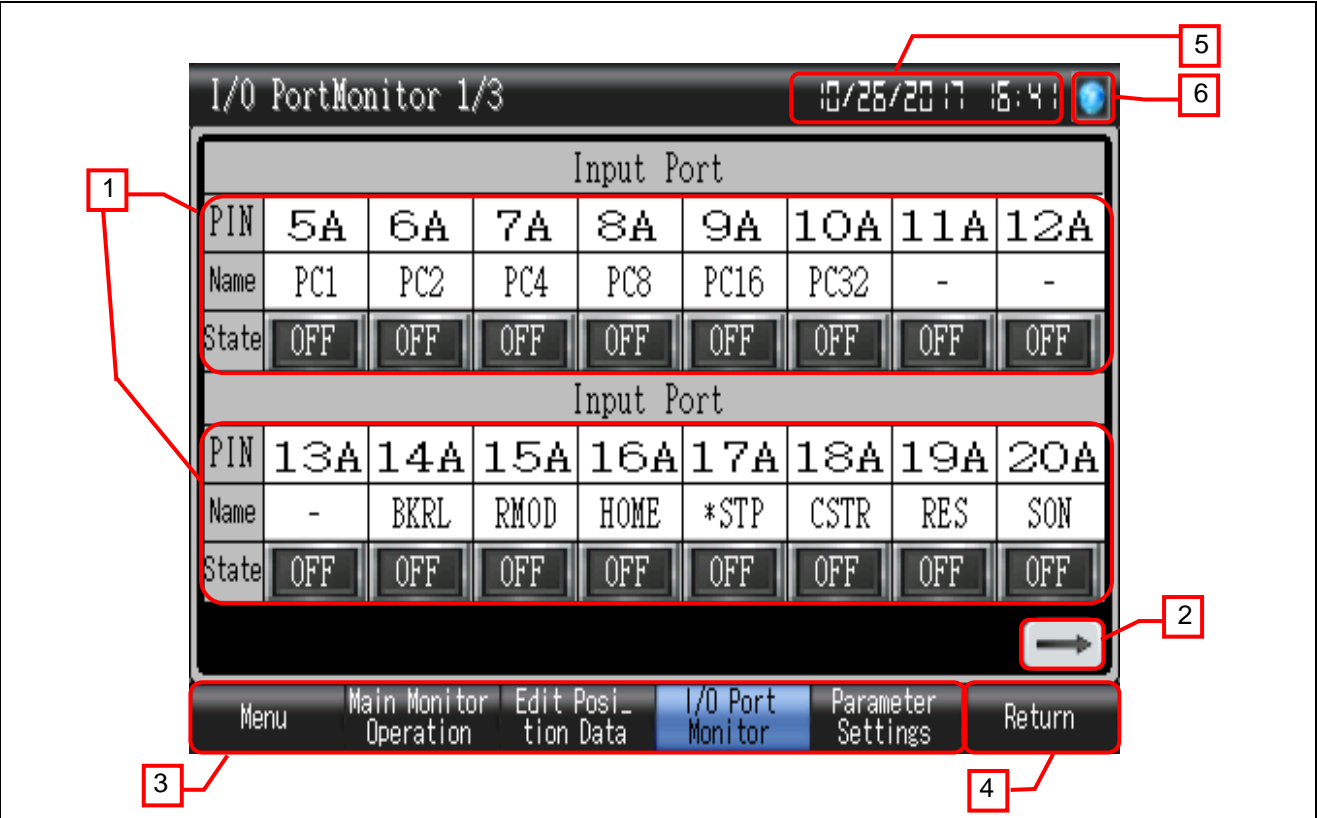
1. Displays the position data. For more details about each item, please refer to "5.3.13 Edit Position Data (W-30003)".
2. Displays the window to edit the position data when touching the position data line.
3. Scrolls the position data. Hold down the switches to scroll continuously.
  -  : Scrolls 100 data down.
  -  : Scrolls 5 data down.
  -  : Scrolls 5 data up.
  -  : Scrolls 100 data up.
4. Displays the window to execute positioning.
5. Switches to the Edit Position Data screen 1/2.
6. Switches to each screen. Touch the blue switch to jump to the Edit Position Data screen 1/2.
7. Switches to the previously opened screen.
8. Displays the current date and time. Touch the area to open the [Clock Setting] window.
9. Opens the [Language Setting] window.

#### Remarks

- Up to No.511 of the position data can be displayed and edited.



5.3.6 I/O Port Monitor 1/3(B-30006)



Outline

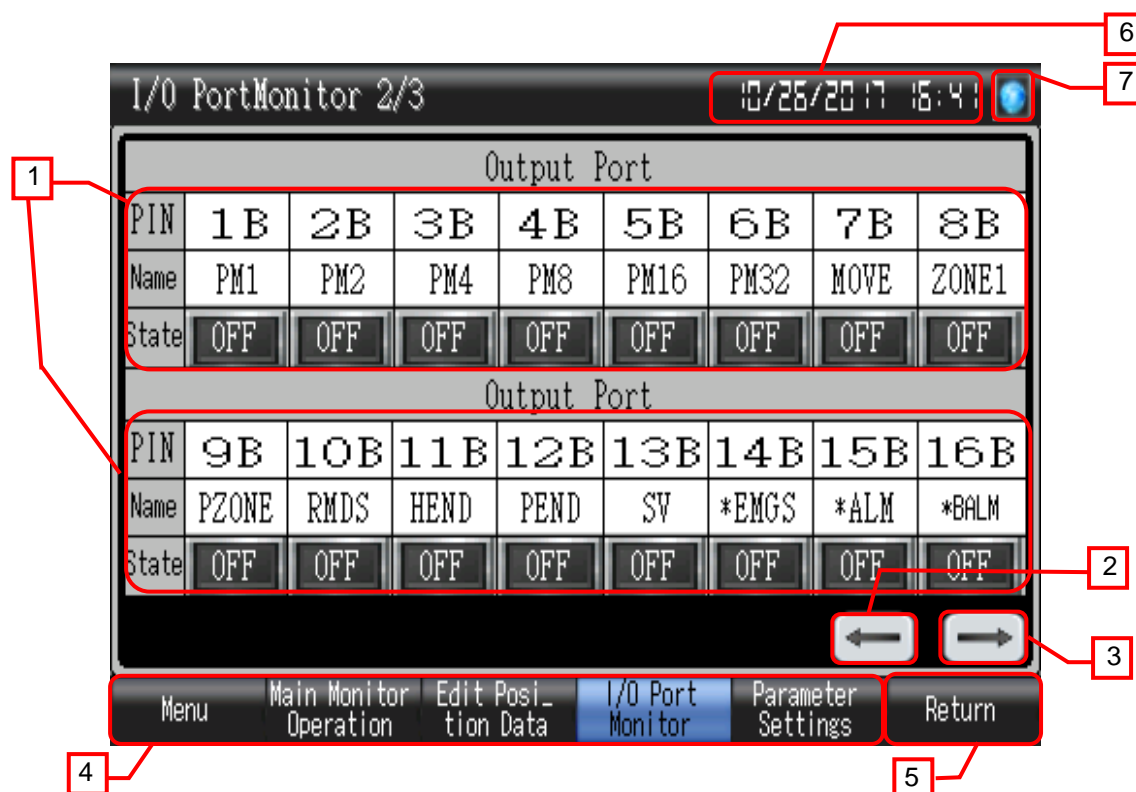
This screen displays the input port statuses of the robot controller.

Description

1. Displays the input port statuses. The PIN name changes for each model and the PIO pattern.
2. Switches to the I/O Port Monitor screen 2/3.
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Switches to the previously opened screen.
5. Displays the current date and time. Touch the button to open the [Clock Setting] window.
6. Opens the [Language Setting] window.

Remarks

### 5.3.7 I/O Port Monitor 2/3(B-30007)



#### Outline

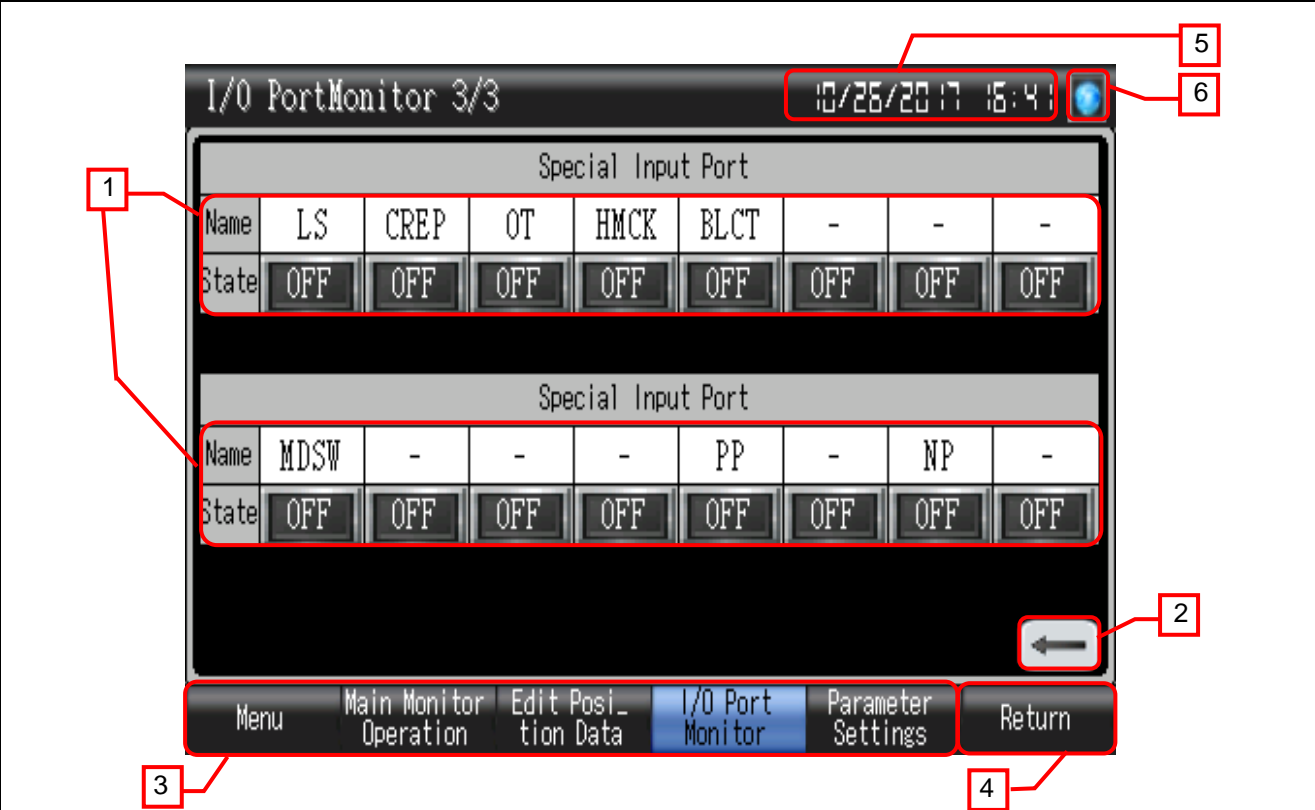
This screen displays the output port statuses of the robot controller.

#### Description

1. Displays the output port statuses. The PIN name changes for each model and the PIO pattern.
2. Switches to the I/O Port Monitor screen 1/3.
3. Switches to the I/O Port Monitor screen 3/3.
4. Switches to each screen. Touch the blue switch to jump to the I/O Port Monitor screen 1/3.
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

5.3.8 I/O Port Monitor 3/3(B-30008)



Outline

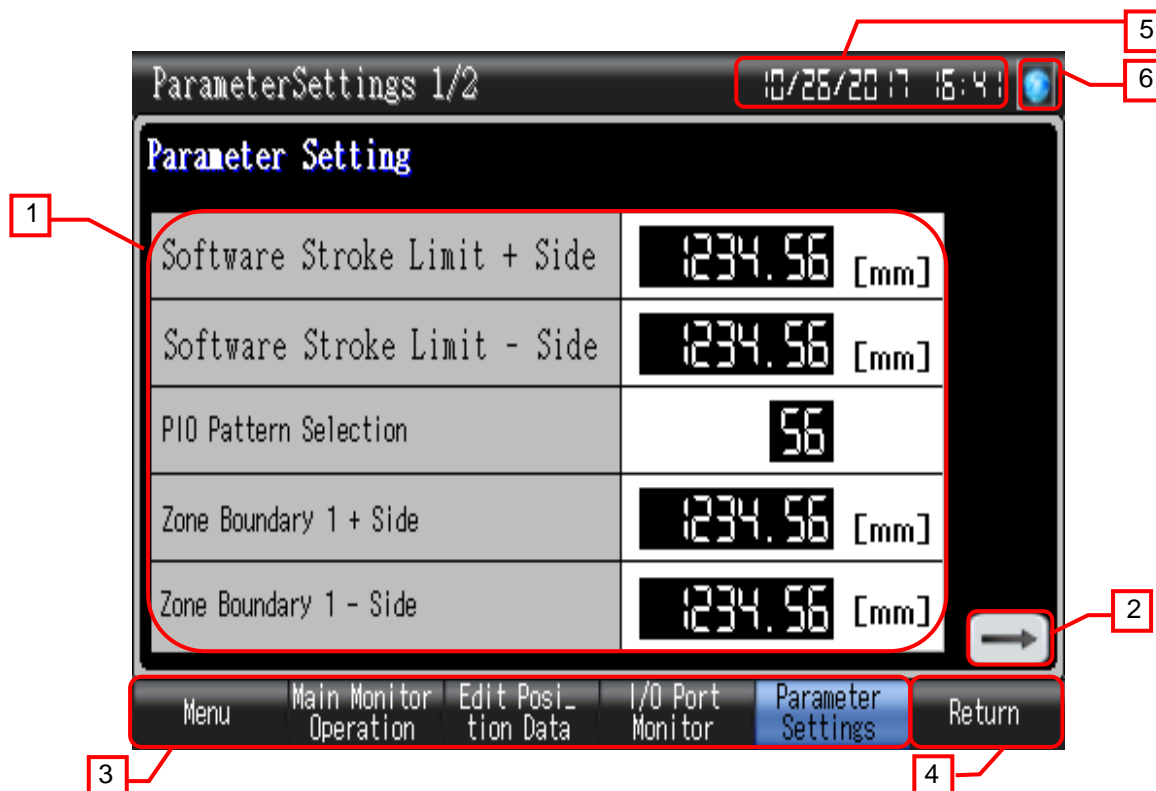
This screen displays the special input port statuses of the robot controller.

Description

- 1. Displays the special input port statuses. The PIN names will be applied to all the controller models and PIO patterns.
- 2. Switches to the I/O Port Monitor screen 2/3.
- 3. Switches to each screen. Touch the blue switch to jump to the I/O Port Monitor screen 1/3.
- 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

### 5.3.9 Parameter Setting 1/2(B-30009)



#### Outline

This screen sets the parameter setting of the robot controller.

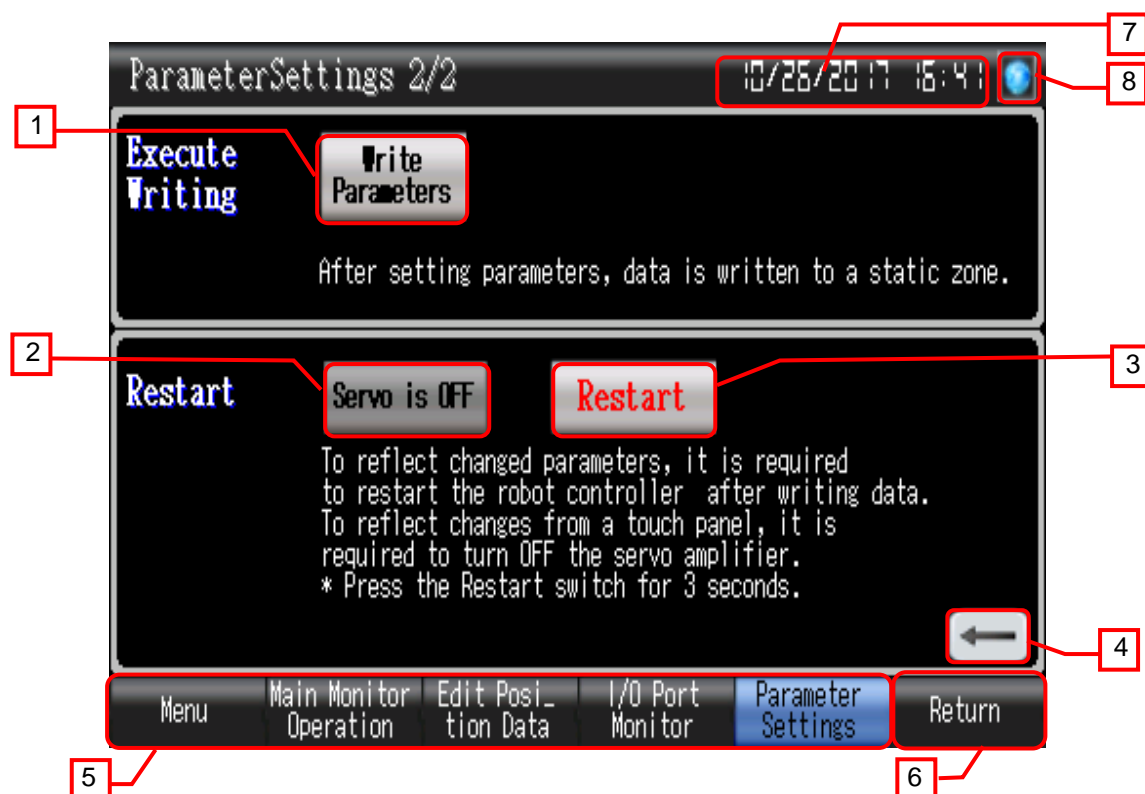
#### Description

- Input the parameter for the robot controller.
  - Software Stroke Limit + Side : Sets the stroke limit for + side of the actuator.
  - Software Stroke Limit - Side : Sets the stroke limit for - side of the actuator.
  - PIO Pattern Selection : Sets the PIO operation pattern.
  - Zone Boundary 1 + Side : Sets the + side of the area where the zone output signal turns ON when selecting 0, 4, 5 or pulse train input mode for PIO pattern.
  - Zone Boundary 1 - Side : Sets the - side of the area where the zone output signal turns ON when selecting 0, 4, 5 or pulse train input mode for PIO pattern.
- Switches to the Parameter Setting screen 2/2.
- 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 setting range of the parameter differs depending on the type of the actuator. For more details, please refer to the Manual of the actuator.

### 5.3.10 Parameter Setting 2/2(B-30010)



#### Outline

This window screen is used to write parameters of the robot controller as well as to restart the controller.

#### Description

1. Writes the set parameters to a static zone.
2. Turns the servo OFF.
3. Restarts the robot controller. Hold down the switch for three seconds.
4. Switches to the Parameter Setting screen 1/2.
5. Switches to each screen. Touch the blue switch to jump to the Parameter Setting screen 1/2.
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

### 5.3.11 Language Setting (W-30001)



#### Outline

This window allows selecting the GOT language.

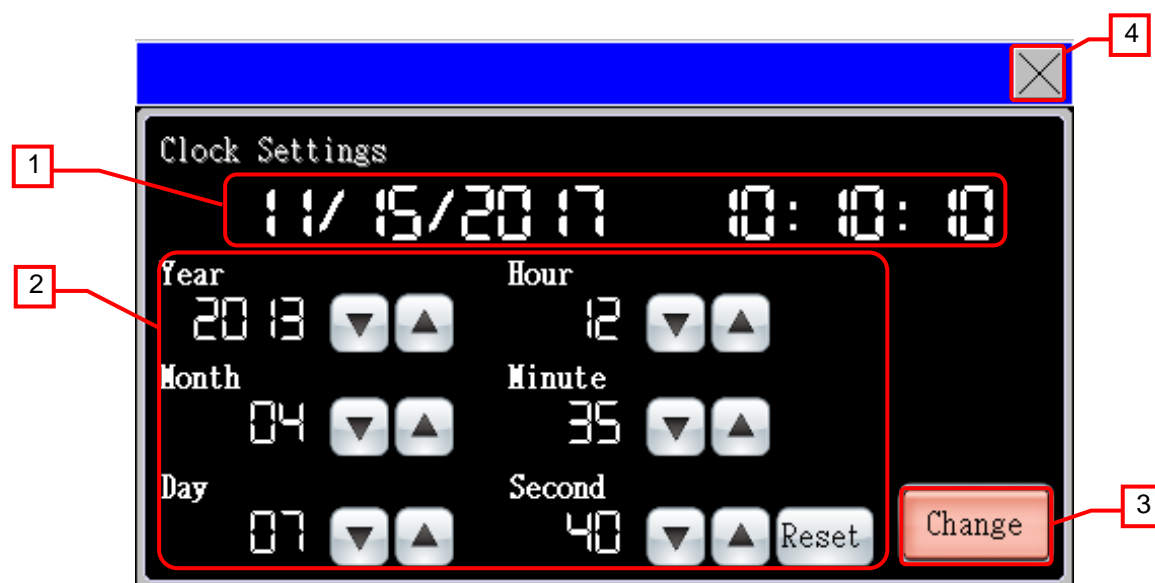
#### Description

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

#### Remarks

- The system language also switched corresponding to the display language.



### 5.3.12 Clock Setting (W-30002)



#### Outline

This window screen allows changing the GOT clock data.

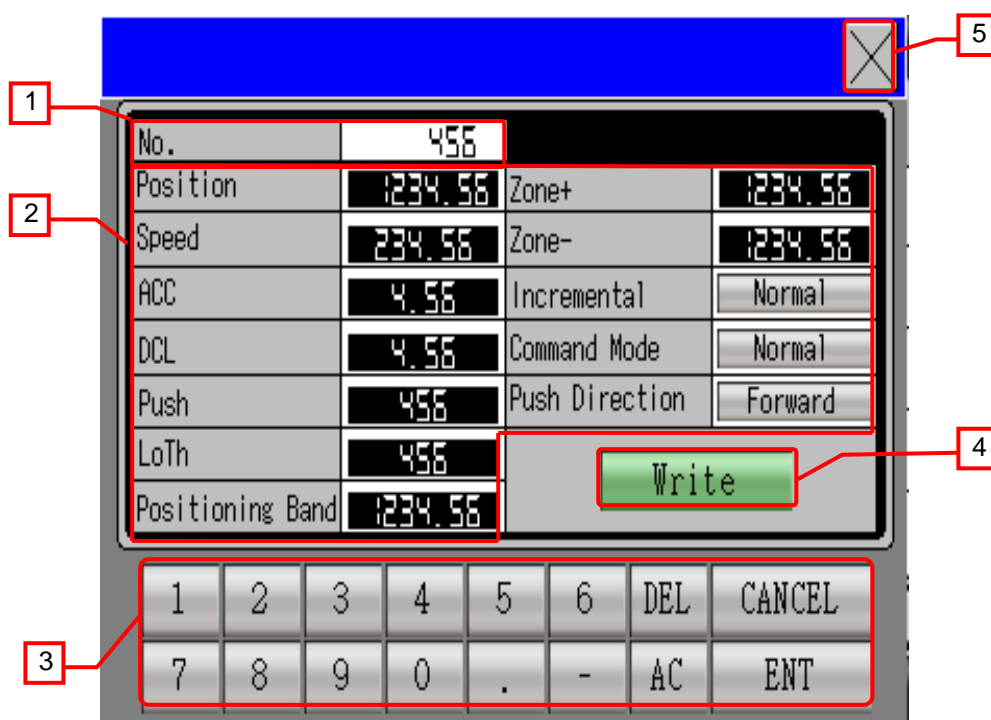
#### Description

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.
- Project 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 "5.8 Script List".

### 5.3.13 Position Data Edit (W-30003)



#### Outline

Edits and writes the position data.

#### Description

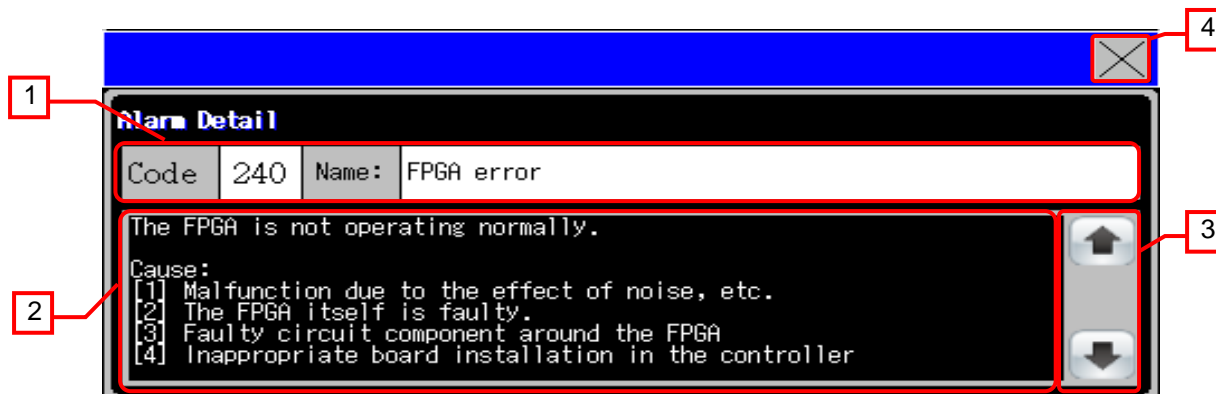
1. Displays the editing position No.
2. Edits the position data.
  - Position : Inputs the target position to move the actuator.
  - Speed : Inputs the speed to move the actuator.
  - ACC : Inputs the acceleration to move the actuator.
  - DCL : Inputs the deceleration to move the actuator.
  - Push : Selects the positioning mode or push mode.
  - LoTh : Sets the current threshold when performing the load output judgment.
  - Positioning Band : Defines the distance from the target position to turn ON the positioning completion signal. As for the push-motion operation, defines the maximum push-in amount for the push-motion operation to the target position.
  - Zone+/- : Defines the area to turn ON the PZONE (zone output signal) in PIO pattern 0, 1, 2, 4, or 5.
  - Incremental : Defines either the absolute coordinate specification or relative coordinate specification.
  - Command Mode : Defines either the normal operation or push-motion operation.
  - Push Direction : Defines the direction for the push-motion operation after completing the approaching operation.
3. Numeric keypad to input.
4. Writes the edited position data to the robot controller.
5. Closes the window screen.

#### Remarks

- Note that the edited position data is not reflected to the robot controller if editing the position data and closing the window without writing the data.



### 5.3.14 Alarm Detail (W-30004)



#### Outline

Displays details of the alarm that is occurring on the robot controller.

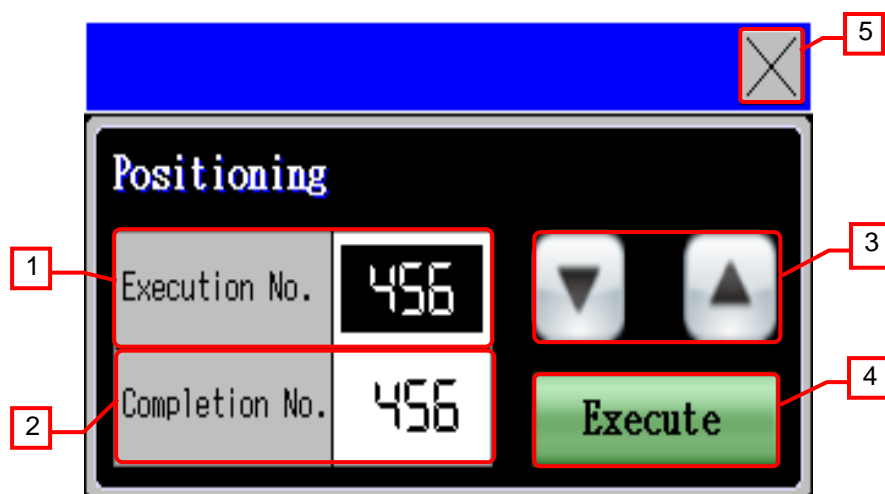
#### Description

1. Displays the code and description of the alarm.
2. Displays the detailed description of the alarm.
3. Scrolls the detailed description of the alarm. Hold down the switches to scroll continuously.
4. Closes the window screen.

#### Remarks

- The alarm names and the details change according to the models.
- When displayed in Chinese, the alarm names and details will appear in English.

### 5.3.15 Positioning (W-30005)



#### Outline

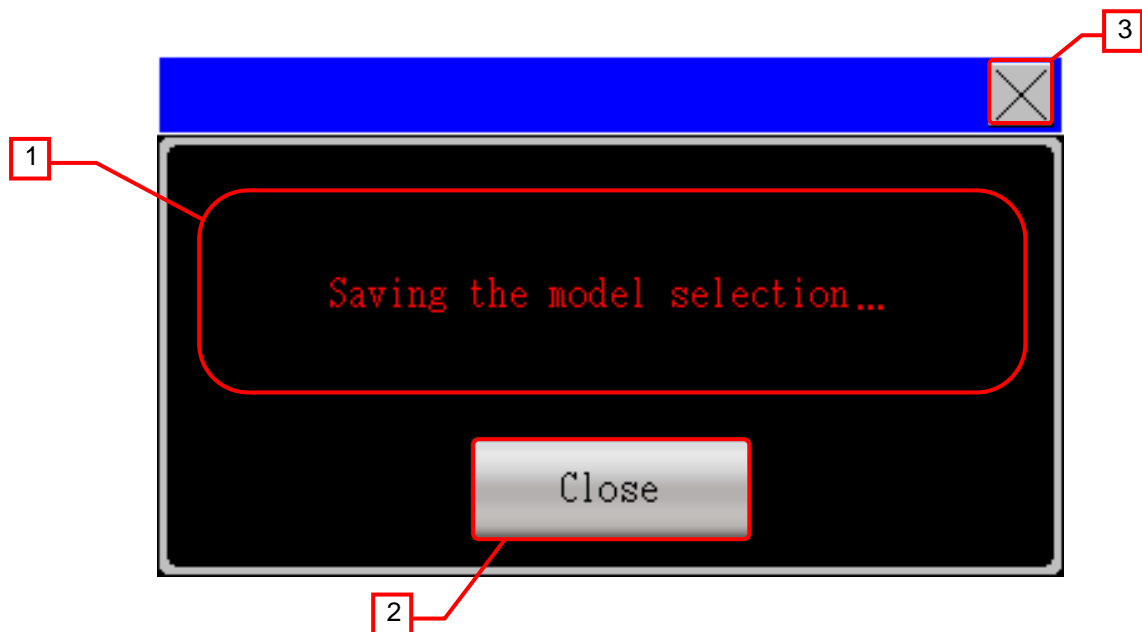
This window screen allows position movement.

#### Description

1. Sets the position No. that the positioning is executed.
2. Displays the position No. that the positioning is completed.
3. Increments or decrement the position No. that the positioning is executed. Hold down the switches to increment or decrement the value continuously.
4. Executes the setting of the specified position No. Hold down the switch for one second.
5. Closes the window screen.

#### Remarks

### 5.3.16 Results of Stored Model Selection (W-30006)



#### Outline

This window appears while the model selection is being stored.

#### Description

1. Displays the message that explains the system is saving the model selection. After the model selection is stored, another message appears to report the completion.
2. Closes the window screen.
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	S0100	EMG status
	S0103	Servo ON status
	S0105	Major failure status
	S0106	Minor failure status
	S010B	Home return status
	S0122	Operation mode status
	S0127	PIO/Modbus switching status
	S012A	Moving signal
	S017C	Home-check sensor monitor
	S0403	Servo ON command
	S0407	Alarm reset command
	S040B	Home return command
	S0411	Jog/inch switching
	S0416	Jog+ command
	S0417	Jog- command
	S0420	Software reset command
	S0427	PIO/Modbus switching specification
	S0428	Parameter data static zone write command
	R9003.b0 to R9003.b15	Input port query
	R9004.b0 to R9004.b15	Output port monitor query
	R9012.b0 to R9012.b15	Special input port query
Word	R9908.b3	Control flag specification register (INC)
	R0700	Software stroke limit + side
	R0702	Software stroke limit - side
	R0802	PIO pattern selection (upper)
	R0803	PIO pattern selection (lower)
	R0C00	Zone boundary 1 + side
	R0C02	Zone boundary 1 - side
	R1000 to R104E	Position table
	R9000	Current position monitor
	R9001	Current position monitor
	R9002	Present alarm code query
	R900A	Current speed monitor
	R900C	Current ampere monitor
	R9014	Position complete number status query
	R9800	Position movement command register
	R9900	Target position coordinate specification register
	R9904	Speed specification register
	R9908	Control Flag Specification Register

### 5.4.2 GOT internal devices

Type	Device No.	Application
Bit	GB40	Script trigger
	GB1000	Inching mode initialization process script trigger
	GB1001	Current value reading script startup trigger
	GB1002	Forward JOG+ script startup trigger
	GB1003	Forward JOG- script startup trigger
	GB1004	Position data writing execution
	GB1005	Position data reading trigger
	GB1006	Processing conditions for JOG+ end
	GB1007	Processing conditions for JOG- end
	GB1010	Axis selection writing completion device
	GB2001	Clock setting Script Trigger

Type	Device No.	Application
Bit	GD1030.b0	Device data transfer trigger
	GD1030.b1	Device data transfer destination inversion flag
	GD1031.b0	Device data transfer processing notification signal
	GD1084.b1	Position data: command mode
	GD1084.b2	Position data: push direction
	GD1084.b3	Position data: incremental
	GD1090.b0	Common recipe writing trigger
	GD1090.b1	Common recipe reading trigger
	GD1090.b15	Recipe processing error clear signal
	GD1093.b0	Common recipe writing notification signal
	GD1093.b1	Common recipe reading notification signal
	GD1093.b4	Common recipe writing completion notification signal
	GD1093.b15	Recipe processing error notification signal
	GS512.b0	Current time change trigger
Word	GB1024	The judging device for touching model selection switch
	GD10	Station No. indirect specification device
	GD100	Base screen switching
	GD101	Overlap window 1 screen switching
	GD104	Overlap window 2 screen switching
	GD121	Language switching
	GD122	System language switching
	GD1000	Speed device
	GD1002	Inching distance device
	GD1004	Execution No.
	GD1005	Data storage No.
	GD1006	Position data No.
	GD1007	Offset to read position data
	GD1008	Alarm detail start row
	GD1030	Device data transfer trigger
	GD1031	Device data transfer external notification device
	GD1032	Device data transfer offset
	GD1060	Clock Setting (Year)
	GD1061	Clock Setting (Month)
	GD1062	Clock Setting (Day)
	GD1063	Clock Setting (Hour)
	GD1064	Clock Setting (Minute)
	GD1065	Clock Setting (Second)
	GD1070 to GD1084	Position table editing device
	GD1090	Recipe external control device
	GD1091	Recipe No. storage device
	GD1092	Record No. storage device
	GD1093	Recipe external notification device
	GD1100 to GD1115	Devices for the recipes
	GD1116	I/O Port Comment Group No. storage device
	GD1132	Alarm Message Comment Group No. storage device
	GD1148	Alarm Detail Comment Group No. storage device
	GS386	Project and screen script initial operation
	GS513 to GS516	Changed time
	GS650 to GS652	Present time
	TMP0000, TMP100 to TMP128, TMP129 to TMP146	For script operation

## 5.5 Comment List

Comment group No.	Comment No.	Where comments are used
491	No.1 to 348	B-30006 to 30008
492	No.128 to 251	W-30004
493	No.128 to 251	W-30004
494	No.1 to 348	B-30006 to 30008
495	No.146 to 250	W-30004
496	No.146 to 250	W-30004
497	No.1 to 348	B-30006 to 30008
498	No.128 to 252	W-30004
499	No.128 to 252	W-30004
500	No.2	B-30001
	No.3 to 8	B-30002 to 30010
	No.9	W-30001
	No.10	B-30002
	No.11	B-30002,B-30003
	No.12 to 33	B-30002
	No.34 to 42	B-30003
	No.43	B-30004,B-30005,W-30005
	No.44 to 46	W-30005
	No.47	B-30004,B-30005,W-30003
	No.48 to 51	B-30004
	No.52	B-30005
	No.53,No.54	B-30004
	No.55 to 59	B-30005
	No.60 to 64	B-30005,W-30003
	No.68	W-30003
	No.69	B-30006,B-30007
	No.70,No.71	B-30006 to 30008
	No.72	B-30006
	No.73	B-30007
	No.74	B-30008
	No.77 to 79	W-30004
	No.80	B-30002
	No.81 to 86	B-30009
	No.87 to 90	B-30010
	No.91	B-30002
	No.92,No.93	B-30010
	No.94 to 102	W-30002
	No.112	B-30004,B-30005
	No.117	B-30002
	No.119	B-30010
	No.120 to 131	W-30003
	No.133 to 150	B-30001
	No.156,No.158	B-30002,B-30003,B-30004,B-30005,B-30006, B-30007,B-30008,B-30009,B-30010
	No.161,No.162	B-30006,B-30007,B-30008
	No.164	B-30002
	No.165	B-30003
	No.166	B-30004
	No.167	B-30005
	No.168	B-30006
	No.169	B-30007
	No.170	B-30008
	No.171	B-30009
	No.172	B-30010
	No.174 to 178	B-30001
	No.180 to 183	W-30006

## 5.6 Recipe List

### 5.6.1 Common Setting

External Control Information	
External Control Device	GD1090
Recipe No. Storage Device	GD1091
Record No. Storage Device	GD1092
External Notification Information	
External Notification Device	GD1093
Recipe No. Notification Device	GD1094
Record No. Notification Device	GD1095

### 5.6.2 Individual Setting

#### Recipe No.30001 Recipe 1

Item		Settings
Recipe File	Recipe File	Use a recipe file (read and write)
	File Format	G2P (Binary)
	Drive Name	D: Internal SRAM
	Folder Name	Package1¥recipe
	File Name	ARP30001.G2P
Trigger Device	Write Trigger 1	Not used
	Read Trigger 1	Not used
	Record No. Device	Not used
Block Number		1
Record Number		1
Block 1	Device	GD1100
	Device Type	Signed BIN16
	Points	16

## 5.7 Device Data Transfer List

ID : 1 Data Transfer 1

Item			Settings
Device Data Transfer Trigger	Trigger Type		Rise
	External Control Device		GD1030
	Trigger Device		GD1030.b0
	Transfer Inverting Flag Device		GD1030.b1
External Information Notification	<input checked="" type="checkbox"/> External Notification Device		GD1031
	Device Data Transfer Notification Signal		GD1031.b0
	BCD Conversion Error Notification Signal		GD1031.b14
	Device Data Transfer Error Notification Signal		GD1031.b15
Device	Block Number		10
Block 1	Device Type		Signed BIN32
	Points		1
	Source Device		0-100 R1000
	Destination Device		GD1070
	Offset		Source Signed BIN16 GD1032
Block 2	Device Type		Signed BIN32
	Points		1
	Source Device		0-100 R1002
	Destination Device		GD1072
	Offset		Source Signed BIN16 GD1032
Block 3	Device Type		Signed BIN32
	Points		1
	Source Device		0-100 R1004
	Destination Device		GD1074
	Offset		Source Signed BIN16 GD1032
Block 4	Device Type		Signed BIN32
	Points		1
	Source Device		0-100 R1006
	Destination Device		GD1076
	Offset		Source Signed BIN16 GD1032



Item		Settings
Block 5	Device Type	Signed BIN32
	Points	1
	Source Device	0-100 R1008
	Destination Device	GD1078
	Offset	Source Signed BIN16 GD1032
Block 6	Device Type	Signed BIN16
	Points	1
	Source Device	0-100 R100A
	Destination Device	GD1080
	Offset	Source Signed BIN16 GD1032
Block 7	Device Type	Signed BIN16
	Points	1
	Source Device	0-100 R100B
	Destination Device	GD1081
	Offset	Source Signed BIN16 GD1032
Block 8	Device Type	Signed BIN16
	Points	1
	Source Device	0-100 R100C
	Destination Device	GD1082
	Offset	Source Signed BIN16 GD1032
Block 9	Device Type	Signed BIN16
	Points	1
	Source Device	0-100 R100D
	Destination Device	GD1083
	Offset	Source Signed BIN16 GD1032
Block 10	Device Type	Signed BIN16
	Points	1
	Source Device	0-100 R100E
	Destination Device	GD1084
	Offset	Source Signed BIN16 GD1032

## 5.8 Script List

Item	Settings
Project script	Specified
Screen script	B-30001,B-30003,B-30004,B-30005

### 5.8.1 Project script

Script No.	30007	Script name	Script30007
Comment	Initial Setting		
Data type	Signed BIN16	Trigger type	Rise, GB40
<pre>//Script Initial Start Operation Inhibition [w:GS386] = 1;  //Recipe Writing [w:GD1091] = 30001; //Store recipe No. [w:GD1092] = 1;     //Store record No.  [b:GD1090.b0]=ON;   //Turn ON the common recipe writing trigger</pre>			
Script No.	30013	Script name	Script30013
Comment	Clock Setting		
Data type	Signed BIN16	Trigger type	Rise, GB2001
<pre>//Obtain Today's Year &amp; Month from Clock Data // GD1060 : Year (O) // GD1061 : Month (O) // GD1062 : Day (O) // GD1063 : Hour (O) // GD1064 : Minute (O) // GD1065 : Second (O)  [w:TMP100] = [w:GS650] &amp; 0xF000; //Obtain Tenths Digit of "Last 2-Digits of Year" from Clock Data for Setting [w:TMP110] = [w:TMP100] &gt;&gt; 12; //Decimal Alignment [w:TMP118] = [w:TMP110] * 10; //BCD-&gt;BIN [w:TMP101] = [w:GS650] &amp; 0x0F00; //Obtain Ones Digit of "Last 2-Digits of Year" from Clock Data for Setting [w:TMP111] = [w:TMP101] &gt;&gt; 8; //BCD-&gt;BIN [w:TMP123] = 2000 + [w:TMP118] + [w:TMP111]; //Set Year to TMP123 as BIN [w:GD1060] = [w:TMP123]; //Set Year  [w:TMP102] = [w:GS650] &amp; 0x00F0; //Obtain Tenths Digit of Month from Clock Data for Setting [w:TMP112] = [w:TMP102] &gt;&gt; 4; //Decimal Alignment [w:TMP119] = [w:TMP112] * 10; //BCD-&gt;BIN [w:TMP103] = [w:GS650] &amp; 0x000F; //Obtain Ones Digit of Month from Clock Data for Setting [w:TMP124] = [w:TMP119] + [w:TMP103]; //Set Month to TMP124 as BIN [w:GD1061] = [w:TMP124]; //Set Month  [w:TMP104] = [w:GS651] &amp; 0xF000; //Obtain Tenths Digit of "Last 2-Digits of Day" from Clock Data for Setting [w:TMP113] = [w:TMP104] &gt;&gt; 12; //Decimal Alignment [w:TMP120] = [w:TMP113] * 10; //BCD-&gt;BIN [w:TMP105] = [w:GS651] &amp; 0x0F00; //Obtain Ones Digit of "Last 2-Digits of Day" from Clock Data for Setting [w:TMP114] = [w:TMP105] &gt;&gt; 8; //BCD-&gt;BIN [w:TMP125] = [w:TMP120] + [w:TMP114]; //Set Day to TMP125 as BIN [w:GD1062] = [w:TMP125]; //Set Day  [w:TMP106] = [w:GS651] &amp; 0x00F0; //Obtain Tenths Digit of Hour from Clock Data for Setting [w:TMP115] = [w:TMP106] &gt;&gt; 4; //Decimal Alignment [w:TMP121] = [w:TMP115] * 10; //BCD-&gt;BIN [w:TMP107] = [w:GS651] &amp; 0x000F; //Obtain Ones Digit of Hour from Clock Data for Setting [w:TMP126] = [w:TMP121] + [w:TMP107]; //Set Hour to TMP126 as BIN</pre>			

[w:GD1063] = [w:TMP126];            //Set Hour			
[w:TMP108] = [w:GS652] & 0xF000;    //Obtain Tenths Digit of "Last 2-Digits of Minute" from Clock Data for Setting			
[w:TMP116] = [w:TMP108] >> 12;    //Decimal Alignment			
[w:TMP122] = [w:TMP116] * 10        ;// BCD->BIN			
[w:TMP109] = [w:GS652] & 0x0F00;    //Obtain Ones Digit of "Last 2-Digits of Minute" from Clock Data for Setting			
[w:TMP117] = [w:TMP109] >> 8;       // BCD->BIN			
[w:TMP127] = [w:TMP122] + [w:TMP117]; //Set Minute to TMP127 as BIN			
[w:GD1064] = [w:TMP127];            //Set Minute			
[w:TMP143] = [w:GS652] & 0x00F0;    //Obtain Tenths Digit of Second from Clock Data for Setting			
[w:TMP145] = [w:TMP143] >> 4;       //Decimal Alignment			
[w:TMP146] = [w:TMP145] * 10;       // BCD->BIN			
[w:TMP144] = [w:GS652] & 0x000F;    //Obtain Ones Digit of Second from Clock Data for Setting			
[w:TMP128] = [w:TMP146] + [w:TMP144]; //Set Second to TMP128 as BIN			
[w:GD1065] = [w:TMP128];            //Set Second			
Script No.	30014	Script name	Script30014
Comment	Clock Setting 2		
Data type	Signed BIN16	Trigger type	ON, GB2001
//BIN -> BCD Conversion //GD1060: Year (I) //GD1061: Month (I) //GD1062: Day (I) //GD1063: Hour (I) //GD1064: Minute (I) //GD1065: Second (I)  [w:TMP129] = [w:GD1060] - 2000;      //Last 2-Digits of Year  [w:TMP130] = (([w:TMP129] / 10) << 4) + ([w:TMP129] % 10);    //Year BIN -> BCD [w:TMP131] = (([w:GD1061] / 10) << 4) + ([w:GD1061] % 10);    //Month BIN -> BCD [w:TMP132] = (([w:GD1062] / 10) << 4) + ([w:GD1062] % 10);    //Day BIN -> BCD [w:TMP133] = (([w:GD1063] / 10) << 4) + ([w:GD1063] % 10);    //Hour BIN -> BCD [w:TMP134] = (([w:GD1064] / 10) << 4) + ([w:GD1064] % 10);    //Minute BIN -> BCD [w:TMP135] = (([w:GD1065] / 10) << 4) + ([w:GD1065] % 10);    //Second BIN -> BCD  //Year & Month Setting  [w:GS513] = ([w:TMP130] << 8) + [w:TMP131];    //Set Year & Month to Change Time Device  //Date & Time Setting  [w:GS514] = ([w:TMP132] << 8) + [w:TMP133];    //Set Date & Time to Change Time Device  //Minute & Second Setting  [w:GS515] = ([w:TMP134] << 8) + [w:TMP135];    //Set Minute & Second to Change Time Device  //Day of Week Setting //GD1060: Year (I) //GD1061: Month (I) //GD1062: Day (I)  [w:TMP136] = [w:GD1060];    //Year (BIN) [w:TMP137] = [w:GD1061];    //Month (BIN) [w:TMP138] = [w:GD1062];    //Day (BIN)  if(([w:TMP137] == 1)    ([w:TMP137] == 2)){    // Correction Processing to Calculate January and February as 13th/14th Month [w:TMP136] = [w:TMP136] - 1;    //Subtract 1 from Year [w:TMP137] = [w:TMP137] + 12;    //Add 12 to Month			

}			
[w:TMP139] = [w:TMP136]/4;           //Create Items Required for Zeller's Congruence			
[w:TMP140] = [w:TMP136]/100;           //Create Items Required for Zeller's Congruence			
[w:TMP141] = [w:TMP136]/400;           //Create Items Required for Zeller's Congruence			
[w:TMP142] = (13*[w:TMP137]+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:TMP136]+[w:TMP139]-[w:TMP140]+[w:TMP141]+[w:TMP142]+[w:TMP138])%7;			
Script No.	30015	Script name	Script30015
Comment	Start/end Clock Setting		
Data type	Signed BIN16	Script name	Ordinary
// Clock setting start/end			
// GB2001 : Clock setting Script Trigger (O)			
// GD101 : Dialog Window Switching Device (I)			
if([u16:GD101]==30002){ // Display W-30002 "Clock setting"			
[b:GB2001]=ON;    //Clock setting start			
}else{			
[b:GB2001]=OFF; //Clock setting end			
}			

## 5.8.2 Screen script

### Base screen B-30001

Script No.	30017	Script name	Script30017
Comment	Recipe Write Trigger Reset		
Data type	Signed BIN16	Trigger type	Rise, GD1093.b0
//Reset Recipe Write Trigger			
rst([b:GD1090.b0]);			
//Reset the recipe processing error clear signal			
rst([b:GD1090.b15]);			
Script No.	30017	Script name	Script30017
Comment	Recipe Write Trigger Reset		
Data type	Signed BIN16	Trigger type	Rise, GD1093.b15
//Reset Recipe Write Trigger			
rst([b:GD1090.b0]);			
//Reset the recipe processing error clear signal			
rst([b:GD1090.b15]);			
Script No.	30018	Script name	Script30018
Comment	Recipe Read Trigger Reset		
Data type	Signed BIN16	Trigger type	Rise, GD1093.b1
//Reset Recipe Read Trigger			
rst([b:GD1090.b1]);			
//Reset the recipe processing error clear signal			
rst([b:GD1090.b15]);			
Script No.	30018	Script name	Script30018
Comment	Recipe Read Trigger Reset		
Data type	Signed BIN16	Trigger type	Rise, GD1093.b15
//Reset Recipe Read Trigger			
rst([b:GD1090.b1]);			
//Reset the recipe processing error clear signal			
rst([b:GD1090.b15]);			

Script No.	30020	Script name	Script30020
Comment	Comment Group No. Switching for Each Model At Startup		
Data type	Signed BIN16	Trigger type	Rise, GD1093.b4
<pre>// The controller model will be determined based on its address number 0 at startup and the comment group // No. will be stored in the device accordingly. switch([w:GD1100]){ case 0:[w:GD1116]=491;      // I/O Port Comment Group No. (SCON)       [w:GD1132]=492;      // Alarm Message Comment Group No. (SCON)       [w:GD1148]=493;      // Alarm Detail Comment Group No. (SCON)       break; case 1:[w:GD1116]=497;      // I/O Port Comment Group No. (PCON)       [w:GD1132]=498;      // Alarm Message Comment Group No. (PCON)       [w:GD1148]=499;      // Alarm Detail Comment Group No. (PCON)       break; case 2:[w:GD1116]=494;      // I/O Port Comment Group No. (ACON)       [w:GD1132]=495;      // Alarm Message Comment Group No. (ACON)       [w:GD1148]=496;      // Alarm Detail Comment Group No. (ACON)       break; default :break; }</pre>			
Script No.	30021	Script name	Script30021
Comment	Comment Group No. Switching for Each Model		
Data type	Signed BIN16	Trigger type	Rise, GB1010
<pre>switch([w:GD1100[w:GD10]]){ case 0:[w:GD1116]=491;      // I/O Port Comment Group No. (SCON)       [w:GD1132]=492;      // Alarm Message Comment Group No. (SCON)       [w:GD1148]=493;      // Alarm Detail Comment Group No. (SCON)       break; case 1:[w:GD1116]=497;      // I/O Port Comment Group No. (PCON)       [w:GD1132]=498;      // Alarm Message Comment Group No. (PCON)       [w:GD1148]=499;      // Alarm Detail Comment Group No. (PCON)       break; case 2:[w:GD1116]=494;      // I/O Port Comment Group No. (ACON)       [w:GD1132]=495;      // Alarm Message Comment Group No. (ACON)       [w:GD1148]=496;      // Alarm Detail Comment Group No. (ACON)       break; default :break; }</pre>			
Script No.	30022	Script name	Script30022
Comment	Switches the comment group No. during pressing mode selection		
Data type	Signed BIN16	Trigger type	Ordinary
<pre>if([w:GB1024]!=0){  switch([w:GD1100[w:GD10]]){ case 0:[w:GD1116]=491;      // I/O Port Comment Group No. (SCON)       [w:GD1132]=492;      // Alarm Message Comment Group No. (SCON)       [w:GD1148]=493;      // Alarm Detail Comment Group No. (SCON)       break; case 1:[w:GD1116]=497;      // I/O Port Comment Group No. (PCON)       [w:GD1132]=498;      // Alarm Message Comment Group No. (PCON)       [w:GD1148]=499;      // Alarm Detail Comment Group No. (PCON)       break; case 2:[w:GD1116]=494;      // I/O Port Comment Group No. (ACON)       [w:GD1132]=495;      // Alarm Message Comment Group No. (ACON)       [w:GD1148]=496;      // Alarm Detail Comment Group No. (ACON)       break; default :break; } [w:GB1024]=0; }</pre>			

### Base screen B-30003

Script No.	30001	Script name	Script30001
Comment	Read Current Position		
Data type	Signed BIN16	Trigger type	Rise, GB1001
//Transfer the current position to the position data that is specified by the Data Storage No. [w:TMP0000] = [w:GD1005] * 16;  [0-100:w:R1000[w:TMP0000]] = [0-100:w:R9000]; [0-100:w:R1001[w:TMP0000]] = [0-100:w:R9001];			
Script No.	30002	Script name	Script30002
Comment	JOG + Start Processing		
Data type	Unsigned BIN32	Trigger type	Rise, GB1002
//Manual Operation (Forward) //9900H: Target Position Specification Register //9904H: Speed Specification Register //9908H: Control Flag Specification Register  if([w:GD1000] == 0) { [w:GD1000] = 100; } [0-100:w:R9904] = [w:GD1000];  if([b:GB1000] == ON) { //Inching Processing set([0-100:b:R9908.b3]); if([w:GD1002] == 0) { [w:GD1002] = 1000; } [0-100:w:R9900] = [w:GD1002]; }else{ //JOG Operation [0-100:w:R9900] = s32_PCMD; set([b:GB1006]); } 			
Script No.	30003	Script name	Script30003
Comment	JOG + End Processing		
Data type	Unsigned BIN32	Trigger type	OFF, GB1002
//Forward Operation Post-Processing //9900H: Target Position Specification Register //9904H: Speed Specification Register //9908H: Control Flag Specification Register if([b:GB1006] == ON) { if([0-100:b:S0127] == ON) { if([0-100:b:S0103] == ON) && ([0-100:b:S010B] == ON) { if([b:GB1000] == OFF) { //JOG Operation [0-100:w:R9900] = 0; [0-100:w:R9904] = 0; rst([b:GB1006]); } } } } }			

Script No.	30004	Script name	Script30004
Comment	JOG - Start Processing		
Data type	Signed BIN32	Trigger type	Rise, GB1003
<pre>//Manual Operation (Backward) //9900H: Target Position Specification Register //9904H: Speed Specification Register //9908H: Control Flag Specification Register  if([w:GD1000] == 0) {     [w:GD1000] = 100; } [0-100:w:R9904] = [w:GD1000];  if([b:GB1000] == ON) {     //Inching Processing     set([0-100:b:R9908.b3]);     if([w:GD1002] == 0)     {         [w:GD1002] = 1000;     }     [0-100:w:R9900] = [w:GD1002] * -1; }else{     //JOG Operation     [0-100:w:R9900] = 0;     set([b:GB1007]); }</pre>			
Script No.	30005	Script name	Script30005
Comment	JOG - End Processing		
Data type	Signed BIN32	Trigger type	OFF, GB1003
<pre>//Backward Operation Post-Processing //9900H: Target Position Specification Register //9904H: Speed Specification Register //9908H: Control Flag Specification Register  if([b:GB1007] == ON) {     if([0-100:b:S0127] == ON)     {         if([0-100:b:S0103] == ON) &amp;&amp; ([0-100:b:S010B] == ON)         {             if([b:GB1000] == OFF)             {                 // JOG Operation                 [0-100:w:R9900] = 0;                 [0-100:w:R9904] = 0;                 rst([b:GB1007]);             }         }     } }</pre>			
Script No.	30006	Script name	Script30006
Comment	Inching Mode Initial Processing		
Data type	Signed BIN16	Trigger type	Rise, GB1000
<pre>//Switch to Inching Mode if([0-100:u32:R9904 == 0) {     [0-100:w:R9908] = 0x000A; }</pre>			

**Base screen B-30004**

Script No.	30008	Script name	Script30008
Comment	Device Data Transfer Flag Clear		
Data type	Signed BIN16	Trigger type	ON, GD1031.b0
//Reset Device Data Transfer Trigger and Transfer Destination Inversion Flag rst([b:GD1030.b1]); rst([b:GD1030.b0]);			
Script No.	30010	Script name	Script30010
Comment	Position Data Read		
Data type	Signed BIN16	Trigger type	ON,GB1005
//Read the position data to edit from the controller and [w:TMP0000] = 0; fmov([w:TMP0000],[w:GD1070],16); [w:GD1032] = [w:GD1006] + ([w:GD1007] * 16);  //execute Device Data Transfer. set([b:GD1030.b0]); rst([b:GB1005]);			
Script No.	30011	Script name	Script30011
Comment	Position Data Write Execution		
Data type	Signed BIN16	Trigger type	ON,GB1004
//execute Device Data Transfer. set([b:GD1030.b1]); set([b:GD1030.b0]);  [w:GD104] = 0;  rst([b:GB1004]);			

**Base screen B-30005**

Script No.	30008	Script name	Script30008
Comment	Device Data Transfer Flag Clear		
Data type	Signed BIN16	Trigger type	ON,GD1031.b0
//Reset Device Data Transfer Trigger and Transfer Destination Inversion Flag rst([b:GD1030.b1]); rst([b:GD1030.b0]);			
Script No.	30010	Script name	Script30010
Comment	Position Data Read		
Data type	Signed BIN16	Trigger type	ON,GB1005
//Read the position data to edit from the controller and [w:TMP0000] = 0; fmov([w:TMP0000],[w:GD1070],16); [w:GD1032] = [w:GD1006] + ([w:GD1007] * 16);  //execute Device Data Transfer. set([b:GD1030.b0]); rst([b:GB1005]);			
Script No.	30011	Script name	Script30011
Comment	Position Data Write Execution		
Data type	Signed BIN16	Trigger type	ON,GB1004
//execute Device Data Transfer. set([b:GD1030.b1]); set([b:GD1030.b0]);  [w:GD104] = 0;  rst([b:GB1004]);			

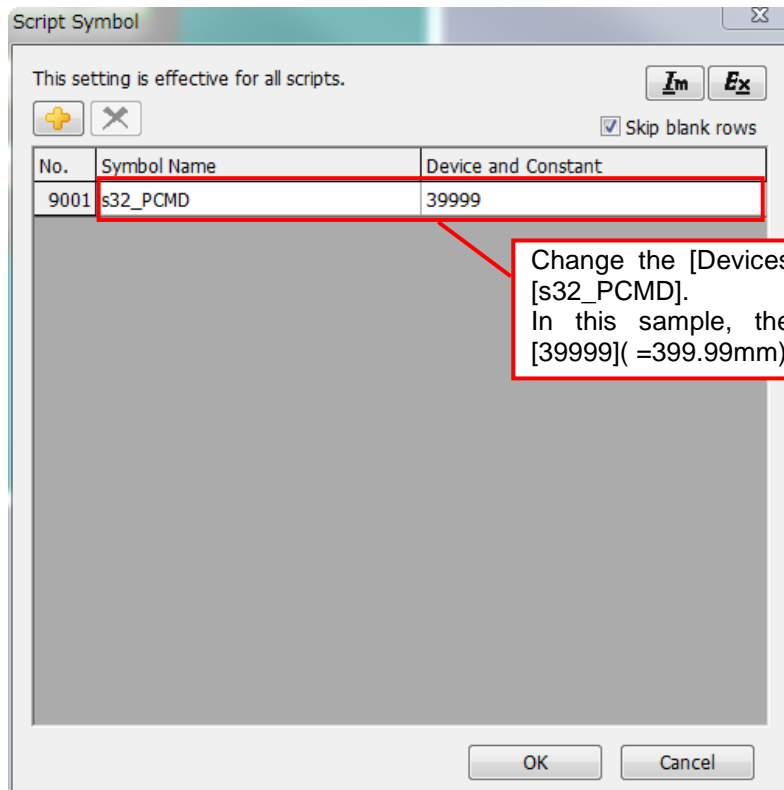


## 6. Other

### 6.1 Customizing the Distance of the JOG Movements

The distance of the JOG movement can be changed. The distance of JOG movement is the distance traveled while the [Forward JOG+] or [Backward JOG-] was pressed in the JOG mode of the base screen B-30003.

Please change the script symbol to fit your system's configuration.



## 6.2 Customizing the Exclusive Screens for Specific Robot Controllers

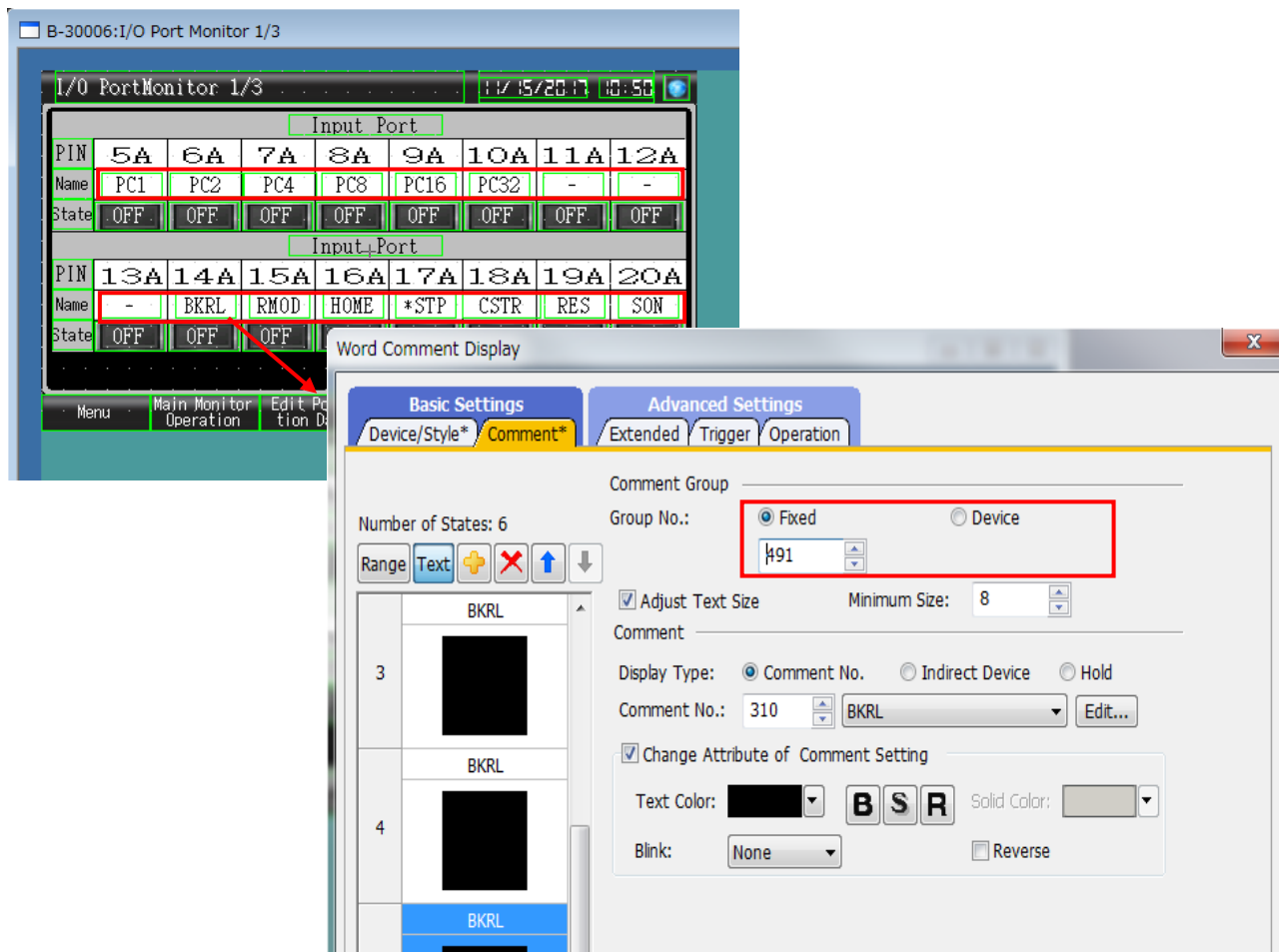
You can use this sample for the exclusive screen for the robot controller in use.

Please find below for how to customize this sample to be used for the exclusive screens for SCON.

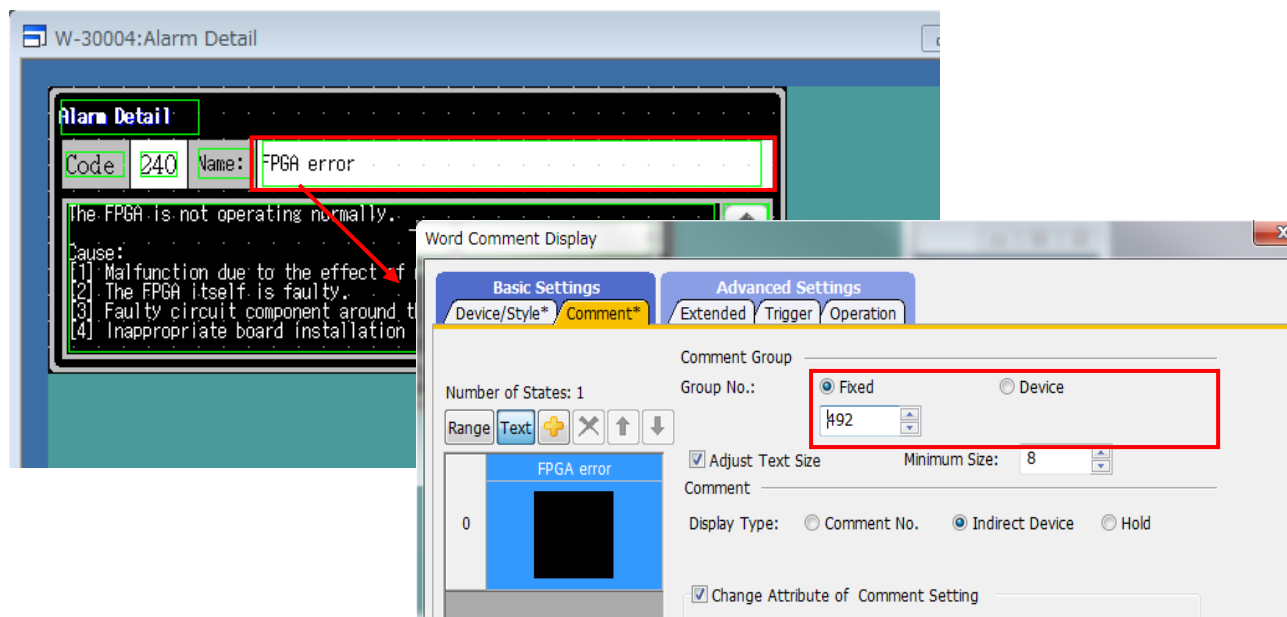
(1) Modify the comment display (word)

- a. Change the [Group No.] of the [Comment Group] used for the [Name] of the base screen B-30006 to 30008 to [Fixed] and input "491".

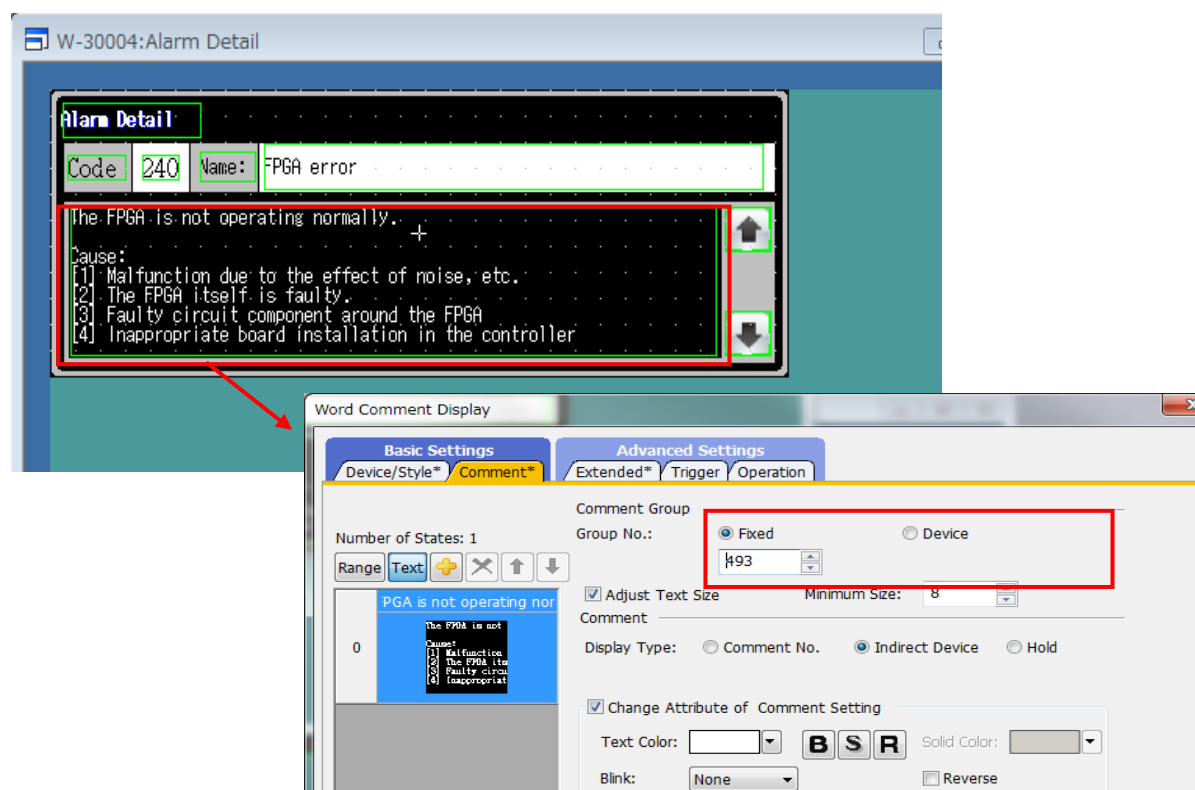
※For PCON and ACON, input "497" and "494" respectively.



- b. Change the [Group No.] of the [Comment Group] used for the [Name] of the window screen W-30004 to [Fixed] and input“492”.
- ※For PCON and ACON, input “498” and “495” respectively.



- c. Change the [Group No.] of the [Comment Group] used for the [Alarm Detail] of the window screen W-30004 to [Fixed] and input“493”.
- ※For PCON and ACON, input “499” and “496” respectively.



- (2) Delete the screen scripts
  - a. Delete the [Screen Script] of the base screen B-30001.  
Go to [Common] to open [Script] then select the [Screen] tab.  
Delete the script No.30020 to 30022.

