Chapter 7 Error State Log Screen

Chapter 7 Error State Log Screen (displays summaries of the alarms triggered in the past)

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7.1 Error State Log screen

Here, it will be explained what screen the "Error State Log" is.



• What's possible ?

1 . When Alarm occurs, it's possible to display alarm messages in a list and to record a history. Displaying alarm histories in a list is useful for upkeep of the system and improvement of a suspension rate.

2 . Using Sub Display Feature enables details and countermeasures of each alarm to display with pictures or guidance. Instructing countermeasures linked to alarms can make the least damage and enables anybody to restore the damaged surely.



7.2Alarm Summary

Here, it will be explained how alarms are displayed in a summary.



• How to display alarms in a summary?

• In order to display alarms in a summary, it's required to register alarm monitor addresses and messages at first. The registered messages are displayed on the screen with Q tag (Alarm Summary Display Feature). By using Q tag, it's possible to display triggered alarm messages in a summary with time.

The number of messages recorded by Q tag is up to 768. (GP2000• 77R series) When the number exceeds the max., the messages are deleted in the order of the older.









How to register addresses to monitor and alarm messages

• Here the way to register addresses to monitor and alarm messages will be explained. The addresses to monitor and the alarm messages will be registered via Alarm Editor.



messages display.



(3) Alarm Editor (Bit Log) Settings Bit Alarm Log Sett Direct 🔿 Browse Text Table 🔲 Sort 1 2 3 2 1 1 B Deed 100 Q A Direct: Enter messages directly on Editor. Group No. Sub Display State | Message/Summary Text Bit Address Browse Text Table: Using text registered in Text Table Editor, change messages.

	Bit Address	Group No.	Sub Display	State	Mess
1	X0100	û	10	Dπ	Alacml
2	x0101	Û	11	תם	Alacm2

Bit Address: Designate a bit address to monitor

Group No.: It's possible to store counts of triggered alarms set with the same group number in the LS Area. If it's set to 0, nothing is counted. The LS Area for storage can be set via [Q tag Settings] of [System Setup].

Sub Display: Designate the screen number for Sub Display

State: Make a setting that Alarm is triggered when the monitor address is either On or Off.

Message: Input alarm messages to display





(4) Alarm Editor (Word Log) Settings



Data Format: Set an input format of alarm values.

	DE C					~
Use block Use estended function		Jumps to the der		_	est Table T	-(1
Hord Address	Group No.	Sub Display	Alarm Value	Hit.	Mossage/Summary Text	
1 1				13 13 14		-(2
*				14		

	Word Address	Group No.	Sub Display	Alarm Value	Bit	Message/Summary Text
1	•				16	
2					16	

Word Address: Set a word address to monitor

Alarm Values: Set what value of word address data triggers alarm.

Bit: In the case of monitor with 1 word; [16], with 2 words; [32].

(5) Settings for the time when using Extended Function

	D Dit Alarm Log Settings - monants timp
Use extended function	Une standed torcoor
When using Extended Function, the following functions are added. (ST series, GP2000 series only)	Adamatic Addama Incoment Adamatic Ad

- 1 . Display items like triggered alarm counts, cumulative time, level
- 2 . Sort Function of display items (Active, History only)
- 3 . Display Color Setting for each level
- 4 . No. of Blocks is extended to 8 blocks
- 5 . Acquiring ID of a currently selected alarm message
- 6 . Erasing the occurrence time, the cumulative time via an external operation
- 7 . Adding operation items of Q tag selection key (T tag)
- 8 . Q tag Border Type Setting

Check on [Use Extended Function], and [Level] will be added in the item on Alarm Editor. For levels, 8 levels from 0 to 7 can be set and a display color of a message can be set for each level.





After completing all settings, click [Save].



8 - 11

1234

240

14 15

ined time ch

K)

1



How to display alarm messages

• In order to display on a screen alarm messages registered on Alarm Editor, use Q tag.

(1) How to select Q tag (Alarm Summary Display Feature)

Select [Q tag] from [Tag] of the menu bar.



Menu Bar

 Tag Tool Bar A a C D d E F G G H J K k L I M N n R Q R S T t Th Th U V V W X

🗅 🖆 🔚 🐮 😰 🔍 🔍 🕩

Screen Edit View Option Draw Tags Parts Special Library Window Help

e 🗢 🖱 🗞 👻 🔍 🐚 🚹 🔿 🏊 🔽 🖸 🖄 🖩 📼 🖄 🕼 🖴 🚼 🖬 📅 拉 🕒 🗦 🥵

🖡 • Л • 🗆 О (Э 🗞 🗛 🚢 🖍 🖪 🙈 💽 💓 👅

(2) Display Mode Settings

🔛 📸 📑

Or click the [Q tag] icon.

RS

When using Block, select Display Mode here. Active: Displays currently triggered alarms only.

History: Displays alarms for Trigger, Ack, Recover together in a line.

Log: Displays alarms in each line every time for Trigger, Ack. Recover.

Note: When using Block Function, the setting is changed to the setting of block numbers.

Display Mode	Default Sorting Order
Block1 💌	Order of New Date & Time
Block1	
Block2 Block3	

The settings of [Active], [History], and [Log] can be made on Alarm Editor.

Set the order of displaying alarm messages.

Select it from the followings.

Order of New Date & Time Alarm Registation Order Order of Max Frequency of Occurrence Order of Max Accumulated Time High Level & New Data & Time Order High Level & Max Frequency of Occurrence





[Active]: Display			-		ssages only. ears and no summary	is lof	ŀ	
		cry, the t		nsappe	ars and no summary			
	Ex.)	Trigge Date	er Trig Tim	gger Ie	Message			
		11/01 11/01	9:0 12:0		The temperature Run Time excee		o hig	h.
				-	triggered, the line is s ime is added to the s			ext
	Ex.)							
		Trigger Date	Trigge Time		ssage		Ack. Time	Recover Time
		11/01 11/01 11/01	9:00 12:00 14:00	Run	temperature is too hig Time exceeded. ssure Error	-	15:30 14:30	16:00 18:00
		•	with sun	nmary i	n every new line for	each t	ime of	:
[Log]: Displays Trigger, Recover								
		Trigger Date	Trigger Time	Mess	age	Ack. Time		covery e



(3) Display Format Settings

Common: Used when the plural Q tags to place have the same display format type. The format can be set at [System Setup].

Individually: Used when the plural Q tags to place have different display format types. The format can be set at [Q tag Display Format].

[Q tag Settings] is displayed. For the detailed settings, refer to [(4) Q tag Settings].

Set a display format individually. Check items to display and set which character is displayed from for each item. In order to set [Multiple], [Accumulate], and [Level], check [Use Extended Function] on Alarm Editor.

(4) Q tag Settings

Set the number of memory of alarms for each display mode. Set the total of Active/History/Log to 768 or less.

When using Block, set the number of memory for each block.

Set Q tag Display Format when the display format is set to [Common].

Set a start address of the LS area to which counts of a triggered alarm with Group No. set on Alarm Editor are written.





Storing commands in Control Address enables you to operate [Ack All], [Delete All], [Clear All Number*], [Clear All Times*] from outside.

*supported by GP2000 series only. Operation is possible only when using [Extended Function + Block Function].

Alarm Message Displayed by Q-Tag: Set whether alarm messages displayed by Q tag is backed up or not when the power of the unit turns OFF.

PLC Data Monitored by Q-Tag: Set whether PLC data monitored by Q-tag is held or not when the GP power turns OFF.





(5) Size/Color Settings

Set a char. color/a background color of Alarm at the time of Trigger, Ack, Recovery.

When using Extended Function, it's possible to set Trigger, Ack, Recovery colors for each level.

Set a color at the time of Alarm Clear



(6) Extended Function Settings

It's possible to store the alarm number of the currently selected alarm message in the LS area set here.

Alarm Number

\frown	Bit	Address	Group No.	Sub	Display	State	Level	Mes
1	25 230	-	0	1		0n	5	LineA
2	850 31		0	2		0n	2	Linch
з	850 32		0	з		0n	7	Linch
٩	8502.3.3		٥	٩		Dл	٥	Linch
5	0234		0	5		Dπ	s	LineB

When[Notify ID at each cursor movement] is not checked, an alarm number is stored in the LS area every time [Alarm information acquisition function] of [Q-tag selection key] of [T tag] is touched. When [Notify ID at each cursor movement] is checked, an alarm number is automatically stored in the LS area at each cursor movement.







(6) Set Size/Color.

Set [1x1 (f)] for Display Size.

For Level, 0, 2, 5, and 7 each, set colors of Trigger, Ack, Recovery as you like.

Click [OK].

_

(1)	
Q Tag Settir g 🛛 🛛 🕅	
Sub Display Display Angle Extended Function General . Display Mode Display Format Size/Color	
Display Size Bx16 C 1Dol C 2Dol	
toria 0 1 2 3 4 3 6 7	
Trigger 0 1 2 3 4 5 6 7	
Ack 🚺 1 2 3 4 🖬 6 7	
Recovered 11 1 2 3 4 5 6 7	-0
Fg No Bk 💌	
Bo	
Erase Color	
OK Carel Help 3	

(7) Place Q tag on the screen.

_ __ -

_ __

Place Q tag.

Sort Line Error Log NAME: :1234567	
Alarm Display Order Change Otag Operation SW Display Order Change State Akc. Op Errors!!	
All Time Peverce Alarmo 200 200 200	
Trigger Ack, Recovery Trigger Ack, Recovery N/d Time Time Time Accumulate Level Message M/d Trig Ack Rec Mul Accumulate Level	
Run State Collect Data Setup Input	



Note !		
	set for Display Format, it's necessary to transfer [GP setup] together ta to GP. Without transferring [GP setup], data is not displayed in th	
See the step	ps shown below.	
Settings] o Setu Tr Pa	ring data, click [Transfer f [Setup] from the menu bar. p View Options H vansfer Settings assword WayDriver	C 29 DD of FAR FARTONIAL CORT
 Check [GP	e system screen].	ی ۲. Sanctore (5 - 2)
– Send Infor ✓ Upload I ✓ GP Syst ☐ Filing Da ☐ Data Tra	Information Parada Value	ne for

7.3 Alarm Operation

Here, the way to operate the alarm messages displayed by Q tag will be described.



How to operate alarm messages of Q tag

• Alarm messages displayed by Q tag can be operated.

In order to operate them, use [Q tag selection key] from [Special] of [T tag]. For operation, what you do is just placing [Q tag selection key] on the screen where Q tag has been placed.



(2) Action of Q tag selection key

· Select [Q tag selection key] from [Special] of the [Mode] tab.

Select each action and place them on the screen where Q tag has been placed. In the case of operation within Q tag Display Area, a Start key is necessary. Touch the Start key, and a cursor will appear in the Q tag Display Area.



Note!

When plural Q tags are placed on one screen, T tag does not operate.



(3) E	ach Action of Q tag sel	lection key					
	Start	This key begins operations in the Q-tag display area. Pressing this key causes a cursor to appear in the display area. "Freeze Mode"- Pressing the Start key twice holds the Q tag's display and even when alarms are triggered, acknowledged, or recovered, the messages are not renewed. In order to release the Freeze Mode, press the Finish key. When it's released, the alarms triggered, acknowledged, or recovered during the Freeze Mode are displayed at a time.					
	Finish	This key ends key entry operations as the cursor disappea	rs.				
Ack	Ack	Pressing the Ack key will display the Ack time in the row displaying.	the cursor is currently				
AUK	Ack All	Pressing the Ack All key will attach (and display) the Ack displayed that do not yet have an Ack time.	k time on all the messages				
	Up	oves the highlighted cursor up in the Q-tag display area.					
Move	Down	ves the highlighted cursor down in the Q-tag display area.					
NOVE	Roll Up	With this key, the specified number of lines' display data	will be rolled up.				
	Roll Down	With this key, the specified number of lines' display data	will be rolled down.				
	Delete	Erases the message in the current row.					
	Delete All	Erases all the Q-tag messages displayed.					
	Clear Recovered Alarm	Recovered messages will be deleted from the currently se	elected alarms.				
	Clear Acknowledged Alarm	Acknowledged messages will be deleted from the current	ly selected alarms.				
	Clear All Recovered Alarms	Erases all the recovered alarms.					
Clear	Clear All Acknowledged Alarms	Erases all the acknowledged alarms.					
	Clear All Numbers	Erases all alarm count numbers.					
	Clear Option Numbers	Erases the number of alarm counts for the currently selected alarm.	The operation is possible only when using [Extended Function +				
	Clear All Times	Erases all accumulated alarm times.	Block]				
	Clear Option Time	Erases the accumulated alarm times for the currently selected alarms.					
	Sort Date	Displays the alarms in descending order by time of alarm occurrence.					
	Sort Number	Displays the alarms in descending order by the number of alarm occurrences.					
	Sort All Time	Displays the alarms in descending order by the accumulated time of alarm occurrences.					
	Sort Alarm	Displays the alarms in the order registered in the Alarm Editor.	The operation is possible				
Sort	Sort Level & Date	Displays alarms in descending order, according to the alarm levels set. When the same level is set for multiple alarms, the alarms are listed in time stamp order, with the newest alarms first.	only when using [Extended Function]				
	Sort Level & Number	Displays alarms in descending order, according to the alarm levels set. When the same level is set for multiple alarms, the alarms are listed in number of alarm counts, with the most alarm counts first.					
	Sort Reverse Alarm	Displays the alarms in the reverse order of the sorting in the Q tag display currently displayed on the GP.					
	Sub-display	Pressing the Sub-display Key with Q-tag's sub-display se designated sub-display screen.	lected calls up the				
Ala	rm Information acquisition	Pressing this key acquires the Alarm number of the Alarm message that is currently selected. The acquired numerical value is stored in the device address specified with the "Placing Alarm Cursor Position Control"	The operation is possible only when using [Extended Function]				



(3) Place Q-tag selection key (Start).

Start.

Sort Line Error Log HAREI AND AND S 10111-003 Place T-tag as drawing a square on Alarm Display Order Change Otag Opera inner er trackrist b Tragger Tase Ack.P Error Details Bultipl -10 71.00 Time Collect Data decky inp

(4) Set [Q-tag selection key] for other	r operations.
The [Q-tag selection key] to change the alarm display order can be selected from [Sort] of [Action]. Place T-tag for the following operations over the picture of the SW on the screen. Date:[Sort Date] Number:[Sort Number] All Time:[Sort All Time]	Image: Sort Line Error Log NAME: Image: Section Shift Alara Display Order Change Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift Image: Section Shift
Reverse Alarms: [Sort Reverse Alarms]	Error Details Trigger Ack, Pecovery a/d Function Level Message mm/dd Tig Lek Pec Hull Level Level Message mm/dd Tig Lek Pec Hull Level Level Message mm/dd Tig Lek Pec Hull Level Level Message mm/dd Tig

Select other [Q-tag selection key] to operate Q tag from [Action]. Place T tags for the following operations over the pictures of the switches on the screen.

Finish:[Finish]	• Finish					
Ack:[Ack] of [Ack]	0	• Ack	Ack			
Clear:[Clear All Ack	Alarms]	of [Clea	r]	Clear	Clear All Ack, Alarms	•
Up: [Up] of [Move]		\odot	Move	Up	•	
Down:[Down] of [M	ove]	۲	Move	Down	•	

7.4 Sub-display

Here, the way to display the details and the countermeasure of the selected alarm message that is displayed by Q tag will be described.



Touch the message displayed on Q tag.



The sub-display screen according to the message displays on the screen.

(2) Types of Sub-display

• There are 6 kinds of settings as shown below for Sub-display function.

	Change Screen	Changes the display screen to another screen according to each message.
Base screen	Library Display	Calls and displays a library (picture) according to each message.
	Text Display	Calls and displays a text (sentences) according to each message.
	Change Screen	Calls a base screen according to each message via a window and displays it.
Active Window		Calls a picture (library) according to each message via a window and displays it.
	Text Display	Calls a text (sentences) according to each message via a window and displays it.





impossible to delete the sub screen only.

• A sub-screen called by L-tag is called so that the center of the screen overlaps L tag.







Note !

- It's Window that can be called and displayed.
- On the base screen for the sub-display, no special space for a sub screen is necessary.
- Even when the sub screen overlaps other objects, it's possible to delete the called sub screen only.





🜠 Sub-display using Change Screen

(1) Flow of Sub-display Setting (Base Screen -> Change Screen)

- 1. Create a sub screen (a base screen) for each alarm message
- 2. Register a sub-display screen number of each message with Alarm Editor.
- 3. Set Sub-display function in Q tag.

(2) Setting on Alarm Editor

The number of a screen of sub-display can be set via Sub Display Screen Number on Alarm Editor.

-	-				_				
		Bit	Address	Group No		Sub	Display	State	Mess
	1	X0100		Û		10		תם	Alacml
	2	X0101		Û		11		מס	Alacm2

(1)





(3) Q tag Settings

Select [Change Screen] of [Base Screen].

The screen of a sub display registration No. that is set on Alarm Editor + an offset value is displayed.

With [Direct Selection] checked, touching the message displayed by Q tag displays the sub screen. Without [Direct Selection] checked, using T tag's [Q tag selection key] allows the sub screen to display.

With [Cursor Display] checked, a cursor displays on the selected message.

(1)
Q Tag Setti ng 🛛 🔀
General Into Display Mode Display Format Size/Color Sub Display Display Angle Extended Function
Mode Setting: Change Screen Screen Type: Base Screen Clibrary Display Text Display
Diffeet 0 + 2 Direct Selection 3
OK. Cancel Help

How to use Offset

Q: I set Sub Display Screen No. in the ascending order from [1] via Alarm Editor. But since the base screens, [1 to 10] have been already used for the display screen, I had to create a sub screen from the base screen, [11]. Do I have to re-register the sub display screen no. via Alarm Editor?

Point!

Jo.	Sub Display	State	Message/Sum
	1	0 n	LineA Speed Eccor
	2	0 n	Line& Power Sccor
	3	0 n	Line& Line Clogged
	٥	0 n	LineA Emergency St.
	5	0 n	LineB Speed Accor
	6	0 n	LINEB Power Accor
	1		

A: In this case, using [Offset] allows you to call and display the sub screen registered from B11 without reregistering the sub display screen no. via Alarm Editor. If [10] is set for Offset, when the message registered as a sub display screen no., [1] is sub-displayed, the screen of the screen no., [11] (Offset [10] + Sub Display Screen No. [1]) is displayed as a sub screen.

Tag Setting	X
Sub Display	lay Mode Display Format Size/Color Display Angle Extended Function ce Screen /? Active Window
Mode Settings C Dhange Screen C Library Display F Text Display	Screen Type: Text Screen Word Address1 (P0ag Screen Address) L S0030
Offset III -	Word Address2 (Utag Word Address)
E Conor Display	Window Registration No. 1 *
OK.	Cancel Help

Sub-display using Library Display

(1) Flow of Sub-display settings (Base screen -> Library display)

- 1 . Create a sub screen (base screen) for each alarm message.
- 2 . Register a sub display screen number for each message via Alarm Editor.
- 3 . Set Sub Display Function to Q tag.
- 4 . Set L-tag on the screen to which the sub screen is called.





(3) Q tag Settings

Select [Library Display] from [Base Screen].

The screen number of the base screen of sub-display is stored in the word address set here. The address must be the same as the word address of L-tag used for Sub Display.

Tagger Tager Tagger Bit A C 0 + 1 C 1 + 0 C 1 + 0	-	Constitute Cr. Ha Cr.	Data Formar Pri Bin Pri BCD Pri Dhorach
WashAddeen	Scene Type IF Base Scene IF Image Scene IF Image Scene IF End	P - 4-	

ng Sett ing		
Sub Day	play Mode Display Format Size/Color Display Angle Extended Function ase Screen / Active Window	
Mode Settings Change Scoren 4 Jubary Display Test Display	Screen Type: Base Screen Word Adderest (Ling Word Adderes)	-(
Dituet 0 ±	Exaine Scheem No. 1	—(
F Law State		

Set the number of the screen displayed when selecting the message with the sub display screen no. defined as [0] via Alarm Editor (without the sub screen). Reference: P8-37)

(4) L tag Settings

• When using L tag with Sub Display's [Base Screen]-> [Library Display], make the following settings.

	(1)	(3)
Select [Indirect] from the Designated Screen tab.	L Tag Setting General Info. Designated Screen C Direct I Indirect C State	
Select [None] for Trigger Type.	Trigger Type C 0 > 1 C 1 > 0 C None Word Address	Carace Mode - Data Format - C No C Bin C Yes C BCD C Character
— — — — — — — — — — — — 4 → Select [Bin] for Data Format.	Cliset Value 0 Screen Type Cliset Value 0 Cliset Value Control Contro	C Image Screen - BIN
Set the same address as the word address set in Sub Display of Q tag for Word Address.	ок 5-	Help
Select [Base Screen] for Screen Type.		
· The word address set in Sub D	Display can use LS area only.	,
:		

What's Erase Screen No.?

The Erase Screen No. is set when an alarm message with a sub screen and an alarm message without a sub screen (the sub display screen no. is set to [0]) are mixed. If you sub-display an alarm without a sub screen without setting an erase screen no., the previously displayed sub screen will remain. When an erase screen no. is set, if an alarm without a sub screen is selected, the already prepared erase screen (the screen registered in Erase Screen No.) will be written over the previously displayed sub screen. Therefore the sub screen is not displayed.

Point!

Ex.) When messages with the sub display screen no. set to [0] are mixed,

No.	Sub Display	State	Message/Sum
	1	Ωл	LineA Speed Eccor
	2	תם	LineA Power Eccor
	Û	Ол	LineA Line Clogged
	3	Пл	LineA Emergency Str
	0	Ωл	LineB Speed Eccor
	5	מח	LINeB Power Accor
	Û	Ол	LineB Line Clogged

Prepare an erase screen and set it to Q-tag's Erase Screen No.

Touch [Line A Power Error].

The sub screen registered in Sub Display Screen No. is displayed.



Touch [Line B Line Clogged].

The screen registered in Erase Screen No. is displayed.


Sub-display using Text Display

(1) Flow of Sun Display Settings (Base Screen -> Text Display)

- 1 . Create a sub screen for each alarm message (a text screen).
- 2 . Register a sub display screen no. for each message via Alarm Editor.
- **3** . Set Sub Display Function to Q tag.
- 4 . Set X tag on the screen to which the sub screen is called.

(2) Create a sub screen (a text screen) Create a screen of sub-display with Text Screen. Screen Type: OK Text Screen Cancel Base Screen Mark Screen Trend Screen <eypad Screer Help Open [Editor] and select [Text Screen] from screen w Screer [New]. X1: LineA Speed Error 01Slow down the line 02by about 10 in the Create a text (sentences) of sub-display for each 003 Setup screen message and save it.







(4) Q tag Settings

Select [Text Display] of [Base Screen].		General Info. Display Mode Display Format Size/Color Sub Display Display Angle Extended Function	
The screen no. of the text screen for sub- display is stored in the word address set here. The address must be the same as the [Text Screen Word Address] of X tag used for Sub Josplay.	1	None Image: Base Screen Charge Screen Mode Settings Screen Type: Text Screen Library Display Screen Type: Text Screen Itrat Display Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Offreet Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Offreet Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress Image: Constraint of the state screen hiddress	-2

Set the number of the screen displayed when selecting the message with the sub display screen no. defined as [0] via Alarm Editor (without the sub screen). Reference: P8-37)

(5) X tag Settings

• When using X-tag with [Base Screen]->[Text Display] of Sub Display, make the following settings.



Select [Direct] for Display Start Line and set [1] for Line No..

解説

Sub-display using Active Window

(1) Flow of Sub Display Settings (Active Window -> Change Screen)

- 1 . Create a sub screen for each alarm message (Base Screen).
- 2 . Window-register the created sub screen.
- 3 . Register a sub display screen no. of each message via Alarm Editor.

n Edit View Option Draw

- 4 . Set Sub Display Function to Q tag.
- 5 . Set U tag on the screen to which the sub screen is called.

(2) Window Pagiatratian of a cub corean	New Ctrl+N Open Screen Ctrl+O Close Save Ctrl+S
 (2) Window Registration of a sub screen Create a screen of sub-display on a base screen and window-register each screen. 	Save As Previous Screen Next Screen Screen Information Window Registration ropop Regrad Edic Save as default Keypad Transfer Alarm Text Table
Create a sub screen on a base screen and save it. After saving it, select [Window Registration] from [Screen] of the menu bar.	Exit Exit Registered Window Setting No. Screen Size Description Model 1 8100 322x000 Auto. Ru Copy 2 3 8100 322x000 Auto. Ru Copy 2 0
Click on [Add] and surround the place desired for Window Registration with a frame.	Heb
Enter the window number in Registration No. and click [OK].	Add to 1.ist ○ Registration No.: 7 OK Description: X tag (Sub) Cancel 3 1 8100 528-204 Char. Key 3 2 810 312-0600 Auto. Ron 3 3 810 360x133 Marxad Ra 4 U4 344x082 5 83011 320-0000 Q tag Alar Help
Ex.) Create a sub screen on the base screen, [10] a	and register it in Window [1].
B10 Details of Alarm 1	B10 U1 Details of Alarm 1





If you select [Alarm 1], the Window [1] will be called as a sub screen.

(4) Q tag Settings

Select [Change Screen] of [Active Window]

A screen number of a text screen for subdisplay is stored in the word address set here.The address must be the same as the [word address] of U tag used for Sub Display.

Vord Address				
	-	1 10	uched Scre	en To Front
C Direct		Data Format ⊂ Bin		
Indirect		C BCD		

Q Tag Setting		2	C I
Genera Info. Size/Color	Display Mode Sub Display Base Screen (* Acti	Display Format Display Angle	
Mode Settingt Change Screen Library Display Test Display Offset 0	Word Address2 (Uka ELS0031	g Word Address)	-2
🗖 Corsor Display			
0K	Cancel	Help	

(5) U tag Settings

• When using U tag with Sub Display, [Active Window] -> [Change Screen], make the following settings. And it will be fine wherever you place the set U tag on the screen.

The word address must be the same as the word address 2 that has been set in Sub Display of Q tag.

Select [Indirect] for Designated Window.

Select [Bin] for Data Format.

U Tag Setting General Info. Designated Window 🔲 High Speed Word Address 🐮 LS0031 -Designated Window - Data Format Bin
 C Direct 2 3 Indirect C BCD ΟK Cancel <u>H</u>elp

Sub-display using Active Window and Library Display

(1) Flow of Sub Display Settings (Active Window -> Library Display)

- 1 . Create a sub screen for each alarm message (a base screen).
- 2 . Register a sub display screen number of each message via Alarm Editor.
- $\boldsymbol{3}$. Set L tag on a new base screen.
- 4 . Window-register the created L tag.
- 5 . Set Sub Display Function to Q tag.
- $\boldsymbol{6}$. Set U tag on the screen to which a sub screen (L tag) is called.

(2) Settings on Alarm Editor

A screen number of sub display can be set in Sub Display Screen No. of Alarm Editor.

							★			
	Bit	Address	Group	No.	\square	Sub	Display	22	tate	Mess
1	X0100		Û			10		07		Alacml
2	X0101		û			11		07		Alacm2
			•					-		



(3) L tag Settings

• When using L tag with Sub Display, [Active Window]->[Library Display], make the following settings. For L tag, create a new screen separately from the screen of sub display (the screen where Q tag is placed) and then place it.



Help



Set the registration number of the window in which L tag has been registered.

OK

8 - 44

Cancel

(6) U tag Settings

• When using U tag with Sub Display, [Active Window] -> [Library Display], make the following settings. And it will be fine wherever you place the set U tag on the screen.

	(1)
The word address must be the same as the Word Address 2 set in Sub Display of Q tag.	U Tag Setting
Select [Indirect] for Designated Window.	2 Indirect BCD 3
Select [Bin] for Data Format.	OK Cancel Help

Sub-display using Active Window and Text Display

(1) Flow of Sub Display Settings (Active Window ->Text Display)

- 1 . Create a sub screen (a text screen) for each alarm message.
- 2 . Register a sub display screen no. of each message via Alarm Editor.
- ${\bf 4}~$. Set X tag on a new base screen.
- 5 . Register the created X tag.
- **3** . Set Sub Display Function to Q tag.
- 6 . Set U tag on the screen to which the sub screen (X tag) is called.

(2) Create a sub screen (text screen)

Create a screen for sub display via Text Screen.

Open [Editor] and select [Text Screen] from [New].

Create a text (sentences) of sub display.







OtasukeGP!



(4) X tag Settings

• When using X tag with Sub Display, [Active Window]-> [Text Display], make the following settings.

	(1) (4)
Select [Word] for Mode.	X Tag Setting General Info. More Size/Style Display Angle
The text screen word address must be the same as the word address set in Sub Display of Q tag.	Bit ● Word Text Screen Display Start Line Word Address ● Direct C Indirect Line No. Data Format ● Bin ● BCD ■ No. of Scroll Lines ■ 1 ●
Select [Bin] for Data Format.	OK Cancel <u>H</u> elp

Select [Direct] for Display Start Line and set [1] for Line No.





Set the number of the screen displayed when selecting the message with the sub display screen no. defined as [0] via Alarm Editor (without the sub screen). Reference: P8-37)

The word address must be the same as the [Word Address] of U tag used for Sub Display.



Set the registration number of the window in which X tag has been registered.

(7) U tag Settings

• When using U tag with Sub Display, [Active Window]->[Text Display], make the following settings. It will be fine wherever on the screen you place the set U tag.

		(1)	
The word address must be the same as the Word Address set in Sub Display of Q tag.		U Tag Setting General Info. Designated Window High Speed Word Address Word Address	Touched Screen To Front
Select [Indirect] for Designated Window.	2-	Designated Window C Direct C Indirect	
Select [Bin] for Data Format.		ОК Са	ancel <u>H</u> elp



Let's display Sub Screen.

Let's display Alarm Summary using Q tag.

The way to create Alarm Summary Display Extended Function (Q tag) in order to display Alarm Summary will be described. Here, the initial remedy method for Alarm will be carried out with Sub Display of X tag. The explanation will go in the order of message registration on Alarm Editor, Q tag Setting, and X tag Setting.

Flow of Sub Display Function Settings

- 1 . Create a sub screen(X1 to X17) for each alarm message.
- 2 . Register a sub display screen number of each alarm on Alarm Editor.
- 3 . Set Sub Display Function to Q tag of B11.
- 4 . Create a window screen to display a detailed screen.(B 303 : X Settings, Window Registration)
- 5 . Set U tag to call the window screen on B11.

(1) Create a sub screen. Open Text Screen.

• Set Sub Display using [Text Display] of [Active Window] this time. Prepare the sub screen via Text Screen.

Click the New icon, select [Text Screen], and click [OK].





(2) Enter [Details] or [Remedies (countermeasure)] in the Text Screen.

Enter the remedy shown in the frame in the text screen.

After entering it, save it as Text Screen [1].



(3) Let's set Sub Display.

Open [Sub Display] of [Q tag Settings] and select [Active Window].

Check [Text Display] of [Mode Settings].

Set [LS30] for the word address (the same address of X tag) and [17] for Erase Screen No..

Set [LS31] for the Word Address (the same address as U tag and [7] for the Window Registration No..

Check [Direct Selection] and [Cursor Display].



(4) Set the display position of the Sub Screen.

After completing the Sub Display Settings, click the [OK] icon, will appear. Place on the position desired to display the Sub Screen. The position where placed overlaps with the upper-left part of the called Sub Screen.

Sort Line Error Log		NAME :	1234	567	HIL: MM
Alara Display Order Char Organeer BasesTam Cumilative Time Best Severase		Star Star End	408	n SW Ta	Error:!! S#
Error Peteils m/d	Trigger /	ck.Recov Time Tim		Currelotiv Time Accumin	

(5) Open the base screen ,[B303].

Special Library Win Option Dra 2 10 🐯 📖 🔍 🔍 ▶ 10 m - 4 in Screen Click the [Open Screen] icon from the tool bar. n Screen OTASUKE GP.pr ect File в 🚺 Select [X tag (Sub)] of B303. Op кŌ Close n Trigger SW Delete 2 X tag [Sub] Clos Click [Open]. reen1 for check reen2 for check Help E Previe Screen Type: Base Screen * L Т

(6) Open X tag Settings to call the text screen. At first, open the base screen, [B303]. A & C D d E F G G H J K k L I M N n P Q R S T t Th Tiw U V v 🐙 Click the [X tag] icon from the tag tool bar. (7) Set [Mode] of X tag. Tag Setting Check [Word] and set [LS30] for Word splay Angle (Word Address and [Bin] for Data Format. BR Text Screen Display Start Line /ord Address Direct 1 Indirect 🛃 LS0000 • 📰 Line No. Data Format Bin BCD No. of Scroll Lines Select [Direct] for Display Start Line and [1] for Line No. Cancel OK. Help (8) Set [Size/Style] of X tag.

Display Lines, and [18] for No. of Display Char.

Set Display Color as you like.

After setting them, click [OK].





(9) Place X tag on the screen. NOT NO. Place X tag on a likely position of the screen. After placing it, save it. Remedy 2145678901214567 (10) Window-register X tag. Option Draw Cbrl+N Cbrl+O Ctrl+S 1 Select [Window Registration] from [Screen] of the menu bar. Alarm Text Table. Ext Click [Add]. 8100 810 810 44 528x204 312x060 360x139 Char.Ke Auto Ru Manual I KG D N 8301 8302 320-083 Error Oc Q tag Al _ __ __ _ Surround the range to register as Window. The registered range is called as Sub Screen. Set [7] for Registration No. and set [Description] as you like. 🗖 Add to List Registration No 4 Description: X tag (Sub) - __ __ __ -No. Screen B100 528x204 Char. Key Auto. Run Manual Ri B10 B10 312x060 360x139 Click [OK]. U4 344x082 320x083 Error Occu Q tag Alar B301 B302 320x080 Help



7.5 CFCard Save Setting

The way to save the alarm data saved in the Back Up SRAM in a CF Card as CSV File will be described here.



How to save the recorded alarm data in a CF Card

- The data displayed via Q tag is saved in GP's SRAM.
 - The way to save the alarm data saved in the SRAM in a CF Card will be described here.



Set [CF Card Operation Settings].



(2) CF Card Operation Settings

In order to save the alarm data in the CF Card, check [Data Storage] and set [Control Word Address].

[Control Word Address] is divided into [Mode] where commands and status are written and [File No.] which designates the number of the file to save.

EX.) Control Word Address: In the case of D100

D 1 0 0	Mode
	File No.

GP Settings Initial Screen Set	ings Extended Settings	Mode Settings Communication Settings
Ford Setting	Ordere Error Display Ordere Error Display Poset GP On Data W One String Data Mode T	No Emu
Kitag Priority (* Standard (* Rie Try	Fort Quality C Standard R High	Backup Settings
Watch Dog		System Area
Word Adde D	000 000	Global Window.
Time In	10.000	Video Settings
	34	Capture Settings
CF Card Operation		Q Tag Settings
T ⁻ Data Storage		Attacula Cartinger
Canival Word Add	. inconstant	FEP Settings
E CECASE	to Change Addans	Extend SIO Settings
Storage Adds	CANGED T	Lanar Code Transfer
C SRAM Autor	unic flacture	TouchPanel Setting
Control Word Add		
	20	

(3) How to save the backup data in the CF Card

In order to save the data saved in SRAM in the CF Card, set the number of the file to save into [File No.] at first and write commands in [Mode]. After this process, the status is written in [Mode] as a result. Details of each command/status are shown in the table below.

Mode	Word Data	Description	
Command	0001h	Filing Data	
	0 0 0 2 h	Logging data	
	0 0 0 3 h	Trend graph data	
	0004h	Sampling data	
	0 0 0 5 h	Alarm active/block-1 data	
	0006h	Alarm history/block-2 data	
	0007h	Alarm log/block-3 data	
	0008h	Block-4 data	
	0009h	Block-5 data	
	0 0 0 A h	Block-6 data	
	0 0 0 B h	Block-7 data	
	000Ch	Block-8 data	
	0 0 2 0 h	Logging loop auto-save start	
	0 0 2 1 h	Logging loop auto-save finish	
Status	0 0 0 0 h	Completed successfully	
	0100h	Write error	
	0200h	Multi Unit not installed/CF Card not inserted/CF Card access switch OFF	
	0300h	No data to be loaded (when no data is specified)	
	0400h	File No. Error	

When saving alarm data, pick up data from 0005h to 000Ch and write the data in the control word address (Mode). After saving it properly, the status, 0000h is written. If saving it is not properly completed, status except 0000h is written.



(4) File Name of the data saved in the CF Card

• Data is saved as the following file names.

Folder	Data to save	File Name
¥file	Filing data	ZF****.BIN
	CSV Transfer Function data	ZR*****.CSV
¥log	Logging data	ZL*****.CSV
¥date	Image screen	ZI*****.BIN
	Sound data	ZO*****.BIN
¥capture	Screen Capture	CP****.JPG
	Video Capture	
¥mrm	GP Back UP data (MRM File)	ZC00001.MRM
¥trend	Trend Graph data	ZT*****.CSV
	Sampling data	ZS*****.CSV
¥alarm	Alarm data	
	Active/Block-1 data	ZA*****.CSV
	History/Block-2 data	ZH*****.CSV
	Log/Block-3 data	ZG*****.CSV
	Block-4 data	Z4*****.CSV
	Block-5 data	Z5*****.CSV
	Block-6 data	Z6*****.CSV
	Block-7 data	Z7*****.CSV
	Block-8 data	Z8*****.CSV



Open the saved alarm data (History), and the following will be displayed.

A	- E -	<u>.</u>	D :	E	F:	0.0	+1
Number of Menadolal	12		1				
Trigger Date 2004/11/10	Tripper Time Man	A Envergencia Sitole	Activity Tree	Recovery Time	No. of our.	Acc title 02052	Level
2004/11/10		C Emergency Shoe				02357	
2004/11/10		A Power Error				02249	
2004/11/10		C Power Error				00000	
2004/11/10		D Fromer Error	14/058	14.40.08		02418	
2004/11/10		el Live Chaged	14 40.00			00414	
2004/11/10		A Enwrgency Stort	142210			02302	
2004/11/10		@ Easet Ermr	17144,10	146.6		02240	
2004/11/10		C Live Clugged	1422.08	140.0		02153	
2004/11/10		A Live Cligged	(The second sec	146.6			
2004/11/10		D Speed Error		1422-05			
2004/11/10		A Power Error		14.6.45			
2004/11/10		A Power Error		1422.00			
2004/11/10		A Former Error		142120		023.49	
2004/11/10		O Live Chaped	1422113			0,0150	
2004/11/10		di Live Chaped	14-40.00			02418	
2004/11/10	142151 Line	A Energency Stop	142210	1422.01	1	00051	
2004/11/10		C Live Chigged	1422-08	142159	i - 11	02150	
2004/11/10	1421.00 Line	O Power Error	16/058	14-6-6		02418	
2004/11/10	1421-00 Live	A Live Cirgad		142138	1	0.0235%	
2004/11/10	1421-48 Line	C Energency Shie		14:6:6	2	02357	
2004/11/10	1421471.24	A Speed Error		1422.00	(I	0.0013	
. 300 1-301							
* #0.240000 /			141		11/1/10/100	日本 日二	1

* The display format at the time of opening the alarm data saved via CSV with Excel is different from the one displayed on the screen of GP.

