Chapter 6

Alarm History Screen

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Alarm History Screen

Instruction

The alarm history screen helps you to improve the line maintenance, the production efficiency, etc. by displaying alarm messages with their triggered and recovered times as a history.

Also you can display the detail contents or countermeasures of alarms in a sub screen. Anyone can recover occurred abnormality easily using this feature.

	Alarm History Screen	11:34:51	
	Line A Line B	Line C	
23	Date Time Message Ack 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Abnormal Speed 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage 82/84 11:34 Line C: Line Blockage	Revr Occur Auto Sed Otv 3 3 3 11:34 3 3 5 1000 11:34 3 3 1000 11:34 3 3 1000 11:34 3 3 1000 11:34 2 11 11 11:34 2 11 11 11:34 2 11 11 11:34 2 11 11 11:34 2 11 11 11:34 2 11 11 11:34 2 11 11 11:34 2 11 11 11:34 2 11 11 11:34 2 11 11 11:34 2 11 11 11:34 2 11 11 11:34 2 11 11 11:34 2 11 11 11:34 2 11 11 11:34 2 11 11 11:34 2 11 11 11:34 2 11 11 11:34 2 11 11	4
	Menu Run Device Operation Si Monitor / Guide	et Value Data Recipe PO Reput Nory Sampline Reput Operation	5

- **1)** Display alarm history in a list. (\rightarrow See page 6-2.)
- **2)** Get data when alarms generate.(\rightarrow See page 6-12.)
- 3) Edit contents of alarm history or changes the display order. (\rightarrow See page 6-15.)
- 4) Display countermeasures if you touch the alarm message. (\rightarrow See page 6-18.)
- **5)** Display active alarms in the banner. (\rightarrow See page 6-27.)

, One Point	
Alarm Occurrence Switches	
If you touch a switch from [Line A] to [Line D], switches for alarm occurrence demonstration above the switch will be displayed. The red switches from 1 to 3 are for history display and the yellow switch, F is for banner message display.	123F



Display Alarm History in List

Instruction

Every time any of addresses registered in a PLC changes, a message is saved with the occurred time in the GP backup SRAM and displayed in an alarm list on the GP screen.

Data in the backup SRAM can be printed out or saved in a memory device.



- 1) **PLC** \rightarrow **SRAM**: Backs up an alarm history to the backup SRAM in the GP.
- **2) SRAM** \rightarrow **Alarm:** Displays data in the backup SRAM on a GP screen.
- **3) Print:** Prints out alarm history data from the GP.
- 4) Save in Memory Device: Backs up an alarm history from the backup SRAM to a memory device.





NOTE

The maximum number of alarms that can be stored in the backup SRAM is 768.

When the number of triggered alarms exceeds the specified number, the oldest alarm will be deleted.

If you keep saving a history for a long term, we recommend you use a memory device.



✓Practice Let's Display Alarm History



[Setup Procedure]

- 1. Open the Alarm settings window.
- 2. Register monitor addresses and messages.
- 3. Select, place and set the Alarm on the base
 - screen "6".

(1) Select Alarm

Click the [Alarm] settings icon on the tool bar.



▲ 🗈 🛱 🐄 🕒 🐠 🖉 📲 🌔

(2) Common Settings

Click the [Common] tab.

1) Alarm Type:

Select Basic.

Block Settings:

Set the display method of an alarm history and the number of records for Block 1 to 8. Here, check [History: Use] and set [Record] to "76" in [Block: Number 1] to [Number 4].

 Do not check the other items, [Backup History], [External Operation], [Print Settings], and [Enable the Group Feature].



In order to have the previous history remain after the power of the display is turned on again, you need to check [Backup History].



(3) Message registration for each block

Select [blocks3].

For [blocks1], [blocks2], and [blocks4], data has been already entered.

_		Common	blocks1 blocks	blocks3	bbcks4 bloci	ks5 blocks6	blocks7 blocks8	Banner		
(1)) (💿 Bit Mor	nitoring 🔵 Wor	d Monitoling				Read Data Fro	om Each A	larm
$\overline{}$			Jump A	uto Allocation	🛄 🗸 History	Log	Active	Addresses	÷	
\bigcirc		Number	Bit Addr	ess	rigger Conditic		Message		Level	Display Screen Nun
9		1								
		2								
		3								
ા	_	4								
		5								

Select an alarm monitoring address, either [Bit Monitoring] or [Word Monitoring].
 Bit Monitoring: When a specified bit address turns on or off, a registered message will be displayed.

Word Monitoring: When a value of a specified word address is equal to an alarm value or out of the range, a registered message will be displayed.

Here, select [Bit Monitoring].

2) Make settings of [Bit Monitoring].

Bit Address: Register monitor bit addresses.

Trigger Condition: Set to trigger an alarm either when the monitor bit address turns on or when it turns off.

Message: Register alarm messages to display.

Level: Select an alarm level for each in the range of 0 to 7.

Sub Display Screen Number: Set the number of screen to display as a sub screen.

* If you do not set a sub display, set "0".

Here, enter [Bit address], [Trigger Condition], [Message], [Level], and [Sub Display Screen Number] as shown below.

Number	Bit Address	rigger Conditic	Message	Level	Display Screen Nun
1	[PLC1]M0236	ON	Line C: Emergency Stop	0	1
2	[PLC1]M0237	ON	Line C: Abnormal Speed	0	2
3	[PLC1]M0238	ON	Line C: Line Blockage	0	3
4					





3) Make settings as below.

Display Format

Block

Display Mode

Display Rows

Display Start Row

Display Row Spacing

Address

History

1

10

3

~

~

2

\$ ⊞

\$ ⊞

Display Block

3

Display Block:Block 1Display Mode:HistoryDisplay Start Row:1Display Rows:10Display Row Spacing:3

[#INTERNAL]USR00020

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I L L

Active:	Only ac The rec	tive alarms	s are displayed. arm is cleared and no history rema	ins.	
e.g.)	Trigg Date	jer Trigg Time	ger Message		
	11/0 ⁻ 11/0 ⁻	1 9:00 1 12:00) The temperature is too hig) Run Time exceeded.	h.	
History:	A newly The tim the san	y triggered the when the ne row.	alarm is displayed in a new row. e alarm is acknowledged or recove	ered is ad	ded onto
e.g.)	Trigge Date	er Trigge Time	er Message	Ack. Time	Recovery Time
	11/01 11/01 11/01	9:00 12:00 14:00	The temperature is too high. Run Time exceeded. Pressure Error	15:30 14:30	16:00 18:00
Log:	An aları recover It is use differer	m is displa red time se ful in case it dates.	yed by the triggered time, acknow eparately in different rows. Is that the triggered and recovered	ledged tii times ar	me, and e on
	Trigger Date	Trigger Time	Message	Ack. Time	Recovery Time
e.g.)			The temperature is too high.		

(6) Item Settings

- Click >>Extended and open the [Extended] settings. 1)
- 2) Here on this tab, yo make each setting s showing/Hiding item Show Item Names, and Display Order.

Check from [Date] u [Occurrences]. Set [Display Charact below. Left Margin: 0 Date: 6

6 Trigger: Message: 20 Acknowledged: Recovery: 6 Occurrences:

u can	Basic Item Color	r Display Sub Di	isplay Switch Curso	or Shape		
uch as	2 Displ	ay Characters	Show Item N	lame	Display Order	>>Basic
IS,	Left Margin	0 🗘 🇮		D T	ate rigger	· ·
	Message Spacing	0 🔅 🔳		M	essage cknowledged	•
	🔽 Date	6 🛟 🏢 🛙	🗹 Date	B	ecovery	
	🔽 Trigger	6 🛟 🏢 🛙	✓ Time		concretes	
	🔽 Message	20 😂 🏢 🛙	🖌 Message			
p to	🗹 Acknowledged	6 🛟 🌉 [Ack			
	Recovery	6 🛟 🌉 [Rcvr	_		
ters] as	Cccurrences	6 😂 🏼 🛙	🗹 Occur	_		
	🔲 Elapsed Time	11 🔅 🏼 [ormat	-3
	Level	7 🔅 🗰 [Date mm/dd	×
	2			× ×	ime 24:00	
	Show-Item-Name Se	ttings				
(💿 Direct Text	🔘 Text T	able		
	Font Type	Standard Font	*	Size	8 x 16 Pixels	✓
	Display Language	ASCII	*	Text Attribut	e Bold	~
6	Display Color	7	Blink None	🗸 Shadow Col	or 🗖 1 🔽 8	Blink None 🗸
	Background Color	E3 🗸	Blink None	~		
5						

Check all of [Show Item Names] and register item names to display as above.

- 3) In [Format], set [Date] to "mm/dd" and [Time] to "24:00".
- 4) In [Show-Item-Name Settings], select [Direct Text] and make settings as below.

Font Type: Standard Font Display Language:ASCII **Display Color:** 7 Background Color:Transparent

Size: Text Attribute: Normal Blink: None

8 x 16 Pixels

(7) Color Settings	Basic Iten Color Display Sub Display Switch Cursor Shape
Set [Display Color], [Background Color], and [Blink] as you like. Set [Clear Color] as you like.	Color Change Color by Level Triggered Trig Acknowledged Ackn Recovered Reco Display Color 7 V Blink None V Background Color 4 Blink None V Clear Color 46 Blink None V

(8) Display Settings

1) Select "Standard Font" for [Font Type] and "8 x 16 Pixels" for [Size].

Select "Border with Horizontal Lines" for [Border].

2) Click [OK] to finish settings.

OK(O)



-	Alarm	h Histor 2 3 ine A	ry Screen		23 Line B	F	1	23 Line C	F	1 2	hhtmitss 3 F e D
0	Date Date	Time Thia	Message Message			Ack Fack	Recov	Occur Decuri			
Ĩ											
							⊨	Ħ			
ľ	_					<u> </u>		<u> </u>			
L											Ð
	Menu	Ru Sta	in Dev Ite Mon	rice	Operatio / Guide	n Set	Value	Alarm	Data Sampling	Recipe Input	Remote PC Operation



6-10



^{6- 11}



Read Data when Alarms Occur

Instruction

When a bit address to be monitored turns on/off, or an alarm is written in a word address to be monitored, data will be read according to the states of the triggered, acknowledged or recovered alarms.

Analyzing data values shortens the time to find a cause of the triggered alarm.



Data will be displayed according to the triggered, acknowledged, or recovered time of the active alarm.

Procedures of Setup

2007/5/31

- 1) Register addresses to read data value when alarms occur in the alarm settings.
- 2) Make settings to display data by reading with the alarm parts.



7

65

31

10:32:57 Freezer Fan Erro

1)

2)

3)

4)

- 📟

Cancel

Practice Let's Read Data when Alarms Occur [Setup Procedure] Let's display the alarm detail, 1. Open the Alarm settings window. the triggered time, and the data 2. Set number of addresses to read data to and which causes an alarm addresses. when a bit address to be monitored is on! 3. Set items of [Alarm]. (1) Select Alarm Settings Click the [Alarm] settings icon on the tool 🛃 🛃 📆 🖛 🧞 🕔 ka 🕦 😭 🖈 . bar. (2) Set Block 3 Select Block3 and check [Read 🔽 Bead Data From Each Alarm Data From Each Alarm]. Number of Address 1: Use same address Addresses Address 2: Use same address Set [Number of Addresses] to "3". Check [Use same address] for all of the addresses from Address 1 to Address 3. Address1 Doing so reads data using the 4 same addresses when alarms occur, regardless of the messages. Click the _____ icon of [Address 1] to open 🛸 Address the [Address] settings dialog box. 🖲 Bit O Word Туре [PLC1]M0115 Address Select "Bit" for [Type] and set [Address] to "M115" and click [OK] to close the window. 🔿 32 Bit 🖸 16 Bit Bit Length Dec -🔲 Sign +/-Data Type In the same way, set addresses as below. Round Off Data Display Style [Address 2] Type: Word, Address: D57 Total Display Digits Decimal Places [Address 3] Type: Word, Address: D302 0 5 × # 🔿 Align Left 🖸 Align Right 🛛 🔽 Zero Suppress Preview OK (<u>O</u>) 6-13

(3) Item Settings

1) Open the base screen "6" and double-click the placed alarm. Select the [Item] tab.

	1				
	Basic Item Color	r 🗍 Display 🗍 Sub Dis	splay Switch Cursor Shape		
	Displ	ay Characters	Show Item Name		Display Order >>Basic
	Left Margin	0 🗦 🏢		^	Date A
	🔽 Date	6 📑 🏢	Date		Message Acknowledged
	🔽 Trigger	6 🕂 🏢	▼ _{Time}		Recovery Coccurences
	🔽 Message	20 📑 🏢	Message	Ξ	Address1 Address2
	🔽 Acknowledged	6 🗦 🏢	Ack		Address3
	Recovery	6 🗦 🏼	Revr		
	Cccurrences	6 🗦 🇮	✓ Occur		Scroll to view addresses set up
	C Accumulate	11 📑 🔳			below the separator.
	🗆 Level	7 🕂	[]		Format
(2)	Address	6 📑 🏭	\supset	~	Date mm/dd ▲
\sim	<		>		11116 24.00

2) Check [Address] and set [Display Characters] to "6".

Check from [Address 1] to [Address 3] and set the item names as follows.

Address 1: Address 2: Address 3:	Auto Spd Qty	Address Address1 Address2 Address3	6		to d y		
Separator When you set the Display Or the items abov	[Address], rder field. C ve the sepa	a "separator" appea on the GP, you can arator without scrolli	ars in display ng.		Display Order Date Trigger Message Acknowledged Recovery Occurences Address1 Address2 Address3 separator Address4	>>Ba	sic Click!
Date 2007/5/31 2007/5/31 2007/5/31 2007/5/31	Time 10:02:00 10:03:01 10:12:18 10:32:57	Error Heater Error A/C Overheat Heater Error Freezer Fan Error	Press. 20 10 10 7	Temp. 800 120 80 65	Flow Rate 49 43 22 31	Power s 199 200 201 200	50 50 48 48 49
							►



(3) Copy switches

Open the [Switch] tab of Alarm, and you'll be able to create a switch (with alarm

options).

1

Date	Time	Message		Ack	Rovr	Occur	Aut <u>o</u> ,	Spd	Qty	
Date	Tria	Message		Ack	Recov	Occurr	Addre	sAddr	esAddres	
Strt	End	Ack	Clr			Sort Dade	So Nu		Rvrs	
			-3-	-4)		-(5)-	— (6			

Create [Alarm History Switch] after the 1st one in the figure above.

<operation></operation>	<detailed operation=""></detailed>	<label></label>
1) End		End
2) Acknowledged	Acknowledged	Ack
3) Clear	Clear	Clr
4) Clear	Clear All	Clr All
5) Sort	In Reverse Order of Trigger Date	Sort Date
6) Sort	In Order of Number of Occurrences	Sort Num
7) Sort	Reverse Order Display	Rvrs
8) Move	Upward	(triangle)
9) Move	Downward	(inverted triangle)



AD_0000 🚍	here a sold a	Select Switch	No. 1	
Connert	PISME .	Stat		
0	ind 만 End	1-8.0 1.44	E Freeze Mode	
680	kokruwledged	Fort Type	Standard Fort	
	Ack Al	Display Language	ASCI	
Labor Dama	dove	TertColor		
Peero Profe	More Upwad	Libe	TANT	
	Scolute			
	Scool Down	Statute Color		
	Dee			
	Des			
	Clear Recovered Alars			
	Dear All Recovered Alaree			
-	Cine Acknowledged Alem			
Alam Registration	Case A8 Actinovelotged Alams			
	Clear Individual Number of Discover M			



Alarm History Switch

Alarm History Switch: Types and Actions

Types of Switches		Description
Start		If you touch [Start], a cursor will appear to operate the history. When the Freeze Mode is set, it suspends the currently displayed alarms by touching [Start] twice and prohibits the screen display from refreshing even when an alarm occurs, is acknowledged, or is recovered. To cancel the Freeze Mode, touch [End]. When you cancel it, the stored alarms will be all refreshed and displayed at one time.
End		If you touch [End], the cursor will disappear and the key operation will be terminated.
Acknow	Acknowledge	Shows the acknowledged time in the selected message.
ledge	Acknowledge All	Shows the acknowledged times in all of the displayed messages.
	Move Upward	Moves the cursor one row up.
Μογο	Move Downward	Moves the cursor one row down.
wove	Scroll Up	Moves the cursor up by a given number of rows.
	Scroll Down	Moves the cursor down by a given number of rows.
	Clear	Erases the selected message.
	Clear All	Erases all the displayed messages.
	Clear Recovery Alarm	Erases the selected alarm, which has been recovered.
	Clear All Recovery Alarms	Erases all the recovered alarms.
	Clear Acknowledged Alarm	Erases the selected alarm which has been acknowledged.
Clear	Clear All Acknowledged Alarm	Erases all the acknowledged alarms.
	Clear Individual Number of Occurrences	Clears the number of occurrences of the selected message.
	Clear All Number of Occurrences	Clears all the numbers of occurrences of the displayed messages.
	Clear Individual Accumulated Time	Clears the accumulate time of the selected message.
	Clear All Accumulated Time	Clears all the accumulate times of the displayed messages.
	In Reverse Order of Trigger Date	Displays alarm messages in order of latest occurrence.
	In Number of Occurrences Order	Displays alarm messages in descending order of occurrence frequency.
	In Descending Order of Accumulated Time	Displays alarm messages in descending order of accumulated time.
Sort	Level & In Reverse Order of Trigger Date	Displays alarm messages in descending order of level. If multiple messages with the same level exist, they will be displayed in order of latest occurrence.
	Level & In Descending Order of Number of Occurrences	Displays alarm messages in descending order of level. If multiple messages with the same level exist, they will be displayed in descending order of occurrence frequency.
	Alarm Registration Order	Displays alarm messages in order of registration.
	Reverse Order	Displays alarm messages in reverse order of the current sorting.
	Sub Display	Displays a sub screen of the selected message.
Alarn	Number Acquisition	Obtains the alarm message number (the row number registered in [Alarm]) of the message at the current cursor position.

6-17



Display Details/Countermeasures of Each Alarm

Instruction

2)

To display details or countermeasures of each alarm message, use the "Sub Display" feature. Touching a displayed alarm message directly displays a sub screen.

Example of Sub Display

1) Touch a displayed alarm message directly.

A sub screen corresponding to the

selected alarm message will appear.

١

ntering the extended	Basic Item Color Display	Sub Display Switch Curs	or Shape
ettings screen allows you to reate a sub window	Enable the Sub Display		
displaying images, movies, etc.	Sub Display Type	Base Screens	*
For details, see GP-Pro FX	Mode	Screen Change	*
Reference Manual		Screens of Type: Bas	e Screens
Chapter 27 Recording and Play	ying Video		



Practice Let's Display Details of Each Alarm Message [Setup Procedure] Let's display details by touching 1. Create a Sub Display screen. each alarm message directly! 2. Register the Sub Display Screen Number. 3. Make the Sub Display settings of Alarm. (1) Create Sub Screen On the [Common Settings] menu, Alarm (A) 63 select [Text Registration]. Sampling (0) ۵. Slow down the line speed to 10 on Set Value Input Screen Recipe (R) Or click the [Text Registration] ver Ab; Counterman ecurity 😡 Live Block age Course Reduce Operation Level to 0 before adjusting motor revolutions. icon on the tool bar. Operation Log Settings (G) geny Stop Court Time Schedule ④ Sound 🕑 Text Table (S) Global D-Script @ Extended Script (E) Change Backlight Color (B) Text Registration (1)

 In this practice project file, comments are registered as texts beforehand.

(2) Set Sub Display Screen Number 1) Select the [Alarm] settings icon on the tool bar. (2) Set Sub Display Screen Number

 Register [Sub Display Screen Number] for each alarm message as shown right.

Number	Bit Address	rigger Conditic	Message	Level	Sub Display Screen Number
1	[PLC1]M0236	ON	Line C: Emergency Stop	0	1
2	[PLC1]M0237	ON	Line C: Abnormal Speed	0	2
3	[PLC1]M0238	ON	Line C: Line Blockage	0	3
4					\bigcirc

(3) Sub	Display	Settings
---------	---------	----------

Open the base screen "6". Double-click the placed alarm.

 Check [Enable the Sub Display]. Select "Show Text Window" for [Sub Display Type] and "Small" for [Window Size].

\frown		
Sub Display S	vitch Cursor Shape	
Show Text Wi	indow 👤	<u>>>Extended</u>
C Large	Small	
xt, the number o : be within 10.	f characters in a row	•
	Sub Display S Show Text W C Large At, the number of be within 10.	Show Text Window

The maximum number of characters that can be displayed in a row is as follows.

- Window Size Large:within 30
- Window Size Small: within 20
- 2) Adjust the window position on the base screen after clicking [OK].

If you so located You car mark af	et the Sub Display, a sub screen will be sho on the upper left of the Alarm part. In change the display position of the sub scre ter selecting the Alarm part.	own on the position setting mark een by moving the position setting
	Alarm History Screen	11:35:46
	Date Time Message Ack Rcvr Occu 02/04 11:26 Line A: Abnormal Speed 11:26 02/04 11:26 Line Blockage 1 02/04 11:26 Line A: Emergency Stop 1	Auto pd Qtv Slow down the line speed and remove obstacles. If works are stuck, stop the operation completely. Start the operation after removing the work behind
	Strt End Ack Cir Cir Dad	



Save SRAM Data in CF Card

Instruction

Backing up data in the SRAM to a CF card or a USB storage enables you to save large volumes of data for a long term. As the data are saved in the CSV format, it is possible to edit the data using spreadsheet software on your computer easily.



(1) Select Memory Card Settings

- 1) Open the System Settings window in the Work Space.
- 2) Click [Display Unit].
- 3) Select the [Mode] tab.
- 4) Check [Save Data] in the [Memory Card Settings] area and specify [Control Word Address].

Project (D) Edit (D) View (V) Common	Settings @ Screen © Help @					
System >> 🥁 Edit >>	Na Preview Name Simulation No 💕 Transfer 🔊 🔽	🕰 Preview 😕 🧊 Bimulation 😕 🚅 Transfer 😕 🧊 Monitor				
	▲ 本 法 金 應 Hí × ♥ 100%					
System Settings 🗧 🛪	Display Unit					
Display	Series GP3000 Series					
Dittelay	Direntation (3)					
2 Display Unit	Display Unit					
Logic Programs	Display Operation Mode Logic System Area Extended Settings Remote	e Viewer				
<u>Video/Movie</u>	Window Setting:	Backup Internal Device				
East	Global Window Operation Disable	IT Backup				
Peripheral Settings		Dackup Start Address				
Peripheral List		Backup Area Size 1 芸				
Device/PLC						
Printer						
Input Equipment Settings	Screen Capture Settings	Memory Card Settings				
Script1/O Settings	Capture Action	🖙 Save Data				
I/D Driver	Capture Action	Save in . IF Card . ⊂ USB Storage				
ETP Server	Save in IF CF Card C USB Storage C FTP Server	Control Word Address [PLC1]D00150				
Modem	Control Word Address	CF Card Free Space				
Video Modules	Reverse Black/White	Free Space Storage Address				
	Screen/Video Capture Settings	USB Storage Free Space				
	Auto Increment File Number	Free Space Storage Address				
	Auto Delete File	SRAM Auto Backup				
	Loop	Control Word Address				
2						
	Capture Image Quality					
	N					

NOTE

(

The way to save sampling data is different from the way introduced above. (See page 6-25)



Data will be saved as a file "Z100555.CSV" in the Alarm folder in the CF card.

Spreadsheet Display Example

	A	В	С	D	Е	F	G	Н
1	Number of Message(s)	9						
2								
3	Trigger Date	Trigger Tim	Message(s)	Acknowled	Recovery ⁻	No. of occ.	Acc. time	Level
4	2005/12/12	12:14:57	LineB Power Error			1	0:00:00	2
5	2005/12/12	12:14:53	LineC Power Error		12:14:53	3	0:01:34	1
6	2005/12/12	12:14:51	LineD Power Error			2	0:00:56	0
7	2005/12/12	12:14:50	LineD Line Clogged			1	0:00:00	0
8	2005/12/12	12:14:49	LineA Power Error			3	0:01:16	3

The contents in CSV files can be displayed on a GP screen.

(3) Command and Status

If "Command" is written in Control Word Address, "Status" will be reflected.

	Data	Description	
Command	0001h	Filing Data	
	0002h	GP-PRO/PB III (compatible)	
	0003h	GP-PRO/PB III (compatible)	
	0004h	GP-PRO/PB III (compatible)	
	0005h	Data of Alarm History Block 1	L
	0006h	Data of Alarm History Block 2	In this practice screen, while on and save data of Alarm History
	0007h	Data of Alarm History Block 3	Block 1 in the SRAM into a CF
	0008h	Data of Alarm History Block 4	card.
	0009h	Data of Alarm History Block 5	
	000Ah	Data of Alarm History Block 6	
	000Bh	Data of Alarm History Block 7	
	000Ch	Data of Alarm History Block 8	
	0020h	GP-PRO/PB III (compatible)	
	0021h	GP-PRO/PB III (compatible)	
Status	0000h	Completed Successfully	
	0100h	Write Error	
	0200h	CF card is not inserted or cannot access	
	0300h	No data to be loaded	
	0400h	File Number Error	

(4) Alarm History Data Folder and File Name

Names of a folder and files in which alarm history data are written are listed below. These folder and files are created in a CF card.

Folder Name	Data to be saved	File Name
∖ALARM	Block 1 Data	Z1*****.CSV
	Block 2 Data	Z2*****.CSV
	Block 3 Data	Z3*****.CSV
	Block 4 Data	Z4*****.CSV
	Block 5 Data	Z5*****.CSV
	Block 6 Data	Z6*****.CSV
	Block 7 Data	Z7****.CSV
	Block 7 Data	Z8*****.CSV

Other types of folders also can be created in a CF card. Please see GP-Pro EX Reference Manual for details.

IP.CIDOR

Data Ditplay Column

P CWCarristed ad

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-1

1 2

(5) Save Sampling Data in CF Card

Set an address to save sampling data in a CF card in the setting window introduced below.

* See Chapter 7 for details of Sampling Data.

On the [Display/Save in CSV] tab of the sampling group, check [CSV Control Word Address] and set it.

Write "Command" in Control Word Address as "Save Data in CF Card", which you have set in the system settings window. "Status" will be overwritten as a result.

"Control Word Address +1" will be the address to specify the file number in a CF card automatically.

e.g.) CSV Control Word Address: D160

CSV Control Word Address



or Managerial Planet

Use Tamping Address

Name Planzortal/Test

Digilar Column

(6) Command and Status of Sampling Data

	Data	Description	
Command	0001h	Normal Save	
	0020h	Auto-Save Start	In this pr
	0021h	Auto-Save Completion	"20h" an
Status	0000h	Completed Successfully	in the SF
	0100h	Write Error	automati
	0200h	No CF card inserted or inaccessible	
	0300h	No data to be loaded	
	0400h	File Number Error	
	2000h	During Auto-Save	

+1

In this practice screen, write "20h" and save sampling data in the SRAM into a CF card automatically.

(7) Sampling Data Folder and File Name

Folder Name	File Name
SAMP01~SAMP64	SA*****.CSV

Data are stored in separate folders from SAMP1 to SAMP64 by sampling groups.

NOTE

Please be sure to use a different control word address from the one for "Save Data in CF Card" in the System settings. If you use the same address, the program may not perform normally.





Display Banner Message

Instruction

To display active alarms as banner messages, enable "Banner" in the Alarm settings. Only registering monitor bit addresses and messages enables you to display banner messages on all screens.



Procedures of Setup

 On the [Common Settings] menu, select [Alarm]. Or click the [Alarm] settings icon on the tool bar.





Common Settings (<u>R</u>) <mark>Screen (S</mark>)







Enable Banner

3) Register monitor bit addresses and messages.

Tertin		First Fat Sh
Exchigon Color	ed 🔳 🗉 Bad	Time +
Number	BR Address	Message
1	PLCI3HOISO	Line At Exceptory Stop
2	(FLC1)M0151	Loss St. Discourses High
3	IPLC1940152	Line D Encipency Stop
4	(PLC1)M0153	Line It Eastpricy Stop



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Enable Summary

Enable Banner

	Common b	olocks1 blocks2 blocks3	blocks4 blocks5 blocks6 blocks7	' blocks8 Banner	
	Text Color	🗔 7 🛛 🖌 Blink	None 💌 Font	Standard Font 💌 Size 16	x 16 💌
4	Background Color	Blink 🔽 🖬	None 🔽	Jump <u>Auto Allocation</u>	
	Number	Bit Address	Message	Print at Trigger Time	Print at Recovery Time
	1				
	2				
(5)	3				
\sim	4				
	5				

- Set [Text Color], [Font], [Size], and [Background Color]. If you set [Blink], you can blink each color.
- 5) Set bit addresses to be monitored in [Bit Address] and messages to be displayed in [Message]. If [Print at Trigger Time] and [Print at Recovery Time] are set to ON and a printer is connected to the GP display, messages will be printed out at each status.

Here, set [Bit Address], [Message], [[Print at Trigger Time] and [Print at Recovery Time] as above.

Number	Bit Address	Message	Print at Trigger Time
1	[PLC1]M0242	Line A Abnormal generation	OFF
2	[PLC1]M0243	Line B Abnormal generation	OFF
3	[PLC1]M0244	Line C Abnormal generation	OFF
4	[PLC1]M0245	Line D Abnormal generation	OFF
_			



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P	erformance Check
1 2	Alarm History Screen 1 2 5 Line A Line B Line C Line D Date Time Message Ack Row Occur Auto Sed Otv 1 2 X2/24 11:34 Line C: Line Blockage 3 1 3 X2/24 11:34 Line C: Line Blockage 1 1 4 3 X2/24 11:34 Line C: Line Blockage 1 1 4 3 3 X2/24 11:34 Line C: Line Blockage 11:34 3 2 2 1 1 4 3 3 X2/24 11:34 Line C: Abnormal Speed 11:34 3 2 1 1 1 6 3 X2/24 11:34 Line C: Emergency Stop 11:34 1 1 1 3 3 X2/24 11:34 Line C: Emergency Stop 11:34 1 1 1 1 3 3 X2/26 11:34 1 1 1 1 1 1 1 1 3 3 X2/26 11:34 1 1 1 1 1 1<
1)	Touch the alarm occurrence switch and check the alarm history
2)	Check performances of alarm message operation switches.
3)	Touch the alarm message and check if the sub screen is displayed.
A \	Touch the banner message switch and check if the banner

