

Mitsubishi Simple Motion Module
MELSEC-Q Series
QD77MS4

Sample Screen Manual

Mitsubishi Electric Corporation

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REVISIONS

Sample Screen Manual

Date	Control No.*	Description
2013/10	BCN-P5999-0103	First edition
2015/2	BCN-P5999-0103-2	Device Specification for Document ID
2015/6	BCN-P5999-0103-2a	Project data improved

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

Project data

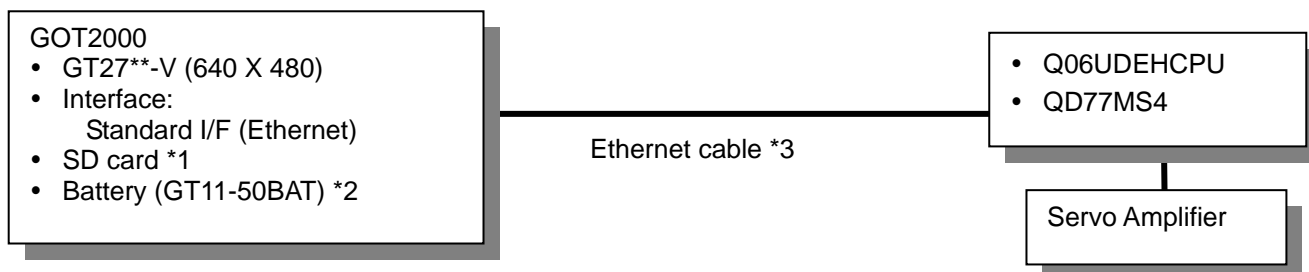
Date	Project data	GT Designer3*	Description
2013/10	mitsubishi_QD77MS4_V_Ver1_E.GTX	1.100E	First edition
2015/2	mitsubishi_QD77MS4_V_Ver2_E.GTX	1.126G	Device Specification for Document ID
2015/6	mitsubishi_QD77MS4_V_Ver2a_E.GTX	1.128J	Incorrect description on the screen has been revised.

* 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 MELSEC-Q Series PLC (Q06UDEHCPU) via Ethernet. The sample screens can be used for monitoring the status of each axis and the buffer memory (including current values and alarms) of Simple Motion Module (QD77MS4).

2. SYSTEM CONFIGURATION



*1: The SD card is used for the document display function.

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

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

3. GOT

3.1 System Applications That Are Automatically Selected

Type	System application name	
Standard Function	Standard System Application	
	Standard Font	Japanese
Communication Driver	Ethernet Connection	Ethernet (MELSEC), Q17nNC, CRnD-700, Gateway
Extended Function	Standard Font	Chinese (Simplified)
	Outline Font	Alphanumeric/Kana
		Japanese (Kanji)
		Chinese (Simplified)
	Document Display	

3.2 Controller Setting of Screen Design Software

Detail Setting

Item	Set value	Remarks
GOT NET No.	1	
GOT Station No.	2	
GOT Ethernet Setting	Refer to table below	
GOT Communication Port No.	5001	
Retry (Times)	3	
Startup Time (Sec)	3	
Timeout Time (Sec)	3	
Delay Time (ms)	0	

GOT Ethernet Setting

Item	Set value	Remarks
Reflect GOT Ethernet setting in the GOT	Checked	
GOT IP Address	192.168.3.18	
Subnet Mask	255.255.255.0	
Default Gateway	0.0.0.0	
Peripheral S/W Communication Port No.	5015	
Transparent Port No.	5014	

3.3 Ethernet Setting of Screen Design Software

	Host	Net No.	Station	Unit Type	IP Address	Port No.	Communication
1	*	1	1	QnUD(P)V/QnUDEH	192.168.3.39	5006	UDP

3.4 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. SIMPLE MOTION MODULE

4.1 Start I/O Number of Module

The module's start I/O number is set to 0H. For more details about changing the start I/O number, please refer to "7.1 Changing Start I/O Number".

5. SCREEN SPECIFICATIONS

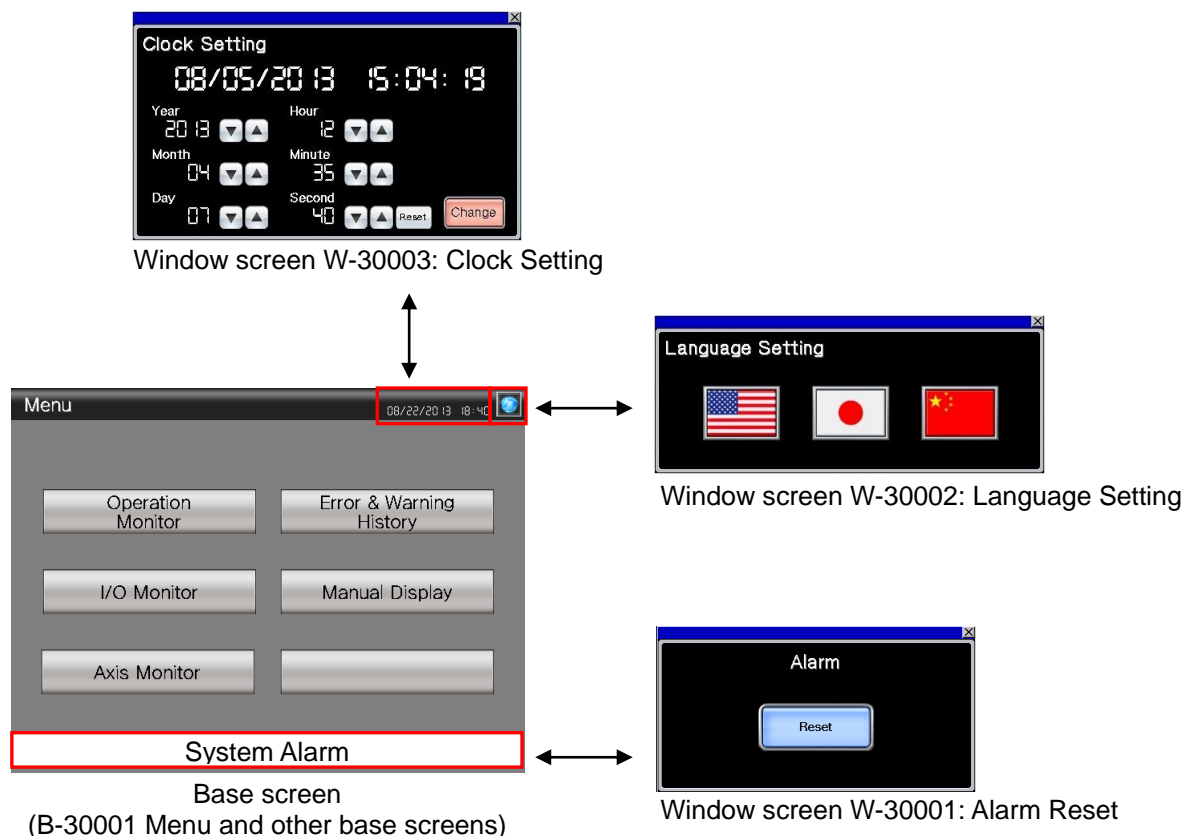
5.1 Display Language

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

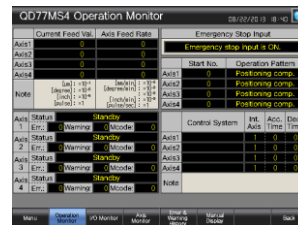
Column No.	Language
1	English
2	Japanese
3	Chinese (Simplified)

5.2 Screen List/Transition

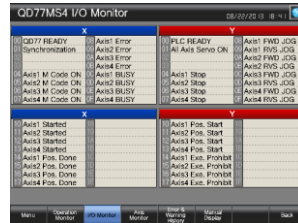
5.2.1 Screen List/Transition (common)



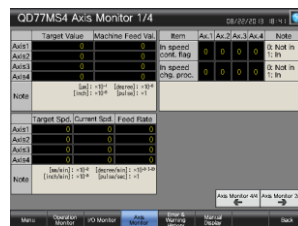
5.2.2 Screen List/Transition (individual)



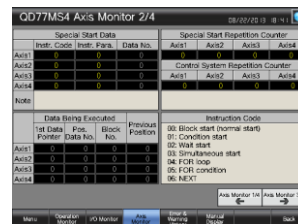
Base screen B-30002: Operation Monitor



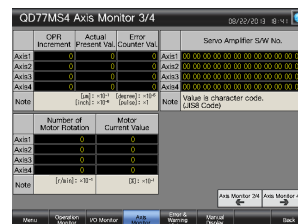
Base screen B-30003: I/O Monitor



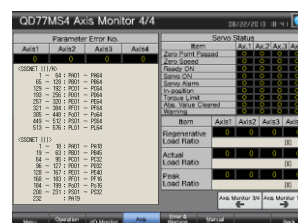
Base screen B-30004: Axis Monitor 1/4



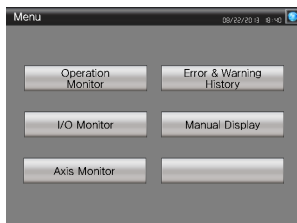
Base screen B-30005: Axis Monitor 2/4



Base screen B-30006: Axis Monitor 3/4



Base screen B-30007: Axis Monitor 4/4

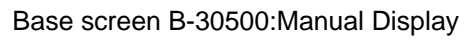


Base screen B-30001: Menu

To next page

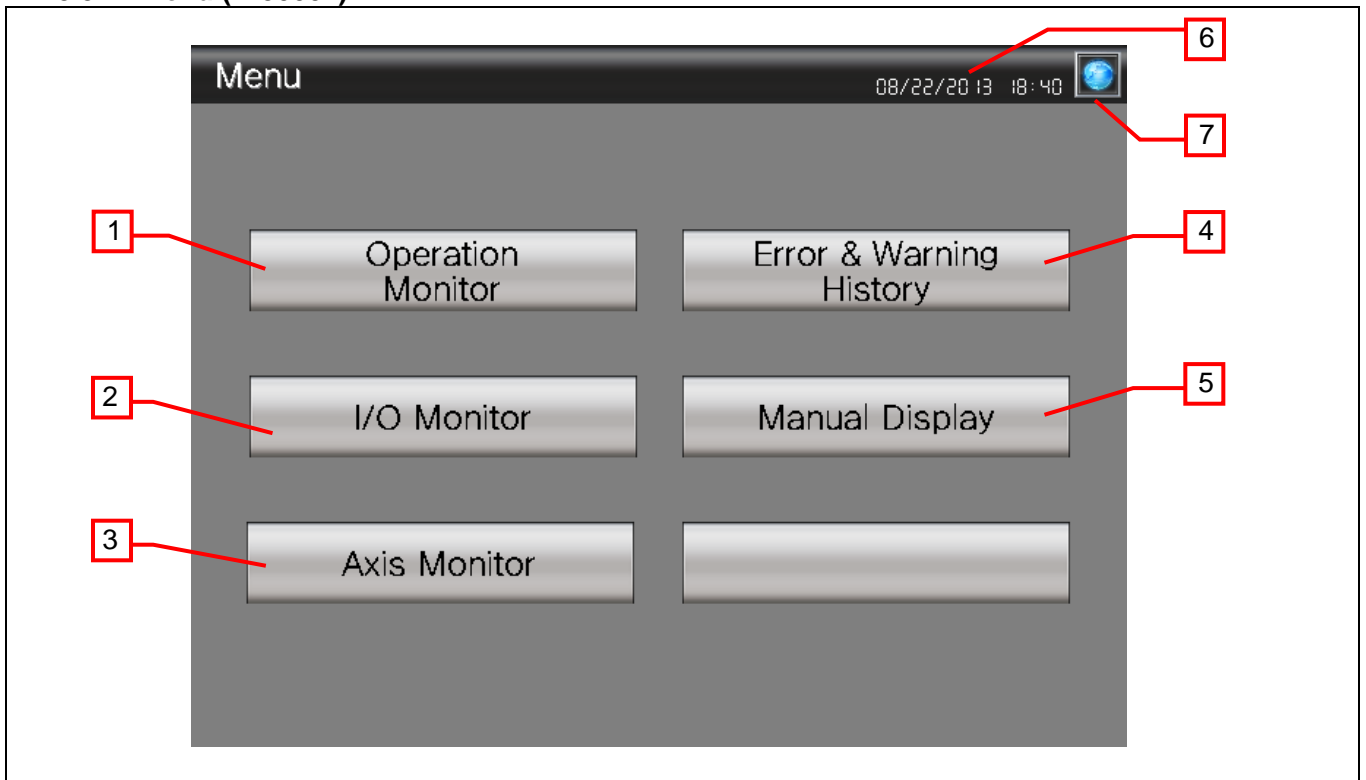
Ba

Base screen B-30008: Error & Warning History



5.3 Explanation of Screens

5.3.1 Menu (B-30001)



Outline

This is the Menu screen.

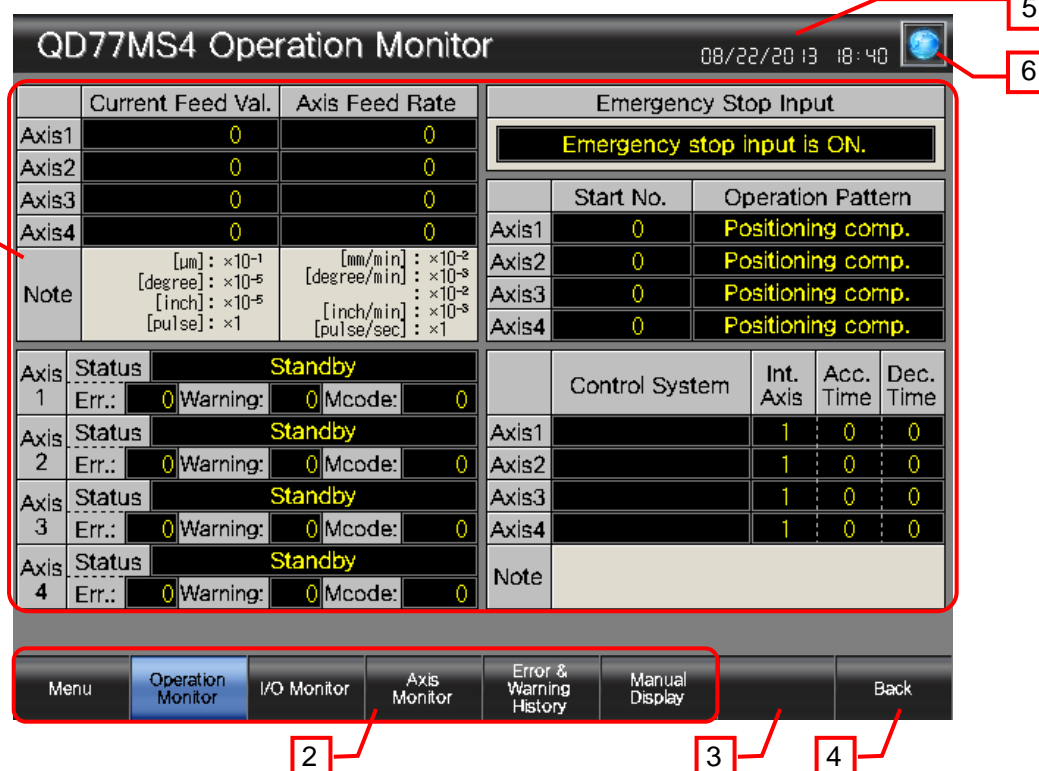
Description

1. Switches to the [Operation Monitor] screen.
2. Switches to the [I/O Monitor] screen.
3. Switches to the [Axis Monitor] screen (1/4).
4. Switches to the [Error & Warning History] screen.
5. Switches to the [Manual Display] screen.
6. Displays the current date and time. Touch the area 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.

5.3.2 Operation Monitor (B-30002)



Outline

This is the QD77MS4 operation monitor screen.

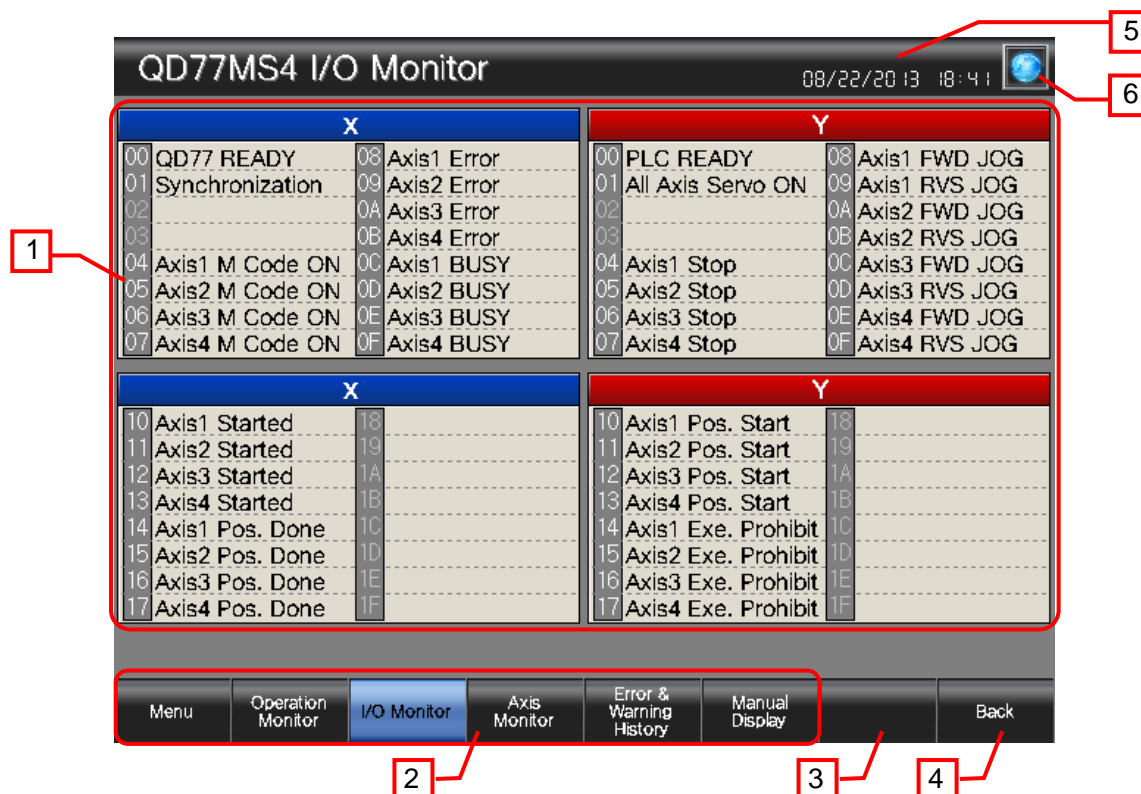
Description

- Displays the following about axis 1 to axis 4.
 - Current Feed Val., Axis Feed Rate
 - Status, Err., Warning, Mcode
 - Emergency Stop Input
 - Start No., Operation Pattern
 - Control System, Int. Axis, Acc. Time, Dec. Time
- 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 area to open the [Clock Setting] window.
- Opens the [Language Setting] window.

Remarks

- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

5.3.3 I/O Monitor (B-30003)



Outline

This is the QD77MS4 I/O monitor screen.

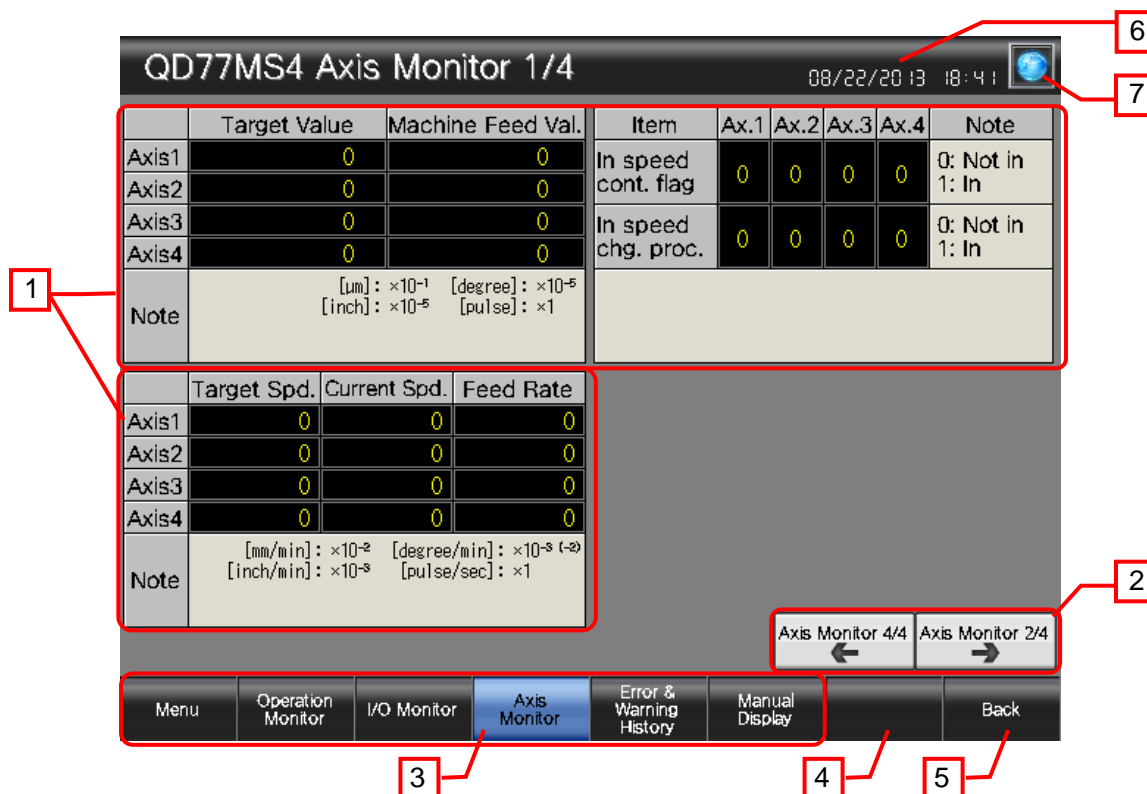
Description

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

Remarks

- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

5.3.4 Axis Monitor 1/4 (B-30004)



Outline

This is the QD77MS4 axis monitor screen (1/4).

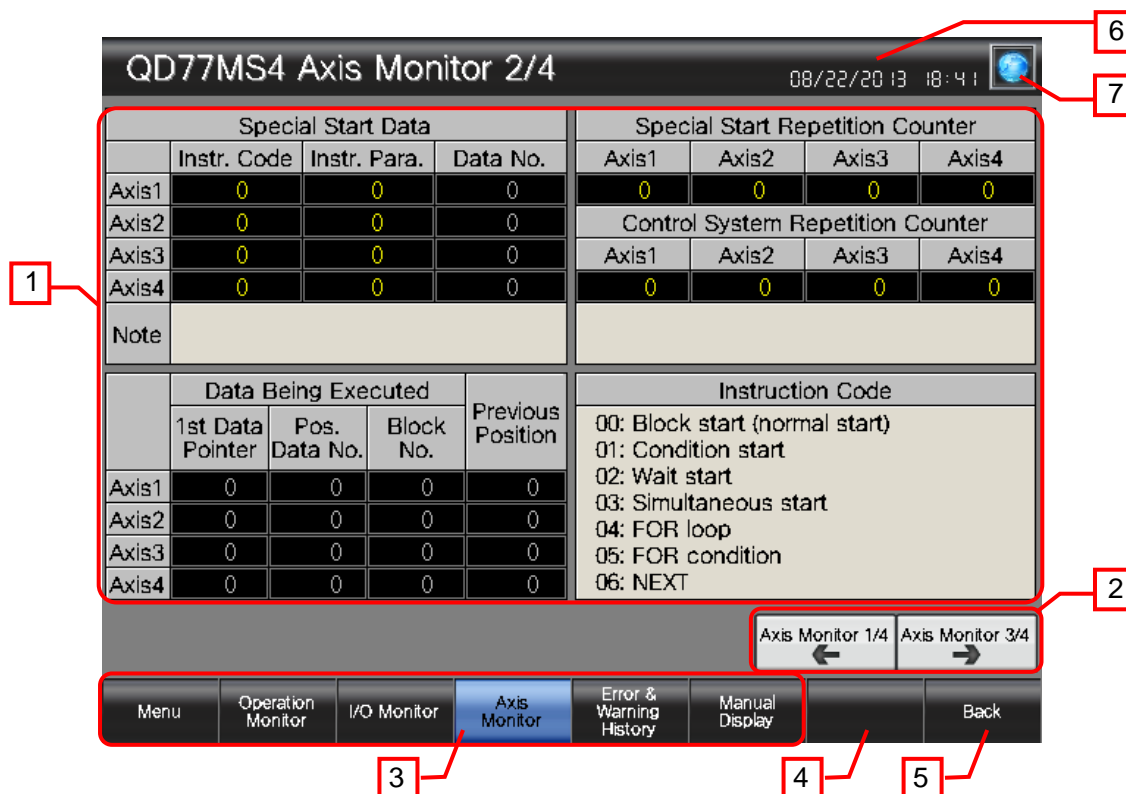
Description

- Displays the following about axis 1 to axis 4.
 - Target Value, Machine Feed Val.
 - Target Spd., Current Spd., Feed Rate
 - In speed cont. flag, In speed chg. proc.
- Switches the page of the axis monitor screen.
- 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 area to open the [Clock Setting] window.
- 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.

5.3.5 Axis Monitor 2/4 (B-30005)



Outline

This is the QD77MS4 axis monitor screen (2/4).

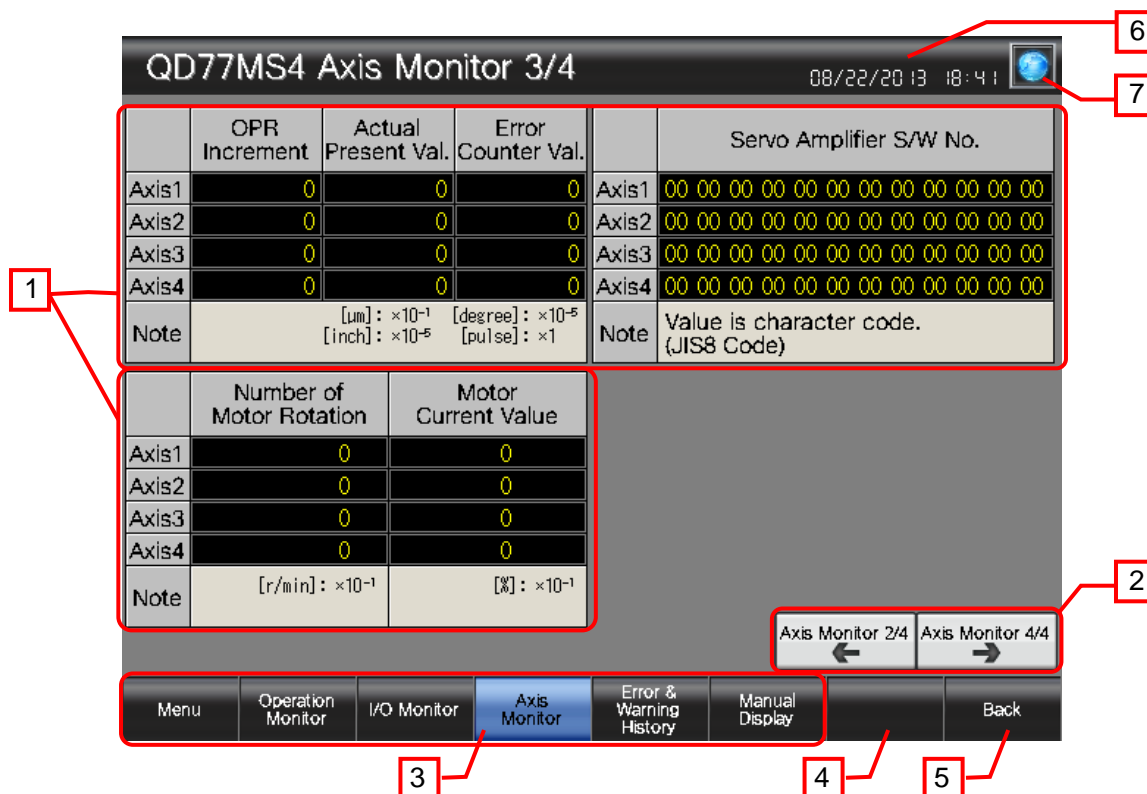
Description

1. Displays the following about axis 1 to axis 4.
 - Special Start Data (Instr. Code, Instr. Para., Data No.)
 - Data Being Executed (1st Data Pointer, Pos. Data No., Block No.), Previous Position
 - Special Start Repetition Counter, Control System Repetition Counter
2. Switches the page of the axis monitor 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 area 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 Axis Monitor 3/4 (B-30006)



Outline

This is the QD77MS4 axis monitor screen (3/4).

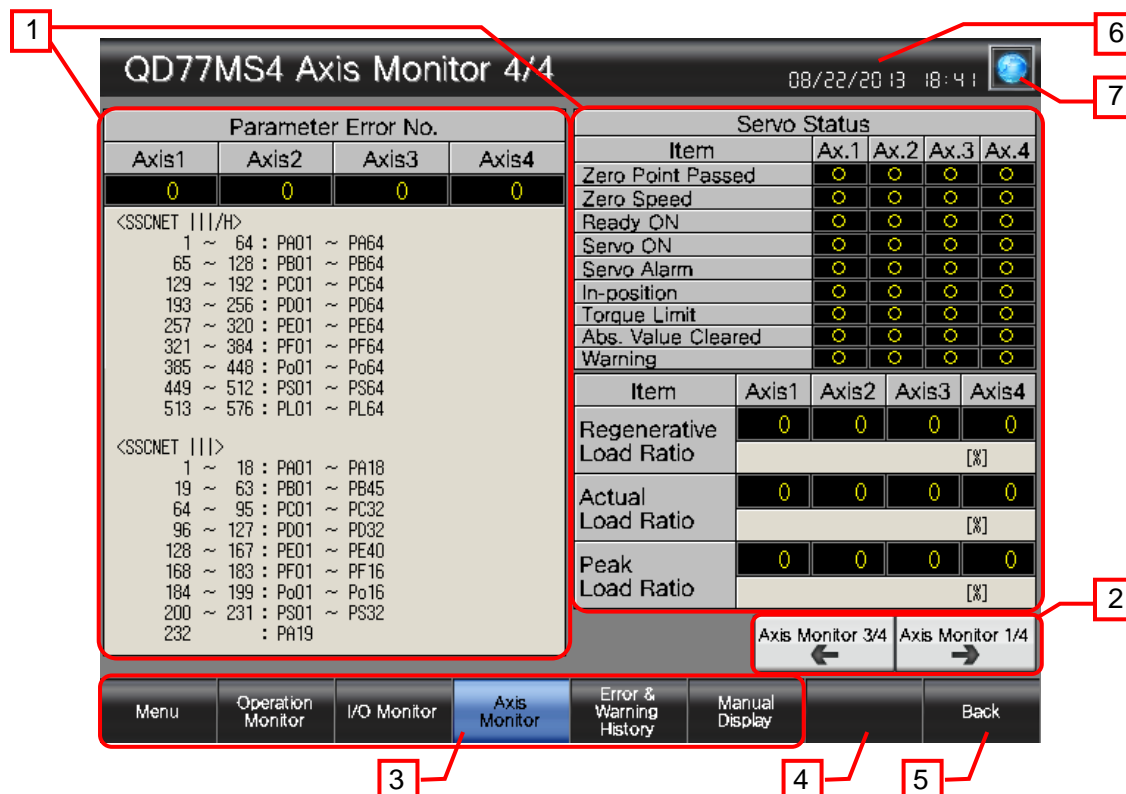
Description

- Displays the following about axis 1 to axis 4.
 - OPR Increment, Actual Present Val., Error Counter Val.
 - Number of Motor Rotation, Motor Current Value
 - Servo Amplifier S/W No.
- Switches the page of the axis monitor screen.
- 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 area to open the [Clock Setting] window.
- Opens the [Language Setting] window.

Remarks

- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

5.3.7 Axis Monitor 4/4 (B-30007)



Outline

This is the QD77MS4 axis monitor screen (4/4).

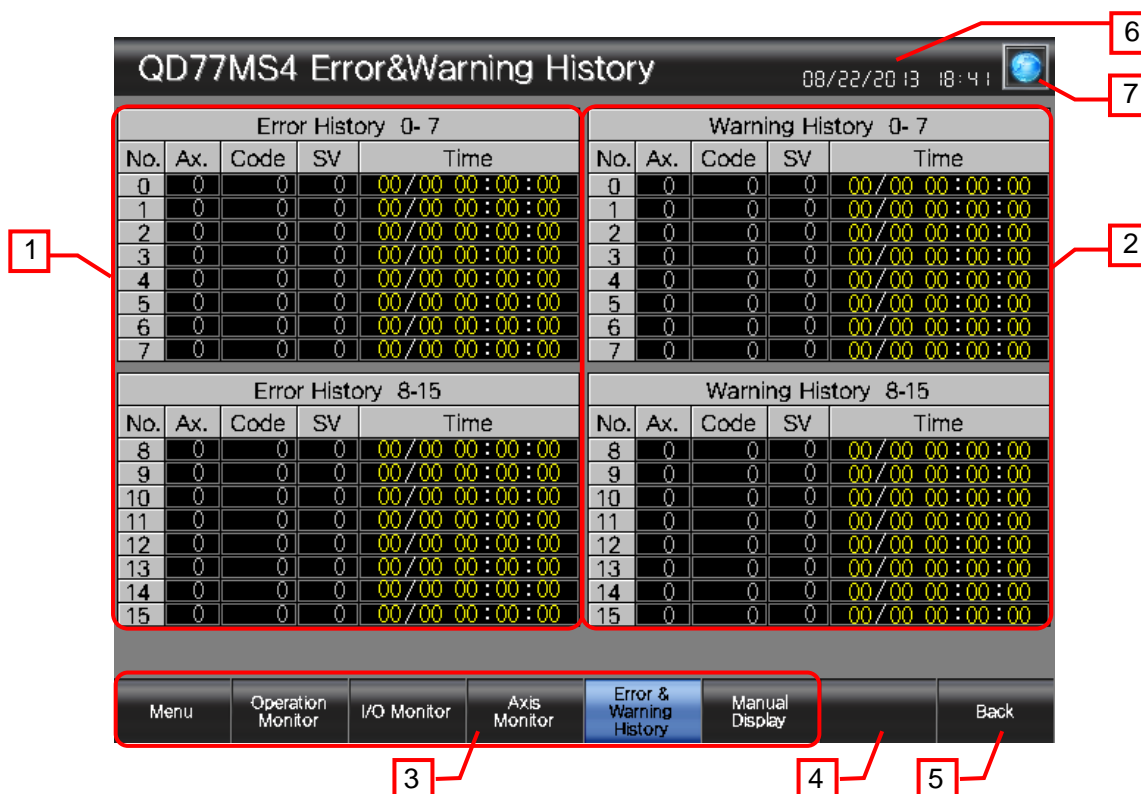
Description

- Displays the following about axis 1 to axis 4.
 - Parameter Error No.
 - Servo Status
 - Regenerative Load Ratio, Actual Load Ratio, Peak Load Ratio
- Switches the page of the axis monitor screen.
- 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 area to open the [Clock Setting] window.
- Opens the [Language Setting] window.

Remarks

- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

5.3.8 Error & Warning History (B-30008)



Outline

This is the QD77MS4 error & warning history screen.

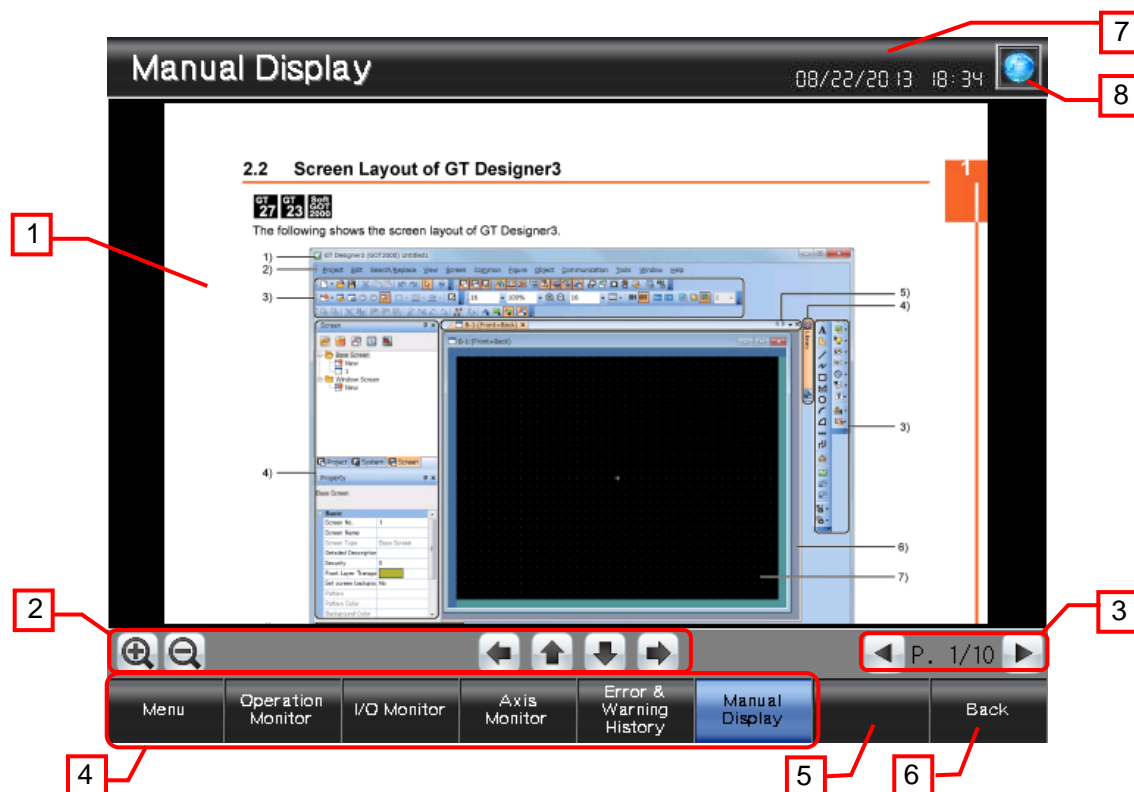
Description

1. Displays the error history.
2. Displays the warning history.
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 area 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.

5.3.9 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.
 - : Scrolls the displayed document to the left or right.
 - : 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.
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 area to open the [Clock Setting] window.
8. Opens the [Language Setting] window.

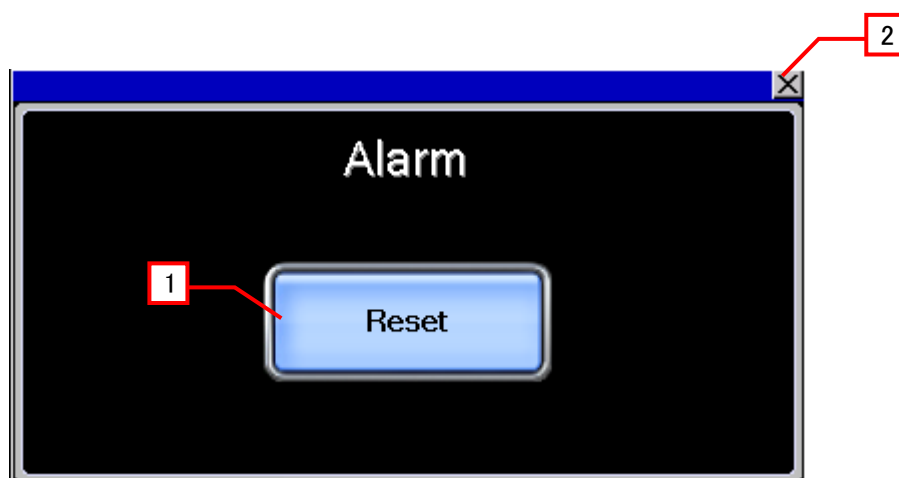
Remarks

- 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.

5.3.10 Alarm Reset (W-30001)



Outline

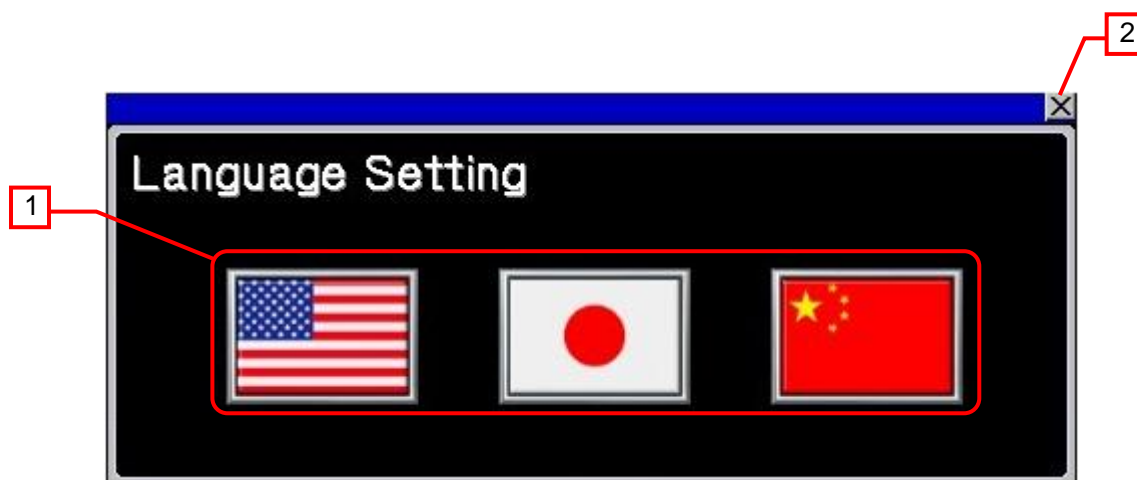
This window screen allows resetting the system alarm.

Description

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

Remarks

5.3.11 Language Setting (W-30002)



Outline

This window screen allows selecting the GOT language.

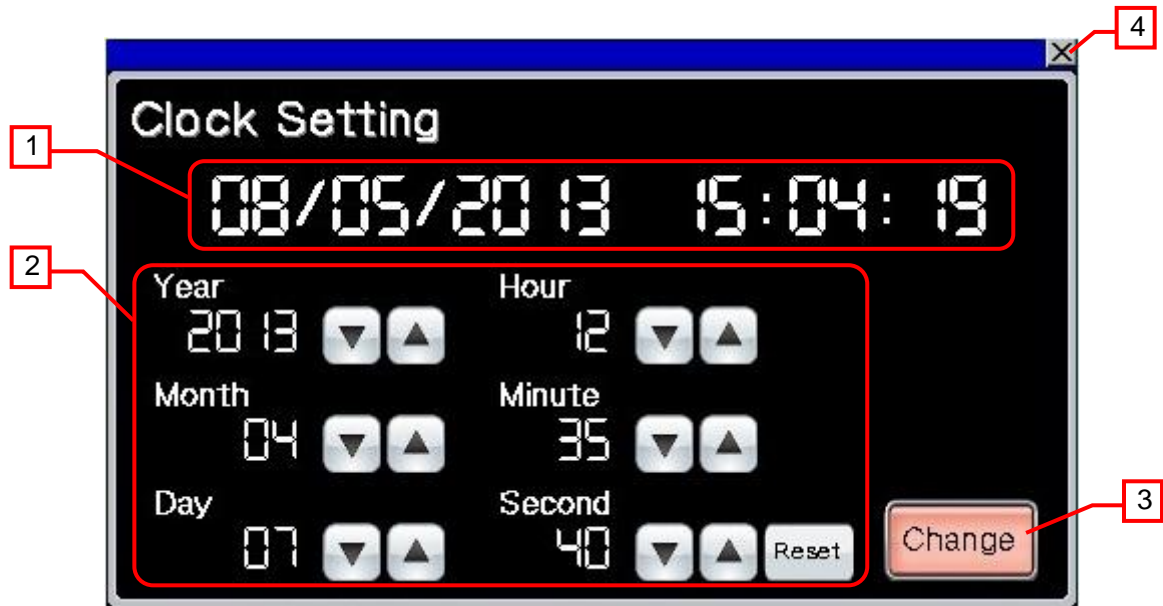
Description

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.



5.3.12 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".

5.4 Device List

Some of the devices specified for the on-screen switches, lamps, or others 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 "8.1 Changing Start I/O Number" and the "GT Designer3 (GOT2000) Help".

5.4.1 Devices of the controller

Type	Device No.	Application
Bit	X0000	Input Signal QD77 READY
	X0001	Input Signal Sync Flag
	X0004	Input Signal M Code ON_Axis 1
	X0005	Input Signal M Code ON_Axis 2
	X0006	Input Signal M Code ON_Axis 3
	X0007	Input Signal M Code ON_Axis 4
	X0008	Input Signal Error Detection_Axis 1
	X0009	Input Signal Error Detection_Axis 2
	X000A	Input Signal Error Detection_Axis 3
	X000B	Input Signal Error Detection_Axis 4
	X000C	Input Signal BUSY_Axis 1
	X000D	Input Signal BUSY_Axis 2
	X000E	Input Signal BUSY_Axis 3
	X000F	Input Signal BUSY_Axis 4
	X0010	Input Signal Start Completed_Axis 1
	X0011	Input Signal Start Completed_Axis 2
	X0012	Input Signal Start Completed_Axis 3
	X0013	Input Signal Start Completed_Axis 4
	X0014	Input Signal Positioning Completed_Axis 1
	X0015	Input Signal Positioning Completed_Axis 2
	X0016	Input Signal Positioning Completed_Axis 3
	X0017	Input Signal Positioning Completed_Axis 4
	Y0000	Output Signal PLC READY
	Y0001	Output Signal All Axis Servo ON
	Y0004	Output Signal Axis Stop_Axis 1
	Y0005	Output Signal Axis Stop_Axis 2
	Y0006	Output Signal Axis Stop_Axis 3
	Y0007	Output Signal Axis Stop_Axis 4
	Y0008	Output Signal Forward JOG Start_Axis 1
	Y0009	Output Signal Reverse JOG Start_Axis 1
	Y000A	Output Signal Forward JOG Start_Axis 2
	Y000B	Output Signal Reverse JOG Start_Axis 2
	Y000C	Output Signal Forward JOG Start_Axis 3
	Y000D	Output Signal Reverse JOG Start_Axis 3
	Y000E	Output Signal Forward JOG Start_Axis 4
	Y000F	Output Signal Reverse JOG Start_Axis 4
	Y0010	Output Signal Positioning Start_Axis 1
	Y0011	Output Signal Positioning Start_Axis 2
	Y0012	Output Signal Positioning Start_Axis 3
	Y0013	Output Signal Positioning Start_Axis 4
	Y0014	Output Signal Execution Prohibited Flag_Axis 1
	Y0015	Output Signal Execution Prohibited Flag_Axis 2
	Y0016	Output Signal Execution Prohibited Flag_Axis 3
	Y0017	Output Signal Execution Prohibited Flag_Axis 4
Word	U00-G800	Axis 1 Current Feed Val.
	U00-G802	Axis 1 Machine Feed Val.
	U00-G806	Axis 1 Error
	U00-G807	Axis 1 Warning
	U00-G808	Axis 1 M Code
	U00-G809	Axis 1 Status
	U00-G810	Axis 1 Current Speed
	U00-G812	Axis 1 Axis Feed Rate
	U00-G818	Axis 1 Target Value

Type	Device No.	Application
Word	U00-G820	Axis 1 Target Speed
	U00-G827	Axis 1 Instr. Code
	U00-G828	Axis 1 Instr. Para.
	U00-G829	Axis 1 Start No.
	U00-G830	Axis 1 In Speed Control
	U00-G831	Axis 1 In Speed Change Process
	U00-G832	Axis 1 Special Start Counter
	U00-G833	Axis 1 Control System Counter
	U00-G834	Axis 1 1st Data Pointer
	U00-G835	Axis 1 Pos. Data No.
	U00-G836	Axis 1 Block No.
	U00-G837	Axis 1 Previous Position
	U00-G838	Axis 1 Int. Axis, Acc. Time, Dec. Time, Operation Pattern, Control System
	U00-G848	Axis 1 OPR Increment
	U00-G850	Axis 1 Actual Present Value
	U00-G852	Axis 1 Error Counter Value
	U00-G854	Axis 1 Number of Motor Rotation
	U00-G856	Axis 1 Motor Current Value
	U00-G864	Axis 1 Servo Amplifier S/W No._1, 2
	U00-G865	Axis 1 Servo Amplifier S/W No._3, 4
	U00-G866	Axis 1 Servo Amplifier S/W No._5, 6
	U00-G867	Axis 1 Servo Amplifier S/W No._7, 8
	U00-G868	Axis 1 Servo Amplifier S/W No._9, 10
	U00-G869	Axis 1 Servo Amplifier S/W No._11, 12
	U00-G870	Axis 1 Parameter Error No.
	U00-G876	Axis 1 Zero Speed, Zero Point Passed
	U00-G877	Axis 1 Ready ON, Servo ON, Servo Alarm, In-Position, Torque Limit, Abs. Value Cleared, Warning
	U00-G878	Axis 1 Regenerative Load Ratio
	U00-G879	Axis 1 Actual Load Ratio
	U00-G880	Axis 1 Peak Load Ratio
	U00-G900	Axis 2 Current Feed Val.
	U00-G902	Axis 2 Machine Feed Val.
	U00-G906	Axis 2 Error
	U00-G907	Axis 2 Warning
	U00-G908	Axis 2 M Code
	U00-G909	Axis 2 Status
	U00-G910	Axis 2 Current Speed
	U00-G912	Axis 2 Axis Feed Rate
	U00-G918	Axis 2 Target Value
	U00-G920	Axis 2 Target Speed
	U00-G927	Axis 2 Instr. Code
	U00-G928	Axis 2 Instr. Para.
	U00-G929	Axis 2 Start No.
	U00-G930	Axis 2 In Speed Control
	U00-G931	Axis 2 In Speed Change Process
	U00-G932	Axis 2 Special Start Counter
	U00-G933	Axis 2 Control System Counter
	U00-G934	Axis 2 1st Data Pointer
	U00-G935	Axis 2 Pos. Data No.
	U00-G936	Axis 2 Block No.
	U00-G937	Axis 2 Previous Position
	U00-G938	Axis 2 Int. Axis, Acc. Time, Dec. Time, Operation Pattern, Control System
	U00-G948	Axis 2 OPR Increment
	U00-G950	Axis 2 Actual Present Value
	U00-G952	Axis 2 Error Counter Value
	U00-G954	Axis 2 Number of Motor Rotation
	U00-G956	Axis 2 Motor Current Value
	U00-G964	Axis 2 Servo Amplifier S/W No._1, 2
	U00-G965	Axis 2 Servo Amplifier S/W No._3, 4

Type	Device No.	Application
Word	U00-G966	Axis 2 Servo Amplifier S/W No._5, 6
	U00-G967	Axis 2 Servo Amplifier S/W No._7, 8
	U00-G968	Axis 2 Servo Amplifier S/W No._9, 10
	U00-G969	Axis 2 Servo Amplifier S/W No._11, 12
	U00-G970	Axis 2 Parameter Error No.
	U00-G976	Axis 2 Zero Speed, Zero Point Passed
	U00-G977	Axis 2 Ready ON, Servo ON, Servo Alarm, In-Position, Torque Limit, Abs. Value Cleared, Warning
	U00-G978	Axis 2 Regenerative Load Ratio
	U00-G979	Axis 2 Actual Load Ratio
	U00-G980	Axis 2 Peak Load Ratio
	U00-G1000	Axis 3 Current Feed Val.
	U00-G1002	Axis 3 Machine Feed Val.
	U00-G1006	Axis 3 Error
	U00-G1007	Axis 3 Warning
	U00-G1008	Axis 3 M Code
	U00-G1009	Axis 3 Status
	U00-G1010	Axis 3 Current Speed
	U00-G1012	Axis 3 Axis Feed Rate
	U00-G1018	Axis 3 Target Value
	U00-G1020	Axis 3 Target Speed
	U00-G1027	Axis 3 Instr. Code
	U00-G1028	Axis 3 Instr. Para.
	U00-G1029	Axis 3 Start No.
	U00-G1030	Axis 3 In Speed Control
	U00-G1031	Axis 3 In Speed Change Process
	U00-G1032	Axis 3 Special Start Counter
	U00-G1033	Axis 3 Control System Counter
	U00-G1034	Axis 3 1st Data Pointer
	U00-G1035	Axis 3 Pos. Data No.
	U00-G1036	Axis 3 Block No.
	U00-G1037	Axis 3 Previous Position
	U00-G1038	Axis 3 Int. Axis, Acc. Time, Dec. Time, Operation Pattern, Control System
	U00-G1048	Axis 3 OPR Increment
	U00-G1050	Axis 3 Actual Present Value
	U00-G1052	Axis 3 Error Counter Value
	U00-G1054	Axis 3 Number of Motor Rotation
	U00-G1056	Axis 3 Motor Current Value
	U00-G1064	Axis 3 Servo Amplifier S/W No._1, 2
	U00-G1065	Axis 3 Servo Amplifier S/W No._3, 4
	U00-G1066	Axis 3 Servo Amplifier S/W No._5, 6
	U00-G1067	Axis 3 Servo Amplifier S/W No._7, 8
	U00-G1068	Axis 3 Servo Amplifier S/W No._9, 10
	U00-G1069	Axis 3 Servo Amplifier S/W No._11, 12
	U00-G1070	Axis 3 Parameter Error No.
	U00-G1076	Axis 3 Zero Speed, Zero Point Passed
	U00-G1077	Axis 3 Ready ON, Servo ON, Servo Alarm, In-Position, Torque Limit, Abs. Value Cleared, Warning
	U00-G1078	Axis 3 Regenerative Load Ratio
	U00-G1079	Axis 3 Actual Load Ratio
	U00-G1080	Axis 3 Peak Load Ratio
	U00-G1100	Axis 4 Current Feed Val.
	U00-G1102	Axis 4 Machine Feed Val.
	U00-G1106	Axis 4 Error
	U00-G1107	Axis 4 Warning
	U00-G1108	Axis 4 M Code
	U00-G1109	Axis 4 Status
	U00-G1110	Axis 4 Current Speed
	U00-G1112	Axis 4 Axis Feed Rate
	U00-G1118	Axis 4 Target Value

Type	Device No.	Application
Word	U00-G1120	Axis 4 Target Speed
	U00-G1127	Axis 4 Instr. Code
	U00-G1128	Axis 4 Instr. Para.
	U00-G1129	Axis 4 Start No.
	U00-G1130	Axis 4 In Speed Control
	U00-G1131	Axis 4 In Speed Change Process
	U00-G1132	Axis 4 Special Start Counter
	U00-G1133	Axis 4 Control System Counter
	U00-G1134	Axis 4 1st Data Pointer
	U00-G1135	Axis 4 Pos. Data No.
	U00-G1136	Axis 4 Block No.
	U00-G1137	Axis 4 Previous Position
	U00-G1138	Axis 4 Int. Axis, Acc. Time, Dec. Time, Operation Pattern, Control System
	U00-G1148	Axis 4 OPR Increment
	U00-G1150	Axis 4 Actual Present Value
	U00-G1152	Axis 4 Error Counter Value
	U00-G1154	Axis 4 Number of Motor Rotation
	U00-G1156	Axis 4 Motor Current Value
	U00-G1164	Axis 4 Servo Amplifier S/W No._1, 2
	U00-G1165	Axis 4 Servo Amplifier S/W No._3, 4
	U00-G1166	Axis 4 Servo Amplifier S/W No._5, 6
	U00-G1167	Axis 4 Servo Amplifier S/W No._7, 8
	U00-G1168	Axis 4 Servo Amplifier S/W No._9, 10
	U00-G1169	Axis 4 Servo Amplifier S/W No._11, 12
	U00-G1170	Axis 4 Parameter Error No.
	U00-G1176	Axis 4 Zero Speed, Zero Point Passed
	U00-G1177	Axis 4 Ready ON, Servo ON, Servo Alarm, In-Position, Torque Limit, Abs. Value Cleared, Warning
	U00-G1178	Axis 4 Regenerative Load Ratio
	U00-G1179	Axis 4 Actual Load Ratio
	U00-G1180	Axis 4 Peak Load Ratio
	U00-G1293	Error History_No.0_Axis
	U00-G1294	Error History_No.0_Code
	U00-G1295	Error History_No.0_Day, Hour
	U00-G1296	Error History_No.0_Minute, Second
	U00-G1297	Error History_No.1_Axis
	U00-G1298	Error History_No.1_Code
	U00-G1299	Error History_No.1_Day, Hour
	U00-G1300	Error History_No.1_Minute, Second
	U00-G1301	Error History_No.2_Axis
	U00-G1302	Error History_No.2_Code
	U00-G1303	Error History_No.2_Day, Hour
	U00-G1304	Error History_No.2_Minute, Second
	U00-G1305	Error History_No.3_Axis
	U00-G1306	Error History_No.3_Code
	U00-G1307	Error History_No.3_Day, Hour
	U00-G1308	Error History_No.3_Minute, Second
	U00-G1309	Error History_No.4_Axis
	U00-G1310	Error History_No.4_Code
	U00-G1311	Error History_No.4_Day, Hour
	U00-G1312	Error History_No.4_Minute, Second
	U00-G1313	Error History_No.5_Axis
	U00-G1314	Error History_No.5_Code
	U00-G1315	Error History_No.5_Day, Hour
	U00-G1316	Error History_No.5_Minute, Second
	U00-G1317	Error History_No.6_Axis
	U00-G1318	Error History_No.6_Code
	U00-G1319	Error History_No.6_Day, Hour
	U00-G1320	Error History_No.6_Minute, Second
	U00-G1321	Error History_No.7_Axis

Type	Device No.	Application
Word	U00-G1322	Error History_No.7_Code
	U00-G1323	Error History_No.7_Day, Hour
	U00-G1324	Error History_No.7_Minute, Second
	U00-G1325	Error History_No.8_Axis
	U00-G1326	Error History_No.8_Code
	U00-G1327	Error History_No.8_Day, Hour
	U00-G1328	Error History_No.8_Minute, Second
	U00-G1329	Error History_No.9_Axis
	U00-G1330	Error History_No.9_Code
	U00-G1331	Error History_No.9_Day, Hour
	U00-G1332	Error History_No.9_Minute, Second
	U00-G1333	Error History_No.10_Axis
	U00-G1334	Error History_No.10_Code
	U00-G1335	Error History_No.10_Day, Hour
	U00-G1336	Error History_No.10_Minute, Second
	U00-G1337	Error History_No.11_Axis
	U00-G1338	Error History_No.11_Code
	U00-G1339	Error History_No.11_Day, Hour
	U00-G1340	Error History_No.11_Minute, Second
	U00-G1341	Error History_No.12_Axis
	U00-G1342	Error History_No.12_Code
	U00-G1343	Error History_No.12_Day, Hour
	U00-G1344	Error History_No.12_Minute, Second
	U00-G1345	Error History_No.13_Axis
	U00-G1346	Error History_No.13_Code
	U00-G1347	Error History_No.13_Day, Hour
	U00-G1348	Error History_No.13_Minute, Second
	U00-G1349	Error History_No.14_Axis
	U00-G1350	Error History_No.14_Code
	U00-G1351	Error History_No.14_Day, Hour
	U00-G1352	Error History_No.14_Minute, Second
	U00-G1353	Error History_No.15_Axis
	U00-G1354	Error History_No.15_Code
	U00-G1355	Error History_No.15_Day, Hour
	U00-G1356	Error History_No.15_Minute, Second
	U00-G1358	Warning History_No.0_Axis
	U00-G1359	Warning History_No.0_Code
	U00-G1360	Warning History_No.0_Day, Hour
	U00-G1361	Warning History_No.0_Minute, Second
	U00-G1362	Warning History_No.1_Axis
	U00-G1363	Warning History_No.1_Code
	U00-G1364	Warning History_No.1_Day, Hour
	U00-G1365	Warning History_No.1_Minute, Second
	U00-G1366	Warning History_No.2_Axis
	U00-G1367	Warning History_No.2_Code
	U00-G1368	Warning History_No.2_Day, Hour
	U00-G1369	Warning History_No.2_Minute, Second
	U00-G1370	Warning History_No.3_Axis
	U00-G1371	Warning History_No.3_Code
	U00-G1372	Warning History_No.3_Day, Hour
	U00-G1373	Warning History_No.3_Minute, Second
	U00-G1374	Warning History_No.4_Axis
	U00-G1375	Warning History_No.4_Code
	U00-G1376	Warning History_No.4_Day, Hour
	U00-G1377	Warning History_No.4_Minute, Second
	U00-G1378	Warning History_No.5_Axis
	U00-G1379	Warning History_No.5_Code
	U00-G1380	Warning History_No.5_Day, Hour
	U00-G1381	Warning History_No.5_Minute, Second
	U00-G1382	Warning History_No.6_Axis

Type	Device No.	Application
Word	U00-G1383	Warning History_No.6_Code
	U00-G1384	Warning History_No.6_Day, Hour
	U00-G1385	Warning History_No.6_Minute, Second
	U00-G1386	Warning History_No.7_Axis
	U00-G1387	Warning History_No.7_Code
	U00-G1388	Warning History_No.7_Day, Hour
	U00-G1389	Warning History_No.7_Minute, Second
	U00-G1390	Warning History_No.8_Axis
	U00-G1391	Warning History_No.8_Code
	U00-G1392	Warning History_No.8_Day, Hour
	U00-G1393	Warning History_No.8_Minute, Second
	U00-G1394	Warning History_No.9_Axis
	U00-G1395	Warning History_No.9_Code
	U00-G1396	Warning History_No.9_Day, Hour
	U00-G1397	Warning History_No.9_Minute, Second
	U00-G1398	Warning History_No.10_Axis
	U00-G1399	Warning History_No.10_Code
	U00-G1400	Warning History_No.10_Day, Hour
	U00-G1401	Warning History_No.10_Minute, Second
	U00-G1402	Warning History_No.11_Axis
	U00-G1403	Warning History_No.11_Code
	U00-G1404	Warning History_No.11_Day, Hour
	U00-G1405	Warning History_No.11_Minute, Second
	U00-G1406	Warning History_No.12_Axis
	U00-G1407	Warning History_No.12_Code
	U00-G1408	Warning History_No.12_Day, Hour
	U00-G1409	Warning History_No.12_Minute, Second
	U00-G1410	Warning History_No.13_Axis
	U00-G1411	Warning History_No.13_Code
	U00-G1412	Warning History_No.13_Day, Hour
	U00-G1413	Warning History_No.13_Minute, Second
	U00-G1414	Warning History_No.14_Axis
	U00-G1415	Warning History_No.14_Code
	U00-G1416	Warning History_No.14_Day, Hour
	U00-G1417	Warning History_No.14_Minute, Second
	U00-G1418	Warning History_No.15_Axis
	U00-G1419	Warning History_No.15_Code
	U00-G1420	Warning History_No.15_Day, Hour
	U00-G1421	Warning History_No.15_Minute, Second
	U00-G1431	Emergency Stop Input
	U00-G1456	Error History_No.0_Month
	U00-G1457	Error History_No.1_Month
	U00-G1458	Error History_No.2_Month
	U00-G1459	Error History_No.3_Month
	U00-G1460	Error History_No.4_Month
	U00-G1461	Error History_No.5_Month
	U00-G1462	Error History_No.6_Month
	U00-G1463	Error History_No.7_Month
	U00-G1464	Error History_No.8_Month
	U00-G1465	Error History_No.9_Month
	U00-G1466	Error History_No.10_Month
	U00-G1467	Error History_No.11_Month
	U00-G1468	Error History_No.12_Month
	U00-G1469	Error History_No.13_Month
	U00-G1470	Error History_No.14_Month
	U00-G1471	Error History_No.15_Month
	U00-G1472	Warning History_No.0_Month
	U00-G1473	Warning History_No.1_Month
	U00-G1474	Warning History_No.2_Month
	U00-G1475	Warning History_No.3_Month

Type	Device No.	Application
Word	U00-G1476	Warning History_No.4_Month
	U00-G1477	Warning History_No.5_Month
	U00-G1478	Warning History_No.6_Month
	U00-G1479	Warning History_No.7_Month
	U00-G1480	Warning History_No.8_Month
	U00-G1481	Warning History_No.9_Month
	U00-G1482	Warning History_No.10_Month
	U00-G1483	Warning History_No.11_Month
	U00-G1484	Warning History_No.12_Month
	U00-G1485	Warning History_No.13_Month
	U00-G1486	Warning History_No.14_Month
	U00-G1487	Warning History_No.15_Month
	U00-G31300	Error History_No.0_SV
	U00-G31301	Error History_No.1_SV
	U00-G31302	Error History_No.2_SV
	U00-G31303	Error History_No.3_SV
	U00-G31304	Error History_No.4_SV
	U00-G31305	Error History_No.5_SV
	U00-G31306	Error History_No.6_SV
	U00-G31307	Error History_No.7_SV
	U00-G31308	Error History_No.8_SV
	U00-G31309	Error History_No.9_SV
	U00-G31310	Error History_No.10_SV
	U00-G31311	Error History_No.11_SV
	U00-G31312	Error History_No.12_SV
	U00-G31313	Error History_No.13_SV
	U00-G31314	Error History_No.14_SV
	U00-G31315	Error History_No.15_SV
	U00-G31316	Warning History_No.0_SV
	U00-G31317	Warning History_No.1_SV
	U00-G31318	Warning History_No.2_SV
	U00-G31319	Warning History_No.3_SV
	U00-G31320	Warning History_No.4_SV
	U00-G31321	Warning History_No.5_SV
	U00-G31322	Warning History_No.6_SV
	U00-G31323	Warning History_No.7_SV
	U00-G31324	Warning History_No.8_SV
	U00-G31325	Warning History_No.9_SV
	U00-G31326	Warning History_No.10_SV
	U00-G31327	Warning History_No.11_SV
	U00-G31328	Warning History_No.12_SV
	U00-G31329	Warning History_No.13_SV
	U00-G31330	Warning History_No.14_SV
	U00-G31331	Warning History_No.15_SV

5.4.2 GOT internal devices

Type	Device No.	Application
Bit	GB40	Script Trigger (Always ON)
	GD60031.b13	GOT Error Reset Signal
	GS512.b0	Time Change Signal
Word	GD60000	Base Screen Switching
	GD60001	Overlap Window 1 Screen Switching
	GD60004	Overlap Window 2 Screen Switching
	GD60021	Language Switching
	GD60022	System Language Switching
	GD60031, GD60041	System Information
	GD60080 to GD60082	Document Display
	GD63990 to GD63995	Clock Digital Switch
	GS513 to GS516	Changed Time
	GS650 to GS652	Current Time
	TMP950 to TMP996	For Script Operation

5.5 Comment List

Comment group No.	Comment No.	Where comments are used
500	No. 1 to No. 12	B-30001 to B-30500
	No. 551 to No. 941	B-30002
	No. 951 to No. 1000	B-30003
	No. 1011 to No. 1033	B-30004
	No. 1041 to No. 1068	B-30005
	No. 1071 to No. 1086	B-30006
	No. 1091 to No. 1118	B-30007
	No. 1121 to No. 1129	B-30008
	No. 1201 to No. 1202	W-30001
	No. 1203	W-30002
	No. 1204 to No. 1211	W-30003

5.6 Script List

Item	Settings
Project script	Specified
Screen script	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			

5.6.2 Screen script Base Screen 30500

Script No.	30002	Script name	Script30002
Comment	DocumentDisplayProcessOfLastPage		
Data type	Unsigned 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	20021
Script user ID	1		
Data type	Unsigned BIN16	Trigger type	Device Writing
<pre>//Do not exceed 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	20018
Script user ID	1		
Data type	Unsigned BIN16	Trigger type	Rise, GB40
<pre>//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</pre>			

```
[w:TMP972] = [w:TMP966] * 10; //BCD->BIN
[w:TMP959] = [w:GS652] & 0x0F00; //Obtain Ones Digit of "Last 2-Digits of Minute" from Clock Data for Setting
[w:TMP967] = [w:TMP959] >> 8; //BCD->BIN
[w:TMP977] = [w:TMP972] + [w:TMP967]; //Set Minute to TMP977 as BIN
[w:GD63994] = [w:TMP977]; //Set Minute
```

```
[w:TMP993] = [w:GS652] & 0x00F0; //Obtain Tenths Digit of Second from Clock Data for Setting
[w:TMP995] = [w:TMP993] >> 4; //Decimal Alignment
[w:TMP996] = [w:TMP995] * 10; //BCD->BIN
[w:TMP994] = [w:GS652] & 0x000F; //Obtain Ones Digit of Second from Clock Data for Setting
[w:TMP978] = [w:TMP996] + [w:TMP994]; //Set Second to TMP978 as BIN
[w:GD63995] = [w:TMP978]; //Set Second
```

Object	Numerical Display	Object ID *1	20019
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	20020
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	20021
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	20022
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	20023
Script user ID	6		
Data type	Unsigned BIN16	Trigger type	Ordinary

//Day of Week Setting

```
[w:TMP986] = [w:GD63990]; //Year (BIN)
[w:TMP987] = [w:GD63991]; //Month (BIN)
[w:TMP988] = [w:GD63992]; //Day (BIN)
```

```
if(([w:TMP987] == 1) || ([w:TMP987] == 2)){ //Correction Processing to Calculate January and February as 13th/14th Month
    [w:TMP986] = [w:TMP986] - 1; //Subtract 1 from Year
    [w:TMP987] = [w:TMP987] + 12; //Add 12 to Month
}
```

```
[w:TMP989] = [w:TMP986]/4; //Create Items Required for Zeller's Congruence  
[w:TMP990] = [w:TMP986]/100; //Create Items Required for Zeller's Congruence  
[w:TMP991] = [w:TMP986]/400; //Create Items Required for Zeller's Congruence  
[w:TMP992] = (13*[w:TMP987]+8)/5; //Create Items Required for Zeller's Congruence  
  
//Calculate Day of Week Using Zeller's Congruence and Set the Day to Change Time Device  
[w:GS516] = ([w:TMP986]+[w:TMP989]-[w:TMP990]+[w:TMP991]+[w:TMP992]+[w:TMP988])%7;
```

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

6. MANUAL DISPLAY

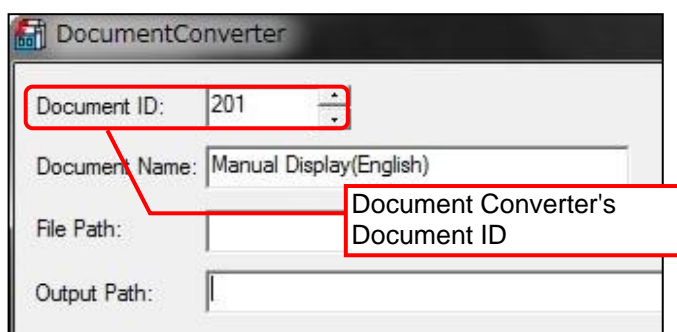
Manuals can be displayed using the document display function. For more details about the document display function, please refer to the "GT Designer3 (GOT2000) Help". Please note that the document display function does not support language switching. Therefore, in the sample screens, the language of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

6.1 Preparing Document Data for Manual Display

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

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

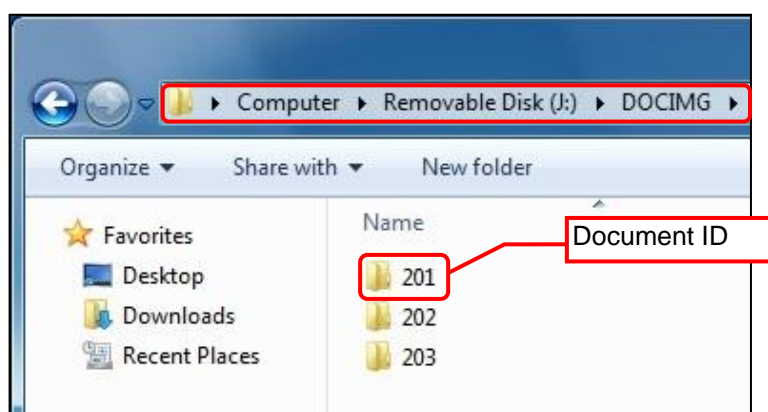
*For details of the relation between Document ID and Display language, please refer to the table below.



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

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

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



SD card folder configuration

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

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

7. OTHERS

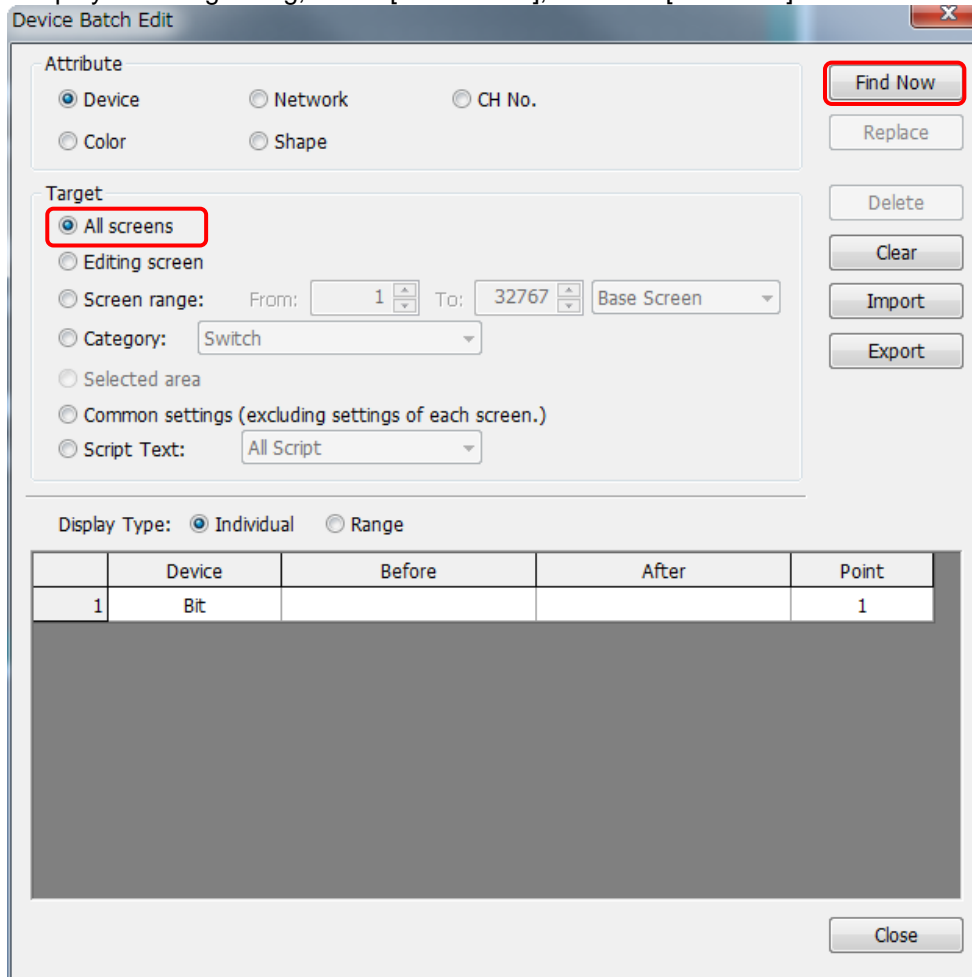
7.1 Changing Start I/O Number

Follow the procedure below to change the start I/O number of the module to a value other than 0H.
(Example: Changing the start I/O number from 0H to 20H)

- (1) Select [Search/Replace] - [Batch Edit] - [Device] menu.



- (2) In the displayed setting dialog, select [All Screens], and click [Find Now].



- (3) Set the [After] device and [Point], and execute the batch edit.
- Changing the start I/O number of the buffer memory
Set [Before] to U00-G2406, [After] to U02-G2406, and [Point] to 30532, and click [Replace]. U00-G2406 to U00-G32937 will be changed to U02-G2406 to U02-G32937.

Device Batch Edit

Attribute: ☒ Device ☐ Network ☐ CH No. ☐ Color ☐ Shape

Target: ☒ All screens ☐ Editing screen ☐ Screen range: From: 1 To: 32767 Base Screen ☐ Category: Switch ☐ Selected area ☐ Common settings (excluding settings of each screen.) ☐ Script Text: All Script

Display Type: ☒ Individual ☐ Range

	Device	Before	After	Point
59	Bit	Y0017	Y0017	1
60	Word	U00-G806	U00-G806	1
61	Word	U00-G807	U00-G807	1
62	Word	U00-G808	U00-G808	1
63	Word	U00-G809	U00-G809	1
64	Word	U00-G827	U00-G827	1
65	Word	U00-G828	U00-G828	1
66	Word	U00-G829	U00-G829	1
67	Word	U00-G830	U00-G830	1

- Changing the start I/O number of the I/O signal
To change the input signal (X device), set [Before] to X0000, [After] to X0020, and [Point] to 32, and click [Replace]. X0000 to X001F will be changed to X0020 to X003F.
To change the output signal (Y device), set [Before] to Y0000, [After] to Y0020, and [Point] to 32, and click [Replace]. Y0000 to Y001F will be changed to Y0020 to Y003F.

Device Batch Edit

Attribute: ☒ Device ☐ Network ☐ CH No. ☐ Color ☐ Shape

Target: ☒ All screens ☐ Editing screen ☐ Screen range: From: 1 To: 32767 Base Screen ☐ Category: Switch ☐ Selected area ☐ Common settings (excluding settings of each screen.) ☐ Script Text: All Script

Display Type: ☒ Individual ☐ Range

	Device	Before	After	Point
14	Word	GD63995	GD63995	1
15	Bit	X0000	X0000	1
16	Bit	X0001	X0001	1
17	Bit	X0004	X0004	1
18	Bit	X0005	X0005	1
19	Bit	X0006	X0006	1
20	Bit	X0007	X0007	1
21	Bit	X0008	X0008	1
22	Bit	X0009	X0009	1