

CHINO Controller
LT830 Series
LT83010000-20A

Sample Screen Manual

Mitsubishi Electric Corporation

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REVISIONS

Sample Screen Manual

Date	Control No.*	Description
2013/10	BCN-P5999-0109	First edition
2015/6	BCN-P5999-0109-2	Device Specification for Document ID

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

Project data

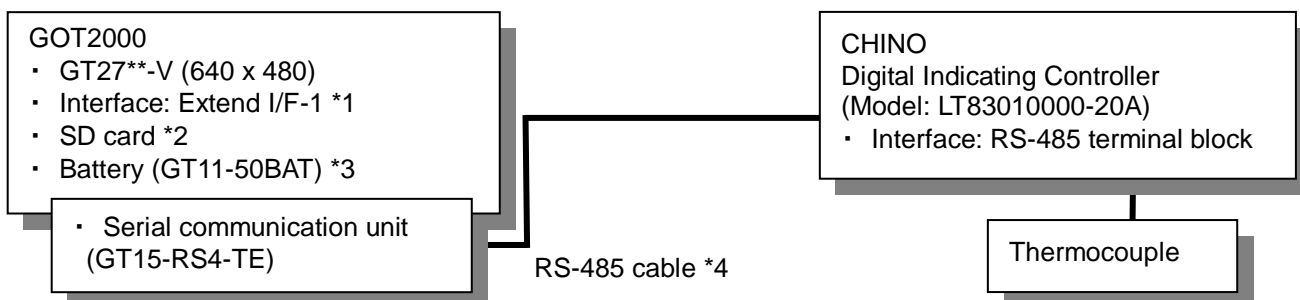
Date	Project data	GT Designer3*	Description
2013/10	CHINO_LT830_V_Ver1_E.GTX	1.100E	First edition
2015/6	CHINO_LT830_V_Ver2_E.GTX	1.128J	Device Specification for Document ID

* The version number of the 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 CHINO Digital Indicating Controller (LT83010000-20A) via serial connection (RS-485). The sample screens can be used for changing the SV or monitoring the PV and MV.

2. SYSTEM CONFIGURATION



*1: Connection via standard I/F RS-422 or RS-485 is also possible.

*2: The SD card is used for the logging and document display functions.

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

*4: For more details about the cable, please refer to the "GOT2000 Series Connection Manual (Non-Mitsubishi Products 1)".

3. GOT

3.1 System Applications That Are Automatically Selected

Type	System application name		
Standard Function	Standard System Application		
	Standard Font		Japanese
Communication Driver	CHINO Controllers (MODBUS)		
Extended Function	Standard Font		Chinese (Simplified)
	Outline Font	Gothic	Alphanumeric/Kana
			Japanese (Kanji)
			Chinese (Simplified)
	Document Display		

3.2 Controller Setting of Screen Design Software

Item	Set value	Remarks
Transmission Speed (BPS)	19200 bps	
Data Bit	8 bit	
Stop Bit	1 bit	
Parity	None	
Retry (Times)	3	
Timeout Time (Sec)	1	
Host Address	1	Station No. of digital indicating controller
Delay Time (ms)	5	
Format	1	

3.3 Overlap Window Setting of Screen Design Software

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

4. DIGITAL INDICATING CONTROLLER

4.1 Digital Indicating Controller Communication Setting

Item	Set value	Remarks
Protocol	rtU	
Communications function	CoM	Mode for communicating with personal computer
Station No.	1	
Transmission speed	19.2K	19200 bps
Stop bit	1 bit	Fixed and not changeable.
Character	8n1	Bit length: 8 bit
		Parity: None
		Stop bit: 1 bit
Remote/local	LoCL	
Digital transmission	PV	
Remote shift	0.0	

4.2 Digital Indicating Controller Parameter Setting

The following setting values were used to check operation at Mitsubishi.

Item	Set value	Remarks
Input range	L1	Setting range: -200°C to 1370°C
Linear decimal point	0	Fixed to 0.
Set value (SV)	28	Set to 28 in this sample.
EV1 mode	AH	Set to absolute value high limit no standby in this sample.
EV1 setting	33	Set to 33 in this sample.
EV2 mode	AL	Set to absolute value low limit no standby in this sample.
EV2 setting	26	Set to 26 in this sample.
Keylock	3	Set to 3 in this sample.
Others	-	Initial value

5. SCREEN SPECIFICATIONS

5.1 Display Language

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

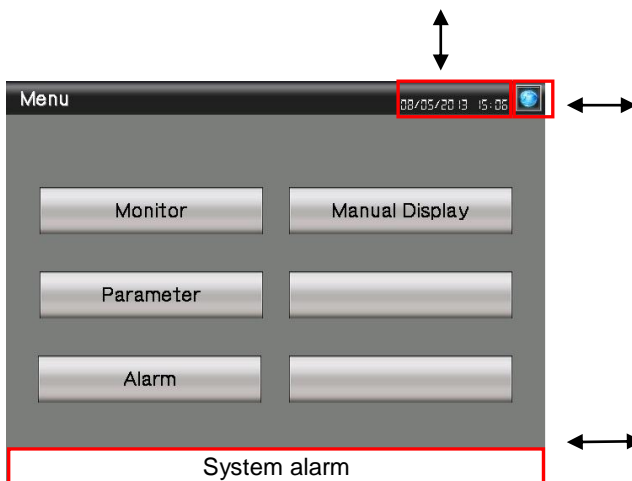
Column No.	Language
1	English
2	Japanese
3	Chinese (Simplified)

5.2 Screen Transition

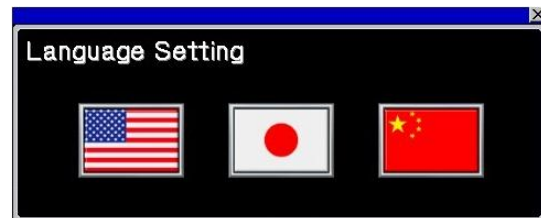
5.2.1 Screen list/transition(common)



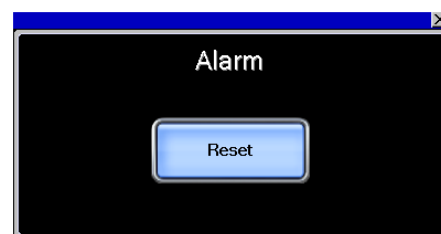
Window screen W-30003:
Clock Setting



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

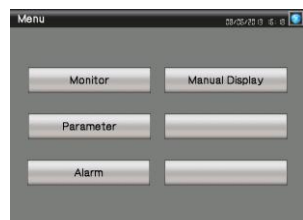


Window screen W-30002:
Language Setting



Window screen W-30001: Alarm Reset

5.2.2 Screen list/transition(individual)



Base screen B-30001: Menu



Base screen B-30002: Monitor

Parameter	Value
Linear Control Point	12:34.5
Control Output at Ready	1.2 - 3. %
PV Rate Ramp	1.2:34.5 °C
PV Fall Ramp	1.2:34.5 °C
Ramp PV Start On/Off	Ramp PV Start Off
SV1 Setting	1.2:34.5 °C
SV2 Setting	1.2:34.5 °C
Proportional Band (P)	1.2 - 3. %
Integral Time (I)	1.2:34.5 Sec
Derivative Time (D)	1.2:34.5 Sec
Output Limiter L	1.2 - 3. %
Output Limiter H	1.2 - 3. %
Variation Limiter	1.2 - 3. %
AutoTune	AutoTune
Run/Ready	Run

Base screen B-30003: Parameter

Occurred	Comment	Rest.	Check
09/25/10 12:34	Alarm 1	0:34 10:24	0:34 10:24
09/25/10 12:34	Alarm 2	0:34 10:24	0:34 10:24
09/25/10 12:34	Alarm 3	0:34 10:24	0:34 10:24
09/25/10 12:34	Alarm 4	0:34 10:24	0:34 10:24
09/25/10 12:34	Alarm 5	0:34 10:24	0:34 10:24
09/25/10 12:34	Alarm 6	0:34 10:24	0:34 10:24
09/25/10 12:34	Alarm 7	0:34 10:24	0:34 10:24
09/25/10 12:34	Alarm 8	0:34 10:24	0:34 10:24
09/25/10 12:34	Alarm 9	0:34 10:24	0:34 10:24
09/25/10 12:34	Alarm 10	0:34 10:24	0:34 10:24

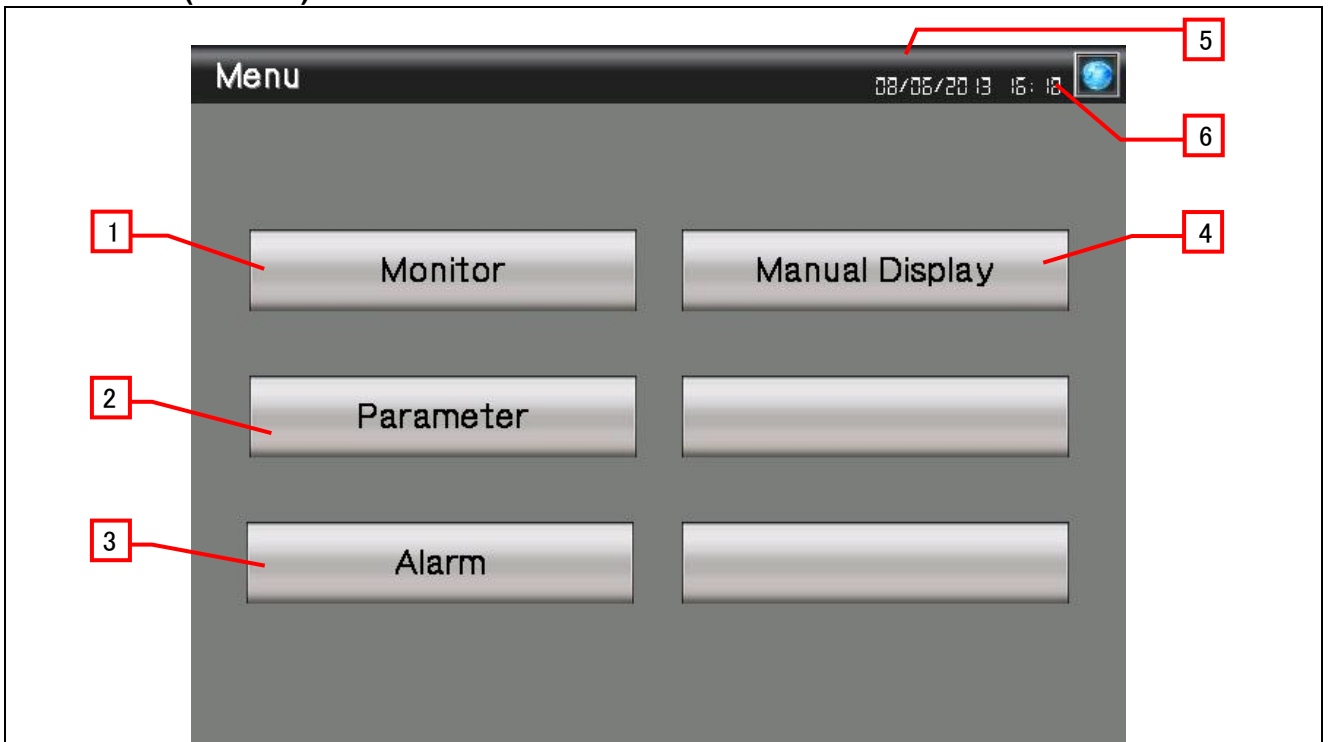
Base screen B-30004: Alarm



Base screen B-30500:
Manual Display

5.3 Explanation of Screens

5.3.1 Menu (B-30001)



Outline

This is the Menu screen.

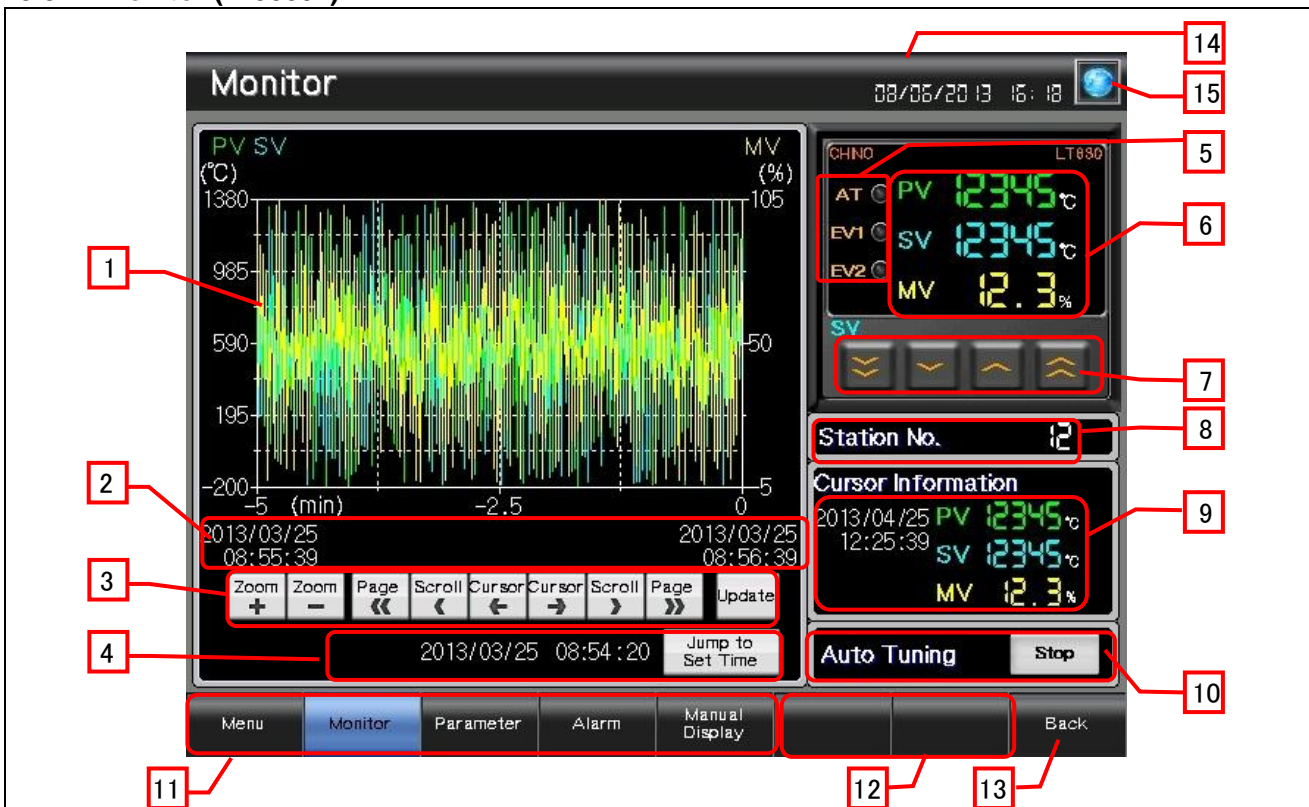
Description

1. Switches to the [Monitor] screen.
2. Switches to the [Parameter] screen.
3. Switches to the [Alarm] screen.
4. Switches to the [Manual Display] screen.
5. Displays the current date and time. Touch the area to open the [Clock Setting] window.
6. Opens the [Language Setting] window.

Remarks

- When the GOT is started, the instrument No. is set to "1" by the project script. For details on scripts, refer to "5.6 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

5.3.2 Monitor (B-30002)



Outline

This screen allows the PV, SV, and MV to be displayed in a graph and numerical values, and the AT, EV1, and EV2 to be displayed in lamps. The set values of SV, station No. and auto tuning can be changed.

Description

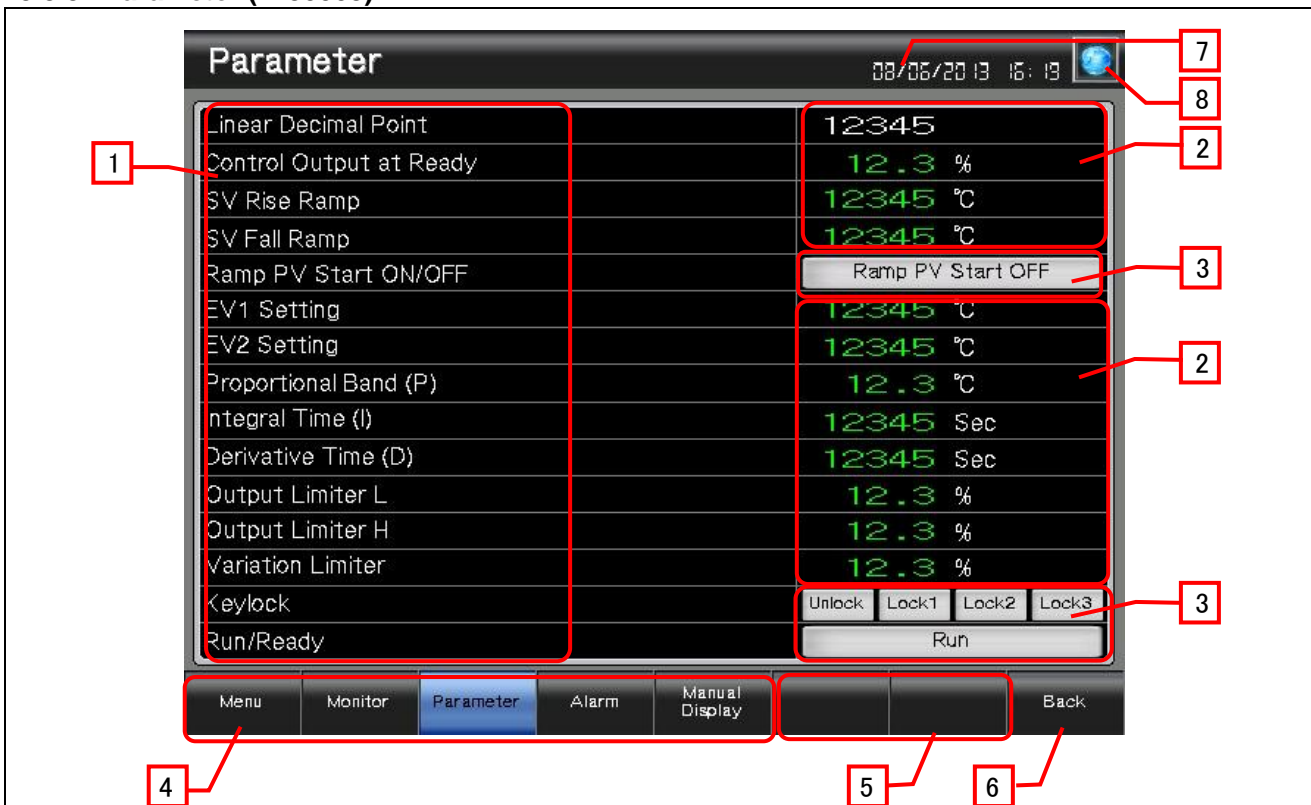
- Displays a historical trend graph of the PV, SV, and MV. In the graph, the PV is shown in green, the SV in light blue, and the MV in yellow. Touch the graph to show the cursor. While touching the graph area, flicking the area will scroll the graph left and right. Pinching out and in will zoom in and out the graph based on the time axis.
- Displays the historical trend graph's beginning position time and end position time.
- These switches operate the historical trend graph.
 Zoom In: Enlarges (2x) the graph's time axis based on the new data axis.
 Zoom Out: Reduces (1/2x) the graph's time axis based on the new data axis.
 Page <<: Scrolls the page to the left.
 Scroll <: Scrolls the graph to the left.
 Cursor <: Displays a cursor, and scrolls the cursor in the direction of the older data.
 Cursor >: Displays a cursor, and scrolls the cursor in the direction of the newer data.
 Scroll >: Scrolls the graph to the right.
 Page >>: Scrolls the page to the right.
 Update: Clears the cursor, and displays the latest data.
- Shows the specified date and time in the center of the graph when the date and time are entered and the [Jump to Set Time] switch is touched. The current date and time are stored when the screen is initially displayed.
- Displays the statuses of Auto tuning, Event 1, and Event 2 with lamps.
- Displays the current PV, SV, and MV.
- Changes the SV in increments of -10, -1, +1, or +10°C from the left.
- Displays the station No. Touch the value to change the station No.
- Shows the date and time, PV, SV, and MV at the cursor position.
- Switches auto tuning start/stop.
- 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.

13. Switches to the previously opened screen.
14. Displays the current date and time. Touch the area to open the [Clock Setting] window.
15. Opens the [Language Setting] window.

Remarks

- To monitor multiple digital indicating controllers, make sure to include the station No. of the digital indicating controller specified in the host address of the controller settings. In this sample, "1" is specified. For more details about station address settings, please refer to the "GOT2000 Series Connection Manual (Non-Mitsubishi Products 1)".
- A screen script is set for the Jump to Set Time of the historical trend graph. For more details about scripts, please refer to "5.6 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.
-

5.3.3 Parameter (B-30003)



Outline

This screen allows the parameters of the digital indicating controller to be set.

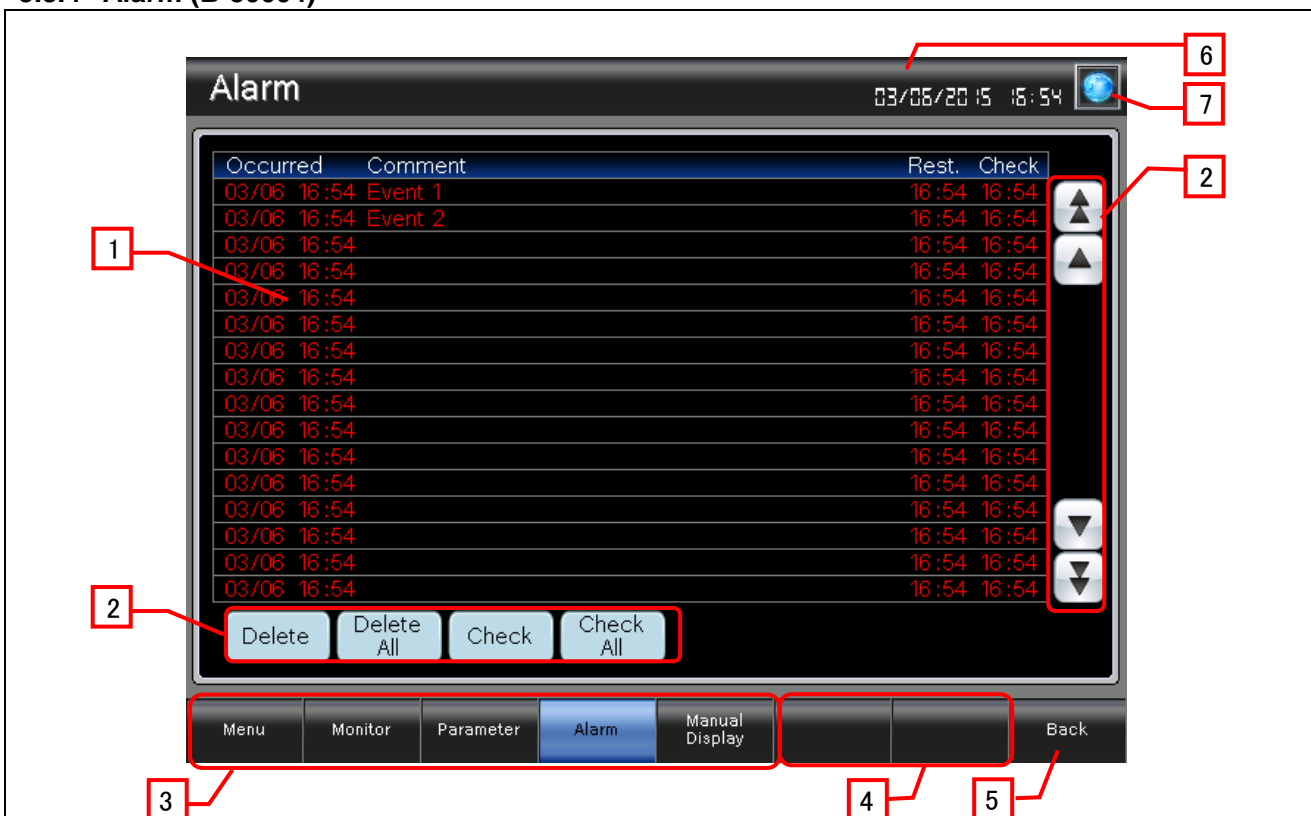
Description

1. Displays parameter data names.
2. Displays parameter values. The set values in green can be changed.
3. Shows parameter operation switches.
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

- 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 Alarm (B-30004)



Outline

This screen displays the alarms of the digital indicating controller.

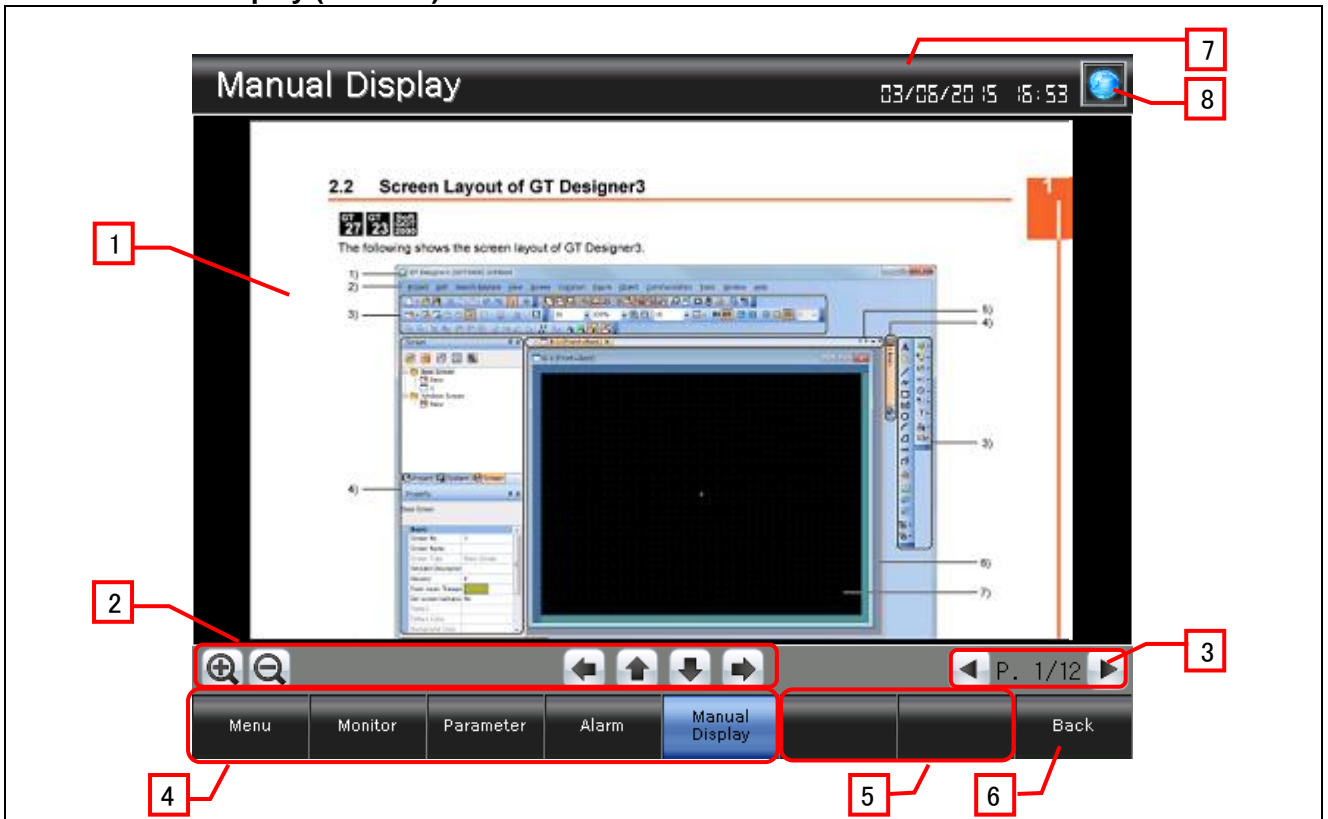
Description

- Shows alarms in a user alarm display. Touch an alarm to display/hide the cursor. While touching the alarm display area, flicking the area will scroll the alarms up and down.
- These switches operate the user alarm display.
 - Delete: Deletes the restored and selected alarm.
 - Delete All: Deletes all the restored alarms.
 - Check: Displays the date and time of the selected alarm for checking.
 - Check All: Displays the date and time of all the alarms for checking.
 - : Scrolls the page up and down.
 - : Scrolls alarms up and down line by line.
- 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 Manual Display (B-30500)



Outline

This screen displays the manual corresponding to 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 and 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.

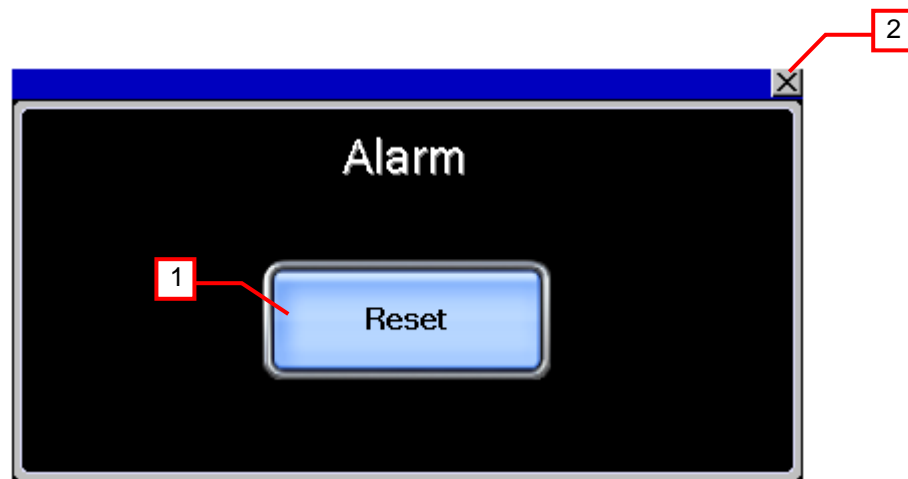
Remarks

- 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.

5.3.6 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

5.3.7 Language Setting (W-30002)



Outline

This window screen allows selecting the GOT language.

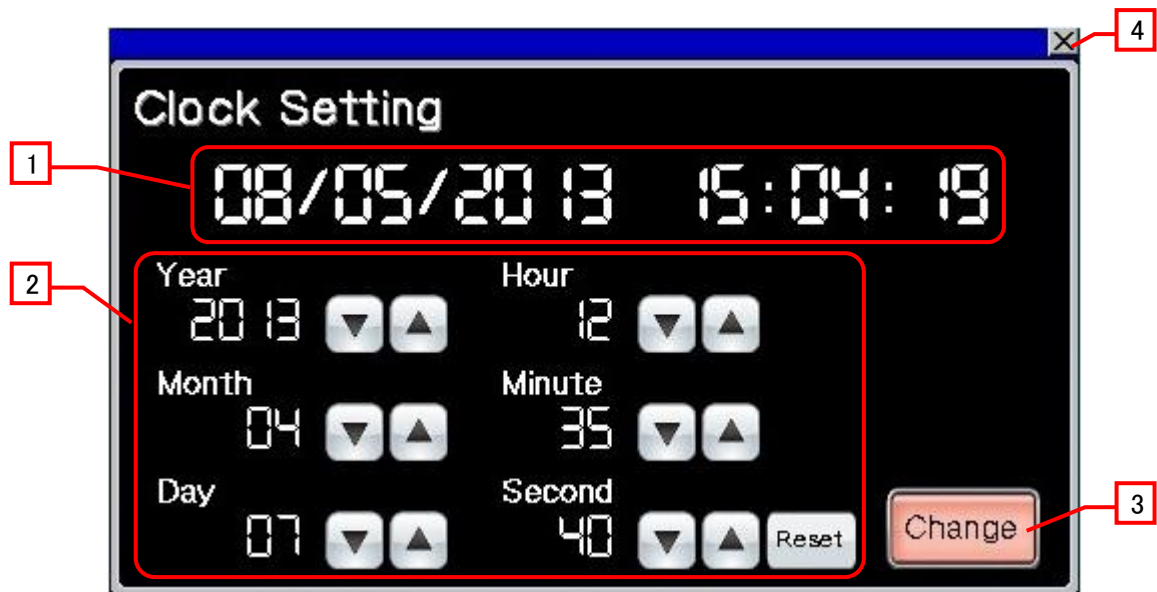
Description

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.

5.3.8 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, and 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 the "GT Designer3 (GOT2000) Help".

5.4.1 Devices of the controller

Type	Device No.	Application	Reference No.
Bit	00101	Auto Tuning	00101
	30142.b0	Event 1 ON/OFF	30142
	30142.b4	Event 2 ON/OFF	30142
	40119.b0	Ramp PV Start ON/OFF	40119
	49510.b0	Run/Ready	49510
Word	30101	Measured Value (PV) (Read-Only)	30101
	30103	Set Value (SV) (Read-Only)	30103
	30105	Control Output Value (MV1) (Read-Only)	30105
	40008	Linear Decimal Point	40008
	40114	Control Output at Ready	40114
	40116	SV Rise Ramp	40116
	40117	SV Fall Ramp	40117
	40201	Set Value (SV)	40201
	40202	Event 1	40202
	40203	Event 2	40203
	40206	Proportional Band (P)	40206
	40207	Integral Time (I)	40207
	40208	Derivative Time (D)	40208
	40209	Output Limiter L	40209
	40210	Output Limiter H	40210
	40211	Variation Limiter	40211
	49501	Keylock	49501

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	GD10	Station No. Setting
	GD60000	Base Screen Switching
	GD60001	Overlap Window 1 Screen Switching
	GD60004	Overlap Window 2 Screen Switching
	GD60021	Language Switching
	GD60022	System Language Switching
	GD60031, GD60041	System Information
	GD60080 to GD60082	Document Display
	GD61201 to GD61203	Graph Information in Historical Trend Graph
	GD61221 to GD61224	Cursor Position Time in Historical Trend Graph
	GD61225 to GD61228	Beginning Position Time in Historical Trend Graph
Type	Device No.	Application
Word	GD61229 to GD61232	End Position Time in Historical Trend Graph
	GD61233 to GD61235	Display Position Time Specification in Historical Trend Graph
	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
499	No. 1 to No. 2	B-30004 (User Alarm Observation ID 30001)
500	No. 1 to No. 4	B-30001 to B-30500
	No. 4	W-30001
	No. 5, No. 6	B-30002 to B-30500
	No. 7	B-30001, B-30500
	No. 21 to No. 47	B-30002
	No. 61 to No. 82	B-30003
	No. 111 to No. 117	B-30004
	No. 131 to No. 135	B-30002
	No. 134 to No. 136	B-30003
	No. 151	W-30001, W-30003
	No. 152	W-30002
	No. 153 to No. 160	W-30003

5.6 Script List

Item	Setting
Project script	Specified
Screen script	B-30002、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:GD10]=1; //Set 1 to Station No. [w:GD60080]=201; //Set Document ID to 201 [w:GD60081]=1; //Set Document page No. to 1			

5.6.2 Screen script

Base screen 30002

Script No.	30101	Script name	Script30101
Comment	Obtain Present Time		
Data type	Signed BIN16	Trigger type	Rise, GB40
<pre>//Store Year, Month, Day, Hour, Minute, Second When Screen Is Displayed [w:GD61233]=[w:GS650]; [w:GD61234]=[w:GS651]; [w:GD61235]=[w:GS652];</pre>			

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	20031
Script user ID	1		
Data type	Unsigned BIN16	Trigger type	Device Writing
<pre>//Prevents exceeding the total number of the document pages. if([u16:GD60081] >= [u16:GD60082]){ [u16:GD60081] = [u16:GD60082] - 1; }</pre>			

Window screen 30003

Object	Numerical display	Object ID *1	10014
Script user ID	1		
Data type	Unsigned BIN16	Trigger type	Rise, GB40
<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</pre>			

[w:TMP964] = [w:TMP955] >> 8; //BCD->BIN
[w:TMP975] = [w:TMP970] + [w:TMP964]; //Set Day to TMP975 as BIN
[w:GD63992] = [w:TMP975]; //Set Day

[w:TMP956] = [w:GS651] & 0x00F0; //Obtain Tenths Digit of Hour from Clock Data for Setting
[w:TMP965] = [w:TMP956] >> 4; //Decimal Alignment
[w:TMP971] = [w:TMP965] * 10; //BCD->BIN
[w:TMP957] = [w:GS651] & 0x000F; //Obtain Ones Digit of Hour from Clock Data for Setting
[w:TMP976] = [w:TMP971] + [w:TMP957]; //Set Hour to TMP976 as BIN
[w:GD63993] = [w:TMP976]; //Set Hour

[w:TMP958] = [w:GS652] & 0xF000; //Obtain Tenths Digit of "Last 2-Digits of Minute" from Clock Data for Setting
[w:TMP966] = [w:TMP958] >> 12; //Decimal Alignment
[w:TMP972] = [w:TMP966] * 10; //BCD->BIN
[w:TMP959] = [w:GS652] & 0x0F00; //Obtain Ones Digit of "Last 2-Digits of Minute" from Clock Data for Setting
[w:TMP967] = [w:TMP959] >> 8; //BCD->BIN
[w:TMP977] = [w:TMP972] + [w:TMP967]; //Set Minute to TMP977 as BIN
[w:GD63994] = [w:TMP977]; //Set Minute

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

Object	Numerical display	Object ID *1	10015
Script user ID	2		
Data type	Unsigned BIN16	Trigger type	Ordinary

//BIN -> BCD Conversion

[w:TMP979] = [w:GD63990] - 2000; //Last 2-Digits of Year

[w:TMP980] = (([w:TMP979] / 10) << 4) + ([w:TMP979] % 10); //Year BIN -> BCD
[w:TMP981] = (([w:GD63991] / 10) << 4) + ([w:GD63991] % 10); //Month BIN -> BCD
[w:TMP982] = (([w:GD63992] / 10) << 4) + ([w:GD63992] % 10); //Day BIN -> BCD
[w:TMP983] = (([w:GD63993] / 10) << 4) + ([w:GD63993] % 10); //Hour BIN -> BCD
[w:TMP984] = (([w:GD63994] / 10) << 4) + ([w:GD63994] % 10); //Minute BIN -> BCD
[w:TMP985] = (([w:GD63995] / 10) << 4) + ([w:GD63995] % 10); //Second BIN -> BCD

Object	Numerical display	Object ID *1	10016
Script user ID	3		
Data type	Unsigned BIN16	Trigger type	Ordinary

//Year & Month Setting

[w:GS513] = ([w:TMP980] << 8) + [w:TMP981]; //Set Year & Month to Change Time Device

Object	Numerical display	Object ID *1	10017
Script user ID	4		
Data type	Unsigned BIN16	Trigger type	Ordinary

//Date & Time Setting

[w:GS514] = ([w:TMP982] << 8) + [w:TMP983]; //Set Date & Time to Change Time Device

Object	Numerical display	Object ID *1	10018
Script user ID	5		
Data type	Unsigned BIN16	Trigger type	Ordinary

//Minute & Second Setting

[w:GS515] = ([w:TMP984] << 8) + [w:TMP985]; //Set Minute & Second to Change Time Device

Object	Numerical display	Object ID *1	10019
Script user ID	6		
Data type	Unsigned BIN16	Trigger type	Ordinary
//Day of Week Setting [w:TMP986] = [w:GD63990]; //Year (BIN) [w:TMP987] = [w:GD63991]; //Month (BIN) [w:TMP988] = [w:GD63992]; //Day (BIN) if(([w:TMP987] == 1) ([w:TMP987] == 2)){ //Correction Processing to Calculate January and February as 13th/14th Month [w:TMP986] = [w:TMP986] - 1; //Subtract 1 from Year [w:TMP987] = [w:TMP987] + 12; //Add 12 to Month } [w:TMP989] = [w:TMP986]/4; //Create Items Required for Zeller's Congruence [w:TMP990] = [w:TMP986]/100; //Create Items Required for Zeller's Congruence [w:TMP991] = [w:TMP986]/400; //Create Items Required for Zeller's Congruence [w:TMP992] = (13*[w:TMP987]+8)/5; //Create Items Required for Zeller's Congruence //Calculate Day of Week Using Zeller's Congruence and Set the Day to Change Time Device [w:GS516] = ([w:TMP986]+[w:TMP989]-[w:TMP990]+[w:TMP991]+[w:TMP992]+[w:TMP988])%7;			

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

6. MANUAL DISPLAY

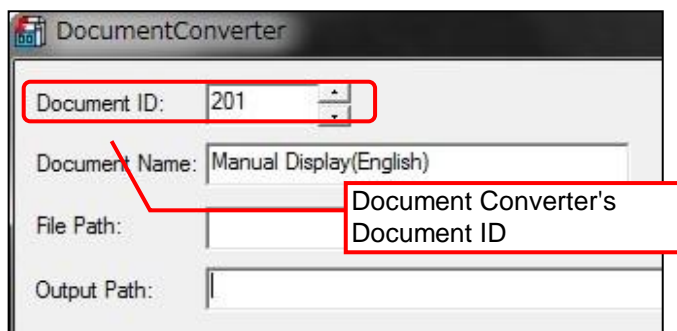
Manuals can be displayed using the document display function. For more details about the document display function, please refer to the "GT Designer3 (GOT2000) Help". Please note that the document display function does not support language switching. Therefore, in the sample screens, the language of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

6.1 Preparing Document Data for Manual Display

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

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

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

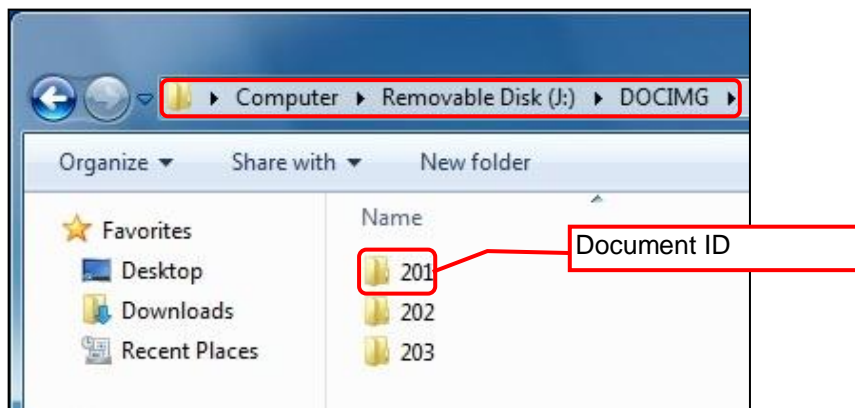


Column No. of the comment group No	Language	Document ID
1	English	201
2	Japanese	202
3	Chinese (Simplified)	203

*Please use Document Converter 2.09k or later.

The total number pages and pages switches cannot work properly with 2.08 or older versions.

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



SD card folder configuration

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

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