

CC-Link Network Monitor Function

Sample Screen Manual

Mitsubishi Electric Corporation

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CONTENTS

REVISIONS	4
1. OUTLINE	5
2. SYSTEM CONFIGURATION	5
3. GOT	5
3.1 System Applications That Are Automatically Selected	5
3.2 Controller Setting of Screen Design Software	5
3.3 Overlap Window Setting of Screen Design Software	5
4. CC-LINK MODULE (Q SERIES)	6
4.1 PLC Engineering Software Network Parameter Setting	6
4.2 Network Parameter Station Information Settings	6
5. SCREEN SPECIFICATIONS	7
5.1 Display Language	7
5.2 Screen List/ Transition	7
5.3 Explanation of Screens	9
5.3.1 Menu (B-30001)	9
5.3.2 CC-Link Diagnostics (B-30002)	10
5.3.3 Station Status Monitor1 (B-30003), Station Status Monitor2 (B-30004)	12
5.3.4 Network Status Display (Utility Function "Monitor")	13
5.3.5 Manual Display (B-30500)	15
5.3.6 Alarm Reset (W-30001)	17
5.3.7 Language Setting (W-30002)	18
5.3.8 Clock Setting (W-30003)	19
5.4 Device List	20
5.5 Comment List	21
5.6 Script List	21
6. MANUAL DISPLAY	24
6.1 Preparing Document Data for Manual Display	24
7. OTHERS	25
7.1 System Configuration	25
7.2 Network Parameter Settings	25
7.3 Precautions	25

REVISIONS

Sample Screen Manual

Date	Control No.*	Description
2013/10	BCN-P5999-0111	First edition
2015/6	BCN-P5999-0111-2	Device Specification for Document ID

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

Project data

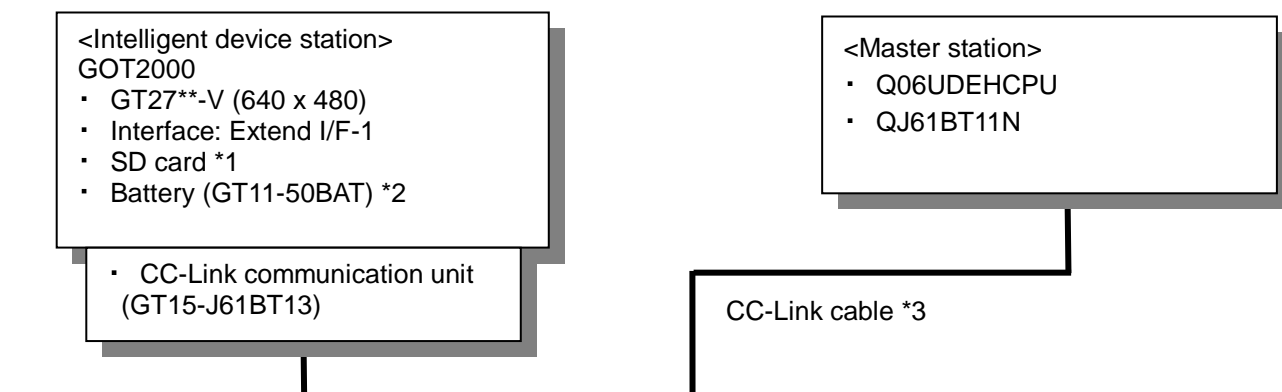
Date	Project data	GT Designer3*	Description
2013/10	CC-Link_V_Ver1_E.GTX	1.100E	First edition
2015/6	CC-Link_V_Ver2_E.GTX	1.128J	Device Specification for Document ID

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

1. OUTLINE

This manual explains the sample screens for displaying the CC-Link network status (e.g., host station, other stations, and errors) on GOT2000.

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)".

* The CC-Link network monitor function sample screens can also be used when the GOT is connected to the master station or local station PLCs via serial connection or bus connection. For more details, please refer to "7. OTHERS".

3. GOT

3.1 System Applications That Are Automatically Selected

Type	System application name		
Standard Function	Standard System Application		
	Standard Font		Japanese
Communication Driver	CC-Link Ver. 2 (ID)		
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
Station No.	1	
Transmission Rate	4: Online: 10 Mbps	
Mode	Ver. 2	
Expanded Cyclic	Single	
Occupied Station	1 station occupied	
Input for Error Station	Clear	
Retry (Times)	3	
Timeout Time (Sec)	3	
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 the [Screen Switching/Window] setting is enabled to close the window when switching base screens.

4. CC-LINK MODULE (Q SERIES)

4.1 PLC Engineering Software Network Parameter Setting

Item	Set value	Remarks
No. of boards in module	1	
Start I/O No.	0000H	
Operation setting	Use default value	
Type	Master station	
Mode	Remote net Ver. 2 mode	
All connect count	1	
Retry count	Use default value	
Automatic reconnection station unit		
Stand by master station No.		
PLC down select		
Scan mode setting		
Delay information setting		
Station information setting	Refer to 4.2	
Remote device station initial settings	Use default value	
Interrupt setting		

4.2 Network Parameter Station Information Settings

Item	Set value	Remarks
Station type	Ver. 2 intelligent device station	
Expanded cyclic setting	Single	Same setting as GOT
Exclusive station count	Exclusive station 1	Same setting as GOT
Remote station points	32 points	
Reserve/invalid station select	No setting	
Intelligent buffer select (word)	Use default 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 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.

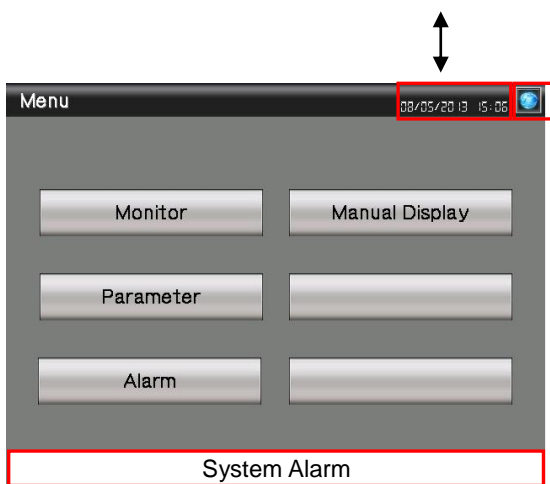
Column No.	Language
1	English
2	Japanese
3	Chinese (Simplified)

5.2 Screen List/ Transition

5.2.1 Screen list/transition (common)



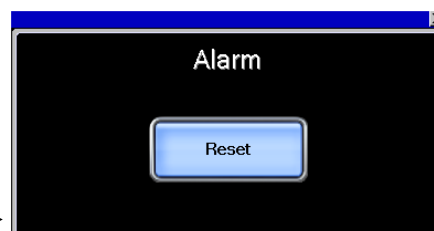
Window screen W-30003:
Clock Setting



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

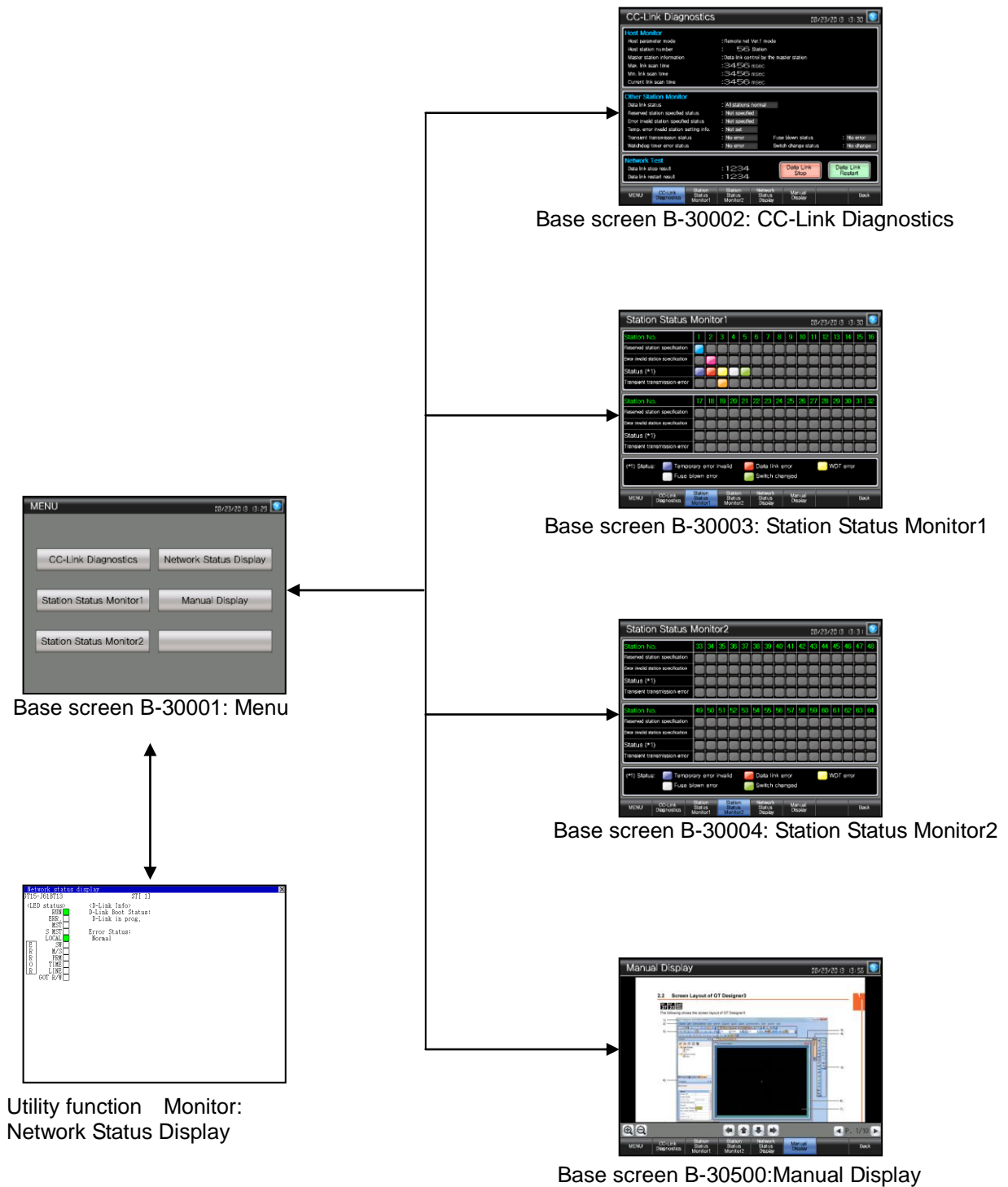


Window screen W-30002:
Language Setting



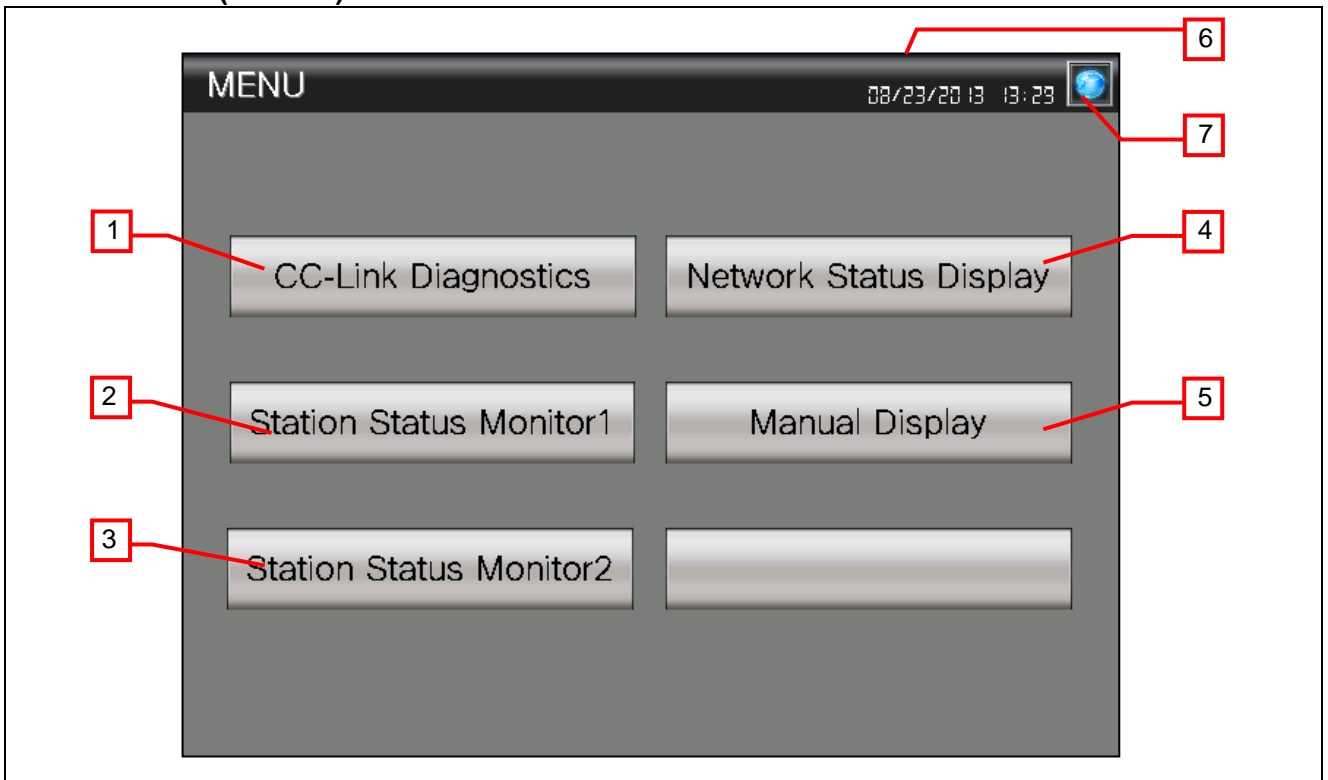
Window screen W-30001: Alarm Reset

5.2.2 Screen list/transition (individual)



5.3 Explanation of Screens

5.3.1 Menu (B-30001)



Outline

This is the Menu screen.

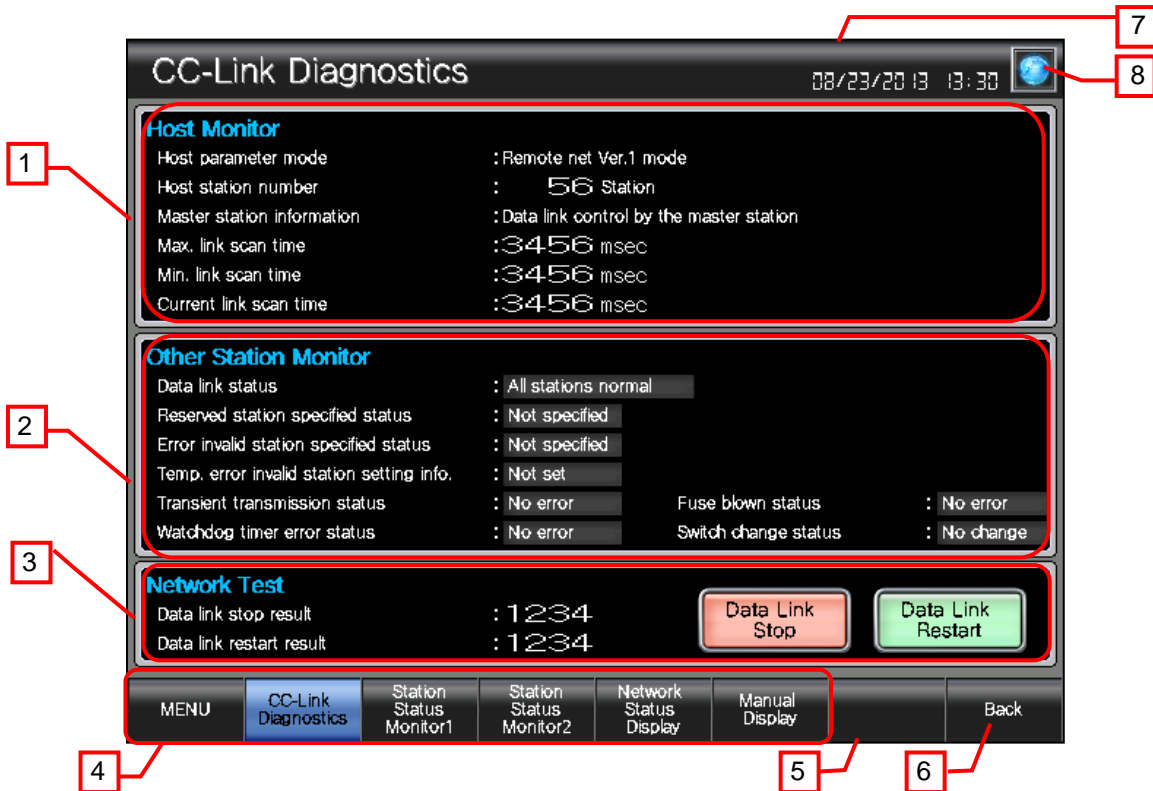
Description

1. Switches to the [CC-Link Diagnostics] screen.
2. Switches to the [Station Status Monitor1] screen.
3. Switches to the [Station Status Monitor2] screen.
4. Switches to the [Network Status Display] 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 CC-Link Diagnostics (B-30002)



Outline

This screen allows checking the CC-Link network status (host station and other stations).

Description

1. Allows the network status of the host station to be checked.

Host parameter mode	: Displays the parameter mode.
Host station number	: Displays the station No.
Master station information	: Displays which of the master stations and standby master stations is used for data link control.
Max. link scan time	: Displays the maximum value of link scan time.
Min. link scan time	: Displays the minimum value of link scan time.
Current link scan time	: Displays the current value of link scan time.
2. Allows the network status of other stations to be checked.

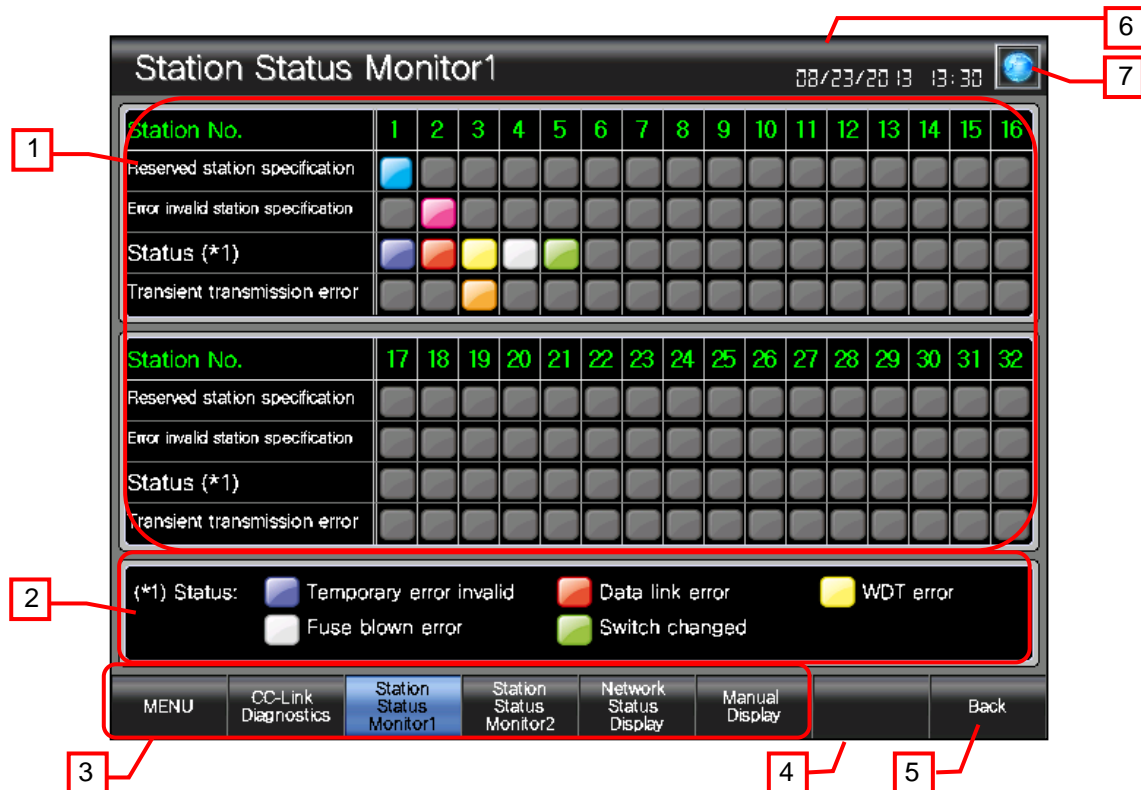
Data link status	: OFF = All stations normal; ON = A faulty station exists
Reserved station specified status	: OFF = Not specified; ON = Specified
Error invalid station specified status	: OFF = Not specified; ON = Specified
Temp. error invalid station setting info.	: OFF = Not set; ON = Set
Transient transmission status	: OFF = No error; ON = Error
Watchdog timer error status	: OFF = No error; ON = Error
Fuse blown status	: OFF = No error; ON = Error
Switch change status	: OFF = No change; ON = Changed
3. Allows the network test for the host station to be executed and the test results to be checked.

Data link stop result	: Displays the execution result of the data link stop command. 0 = Normal; Other than 0 = An error code is stored
Data link restart result	: Displays the execution result of the data link restart command. 0 = Normal; Other than 0 = An error code is stored
Data Link Stop	: Stops the data link of the host.
Data Link Restart	: Restarts the data link of the host.
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 device shown by the host station differs depending on the connection method.
GOT is connected via CC-Link connection: GOT
GOT is connected to the master station or local station via serial connection or bus connection:
Connected master station or local station
- For the data link stop result and data link restart result error codes described in 3, please refer to the "MELSEC-Q CC-Link System Master/Local Module User's Manual".
- 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 Station Status Monitor1 (B-30003), Station Status Monitor2 (B-30004)



Outline

This screen allows the detailed status of each station to be checked. (Stations 1 to 32: Base screen B-30003 Station Status Monitor1; Stations 33 to 64: Base screen B-30004 Station Status Monitor2)

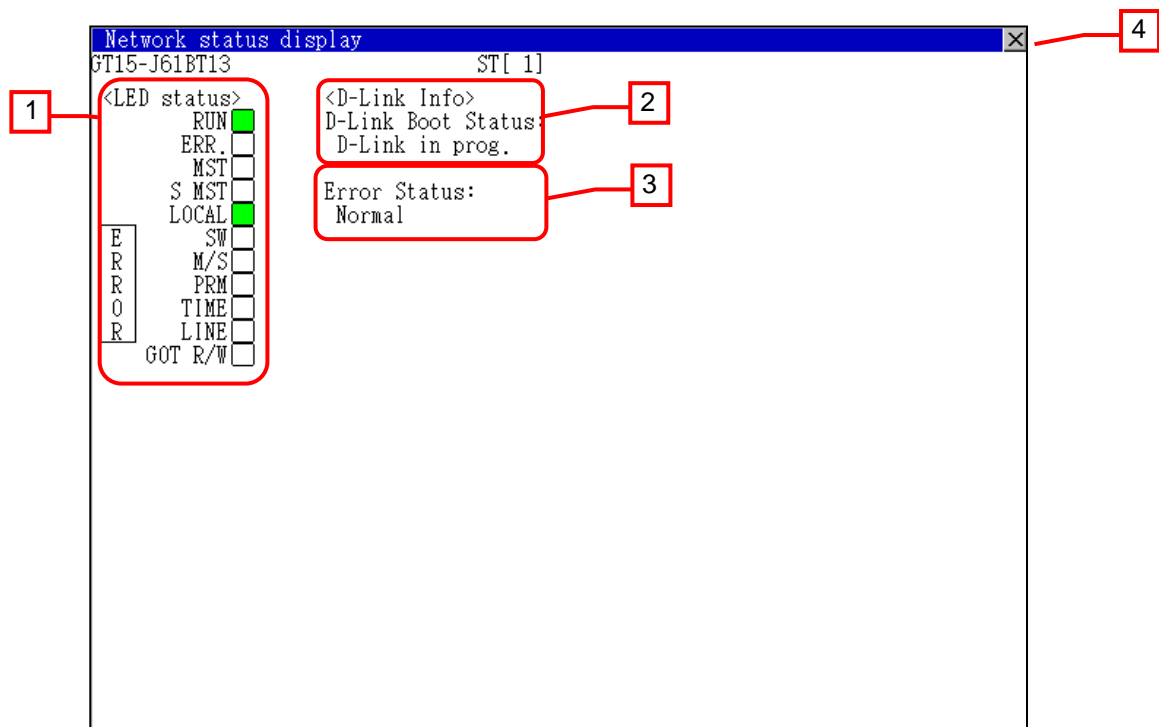
Description

1. Displays the following setting statuses.
 - Reserved station specification : OFF = Other than the reserved station; ON = Reserved station
 - Error invalid station specification : OFF = Other than the error invalid station; ON = Error invalid station
 - Status : Refer to 2.
 - Transient transmission error : OFF = No error; ON = Error
2. Displays the statuses in the following order of priority.
 1. Temporary error invalid : OFF = Normal state; ON = Temporary error invalid state
 2. Data link error : OFF = Normal; ON = Data link error
 3. WDT error : OFF = No watchdog timer error; ON = Watchdog timer error
 4. Fuse blown error : OFF = Normal; ON = Error
 5. Switch changed : OFF = No switch change on other stations during data link; ON = Switch changed on other stations during data link
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.

5.3.4 Network Status Display (Utility Function "Monitor")



Outline

This window allows the LED status and error information of the equipped CC-Link communication module (GT15-J61BT13) to be checked.

Description

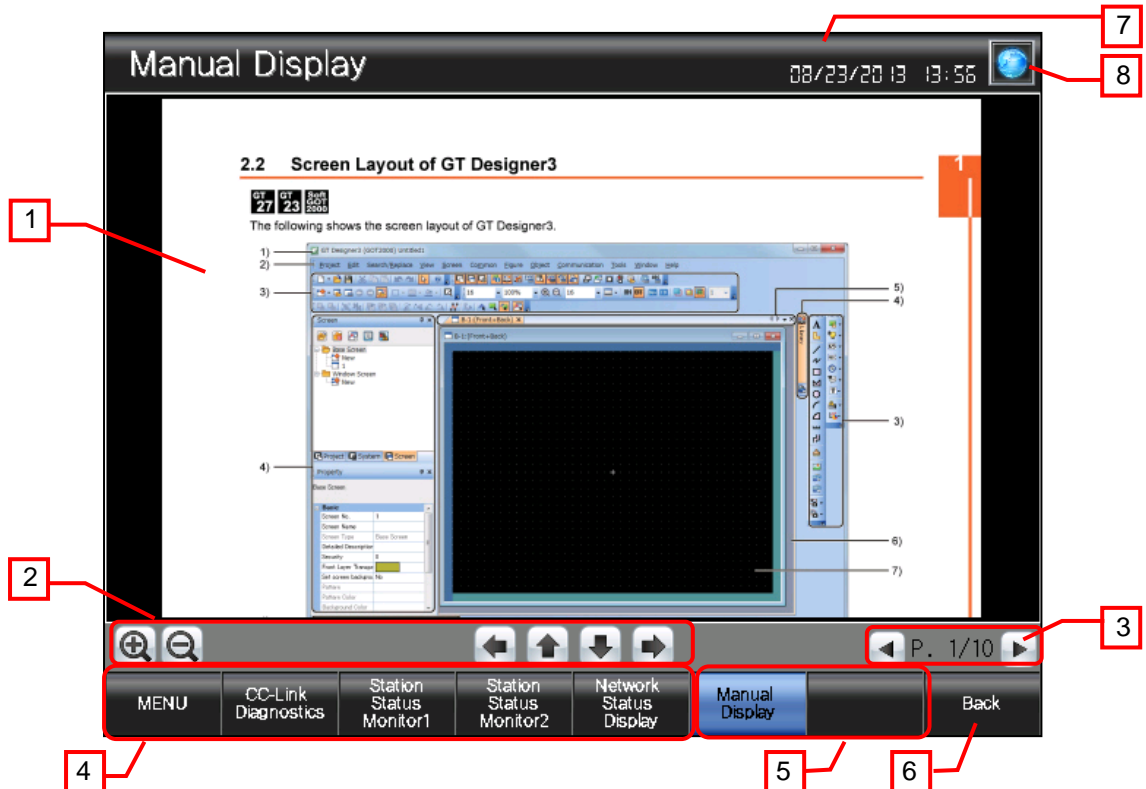
1. Displays an LED status of the CC-Link communication module (GT15-J61BT13).

RUN	: Not lit = WDT error occurred or unit being reset; Lit in green = Running normally
ERR	: Not lit = No communication error occurred or unit being reset; Lit in red = All station communication error
	Blink = There is a communication error station or duplicated station numbers
MST	: Not lit = Operating other than as master station; Lit in green = Operating as master station
S MST	: Not lit = Operating other than as standby master station; Lit in green = Operating as standby master station
LOCAL	: Not lit = Operating other than as local station; Lit in green = Operating as local station
SW	: Not lit = No switch setting error; Lit in red = Switch setting error
M/S	: Not lit = No duplicate master station error; Lit in red = Duplicate master station error
PRM	: Not lit = No parameter error; Lit in red = Parameter error
TIME	: Not lit = Responses from all stations;
	Lit in red = No responses from all stations due to cable breakage or transmission path affected by noise
LINE	: Not lit = No cable breakage error; Lit in red = Cable breakage error
GOT R/W	: Not lit = Not accessed from GOT; Lit in green = Accessed from GOT
2. Displays the data link startup status.

D-Link in prog.	: Data link being executed
D-Link Offline	: Data link being stopped
Initialize	: Set to the initial status
Parameter wait	: Parameter not received
Disconnect (No Polling)	: In cut-off status with no inquiry from master station
Disconnect (Line Err)	: In cut-off status due to line error
Disconnect (Other)	: In cut-off status due to other causes
Testing Line	: Line test being executed
Testing Param Setup	: Parameter setting test being executed from master station
Auto Reconnecting	: Return processing being executed automatically
Reset. in prgr.	: CC-Link communication unit being reset (GOT reset status)
3. Displays the status of the current error.

Normal	: Normal status
Invalid TransPath	: Transmission path error detected
Invalid Parameter	: Parameter error detected
CRC Error	: Reception data error detected
Time Out Error	: Timeout error detected in data reception
Abort Error	: Error detected in data communication
Invalid Setup	: Invalid station number, station type, transmission speed, or mode setting detected
Other Abnormality	: Error due to some other cause detected
4. Closes the screen.	
Remarks	
<ul style="list-style-type: none"> ▪ For more details about how to troubleshoot errors that occur in the CC-Link, please refer to the "MELSEC-Q CC-Link System Master/Local Module User's Manual". ▪ When the GOT is connected to the master station or local station via serial connection or bus connection, the network status display cannot be used. 	

5.3.5 Manual Display (B-30500)



Outline

This screen displays the manual of the currently displayed language.

Description

1. Manual Display displays a document with document ID (201 to 203) according to the language. The page 1 is displayed when the screen is displayed initially. While touching the document, flicking to 8 directions will scroll the document to 8 directions. While displaying the edge of the document, flicking the document will switch pages. Pinching out and in will zoom in and out the document in 3 steps (large, middle, and small).
2. These switches operate the displayed document.
 - : Enlarges or reduces the displayed document.
 - : Enlarges or reduces the displayed document.
 - : Scrolls the displayed document to the left or right.
 - : Scrolls the displayed document to the left or right.
 - : Scrolls the displayed document up and down.
 - : 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.
 - : 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.

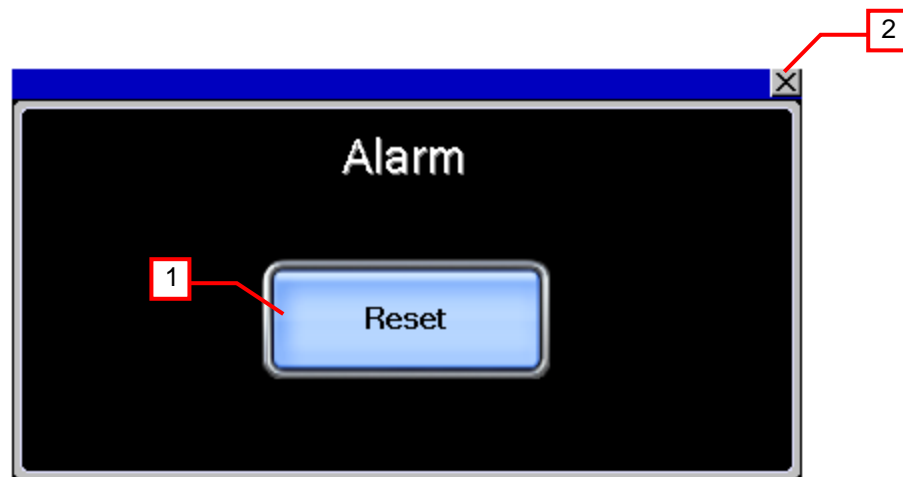
Remarks

- 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.

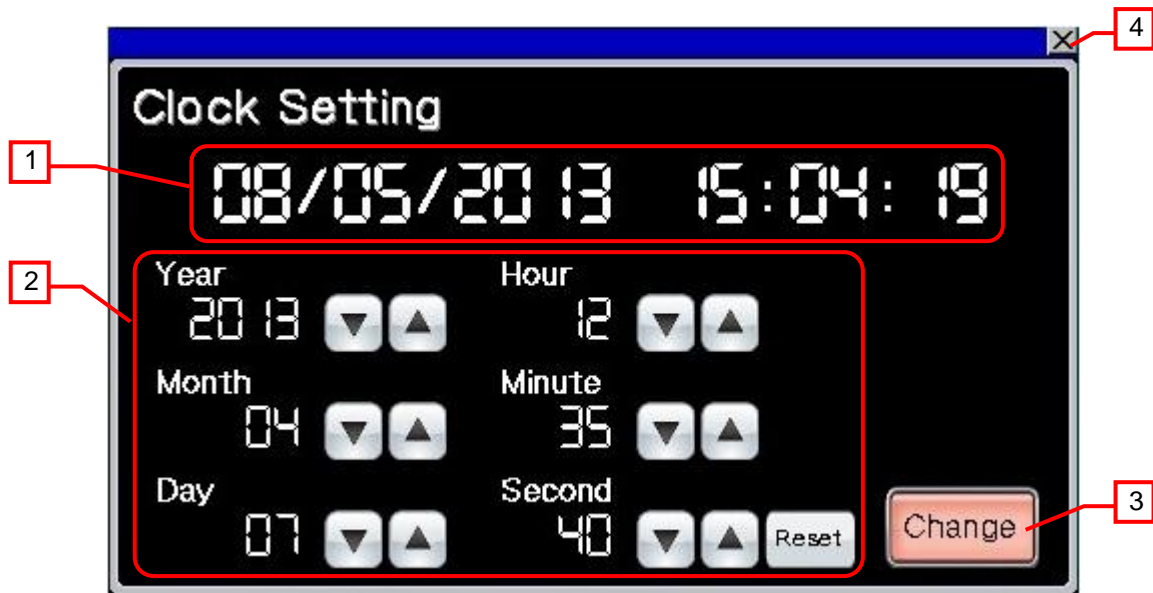
Description

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, 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 the "GT Designer3 (GOT2000) Help".

5.4.1 Devices of the controller

Type	Device No.	Application
Bit	SB0000	Data Link Restart
	SB0002	Data Link Stop
	SB0070	Master Station Info_Contents
	SB0074	Reserved Sta. Status_Contents
	SB0075	Err Inv. Sta. Status_Contents
	SB0076	Temp. Err Inv. Sta. Status_Contents
	SB0080	Data Link Status_Contents
	SB0081	WDT Error Status_Contents
	SB0082	Fuse Blown Status_Contents
	SB0083	Switch Setting Status_Contents
	SB0094	Transient Tx Status_Contents
	SW0074.b0 to SW0077.b15	Reserved Station_01 to 64
	SW0078.b0 to SW007B.b15	Error Invalid_01 to 64
	SW007C.b0 to SW007F.b15	Status_01 to 64 (Temporary Error Invalid)
	SW0080.b0 to SW0083.b15	Status_01 to 64 (Data Link Status)
	SW0084.b0 to SW0087.b15	Status_01 to 64 (WDT Error Status)
	SW0088.b0 to SW008B.b15	Status_01 to 64 (Fuse Blown Status)
	SW008C.b0 to SW008F.b15	Status_01 to 64 (Switch Change Status)
	SW0094.b0 to SW0097.b15	Transient Error_01 to 64
Word	SW0041	Data Link Restart Result_Value
	SW0045	Data Link Stop Result_Value
	SW0061	Host Station No._Value
	SW006D	Max. Link Scan Time_Value
	SW006E	Current Link Scan Time_Value
	SW006F	Min. Link Scan Time_Value
	SW0149	Host Parameter Mode_Contents

5.4.2 GOT internal devices

Type	Device No.	Application
Bit	GB40	Script Trigger (Always ON)
		Legend of B-30003 and 30004
	GD60031.b13	GOT Error Reset Signal
	GS512.b0	Time Change Signal
Word	GD60000	Base Screen Switching
	GD60001	Overlap Window 1 Screen Switching
	GD60021	Language Switching
	GD60022	System Language Switching
	GD60031, GD60041	System Information
	GD60080 to GD60082	Document Display
	GD61000	Word Lamp of B-30003 and 30004
	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	B-30001 to B-30500
	No. 2	B-30001, B-30002
	No. 3 to No. 5	B-30001
	No. 6	B-30001, B-30500
	No. 7 to No. 12	B-30002 to B-30500
	No. 21 to No. 55	B-30002
	No. 61 to No. 72	B-30003, B-30004
	No. 81, No. 82	W-30001
	No. 83	W-30002
	No. 84 to No. 91	W-30003

5.6 Script List

Item	Setting
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	20020
Script user ID	1		
Data type	Unsigned BIN16	Trigger type	Device Writing
//Do not exceed the total number of the document pages. if([u16:GD60081] >= [u16:GD60082]){ [u16:GD60081] = [u16:GD60082] - 1; }			

Window screen 30003

Object	Numerical Display	Object ID *1	20018
Script user ID	1		
Data type	Unsigned BIN16	Trigger type	Rise, GB40
//Obtain Today's Year & Month from Clock Data [w:TMP950] = [w:GS650] & 0xF000; //Obtain Tenths Digit of "Last 2-Digits of Year" from Clock Data for Setting [w:TMP960] = [w:TMP950] >> 12; //Decimal Alignment [w:TMP968] = [w:TMP960] * 10; //BCD->BIN [w:TMP951] = [w:GS650] & 0x0F00; //Obtain Ones Digit of "Last 2-Digits of Year" from Clock Data for Setting [w:TMP961] = [w:TMP951] >> 8; //BCD->BIN [w:TMP973] = 2000 + [w:TMP968] + [w:TMP961]; //Set Year to TMP973 as BIN [w:GD63990] = [w:TMP973]; //Set Year [w:TMP952] = [w:GS650] & 0x00F0; //Obtain Tenths Digit of Month from Clock Data for Setting [w:TMP962] = [w:TMP952] >> 4; //Decimal Alignment [w:TMP969] = [w:TMP962] * 10; //BCD->BIN [w:TMP953] = [w:GS650] & 0x000F; //Obtain Ones Digit of Month from Clock Data for Setting [w:TMP974] = [w:TMP969] + [w:TMP953]; //Set Month to TMP974 as BIN [w:GD63991] = [w:TMP974]; //Set Month [w:TMP954] = [w:GS651] & 0xF000; //Obtain Tenths Digit of "Last 2-Digits of Day" from Clock Data for Setting [w:TMP963] = [w:TMP954] >> 12; //Decimal Alignment [w:TMP970] = [w:TMP963] * 10; //BCD->BIN [w:TMP955] = [w:GS651] & 0x0F00; //Obtain Ones Digit of "Last 2-Digits of Day" from Clock Data for Setting [w:TMP964] = [w:TMP955] >> 8; //BCD->BIN [w:TMP975] = [w:TMP970] + [w:TMP964]; //Set Day to TMP975 as BIN [w:GD63992] = [w:TMP975]; //Set Day [w:TMP956] = [w:GS651] & 0x00F0; //Obtain Tenths Digit of Hour from Clock Data for Setting [w:TMP965] = [w:TMP956] >> 4; //Decimal Alignment [w:TMP971] = [w:TMP965] * 10; //BCD->BIN [w:TMP957] = [w:GS651] & 0x000F; //Obtain Ones Digit of Hour from Clock Data for Setting [w:TMP976] = [w:TMP971] + [w:TMP957]; //Set Hour to TMP976 as BIN [w:GD63993] = [w:TMP976]; //Set Hour [w:TMP958] = [w:GS652] & 0xF000; //Obtain Tenths Digit of "Last 2-Digits of Minute" from Clock Data for Setting [w:TMP966] = [w:TMP958] >> 12; //Decimal Alignment [w:TMP972] = [w:TMP966] * 10; //BCD->BIN [w:TMP959] = [w:GS652] & 0x0F00; //Obtain Ones Digit of "Last 2-Digits of Minute" from Clock Data for Setting [w:TMP967] = [w:TMP959] >> 8; //BCD->BIN [w:TMP977] = [w:TMP972] + [w:TMP967]; //Set Minute to TMP977 as BIN [w:GD63994] = [w:TMP977]; //Set Minute [w:TMP993] = [w:GS652] & 0x00F0; //Obtain Tenths Digit of Second from Clock Data for Setting [w:TMP995] = [w:TMP993] >> 4; //Decimal Alignment [w:TMP996] = [w:TMP995] * 10; //BCD->BIN [w:TMP994] = [w:GS652] & 0x000F; //Obtain Ones Digit of Second from Clock Data for Setting [w:TMP978] = [w:TMP996] + [w:TMP994]; //Set Second to TMP978 as BIN [w:GD63995] = [w:TMP978]; //Set Second			

Object	Numerical Display	Object ID *1	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

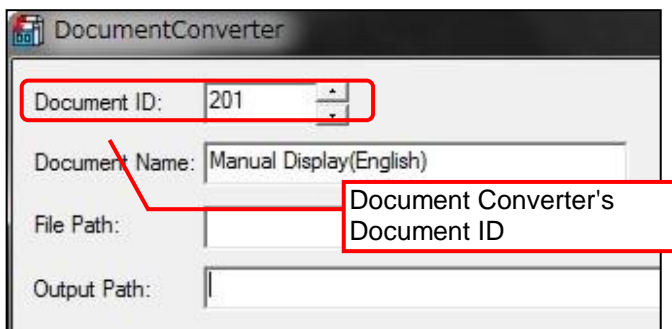
Manuals can be displayed using the document display function. For more details about the document display function, please refer to the "GT Designer3 (GOT2000) Help". Please note that the document display function does not support language switching. Therefore, in the sample screens, the language of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

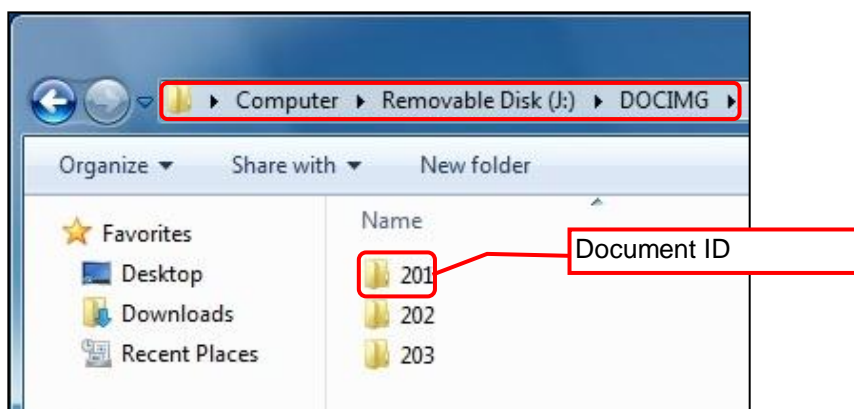
*For details of the relation between Document ID and Display language, please refer to the table below.



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

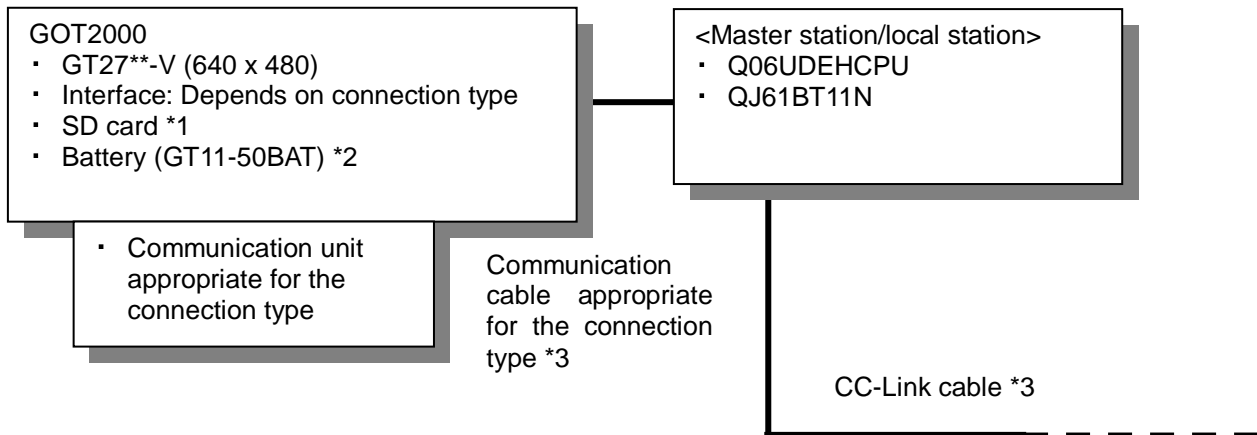
Note: In case the total number of pages is 100 or more.

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

The CC-Link network monitor function sample screens can also be used when the GOT is connected to the master station or local station PLCs via serial connection or bus connection.

7.1 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)".

7.2 Network Parameter Settings

To monitor the link special relay (SB) and link special register (SW) of the master station or local station PLCs on the GOT, set the refresh device as follows in [CC-Link] of [Network Parameter] of the PLC engineering software.

Item	Set value
Special relay (SB)	SB0
Special register (SW)	SW0

7.3 Precautions

The network status display cannot be used with the above system configuration.