## Chapter 7 Alarm History Screen

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# 7. 1

### Alarm History Screen



#### What's the Alarm History Screen?

Displaying the history of the alarm messages with Triggered and/or Recovery Time on the screen can be useful for security of the assembly line and improvement of productivity. Also, each alarm's details or remedies can be shown on a sub-screen, so any operator can easily perform the Recovery Work.



The alarm history is displayed in a list.

Touch a message, and its remedy/information will be displayed.

Displayed details of the alarm history can be edited and the display order can be changed.



### Z Alarm History Display



#### How to display the alarm history in a list

Every time the registered PLC's address changes, the message and its time stamp is saved in GP's internal backup SRAM and displayed in a list.

The data in the backup SRAM can be printed and/or saved into the CF Card.



**PLC->SRAM:** The alarm history is recorded in the GP's internal backup SRAM.

SRAM->Alarm: The data in the backup SRAM is displayed on the screen.

**Print :** The data of the alarm history is printed from the GP.

Save CF Card: The alarm history is saved from the backup SRAM to the CF Card.



	Alam Settings		T Exale Text Table	Language ASDI	2
	Connet Settings Rick 1 (Rock 2)	Stock 2   Buck 4   Buck 5   Buck 6   Block 7   Bi	us A Barrer   Sutman		
	Arty Auto Martine	ti √Hinty Lig Adve			
	No BLADDON	age Condec Message	Level	Sabute	Scentia.
	2 PLC1940231	ON Linek Power Error	1		
	4 PLC1H0230	CN Line& Eargency Stop	3	4	
	6 PLCTM025	CN Lines Power front	2	2	
	7 PLCIMO2K 8 PLCIMO27	ON lineS line Clopped ON lineS Easymmery Stop	2	1	
	8 PLC1M028 10 PLC1M028	Di Linef Speak Enne Di Linef Power Enno	1	2	
	11 PLC1M0340 12 PLC1M0341	DN LineC Line Clapped DN LineC Recovery from	1	3	
	13 PLC194042	DN likeb Speel Error	0		
	B PLCINON	CN LineD Line Clagges	0		
	10 PLCMQ15	in lineb Bargenry Stop			
			- mett	-	96 J
		_			
Save the project and	d transfer it to the G	Р.	_		

#### **Important notes**

The maximum number of messages that can be recorded in the backup SRAM is 768. Beyond that number, the data is deleted, with the oldest data being overwritten first. To save long term history, use the CF Card.





Let's register each line's alarm message and display the history of the alarms.

#### [Setup Flow]

- 1 . Open the Alarm Settings.
- 2 . Register the monitored addresses and the messages.
- 3 . Select, place, and configure an Alarm on the base screen [7].

Open the base screen [7].

#### [For Exercise]



#### (1) Selecting the Alarm Settings

Select the [Alarm Settings] from the Tool Bar.



#### (2) Common Settings



#### Backup History:

Set whether or not to retain the history after the GP's power is turned off, then on again.

iluck Sefangs							
Data Site	- H	istory .		.10	1.1	Active	M Backup History
Block	Use	Records	Use	Records	Use	Records	Aliem Continuous Action at Power EN
No.1	12	落					
No 2			8				Display as a new Alam * Hide Continuing Alams
No.3	0		0		0		
No.4	0		0		.0		External Operation
No.5	.0.		0		.0		
No.6			8				Control Wood Address Co
No.7	0		0		.0		Concession Red Address
No.8	0		0		0		
First Setings			_		_		T Englishe for Group leafure
e Hartin	96	0.14	6.75P		- Pie	(frient)	No. of Alams Wite Stat Address
CONTRACTOR OF STATE	laris .	-				100	(Prienal Device Ward Address)
COL TOWNER		-				1.00	
Completion Bit.	Adden					- 60	
_	-		-		-	_	

#### [Completed]







#### (3) Setting of Block 1's Bit Monitoring

Select [Block 1].

	Common !	Settings Block 1 Block	< 2 Block 3	Block 4 Block 5 Block 6 Block	k 7   Block 8	3 Banner Summary
	Bit Mor	nitoring C Word Mor	nitoring			
		Jump <u>Auto Allotn</u>	nent	✔ History Log Active		
	No.	Bit Address	rigger Conditic	Message	Level	Sub Display Screen No.
	1	[PLC1]M0230	ON	LineA Speed Error	3	1
	2	[PLC1]M0231	ON	LineA Power Error	3	2
	3	[PLC1]M0232	ON	LineA Line Clogged	3	3
	4	[PLC1]M0233	ON	LineA Emergency Stop	3	4
$\sim$	5	[PLC1]M0234	ON	LineB Speed Error	2	1
(2)	6	[PLC1]M0235	ON	LineB Power Error	2	2
	7	[PLC1]M0236	ON	LineB Line Clogged	2	3
	8	[PLC1]M0237	ON	LineB Emergency Stop	2	4
	9	[PLC1]M0238	ON	LineC Speed Error	1	1
	10	[PLC1]M0239	ON	LineC Power Error	1	2
	11	[PLC1]M0240	ON	LineC Line Clogged	1	3
	12	[PLC1]M0241	ON	LineC Emergency Stop	1	4
	13	[PLC1]M0242	ON	LineD Speed Error	0	0
	14	[PLC1]M0243	ON	LineD Power Error	0	0
	15	[PLC1]M0244	ON	LineD Line Clogged	0	0
	16	[PLC1]M0245	ON	LineD Emergency Stop	0	0

Select the monitored address type for the alarms from [Bit Monitoring]/[Word Monitoring].

Bit Monitoring: If the designated bit address turns ON or OFF, the registered message will be displayed.

**Word Monitoring:** If the designated word address's data is equal to the alarm value or out of the range, the registered message will be displayed.

Here, select [Bit Monitoring].

Here are the configuration details of [Bit Monitoring]. **Bit Address:** Register the bit address to be monitored.

**Trigger Condition:** Set whether the alarm is triggered when the monitored bit address turns ON or turns OFF.

Message: Register the alarm message to be displayed.

Level: Set each alarm's level in the range from 0 to 7.

Sub Display Screen No.: Set the number of the screen to be displayed as a sub screen.

\*When displaying no sub screen, set [0].

Here, enter the data in [Bit Address], [Trigger Condition], [Message], [Level], and [Sub Display Screen No.] as shown in the image above.





L

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1

L

[Active]:	Only display A	ys messag fter recov	ges for cu vered, the	urrently occ e message d	urring alarms.	istory doe	s not remair
	E	х.) Т	rigger	Trigger		2	
			ate	Time	Message		
			11/01 11/01	9:00 12:00	The temperatu Run Time exce	re is too eded.	high.
[Histow]	l. Evenu time	an alar	triggors	a now line	is started and the n	necente di	enlave
[mstory]	When they	e an alarm occur, Ac	cknowled	, a new line lge and Rec	overy Times will be	e added to	sprays. the same line
	When the a	larm reco	overs, the	message re	mains visible.		
Ex)	Trigge	r Trig	ger			Ack.	Recover
	Date	Time	e M	essage		Time	Time
	Date 11/01 11/01	9:00	≗ M 0 Th 0 Ru	lessage e tempera In Time ex	ture is too high.	Time 15:30	Time 16:00
	Date 11/01 11/01 11/01	9:00 12:00 14:00	● M 0 Th 0 Ru 0 Pr	lessage e tempera In Time ex essure Eri	ture is too high. ceeded. or	Time 15:30 14:30	Time 16:00 18:00
[Log]: Ev and its mover a ch Ex.)	Date 11/01 11/01 11/01 very time an essage is disj ange of date. Trigger Date	Time 9:00 12:00 14:00 alarm is t played. I Trigget Time	Mes Mes	e tempera in Time ex essure Err , recovered, nore accura	ture is too high. ceeded. for or acknowledged, te date and time for	Time 15:30 14:30 a new line a anew line c alarms the Ack. Time	Time 16:00 18:00 e is started hat occur Recover Time
[ <b>Log]:</b> Ev and its ma over a ch Ex.)	Date 11/01 11/01 11/01 very time an essage is disp ange of date. Trigger Date 11/01	Time 9:00 12:00 14:00 alarm is t played. I Trigget Time 9:00	Me M D Th D Ru D Pr triggered t shows r r Mes The 1	e tempera e tempera in Time ex essure Err , recovered, nore accura	ture is too high. ceeded. or or acknowledged, te date and time for	Time 15:30 14:30 a new line c alarms the Ack. Time	Time 16:00 18:00 e is started nat occur Recover Time
[ <b>Log]:</b> Ev and its mover a ch Ex.)	Date 11/01 11/01 11/01 very time an essage is disp ange of date. Trigger Date 11/01 11/01 11/01	Time 9:00 12:00 14:00 alarm is t played. I Triggen Time 9:00 12:00 14:00	Mes M The Run Run Pres	e tempera e tempera in Time ex essure Err , recovered, nore accura ssage temperatu Time exce	ture is too high. ceeded. or or acknowledged, te date and time for re is too high. eeded.	Time 15:30 14:30 a new line a alarms the Ack. Time	Time 16:00 18:00 e is started hat occur Recover Time
[ <b>Log]:</b> Evand its mover a ch	Date 11/01 11/01 11/01 very time an essage is disj ange of date. Trigger Date 11/01 11/01 11/01 11/01	Time 9:00 12:00 14:00 alarm is t played. I Trigget Time 9:00 12:00 14:00	Mes Mes The The Run Pres Pres	e tempera e tempera in Time ex essure Err , recovered, nore accura sage temperatu Time exce sure Erro sure Erro	ture is too high. ceeded. or or acknowledged, te date and time for re is too high. eeded. r	Time 15:30 14:30 a new line c alarms th Ack. Time 14:30	Time 16:00 18:00 e is started hat occur Recover Time
[ <b>Log]:</b> Ev and its mover a ch Ex.)	Date 11/01 11/01 11/01 very time an essage is disj ange of date. Trigger Date 11/01 11/01 11/01 11/01 11/01 11/01 11/01	Time 9:00 12:00 14:00 alarm is t played. I Trigget Time 9:00 12:00 14:00	Mes Mes The 1 Run Pres Pres The 1 The 1	e tempera e tempera in Time ex essure Err , recovered, nore accura sage temperatu Time exce sure Erro sure Erro temperatu	ture is too high. ceeded. for or acknowledged, te date and time for te date and time for re is too high. eded. r	Time 15:30 14:30 a new line a new line new line new line a new line new line new line ne	Time 16:00 18:00 e is started at occur Recover Time

\* When using multiple blocks, the display modes can be divided for each block. For example, it's possible to set [Active] that does not record History for the low importance line and [Log] that keeps History for the high importance line.

#### (6) Item Settings

Click [Basic] and change it to [Detail].

Here, set display/non-display of items, display/register of item names, and display order.

Check all items from [Date and Time] to [Level].

Make the following settings for [No. of Display Char.]

[Date and Time]: 6 [Trigger]: 6 [Message]: 20 [Acknowledge]: 6 [Recovery]: 6 [No. of Times]: 6 [Accumulate]: 11 [Level]: 5 [Left Margin]: 1

Basic Settings Item S	Settings Color Settings	Display Settings   Sub [	Display Settings   Switch	
<ul> <li>Date and Time</li> <li>Trigger</li> <li>Message</li> <li>Acknowledge</li> <li>Recovery</li> <li>No. of Times</li> <li>Accumulate</li> <li>Level</li> <li>Left Margin</li> </ul>	No. of Display Char.         Image: Char.           6         4         Image: Char.           6         4         Image: Char.           20         4         Image: Char.           6         4         Image: Char.           6         4         Image: Char.           6         4         Image: Char.           6         4         Image: Char.           11         4         Image: Char.           5         4         Image: Char.           1         4         Image: Char.	Show Item Name Data Trig Message Ack Recov Times Accumulate Level	Display Order Date Trig Message Ack Recov Times Accumulate Level	UP DOWN
Format Date Time Show-Item-Name Se Font Type Display Language Display Color	Month/Day 24:00 © Direct Text Standard Font ASCII 0 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	C Text Table Size Text Attribute Bink None	x 16 dot 🔽	

Check all of [Show Item Name] and register the item names to be displayed as shown above.

2

For [Format], set [Month/Day] for [Date] and [24:00] for [Time].

For [Show Item Names Settings], select [Direct Text], [Standard Font] for [Font Type], [8x16 dot] for [Size], [ASCII] for [Display Language], [Bold] for [Text Attribute], [Black:0] for [Display Color], and [None] for [Blink].

#### (7) Color Settings

Check [Change Color by Level] and select [State + Level].

Set [Display Color], [Background Color], and [Blink] as you like for each combination of State + Level.

Set the color you like for [Clear Color].

olor Settings									
🔽 Chang	e Color by	Level	State + Lo	evel	*				
Level	0	1	2	3	4	5	6	7	
Trigger	0	1	2	3	4	5	6	7	
cknowledge	0	1	2	3	4	5	6	7	
Recovery	0	1	2	3	4	5	6	7	
	Display (	Color	0	-	Blink	None			
	Display (	Color	0	•	Blink	None	•		

#### (8) Display Settings

Set [Standard Font] for [Font Type] and [8 x (32 dot] for [Size].

Set [Outer Border + Horizontal Ruled Line] for [Show Border].

Font Type Standard Fo	ont 💌 Size	8 x 32 dot 💌
Show Border	c 🗌	@
Hide Border	Outer Border	Outer Border + Horizontal Ruled Line

Click [OK] to complete the settings.



Sort Line	Error	Log							thes Alas	<b>n</b> 15
Cata	Teig	itosago		- 13	ick .	Recov	Timin	Accumulat	e LovaÎ	
Date	Triq	Mes	:8a	qe	Ack	Recov	olmee	Acciniat	elevel	
0	-						_		-	
- 0-			- 20			100				
mart		•	Add	pel.	cian	D	e- 1	unber fi	an Ala	
. In				eti -	1 8		teta)	. Sette		1

#### (9) Checking the operation

After transferring the data, touch the Alarm switch on the upper right of the screen and check the display of the alarm history.

12/12	11:58	LineC	Line Clogged	. 15.8	11:58	2	1:42:29	1
12/12	11:58	LineA	Speed Error			4	1:44:23	3
12/12	11:58	LineC	Energency Sto	)p		4	8:00:56	1
10/10	11-57	LineA	Line Cloqued		11-57	1	08-55-9 212555	8

## 7.3

### Sub Screen Display



#### How to display each alarm's details and remedy

In order to display details and remedy for each alarm message, use [Sub Display]. Directly touching the displayed alarm message causes the sub screen to display.

#### Operation Example of Sub Display

Touch a displayed alarm message directly.



The sub screen corresponding to the selected alarm message will display.

12/12 11:58 LineC Line Clogged	1150 Slow down the line
12/12 11:58 LineA Speed Error 12/12 11:58 LineA Speed Error	speed and remove the obstacles. When the works collide, stop the operation completely. After
12/12 11:58 LineC Energency Stop 12/12 11:57 LineD Speed Error	retoving the work in back, return to the origin,
12/12 11:57 LineA Line Cloosed 12/12 11:57 LineC Exerciserov Stop	





\* For the data of this practice, Text (Sub Screen) has been registered in Text Registration.

#### (2) Setting Sub Display Screen Number

Select [Alarm Settings] from the Tool Bar.



Register [Sub Display Screen No.] in each alarm message as in the image at right.

Common	Common Settings Block 1   Block 2   Block 3   Block 4   Block 5   Block 6   Block 7   Block 8   Banner   Summary									
Bit More	nitoring 🛛 🔿 Word Mor	nitoring		(	$\widehat{\mathbf{a}}$					
	Jump Auto Allotr	nent	✓ History Log Active							
No.	Bit Address	rigger Conditic	Message	Level	Sub Display Screen No.					
1	[PLC1]M0230	ON	LineA Speed Error	3	1					
2	[PLC1]M0231	ON	LineA Power Error	3	2					
3	[PLC1]M0232	ON	LineA Line Clogged	3	3					
4	[PLC1]M0233	ON	LineA Emergency Stop	3	4					
5	[PLC1]M0234	ON	LineB Speed Error	2	1					
6	[PLC1]M0235	ON	LineB Power Error	2	2					
7	[PLC1]M0236	ON	LineB Line Clogged	2	3					
8	[PLC1]M0237	ON	LineB Emergency Stop	2	4					
9	[PLC1]M0238	ON	LineC Speed Error	1	1					
10	[PLC1]M0239	ON	LineC Power Error	1	2					
11	[PLC1]M0240	ON	LineC Line Clogged	1	3					
12	[PLC1]M0241	ON	LineC Emergency Stop	1	4					
13	[PLC1]M0242	ON	LineD Speed Error	0	0					
14	[PLC1]M0243	ON	LineD Power Error	0	0					
15	[PLC1]M0244	ON	LineD Line Clogged	0	0					
16	[PLC1]M0245	ON	LineD Emergency Stop	0	0					

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🏚 🔣 🔶

#### (3) Sub Display Settings

Open the base screen [7] and double-click the placed [Alarm].

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

38	asic Settings   Item Settings   Colo	or Settings   Displ	ay Settings	ub Display Settin	gs Switch	Settings 🔟	)
	🔽 Enable the Sub Display					>>Detail	
	Sub Display Type	Show Text W	indow	•	$\mathbf{U}$		
	Window Size	C Large	Small				
	Caution: To register a text, the no. of characters in a row must be within 20.						

Click [OK] and complete the settings.

#### (4) Checking the operation

After transferring the data, touch the alarm message displayed on the screen and check that the sub screen appears.

12/12	1:58 LineC	Line Clogged	11:58	Size dans	the life of
1001001	158 LineB	Line Clogged		speed and obstacles	remove the
12/12	1:58 LineA	Emergency Stop		the operation the operation of the opera	tion y, After
12/12 1	1:58 LineC	Energency Stop		back, ret to the or	urn igin,
12/12	1:57 Lineu	Speed Error	11-57		
12/12	1:57 LineC	Emergency Stop	11:57	4 8	88:56 1



## 7.4

### Alarm Message Operation



1

Alarm	n History Switch Typ	es and Operations		
	Item Name	Details		
Start		Pressing this Start key causes a cursor to appear in the Alarm and enables history operations. If Freeze Mode is enabled, touching the Start key twice holds the Alarm's display and even when alarms are triggered, acknowledged, or recovered, the display is not updated. 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 all displayed at one time.		
	End	This key ends key entry operations and the cursor disappears.		
Aak	Acknowledge	Pressing the Ack key will record the current time as the Ack time on the selected message.		
ACK	Ack All	Pressing the Ack All key will attach (and display) the current time as the Ack time on all displayed messages.		
	Move Upward	Moves the cursor up by one line.		
Move	Move Downward	Moves the cursor down by one line.		
Move	Scroll Up	Scrolls the displayed data up by the specified number of lines.		
	Scroll Down	Scrolls the displayed data down by the specified number of lines.		
	Clear	Erases the currently selected messages.		
	Clear All	Erases all the displayed messages.		
	<b>Clear Recovered Alarm</b>	Recovered alarms will be erased from the currently selected messages.		
Clear	Clear All Recovered Alarms	Erases all the recovered alarms.		
	Clear Acknowledge Alarm	Acknowledged alarms will be erased from the currently selected messages.		
	Clear All Acknowledge Alarms	Erases all the acknowledged alarms.		
	Clear Individual No. of Occurrences	Erases the occurrence count of the currently selected message.		
	Clear All No. of Occurrences	Erases all occurrence counts.		
	Clear Individual Accumulated Time	Erases the accumulated time of the currently selected message.		
	Clear All Accumulated Time	Erases accumulated times for all messages.		
	In Reverse Order of Trigger Date	Displays the alarms in reverse order of trigger date.		
	In No. of Occurrences Order	Displays the alarms in descending order by the number of occurrences.		
	In Descending Order of Accumulated Time	Displays the alarms in descending order by the accumulated time of alarm occurrences.		
Sort	Level & In Reverse Order of Trigger Date	Displays alarms in descending order, according to the alarm levels. When multiple alarms have the same level, they are displayed in reverse order of trigger date.		
	Level & In Descending Order of No. of Occurrences	Displays alarms in descending order, according to the alarm levels. When multiple alarms have the same level, the alarms are displayed in descending order by the number of alarm occurrences.		
	Alarm Registration Order	Displays alarms in registration order of alarm settings.		
	Reverse Order Display	Displays alarms in the reverse order of the sorting in the current display.		

#### (2)Checking the operation

After transferring the data, check the operation of the switches on the alarm messages displayed on the screen.

12/12	11:58 Line(	Line Clogged	11:58	2 1:42	29 I
12/12 12/12	11:58 LineA 11:58 LineA	Speed Error Emergency Stor	5		23 3 80 3
12/12 12/12	11:58 Line0 11:57 Line0	Emergency Stor Speed Error		1 8:00 1 8:00	56 1 10 1
12/12	1:57 Line)	Line Cloqued Energency Sto	11:57 11:57		12/14/14 56 1

## 7.5

### CF Card Storage Settings



#### How to save data in the SRAM into the CF Card

To save a large quantity of information for a long time, save the data in the SRAM into the CF Card. The data is saved as a CSV file. Therefore, it's easy to edit it with PC-based spread-sheet software and so on.



#### (1) Selecting CF Card Settings

Select [System Settings Window] from the work space.

Select [Main Unit Settings].

Select the [Operation Settings] tab.

Check [CF-Card Data Storage] and set the control word address.

Project (E) Edit (E) View (V)	Common Settings (B) Screen (S) Help (H)		
🧊 🧭 🖏			
0000000	• <b>●</b> ● ▲ ④ ℝ € × 100× •		
	0 0 1 1 1 9 m 0 0		
System Settings Window 4 >	5 Display Type Driver GP3000 Series Model AGP-3500T Installation A Thomas Horizontal		
Dence perror	Main Unit Settings		
Main Unit Setting	Duplay Settings Decision Settings Action Settings System Area S	ettings	
Ford Settings	« Settings	Backup Internal Device	
	#Window Operation Disable +	I <sup>™</sup> Backup	
	10 202	Bactup Stat Address	-
PerchenalList		Backup Area Size	
Device/PLC Settings			
Panlet Settings	Capture Settings	CF-Card Settings	
Bar Code Settings	splure Action	P CF Card Data Storage	
Script Settings	week Word Address	Control Word Address [PLC1]D00150	
	Black/white Benetice Oktober	I CF Card Free Space	
	The New Aster Incomment 1	Free Space Storage Address [#INTERNAL]USR00000	
	🔽 fie Aun Dolen	F SRAM Auto Backup	
	F Lon	Control Ward Address	1
	sphare image Quality		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Justity Image Image Low Compression (1)		
Tasking Company of the state	c		

#### Note

For Sampling Data, the CF Storage Method differs. (For details, see P7-28 )

#### (2) CF Card Data Storage

To copy the SRAM's data to the CF Card, write a [Command] to the control word address. The [Status] will overwrite this word as a result. The word address of the control word + 1 is the address that designates the [File No.] in the CF Card.

Ex.) When the control word address is [D150],

Control Word Address

Command/Status= D150File No.= D151

CF-Card Settings

CF-Card Data Storage

Control Word Address

Control Word Address

Free Space Storage Address SRAM Auto Backup

CF-Card Free Space

[PLC1]D00000

[#INTERNAL]USR00000

#### Save the data of the alarm block 1 in the CF Card.

+ 1

Save the alarm history data in the SRAM with the file No. 555 in the CF Card.



The data is saved in the [ALARM] folder in the CF Card under the file name of [ZL00555.CSV].

#### Display Example of the spread-sheet software

	A	В	С	D	Е	F	G	Н
1	Number of Message(s)	9						
2								
3	Trigger Date	Trigger Tin	Message(s)	Acknowled	Recovery <sup>-</sup>	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 of the CSV file can be displayed on the GP screen too. (For details, see P7-29)

#### (3) Command and Status Codes

	Data	Details	
Command	0001h	Filing Data	
	0002h	For GP-PRO/PB compatibility	
	0003h	For GP-PRO/PB compatibility	]
	0004h	For GP-PRO/PB compatibility	
	0005h	Alarm History Block 1 Data	In the practice screen, [5h] is written
	0006h	Alarm History Block 2 Data	and the data of the alarm history
	0007h	Alarm History Block 3 Data	block 1 in the SRAM is saved into
	0008h	Alarm History Block 4 Data	the CF Card.
	0009h	Alarm History Block 5 Data	
	000Ah	Alarm History Block 6 Data	
	000Bh	Alarm History Block 7 Data	
	000Ch	Alarm History Block 8 Data	
	0020h	For GP-PRO/PB compatibility	
	0021h	For GP-PRO/PB compatibility	
Status	0000h	Normal Completion	
	0100h	Write Error	
	0200h	No CF Card or Not accessible	
	0300h	Write Data does not exist	]
	0400h	File No. Error	]

When the [Command] is written to the control word address, the [Status] returns.

#### (4) Folder and File Name of Alarm History Data

These are the folders and the file names in the CF Card where the alarm history data is written.

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 8 Data	Z8*****.CSV

Beside these, various kinds of folders can be created in the CF Card. For details, refer to the Reference Manual.

#### (5) CF Storage of Sampling Data

Set the address for CF Storage of sampling data in the place shown below.

\*Refer to Chapter 9 for Sampling Data.

Check [CSV Control Word Address] in the [Display/Save in CSV] tab of the Sampling Group and set it.

Like the CF Card Data Storage of the System Settings, write a [Command] to the Control Word Address, and the [Status] will be written by the GP as a result.

The word address of the Control Word + 1 is the address that designates the [File No.] in the CF Card.

Simple Settings C 0	ustom Settings		_
Date	yy/mm/dd 💌 Time	hhunm 💌	
Data Display	Data Type Settings		
Total	Data Type Settings		
No. of Item Name Character	14 🛫 🖩		
Display Color	□7  Bink	None 💌	
Background Color	Blink.	None	
Display Color Background Color	7 Slink.	None   None	
Jate Time [PLC1](	00300 [PLC1]D00301 [PLC1]D	00302 [PLC1]D00303	

Display/Save in CSV

Ex.) When the control word address for Save in CSV is [D160],

+ 1

Control Word Address for Save in CSV

Command/Status	= D160
File No.	= D161

\*The operation method up to Save is the same as P7-26.

#### (6) Command and Status Codes for Sampling Data

	Data	Details	
Command	0001h	Normal Save	
	0020h	Automatic Save Start	In the practice screen, [20h] is
	0003h	Automatic Save End	written and the sampling data in
Status	0000h	Normal Completion	the SRAM is automatically saved
	0100h	Write Error	
	0200h	No CF Card or Not Accessible	
	0300h	Write Data does not exist	
	0400h	File No. Error	
	2000h	Automatically being saved	

#### (7) Folder Name and File Name of Sampling Data

Folder Name	File Name
¥SAMP01 ~ ¥SAMP54	SA****.CSV

Stored in the different folders of 1 to 64 for each sampling group.



Use a different address from the control address of [CF Card Data Storage] in the System Settings. If the same address is used, incorrect operation may result.

