CC-Link Network Monitor Function

Sample Screen Manual

Mitsubishi Electric Corporation

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REVISIONS

Sample Screen Manual

Date	Control No.*	Description
2013/10	BCN-P5999-0111	First edition

* 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

* 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 "8. OTHERS".

3. GOT

3.1 System Applications That Are Automatically Selected

oystem Applications that Are Automatically deletered				
Туре	System application name			
Standard Eurotian	Standard Syst	em Application		
Standard Function	Standard Font	t	Japanese	
Communication Driver	CC-Link Ver. 2 (ID)			
	Standard Font		Chinese (Simplified)	
	Outline Font	Gothic	Alphanumeric/Kana	
Extended Function			Japanese (Kanji)	
			Chinese (Simplified)	
	Document Dis	play		

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	

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	
Туре	Master station	
Mode	Remote net Ver. 2 mode	
All connect count	1	
Retry count		
Automatic reconnection station unit		
Stand by master station No.	Use default value	
PLC down select		
Scan mode setting		
Delay information setting		
Station information setting	Refer to 4.2	
Remote device station initial settings	Lico dofault 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. 255 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 transition (common)



(B-30001 Menu and other base screens)



Manual Display-Language 3

5.3 Explanation of Screens

5.3.1 Menu (B-30001)



5.3.2 CC-Link Diagnostics (B-30002)

		7
	CC-Link Diagnostics	
	Host parameter mode	: Remote net Ver 1 mode
	Host station number	56 Station
	Master station information	Data link control by the master station
	Max. link scan time	:3456 msec
	Min. link scan time	:3456 msec
	Current link scan time	:3456 msec
	Other Station Monitor	
	Data link status	All stations normal
	Reserved station specified status	Not specified
	Error invalid station specified status	Not specified
	Temp. error invalid station setting info.	Not set
	Transient transmission status	No error Fuse blown status : No error
	watchdog timer error status	No error Switch change status : No change
	Network Test	
	Data link stop result	1234 Data Link Data Link
	Data link restart result	:1234
	Station	Station Network
	MENU CC-Link Status Diagnostics Monitor1	Status Status Display Back
	4	5 - 6 - 4
0	41000	
Ou Th	in a second allower she shines the OO Links and	
Ini	his screen allows checking the CC-Link he	twork status (nost station and other stations).
6		
De	escription	
١.	Allows the network status of the host sta	allon to be checked.
	Host station number	lays the parameter mode.
	Moster station information	lays the station no.
	Master station mormation . Disp	hays which of the master stations and standby master
	Max link agon time	
	Max, link scan line 10so	lave the maximum value of link each time
	Min link open time	lays the maximum value of link scan time.
	Min. link scan time : Disp	lays the maximum value of link scan time. lays the minimum value of link scan time.
2	Min. link scan time : Disp Current link scan time : Disp Allows the network status of other statis	lays the maximum value of link scan time. lays the minimum value of link scan time. lays the current value of link scan time.
2.	Min. link scan time : Disp Current link scan time : Disp Allows the network status of other statio	alays the maximum value of link scan time. Iays the minimum value of link scan time. Iays the current value of link scan time. Iays to be checked.
2.	Min. link scan time : Disp Current link scan time : Disp Allows the network status of other station Data link status Reserved station specified status	 alays the maximum value of link scan time. alays the minimum value of link scan time. alays the current value of link scan time. bins to be checked. : OFF = All stations normal; ON = A faulty station exists : OFF = Not specified; ON = Specified
2.	Min. link scan time : Disp Current link scan time : Disp Allows the network status of other statio Data link status Reserved station specified status Error invalid station specified status	 alays the maximum value of link scan time. alays the minimum value of link scan time. alays the current value of link scan time. bins to be checked. : OFF = All stations normal; ON = A faulty station exists : OFF = Not specified; ON = Specified : OFF = Not specified; ON = Specified
2.	Min. link scan time : Disp Current link scan time : Disp Allows the network status of other statio Data link status Reserved station specified status Error invalid station specified status Temp, error invalid station setting info	 alays the maximum value of link scan time. alays the minimum value of link scan time. alays the current value of link scan time. alays the current value of link scan time. blays the current value of link scan time. alays the current value of link scan time. blays the current value of link scan time. alays the current value of link scan time. blays the current value of link scan time. core current va
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2.	Min. link scan time : Disp Current link scan time : Disp Current link scan time : Disp Allows the network status of other statio Data link status Reserved station specified status Error invalid station specified status Temp. error invalid station setting info Transient transmission status Watchdog timer error status	 alays the maximum value of link scan time. alays the minimum value of link scan time. alays the current value of link scan time. alays the current value of link scan time. bins to be checked. : OFF = All stations normal; ON = A faulty station exists : OFF = Not specified; ON = Specified : OFF = Not specified; ON = Specified . : OFF = Not set; ON = Set : OFF = No error; ON = Error : OFF = No error; ON = Error
2.	Min. link scan time : Disp Current link scan time : Disp Current link scan time : Disp Allows the network status of other station Data link status Reserved station specified status Error invalid station specified status Temp. error invalid station setting info Transient transmission status Watchdog timer error status Fuse blown status	 alays the maximum value of link scan time. alays the minimum value of link scan time. alays the current value of link scan time. alays the current value of link scan time. blays the current value of link scan time. alays the current value of link scan time. blays the current value of link scan time. core of link scan tim
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2.	Min. link scan time : Disp Current link scan time : Disp Current link scan time : Disp Allows the network status of other station Data link status Reserved station specified status Error invalid station specified status Temp. error invalid station setting info Transient transmission status Watchdog timer error status Fuse blown status Switch change status Allows the network test for the host station Data link stop result	 In the termination of termination of the termination of termination of the termination of the termination of termination of the termination of the termination of terminati
2.	Min. link scan time : Disp Current link scan time : Disp Current link scan time : Disp Allows the network status of other station Data link status Reserved station specified status Error invalid station specified status Temp. error invalid station setting info Transient transmission status Watchdog timer error status Fuse blown status Switch change status Allows the network test for the host station Data link stop result : Displayed	 In the decide the maximum value of link scan time. In the maximum value of link scan time. In the current va
2. 3.	Min. link scan time : Disp Current link scan time : Disp Current link scan time : Disp Allows the network status of other station Data link status Reserved station specified status Error invalid station specified status Temp. error invalid station setting info Transient transmission status Watchdog timer error status Fuse blown status Switch change status Allows the network test for the host station Data link stop result : Displate 0 = N Data link restart result	 In the determinant value of link scan time. In the maximum value of link scan time. In the current value of the data link test at command.
2.	Min. link scan time: DispMin. link scan time: DispCurrent link scan time: DispAllows the network status of other statioData link statusReserved station specified statusError invalid station specified statusTemp. error invalid station setting infoTransient transmission statusWatchdog timer error statusFuse blown statusSwitch change statusAllows the network test for the host statiData link stop result: Displ $0 = N$ Data link restart result: Displ $0 = N$	 In the definition of the second state of the s
2. 3.	Min. link scan time: DispMin. link scan time: DispCurrent link scan time: DispAllows the network status of other statioData link statusReserved station specified statusError invalid station specified statusTemp. error invalid station setting infoTransient transmission statusWatchdog timer error statusFuse blown statusSwitch change statusAllows the network test for the host statiData link stop result: Displ0 = NData link restart result: Displ0 = NData link Stop: Data link Stop: Displ: Displ: Displ: Displ: Displ: Displ: Displ: Displ: Data link Stop: Displ: Displ: Data link Stop: Displ: Displ <th> In the determinant value of link scan time. In the maximum value of link scan time. In the current value of the cur</th>	 In the determinant value of link scan time. In the maximum value of link scan time. In the current value of the cur
2.	Min. link scan time: DispCurrent link scan time: DispCurrent link scan time: DispAllows the network status of other statioData link statusReserved station specified statusError invalid station specified statusTemp. error invalid station setting infoTransient transmission statusWatchdog timer error statusFuse blown statusSwitch change statusAllows the network test for the host statiData link stop result: Displ0 = NData link restart result: Displ0 = NData Link Stop: StopsData Link Restart	 Idays the maximum value of link scan time. Idays the minimum value of link scan time. Idays the current value of link scan time. Idays the specified; ON = A faulty station exists Idays the specified; ON = Specified Idays the second is the test; ON = Specified Idays the second and the test results to be checked. Idays the execution result of the data link stop command. Idormal; Other than 0 = An error code is stored Idormal; Other than 0 = An error code is stored Idormal; Other than 0 = An error code is stored Idormal; Other than 0 = An error code is stored
2. 3.	Min. link scan time: DispCurrent link scan time: DispCurrent link scan time: DispAllows the network status of other stationData link statusReserved station specified statusError invalid station specified statusTemp. error invalid station setting infoTransient transmission statusWatchdog timer error statusFuse blown statusSwitch change statusAllows the network test for the host stationData link stop result: Displ0 = NData link restart result: Displ0 = NData Link Stop: StopsData Link Restart: Restation	 Idays the maximum value of link scan time. Idays the minimum value of link scan time. Idays the current value of link scan time. Idays the scalar time. Idays the current value of link scan time. Idays the scalar time
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 2. 3. 4. 5. 6 	Min. link scan time: DispMin. link scan time: DispCurrent link scan time: DispAllows the network status of other statioData link statusReserved station specified statusError invalid station specified statusTemp. error invalid station setting infoTransient transmission statusWatchdog timer error statusFuse blown statusSwitch change statusAllows the network test for the host statiData link stop result: Displ0 = NData link restart result: Displ0 = NData Link StopData Link RestartSwitches to each screen. The blue switchthis switch will not switch the screen.Shows unused switches for base screen	 In the term of the term of the term of the term of term of the term of term of the term of the term of the term of term of term of the term of the term of term of term of the term of the term of the term of the term of term of the term of term of the term of term o

- 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:
 - 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".
- The [Manual Display] switch allows switching to the [Manual Display] screen of the currently displayed language.
- The currently open window closes when the screen is switched.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. Touch the alarm message to open the [Alarm Reset] window.



5.3.3 Station Status Monitor1 (B-30003), Station Status Monitor2 (B-30004)

5.3.4 Network Status Display (Utility Function "Monitor")

	Network status display GT15-J61BT13 GT15-J61BT13 CLED status> RUN ERR. MST S MST LOCAL R R R R R LINE GOT R/W	ST[1] ink Info> nk Boot Status ink in prog. r Status: mal 3
Outl	ine	
Inis	WINDOW Allows the LED status	and error information of the equipped CC-Link communication
mou		
Des	cription	
1.	Displays an LED status of the	CC-Link communication module (GT15-J61BT13).
	RUN : Not lit = WDT e	rror occurred or unit being reset; Lit in green = Running normally
	ERR : Not lit = No con	nmunication error occurred or unit being reset; Lit in red = All station
	communication Blink - There is	error a communication error station or dunlicated station numbers
	MST : Not lit = Operat	ing other than as master station: Lit in green = Operating as master
	station	
	S MST : Not lit = Operat	ing other than as standby master station; Lit in green = Operating as
	standby master	station
	LOCAL : Not lit = Operati	ng other than as local station; Lit in green = Operating as local station
	M/S : Not lit = No dup	licate master station error: I it in red = Duplicate master station error
	PRM : Not lit = No para	ameter error; Lit in red = Parameter error
	TIME : Not lit = Respor	nses from all stations;
	Lit in red = No	responses from all stations due to cable breakage or transmission
	path affected by	/ NOISE la braakaga arror: Lit in rad – Cabla braakaga arror
	GOT R/W : Not lit = Not acc	essed from GOT. Lit in green = Accessed from GOT
2.	Displays the data link startup s	tatus.
	D-Link in prog.	: Data link being executed
	D-Link Offline	: Data link being stopped
	Initialize	: Set to the initial status
	Farameter Walt Disconnect (No Polling)	: Marameter not received : In cut-off status with no inquiry from master station
	Disconnect (Line Frr)	: 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 prar.	: CC-Link communication unit being reset (GOT reset
	13	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.	
Re	marks	
•	For more details about how to troublesho	pot errors that occur in the CC-Link, please refer to the
	"MELSEC-Q CC-Link System Master/Loca	al Module User's Manual".
• 1	When the GOT is connected to the mas	ster station or local station via serial connection or bus
	connection, the network status display can	not be used.
	······································	

5.3.5 Manual Display-Language 1 (B-30500), Language 2 (B-30501), Language 3 (B-30502)



Remarks

 The language of the manual should be the same as the language of the document that will be prepared for the manual. The language of the title and the text on touch switches (other than the manual display area) is the same as the language of comments specified in the columns No. 1 to No. 3 in the comment group No. 255. The relation of the document (Document ID) and the column No. in the comment group No. 255 is shown below.

Base screen	Document ID	Column No.
Manual Display-Language 1 (B-30500)	201	1
Manual Display-Language 2 (B-30501)	202	2
Manual Display-Language 3 (B-30502)	203	3

- When the GOT is started, the document page No. is set to 1 by the project 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 "5. MANUAL DISPLAY".
- The currently open window closes when the screen is switched.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. Touch the alarm message to open the [Alarm Reset] window.

_

Alarm Reset				
Outline				
This window screen allows resetting the system alarm.				
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.				

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1 Language Setting
Outline This window screen allows selecting the GOT language.
Description
 Switches the language, and closes the window screen. Closes the window screen.
Remarks
 The system language is also switched according to the display language. While the base screen is one of the screens of [Manual Display - Language 1] to [Manual Display - Language 3], if the language is switched in the [Language Setting] window, the screen script will change the manual display screen according to the language selected in this screen. For more details about scripts, please refer to "4.6 Script List".

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4
Clock Setting
Month Minute
Day Second Change 3
Outline This window screen allows changing the GOT clock data.
 Description Displays the current date and time. 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. Applies the set date and time to the GOT clock data, and closes the window screen after 1 second. Closes the window screen.
 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".

Туре	Device No.	Application	
	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_C		Temp. Err Inv. Sta. Status_Contents	
	SB0080	Data Link Status_Contents	
	SB0081	WDT Error Status_Contents	
	SB0082	Fuse Blown Status_Contents	
Bit	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	
	SW0041	Data Link Restart Result_Value	
	SW0045	Data Link Stop Result_Value	
	SW0061	Host Station NoValue	
Word	SW006D	Max. Link Scan Time_Value	
	SW006E	Current Link Scan Time_Value	
	SW006F	Min. Link Scan Time_Value	
	SW0149	Host Parameter Mode_Contents	

5.4.1 Devices of the controller

5.4.2 GOT internal devices

Туре	Device No.	Application		
CR40		Script Trigger (Always ON)		
Dit	GD40	Legend of B-30003 and 30004		
DIL	GD60031.b13	GOT Error Reset Signal		
	GS512.b0	Time Change Signal		
	GD60000	Base Screen Switching		
	GD60001	Overlap Window 1 Screen Switching		
	GD60004	Overlap Window 2 Screen Switching		
	GD60021	Language Switching		
	GD60022	System Language Switching		
	GD60031,	System Information		
Word	GD60041			
	GD60080 to	Document Display Page No. Device		
	GD60082			
	GD61000	Word Lamp of B-30003 and 30004		
	GD63990 to	Clock Digital Switch		
	GD63995			
	GS513 to GS516	Changed Time		

Туре	Device No.	Application		
Word	GS650 to GS652	Current Time		
vvoru	TMP950 to TMP996	For Script Operation		

5.5 Comment List

Comment group No.	Comment No.	Where comments are used
	No. 1	B-30001 to B-30502
	No. 2	B-30001, B-30002
	No. 3 to No. 5	B-30001
	No. 6	B-30001, B-30500 to B-30502
055	No. 7 to No. 12	B-30002 to B-30502
200	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	Specified: W-30002
Object script	Specified: 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]=1;	//Set 1 to Document Pag	e No. of Base Screen	30500
[w:GD60081]=1;	//Set 1 to Document Pag	e No. of Base Screen	30501
[w:GD60082]=1;	//Set 1 to Document Pag	e No. of Base Screen	30502

5.6.2 Screen script Window screen W-30002

Script No.	30002	Script name	Script30002
Comment	Lang. Switching for Man. Dis	splay	
Data type	Signed BIN16	Trigger type	When closing a screen
if(([w:GD60000]	>= 30500) && ([w:GD60000]	<= 30502)){ //Base S	creen Switching Device Value
30500 to 30502			
if([w:GD6002	1] <= 1){	//In Case of Langua	ge 1
[w:GD6000	00] = 30500;	//Manual Display - M	love to Language 1 Screen
}			
if([w:GD6002	1] == 2){	//In Case of Langua	ge 2
[w:GD6000	00] = 30501;	//Manual Display - M	love to Language 2 Screen
}	-		
if([w:GD6002	1] == 3){	//In Case of Langua	ge 3
[w:GD6000	00] = 30502;	//Manual Display - M	love to Language 3 Screen
}	-		
}			

5.6.3 Object script Window screen 30003

Object (Name)	Numerical display (Change_Year)			
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:TMP961] = [w:TMP951] >> 8;//BCD->BIN [w:TMP963] = 2000 + [w:TMP968] + [w:TMP961];//Set Year to TMP973 as BIN [w:GD63990] = [w:TMP973];//Set Year</pre>				
[w:TMP952] = [w:G3 [w:TMP962] = [w:TM [w:TMP969] = [w:TM [w:TMP953] = [w:G3 [w:TMP974] = [w:TM [w:GD63991] = [w:T	S650] & 0x00F0;//Obtain T MP952] >> 4;//Decimal Alig MP962] * 10;//BCD->BIN S650] & 0x000F;//Obtain C MP969] + [w:TMP953];//S TMP974];//Set Month	enths Digit of Month f Inment Ones Digit of Month fro Set Month to TMP974	rom Clock Data for Setting om Clock Data for Setting as BIN	
[w:TMP954] = [w:G3 Setting [w:TMP963] = [w:TM [w:TMP970] = [w:TM [w:TMP955] = [w:G3 Setting [w:TMP964] = [w:TM [w:TMP975] = [w:TM [w:GD63992] = [w:T	S651] & 0xF000;//Obtain To MP954] >> 12;//Decimal Ali MP963] * 10;//BCD->BIN S651] & 0x0F00;//Obtain C MP955] >> 8;//BCD->BIN IP970] + [w:TMP964];//So	enths Digit of "Last 2- ignment Ones Digit of "Last 2-I et Day to TMP975 as	Digits of Day" from Clock Data for Digits of Day" from Clock Data for BIN	
[w:TMP956] = [w:G [w:TMP965] = [w:TM [w:TMP971] = [w:TM [w:TMP957] = [w:G [w:TMP976] = [w:TM [w:GD63993] = [w:T	S651] & 0x00F0;//Obtain T MP956] >> 4;//Decimal Alig MP965] * 10;//BCD->BIN S651] & 0x000F;//Obtain C MP971] + [w:TMP957];//S	enths Digit of Hour fro Inment Ones Digit of Hour fror Set Hour to TMP976 a	om Clock Data for Setting n Clock Data for Setting is BIN	
[w:TMP958] = [w:G3 for Setting [w:TMP966] = [w:TM [w:TMP972] = [w:TM [w:TMP959] = [w:G for Setting [w:TMP967] = [w:TM [w:TMP977] =[w:TM [w:GD63994] = [w:T	S652] & 0xF000;//Obtain T MP958] >> 12;//Decimal Ali MP966] * 10;//BCD->BIN S652] & 0x0F00;//Obtain C MP959] >> 8;//BCD->BIN 1P972] + [w:TMP967];//Set MP977];//Set Minute	enths Digit of "Last 2- ignment Dnes Digit of "Last 2- et Minute to TMP977	Digits of Minute" from Clock Data Digits of Minute" from Clock Data as BIN	
[w:TMP993] = [w:G [w:TMP995] = [w:TM [w:TMP996] = [w:TM [w:TMP994] = [w:G [w:TMP978] = [w:TM [w:GD63995] = [w:T	S652] & 0x00F0;//Obtain T MP993] >> 4;//Decimal Alig MP995] * 10;//BCD->BIN S652] & 0x000F;//Obtain C MP996] + [w:TMP994];//S	enths Digit of Second Inment Ones Digit of Second f Set Second to TMP97	from Clock Data for Setting from Clock Data for Setting 8 as BIN	

Object (Name)	Numerical display (Change_Month)		
Script user ID	2		
Data type	Unsigned BIN16	Trigger type	Ordinary
//BIN -> BCD Conve	ersion		
[w:TMP979] = [w:Gl	D63990] - 2000; //Last 2-[Digits of Year	
[w:TMP980] = (([w:]	TMP979] / 10) << 4) + ([w: ⁻	TMP979] % 10); //Ye	ar BIN -> BCD
[w:TMP981] = (([w:0	GD63991] / 10) << 4) + ([w	:GD63991] % 10); //	Month BIN -> BCD
[w:TMP982] = (([w:0	GD63992] / 10) << 4) + ([w	:GD63992 % 10); //	Day BIN -> BCD
[w:TMP983] = (([w:0	GD63993 / 10) << 4) + ([w	:GD63993 % 10); //	Hour BIN -> BCD
[w:TMP984] = (([w:0	GD63994] / 10) << 4) + ([w	:GD63994] % 10); //	Minute BIN -> BCD
[w:TMP985] = (([w:0	GD63995] / 10) << 4) + ([w	:GD63995] % 10); //	Second BIN -> BCD
	- , , .	• /*	
Object (Name)	Numerical display (Chang	ge_Day)	
Script user ID	3		
Data type	Unsigned BIN16	Trigger type	Ordinary
//Year & Month Sett	ing		
[w:GS513] = ([w:TN	1P980] << 8) + [w:TMP981];//Set Year & Month t	to Change Time Device
Object (Name)	Numerical display (Chang	ge Hour)	
Script user ID	4		
Data type	Unsigned BIN16	Trigger type	Ordinary
//Date & Time Settir	ng		· · · · · · · · · · · · · · · · · · ·
	5		
[w:GS514] = ([w:TMP982] << 8) + [w:TMP983]; //Set Date & Time to Change Time Device			
Object (Name)	Numerical display (Chang	ge_Minute)	
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 (Name)	Numerical display (Change_Second)					
Script user ID	6					
Data type	Unsigned BIN16 Trigger type Ordinary					
//Day of Week Setting						
[w:TMP986] = [w:GD63990]; //Year (BIN)						
[W:TMP987] = [W:G] [W:TMP988] = [W:G]	[w:TMP987] = [w:GD63991]; //Month (BIN) [w:TMP988] = [w:GD63992]: //Day (BIN)					
	[w. 1wh 000] = [w. 0000002], //Day (Dirty)					
if(([w:TMP987] ==	1) ([w:TMP987] == 2))	{// Correction Proces	sing to Calculate January and			
[w:TMP986] =[w:	4tn Month TMP9861 - 1: //Subtract 1 f	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.101992] = (13 [w. i wir 907 j+0//3,//Create i	Remis Required for Zell				
//Calculate Day of V	Veek Using Zeller's Congru	uence and Set the Day	to Change Time Device			
[w:GS516] = ([w:TM	1P986]+[w:TMP989]-[w:TM	1P990]+[w:TMP991]+[v	w:TMP992]+[w:TMP988])%7;			

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 languages of the manual are switched by switching to the base screen to which the document (Document ID) of the selected language is specified.

6.1 Preparing Document Data for Manual Display

Example: Displaying a manual (document) on the base screen B-30500: Manual Display - Language 1

(1) Convert the manual (including Word and Excel) 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 the same value as the base screen B-30500 document display [Document ID].

DocumentCo	onverter
Document ID:	201
Document Name:	Manual Display(English)
File Path:	Document Converter's Document ID
Output Path:	

Manual Dis	play	
Document Display		
Initial Display Size: Page Settings	🕑 Large	@ Medium
Document ID:	201	
Page No.:	© Foxed	Device

Example: Document ID of the document display in the base screen B-30500: Manual Display -Language 1

(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

6.2 Changing the Total Number of Document Pages

Change the total number of pages at the lower right of the screen according to the total page number of the document to be displayed.

Example: To change the total number of document pages from 10 pages to 20 pages.



(1) Change the format of the numerical input.

- 1. Double-click the numerical input, and open the [Device] tab on the dialog box.
- 2. Change the [Format String] from "P.##/10" to "P.##/20".

Device: GD60	080 - [time]	Data Type:	Unsigned 82416 •	
Font: Number Sze:	16dot Standard Gothic •	n Abarrent		
Format:	Unsigned Decimal •	3		
light (Integral)	2 📑 🖬 🖬 🖬 🖬			
Digita (Frictional) Digitaly Range:	0 🗄 🗆 Adjuit Deor	ul Point Range	Preveov	
Display the num the screen with	ancai value to be shown on asterisk		Sample Value:	
Format String:	P.##/10	P.##/20	1	

- (2) Change the input range of the numerical input.
 - 1. Open the [Input Range] tab in the dialog box. 2. Click on [Exp...], and open the [Edit Range] dialog box.

Device* 75 Sumber of 5e	c Settings tyle* (nout Case*) ettings: 1 (Preview List) 1 c= 3W c= 10	Adv Extended (7	rigger Y Oper Range Range:	ige ration/Script	= 10.		Exp.,
	Edi	t Range 1 <= \$W <= A <= Constant Data	10 Type:	e=	• c	© oct	
		Terr	m Type	Value			
		A Con	stant	1			
		B SW		Monitor Dei			
						ок	Cancel

(3) Change the next page switch setting.

- 1. Open the [Action] tab on the dialog box.
- Double-click [Action 1], and open the [Action (Word)] dialog box.
 Change the [Condition Value] and [Reset Value] from 10 to 20.

Autors	Sec.	An and the second second	Add Action
Word Set	GD60	Im 6060000 + 1	84
Control of the second			Word
	•		SP Function
	Action (Word)	And a second	BREAK A STATE
	Device:	G060080	- []
	Barto Barto	Canad Blink	
	uata type;	adues mare	
	Mode:	Custom	
	Setting Value		
	12 Constan	n 1 0	
er ID for a ker	12 Indexet	0euroe: 6060080	
	in the cer	pertec.	COLUMN 1
amp (Timing	🔣 Initial Value	Condition	
Rey To	The reset	alue will be written to the device if the d	evice value
🗆 🗇 BR-ON)	s greater/s	maler than the condition value.	
O Word 9	Condition V	akue: 10 🔶 20 Reset Va	Aue: 10
		L	OK Cancel
	<u> </u>		

6.3 Setting the [Manual Display] Switch

The [Manual Display] switch specifies the manual screen to be displayed according to the Column No. stored in the language switching device. For more details about the Column No., please refer to "5.1 Display Language".

Мели	Monitor Parameter Alarm Manual Back
Action* Style*	s Advanced Settings Text* Extended Trigger Script Write Device/Switching Type Add Action 8#
2 Scheen Switch 3 Scheen Switch	ng 0 Overlap2 Word Sif Function Language switching device
r T	Screen Type: Base
User ID for a key a Lamp (Timing to # Key Toud	Next Screen: Fixed Back (Previous/History) Device Data Type: Signed BIN16 Device: GD60021 OK Cancel
© Bit-ON/O	e Details of Action (Word)
Name: Scre	Number of States:4 0 Normal 0 30500:Manual Display-Langua 1 \$\$ <= 1
	Utilize OK Cancel

7. TEMPLATES

Templates are a group of figures and objects. Related settings are grouped into template attributes and registered, so the devices, colors, and other items can be easily changed in a batch. For more details about changing the attribute settings, please refer to "GT Designer3 (GOT2000) Help".



The template information is only displayed on the screen design software's editing screen. It is not displayed on the GOT display screen.

Example: Changing a font

(1) Select [Template Information], and click on [Template Property] (or double-click on [Template Information]).

Screen Suitchins2 Menu Monite	
Property	
Template Information Template Property [Screen Switchin	Menu Monitor Parameter Alarm Manual Display Back
Attributes of registered figures/objects can b changed collectively on the template propert	The figures and objects that are registered in the template are changed to the selected state.



(2) Click [Font], and select the new font.

8. 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.

8.1 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)".

8.2 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

8.3 Precautions

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