Display Recorder

Data Viewer for SITRANS R200/R230/R260

Instruction Manual · October 2010







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1. OUTLINE

1.1 Foreword

This instruction manual describes installation and operation for the data viewer of the display recorder. Read it carefully before use.

1.2 Data Viewer for display recorder

The data viewer (hereinafter referred to as Viewer) for the display recorder allows you to view recorded data on personal computer connected via an adapter to a memory card for the display recorder.

1.3 Contents of package

The following items are packaged with the product. CD-ROM for installation: 1 Instruction Manual which is installed to above CD-ROM

1.4 Recommended operating environment

- Microsoft Windows 2000 or XP. The Viewer is not run on Windows 95, 98, NT or Me.
- Hard disk with a free capacity of 30MB or more
- RAM with 64MB or more
- PC card slot (1 slot)
- Memory card (Compact Flash) (Sandisk type SDCFB-256-J60 is recommended)
- PC card adapter (Sandisk type SDAD-38-J60 is recommended)
- Printer driver (Indispensable)
- Note: 1) Operation by the self-made AT compatible machine and the remodeling machine is not secured.

Trouble might be caused in operation in a part of AT compatible machine or OS.

2) Operation by Windows 95/98/Me/NT is not secured.

1.5 Installing data viewer for display recorder

- 1) If other application software programs are open, terminate all of them.
- 2) If the data viewer has been already installed, delete it from "Add/Remove Programs" on Control Panel.
- 3) Set CD-ROM in the personal computer drive.
- 4) Start Setup.exe in the CD-ROM disk.
- 5) Follow the instructions displayed on the screen.
- 6) A message is displayed, prompting you to verify that "Data display setup is complete". Now, the Data Viewer installation is completed.

1.6 Uninstalling data viewer for display recorder

Follow windows operation

In case of installation of new data viewer, you should delete current data viewer which you use before installation of new data viewer.

2. COPYING RECORDED DATA

Recorded data in a memory card is copied to PC hard disk. Insert the memory card into the PC card slot.



Select a folder in the memory card, and click "Edit" \Rightarrow "Copy".



Next, select PC hard disk drive, and then click "Edit" \Rightarrow "Paste".

쓸 My D	ocuments										
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Bac	Cut	Ctrl+X	Čut	Сору	Paste	Undo	Delete	Properties	Views		
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-	Paste	Ctrl+V									
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000	Select All	Ctrl+A									
5000	Invert Selection										
· ·											

3. BASIC OPERATION

3.1 Start

Select "Programs" \Rightarrow "Data Viewer" \Rightarrow "Data Viewer" from the Start menu.



The "Data Display" screen appears in Fig. 3-1.

DataViewer		- 5 3
e(F) Edit(E) Time scale(T) "/" avis(/) Viewer(V) Window(W), Unformation(I) Analysis(A) Communication(C) Help(H)		
ut :	1/21/2004	2.58 PM



3.2 How to open record data files and totalize data files

There are two methods to open record data files: one is to directly specify a record data file, and the other is to register a record data file with the file list and specify the file to open. To open a totalize data file, directly specify the file.

3.2.1 Directly opening record files

Follow the procedure below to open a record data file.

1) Click "File" \Rightarrow "Open".



2) The "Select the recorded file" screen appears. Select "Open the file with the specified recorded file."



 Select a record data file (S00****.fdt) in the folder which was copied to the PC as described in "2 COPYING RECORDED DATA," and click "Open." Even if you select an event data file (A00****.fdt) and click "Open," the file will not be opened.

Open				? ×
Look <u>i</u> n:	S000000			* 💷 -
History Desktop My Documents	PARAMET ☐ T000000 I 500000.FDT I 5000001.FDT I 5000002.FDT I 5000003.FDT I 5000004.FDT I 5000005.FDT I 5000005.FDT I 5000005.FDT	 ■ S000007.FDT ■ S000008.FDT ■ S000009.FDT ■ S000010.FDT ■ S000011.FDT ■ S000012.FDT ■ S000013.FDT ■ S000014.FDT ■ S000015.FDT 	 ■ S000016.FDT ■ S000017.FDT ■ S000018.FDT ■ S000019.FDT ■ S000020.FDT ■ S000021.FDT ■ S000022.FDT ■ S000023.FDT ■ S000024.FDT ■ S000024.FDT 	 ■ \$000025.FDT ■ \$000026.FDT ■ \$000027.FDT ■ \$000028.FDT ■ \$000029.FDT ■ \$000040.FDT ■ \$000041.FDT ■ \$000042.FDT ■ \$000043.FDT ■ \$000043.FDT
My Computer	File <u>n</u> ame: Files of <u>t</u> ype:	Data File (S*.FDT)]	

If the record data file is normal, the following screen appears.

• Trend display of record data



Note)

- 1) Record data files which do not contain record data cannot be opened.
- 2) When changing a record data file name (Sxxxxx.FDT), also change the name of the event data file which corresponds to the record data file.

Change the names of both files so that the "xxxxx" parts of "Sxxxxx.FDT" and "Axxxxx.FDT" are the same. Do not change the first characters of the file names, "S" and "A."

Record data files and event data files are created in pairs in the beginning of the recording and used in pairs when they are opened by the viewer. Therefore, if "xxxxx" parts of a record data file and a event data file which are not in pairs are the same, the program does not operate properly when the file is opened by the viewer.

<Example>

Do not set such file names as the following example, in which the "xxxxx" parts of both the changed name of the record data file (S000088.FDT) on the upper line and that of the event data file (A000088.FDT) on the lower line are the same.

Before change	S000001.FDT/A000001.FDT 2002-11-19 10:00
	S000002.FDT/A000002.FDT 2002-11-19 15:38
After change	<u>S000088</u> .FDT/A000001.FDT 2002-11-19 10:00
	S000002.FDT/ <u>A000088</u> .FDT 2002-11-19 15:38

- 3) Do not open four or more files at a time. Otherwise an abnormal operation such as a reboot of the viewer may occur.
- 4) Do not set such file names as the following. Otherwise you cannot read the files by the viewer.
 - File names consist of a single character (example: S. FDT, A. FDT)
 - File names consist of nine characters or more.

3.2.2 Opening record data files registered with the file list

You can file the record data files, which were registered with the file list, by group. To use the function, register the files with the file list. Follow the procedure below to register and open record data files.

- 1) Click "File" \Rightarrow "Open".
- 2) The "Select the recorded file" screen appears. Select "Open the file from the registered recorded files."

Select the recorded file.	×
Select how to open the recorded file.	
Open the file with the specified recorded file.	
Open the file from the registered recorded files	

3) Since no file group is registered in initial state, register the file group. When the "Select the file group" screen appears, click the "New registration of file group."

💯 Select the file group	×
Double-click the file group in which the recorded file one wishes to open is registered.	
No. File group	
Upwar	а
Downwa	ard
New registration of file Modification of file Deletion of file group	

4) The "New registration of file group" screen appears. Enter an arbitrary file group name and click the "Registration" button.

🎾 New registration of file group			×
Enter the file group name to be newly registe	arod		
	<u>51 Gu.</u>		
Group name			
Plant Hecorder			
	Registration	Cancellation	

5) The new file group name you registered is displayed on the "Select the file group" screen. Double-click the group name.

Select the file group	×
Double-click the file group in which the recorded file one wishes to open is registere	ed.
	_
No. File group	
	Upward
	Downward
New registration of file group file group Group Deletion of file group	

6) Since no record data file is registered in initial state, register a record data file. When the "Select the recorded file" screen appears, click the "New registration of recorded file."

Dau	ble click the sec	andad filo ana wiaha	- t		
<u>Dou</u> Eile	arous: Diant 1	Decordor 1	<u>s to open.</u>		
File	group.Plant i				
No.	Name of record	ded file			
					Upward
					Downward
Ne	ew registration of corded file	Modification of recorded file	Deletion of recorded file	Return to the fil group selection	e

7) When the "New registration of recorded file" screen appears, register an arbitrary recorded file name. Click the "Select the recorded file" button to open the "Select the recorded file" screen. Select a desired recorded data file by clicking "Open" and click the "Registration" button.

📈 New registr	ation of recorded	file		X					
Enter the	Enter the information of the recorded file to be registered.								
Name of re	corded file								
Record	Record 2007/12								
Address of	Address of recorded file Select the recorded fi								
C:\\$000	000\S000000.FDT								
		L	Registration C	ancellation					
Select the recor	ded file		-	? ×					
Look jn:	🚖 S000000			* ⊞-					
History Desktop My Documents	PARAMET 1000000 5000000.FDT 5000001.FDT 5000002.FDT 5000003.FDT 5000004.FDT 5000005.FDT 5000005.FDT 5000006.FDT	 S000007.FDT S000008.FDT S000009.FDT S000010.FDT S000011.FDT S000012.FDT S000013.FDT S000014.FDT S000015.FDT 	■ S000016.FDT ■ S000017.FDT ■ S000018.FDT ■ S000019.FDT ■ S000020.FDT ■ S000021.FDT ■ S000022.FDT ■ S000023.FDT ■ S000024.FDT	 ■ S000025.FDT ■ S000026.FDT ■ S000027.FDT ■ S000028.FDT ■ S000029.FDT ■ S000040.FDT ■ S000041.FDT ■ S000043.FDT 					
	•			Þ					
My Computer	File <u>n</u> ame:	\$000000.FDT		▼ <u>O</u> pen					
	Files of type:	Data File (S*.FDT)		▼ Cancel					
My Network P		🔲 Open as <u>r</u> ead-only							

 The new recorded file name you registered is displayed on the "Select the recorded file" screen. Double-click the file name. If the recorded data file is normal, the trend screen appears.

🖊 Seleo	ct the recorded file.	x
	Double-click the recorded file one wishes to open.	
	File group:Plant 1 Recorder 1	
	No. Name of recorded file	
	1 Record 2007/12	
	Downward	
	New registration of recorded file Modification of file Deletion of recorded file Return to the file group selection	

3.2.3 How to open totalize data files

Follow the procedure below to open a totalize data file.

1) Click "File" \Rightarrow "Totalize Data Open."



2) Select a desired totalize data file (See * below.) and click "Open."

Totalize file open					?
Look in:	🔁 S000000			- + 1	-111 1
History Desktop My Documents	D000000.FDT D000001.FDT D000010.FDT D000020.FDT E000000.FDT E000001.FDT E000001.FDT E000001.FDT M000000.FDT	M000001.FDT M000010.FDT M000020.FDT M100001.FDT M4000000.FDT M000000.FDT R000000.FDT R000001.FDT R000010.FDT R000010.FDT R000020.FDT	1000000.FDT 1000001.FDT 1000002.FDT 1000003.FDT 1000003.FDT 1000020.FDT 1000021.FDT 1000022.FDT 1000023.FDT 1000023.FDT	 T000024.FDT T000025.FDT T100000.FDT W000000.FDT W000001.FDT W000010.FDT W000010.FDT W000020.FDT W10.FDT Y000000.FDT 	Y000001.FDT Y000010.FDT Y000010.FDT Y000020.FDT Y100000.FDT Ya000000.FDT
My Computer	File name: Files of type:	Totalize file (T*.FDT;D*.Fl	DT;W*.FDT;M*.FDT;\	/*.FDT;R*.FDT;E*.FDT)	▼ Open ▼ Cancel
My Network P		Open as read-only			

- * The meanings of the file names are as follows:
 - T00xxx.FDT : Periodic Totalize Data file
 - D00xxx.FDT : Daily Totalize Data file
 - W00xxx.FDT : Weekly Totalize Data file
 - M00xxx.FDT : Monthly Totalize Data file
 - Y00xxxx.FDT : Annual Totalize Data file
 - R00xxx.FDT : Daily (Time set) Totalize Data file
 - E00xxx.FDT : External Totalize Data file

If the totalize data file is normal, the following screen appears.

• Totalize value display

	Totalize type	Count								
	Totalize tag	STAG 01	STAG 03	STAG 05	STAG 07	STAG 09	STAG 11	STAG 13	STAG 15	STAG 17
otalize start time	Totalize stop time	m3/min	kals	ka/cm3	mm/s	MPa	all	kaih	nnmCO	%Ar
04/01/21 10:50:32	2004/01/21 11:00:00	129.4	121.5	157.9	130.1	96.4	118.7	116.7	111.6	111.3
04/01/21 11:00:00	2004/01/21 11:10:00	11941.4	11915.8	11956.8	11940.4	11901.1	11922.9	11911.5	11907.2	11911.6
04/01/21 11:10:00	2004/01/21 11:20:00	28629.2	28600.1	28629.4	28607.0	28589.7	28608.5	28596.1	28582.4	28590.5
04/01/21 11:20:00	2004/01/21 11:30:00	38632.2	38602.2	38643.5	38612.3	38588.3	38610.1	38591.0	38591.1	38601.1
04/01/21 11:30:00	2004/01/21 11:40:00	55552.9	55498.0	55545.8	55518.5	55492.0	55499.9	55499.4	55481.0	55512.0
04/01/21 11:40:00	2004/01/21 11:50:00	71695.6	71627.5	71680.4	71655.4	71613.5	71630.9	71631.0	71623.4	71647.2
04/01/21 11:50:00	2004/01/21 12:00:00	94375.6	94306.4	94344.1	94307.0	94279.0	94297.2	94290.5	94299.2	94304.6
04/01/21 12:00:00	2004/01/21 12:10:00	103023.4	102961.3	103003.9	102952.3	102938.8	102957.4	102934.6	102949.9	102956.5
04/01/21 12:10:00	2004/01/21 12:20:00	103018.6	102953.2	102999.4	102950.2	102945.8	102953.8	102931.0	102947.3	102960.1
04/01/21 12:20:00	2004/01/21 12:30:00	103016.9	102945.1	102994.1	102952.7	102948.1	102954.8	102939.4	102942.9	102961.5
04/01/21 12:30:00	2004/01/21 12:40:00	103017.5	102941.3	102997.8	102949.6	102942.0	102960.2	102943.5	102941.6	102963.5
04/01/21 12:40:00	2004/01/21 12:50:00	114371.7	114286.7	114343.3	114308.6	114301.4	114313.3	114292.1	114293.2	114317.2
04/01/21 12:50:00	2004/01/21 13:00:00	127894.5	127796.6	127854.1	127822.6	127817.7	127831.3	127815.0	127821.9	127831.3
04/01/21 13:00:00	2004/01/21 13:10:00	108980.9	108892.6	108947.0	108912.0	108906.1	108919.1	108893.3	108898.6	108922.9
04/01/21 13:10:00	2004/01/21 13:20:00	87289.1	87200.7	87252.2	87221.0	87198.9	87212.0	87209.4	87191.7	87223.8
04/01/21 13:20:00	2004/01/21 13:30:00	69312.4	69244.5	69304.8	69274.4	69241.8	69256.6	69252.8	69226.0	69268.9
04/01/21 13:30:00	2004/01/21 13:40:00	43854.6	43818.7	43864.2	43829.2	43811.2	43823.1	43809.3	43804.2	43819.3
04/01/21 13:40:00	2004/01/21 13:50:00	24092.8	24064.0	24100.8	24079.4	24056.8	24070.6	24055.3	24044.1	24049.1
04/01/21 13:50:00	2004/01/21 14:00:00	2456.8	2445.3	2483.8	2454.0	2421.8	2433.5	2430.8	2426.3	2427.5
04/01/21 14:00:00	2004/01/21 14:07:04	102.7	94.3	123.3	98.1	77.2	87.6	87.3	83.9	82.4

Note)

- 1) A totalize data file is created when a totalize calculation is started (not created when a recording is started).
- 2) Totalize data files and record data files are not pairs.
- 3) Do not set such file names as the following. Otherwise you cannot read the files by the viewer.
 - File names, initial characters of which are other than one of the following: "T, " "D, " "W, " "M, " "Y, " "R, " and "E"
 - File names consist of a single character (example: T. FDT, E. FDT)
 - File names consist of nine characters or more.
- 4) Totalize data files cannot be created in PHF. (Totalize calculation is not available.)



3.3 Displaying "Trend" screen

(6) MIN-MAX display/average display select button:

It allows selection of trend display type between M: MIN-MAX display and A: average display.

- Note) Selection is allowed only for the data recorded with the recording type Min-Max rec. The data recorded with Point record. Average rec. cannot be selected.
- Note) Clicking the tabs for groups 1 to 4 allows you to view the chart of each group.

Clicking the Display All tab allows you to view the chart of all the channels.

MIN-MAX display:

To display line trend of max value and mini value for "Refreshment cycle" of every recorded data.

Average display:

To display average trend of max value and mini value for "Refreshment cycle" of every recorded data.

(On trend graphs, average values are only displayed, while a list of instantaneous values is displayed in min/max.)

(7) Switching of a group displayed:

A group displayed on the trend screen can be switched. Click the tab at the top of the trend display screen and select a group to be displayed or "Display all." To display all record data of the channels, select "Display all."

(8) Cursor: Click an arbitrary point on the trend screen to display the cursor 1. To display the cursor 2, right-click the trend screen to switch the cursor and click the trend screen.

3.3.1 How to indicate the vertical display in Trend screen

Follow the procedures shown below to change Trend display to vertical one. When it is changed to the vertical display, printing is made vertically and preview screen appears vertically.

1) Select "Viewer" \Rightarrow "Trend direction" and then "Vertical".



2) Trend screen changes to vertical display as shown below.



3.3.2 How to change the number of scales

Follow the procedures shown below to change the number of scales in Trend display.

1) Select "Viewer" \Rightarrow "Scale display" and set the number of scales.



Example) Horizontal trend screen when 3 scales are displayed



3.3.3 Zoom In/Out of time scale

The trend screen enables you to zoom in/out the time scale. Zoom-out magnification varies depending on the capacity of the record file. Click "Time scale" \Rightarrow "Zoom in" or "Zoom out".



- Display all: Displays all the recorded data on one screen.
- Zoom in: Reduces the time scale into half.
- Zoom out: Doubles the time scale.
- Between cursors: Displays the area between cursor 1 and cursor 2 on one screen.

3.3.4 Display of time scale by cursor

The first cursor appears by clicking the time scale on the "Trend" screen. The cursor can be set at any positions you prefer.

Press the SHIFT key once, or right-click to select Change of Cursor, and then click the "Trend" screen, and the second cursor will be displayed.

Every time the SHIFT key is pressed, or Change of Cursor is selected by right-clicking, the selection of cursor is switched between the first and the second ones.

In the state where the first or the second cursor is kept displayed, the measured value at the position of the cursor (maximum/minimum value) can be printed (refer to Item 4.1).



To move the cursor or disappear it from the screen, click "Edit" and follow the instructions given below:



- "Cursor 1 Alarm/Message/Flag left serch": • "Cursor 2 Alarm/Message/Flag left serch"
- "Cursor 1 Alarm/Message/Flag right serch": "Cursor 2 Alarm/Message/Flag right serch"

The cursor moves to "Event Start Message" or "Flag" on the left.

- The cursor moves to "Event Start Message" or "Flag" on the right. The cursor disappears.

- "Do not show cursor":
- Note) For the flag, refer to 3.3.5, "Display of flag".
 - Both "Cursor 1 Alarm/Message/Flag left serch" and "Cursor 1 Alarm/Message/ Flag right serch" are only valid when the cursor is displayed on the trend screen.
 - When selecting the cursor position, the point of the measured value at right of the position you clicked is selected.

3.3.5 Display of flag

Any recorded data can be found by attaching a flag to the time scale. Move the cursor to the "Time Scale" where you want to attach the flag. Click "Edit" \Rightarrow "Add extra Flag".



The displayed cursor turns to a flag.



To delete all of the flags, click "Edit" \Rightarrow "Flag delete".

Note) For verification of the set time of the flag time scale, refer to 3.7 "Event Summary Display".

3.3.6 Storing trend screen display.

The part displayed on the trend screen only can be stored in a separate file.

1) Click "File" \Rightarrow "Save as".

										_	_
	DataViewer - [Trend Viewer01[H:\	Documents	and Setting	gs\LY\Desk	top\50000	000\50000	03.FDT]]]				
6	File(F) Edit(E) Time scale(T) "Y" a	xis(Y) Viewe	r(V) Windo	w(W) Inform	nation(I) A	snalysis(A)	Communication	n(C) Help(H))		
é	Open(O) Ctrl+O		7 📢 1	₽ 2							
1	= Totalize Data Open(T) :1 Close(C)	3:Display Gro	up3 4:Dis	play Group4	Display all	l l					
	CSV file conversion						1				R
	Save siewer setting(S) Save as(A)										Γ
	Dript/D)										F
	Print preview(V)										
	Exit(X)										-
		·									
			_								F
										_	
			_			r.n.n				=	-
										_	
			_				+			_	-
						4			1		L

2) Enter an arbitrary file name (S******.fdt) and then click \Rightarrow "Save".

Select "Save" fro	m the "File" men	u.			? ×
Save in:	🔁 S000000		•	⊨ 🗈 💣 🎟•	
History Desktop My Documents	 ■ \$000000.FDT ■ \$000001.FDT ■ \$000002.FDT ■ \$000003.FDT 				
My Computer	File name: Save as type:	 Fuji Data File (S*.FDT)		Y	Save Cancel

Note) Cursor or flag cannot be stored.

3.4 Display of set value in recording range

A click of "Detail Setting" on Viewer enables you to display recording range parameters (min. value and max. value) of the recorded data displayed on the screen. Click "Display" \Rightarrow "Detail Setting".



The "Detail Setting" screen appears.

		/	— Groups of 2 t	o 4	
٦.	D <u>etail s</u>	ettinen 1	[G:¥S000000	¥S000000.FDT] X
1	2 :	3 4	l l		
		IDireley Core	<u></u>		
	Group name	Juispiay Gro	upi		
			Recording range	Recording range	
	NO	Channel	Min	Max	_ !
	WNo1	1	0	500	
	WNo2	2	0	500	
	WNo3	3	0	500	
	WNo4	4	0	500	
	WNo5	5	0	500	
	WNo6	6	0	500	
	WNo7	7	0	500	
	WNo8	8	0	500	
	WNo9	9	0	500	
	WNo10	None			
					_
<u> </u>					

When changing the range, click the scale area at left of the "Trend" screen. On the "Range Setting" screen that is displayed, change the range.

Note) Clicking the tabs for groups 1 to 4 allows you to view the chart of each group.

3.5 Setting date format

You can change the date format. Click [Viewer] and then [Date format].

🗊 DataViewer	
File(F) Edit(E) Time scale(T)	Viewer(V) Window(W) Help(H)
	Detail setting(D) Tool bar(T) Search bar(R) Status bar(B) Y
	Date format
	09/27/2004 Sep-27-04

The selectable date formats are displayed. Click the format you want to use from those listed in the following table.

Format	Example of screen display
yyyy/mm/dd	2004/09/27 17:00:00
dd/mm/yyyy	27/09/2004 17:00:00
dd-MMM-yy	27-Nov-04 17:00:00
mm/dd/yyyy	09/27/2004 17:00:00
MMM-dd-yy	Nov-27-04 17:00:00
	Format yyyy/mm/dd dd/mm/yyyy dd-MMM-yy mm/dd/yyyy MMM-dd-yy

Note 1: The date displayed on the date format selection item is fixed to September 27, 2004.

Note 2: The time at the lower right corner of the viewer screen and that at the upper right corner of the print preview screen are displayed in the date format selected on the PC.

Note 3: The date is displayed in the newly selected format beginning from the first screen displayed after the change. (The date format on the screen currently displayed is not changed.)

3.6 Display of instantaneous values

A click of "Instant Value Viewer" to be displayed on "Window" enables you to display max. value, min. value , paint value and average value for "Refreshment cycle" of every recorded data. Active cursor position appears on display lead instantaneously.

Click "Window" \Rightarrow "Instant Value Viewer".

🗃 DataViewer - [Trend Viewer01[F:\5000	001.FDT]]	
$\overbrace{E}^{\bullet} File(\underline{F}) Edit(\underline{E}) Time \ scale(\underline{T}) Viewer(\underline{V})$	Window(W) Help(H)	
Image: Second	Overlapped Windows(⊆) Vertical windows(⊻) Horizontal windows(<u>H</u>)	
No01 - S V A	Instant value viewer	
E0-	Alarm/Message/Flag list	
	Operation between cursors viewer ✓ 1 Trend Viewer01[F:\S000001.FDT]	

The Instant Value Viewer screen appears.

ataViewer - [In Ele(E) Edit(E)	nstant valu	e li (01[H:\Do	viewer(V) Win	ettings\LY\De	sktop\5000/00\	5000003.FDT]]	(G) Help(H)				- 5
				11 12 21			1.07 1.0040.17				
isplay Group1	2:Display G	roup2 3:Disp	lay Group3 4:D	isplay Group4	Display all						
		CHUI	CHUI	CH02	CH02	CH03	CH03	CH04	CH04	CH05	CH0_
Clock		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
2004/01/21 11	:30:37	73.6	73.6	73.3	73.4	73.5	73.6	73.6	73.6	73.6	73.6
2004/01/21 11	:30:38	73.6	73.6	73.4	73.4	73.5	73.6	73.6	73.6	73.6	73.E
2004/01/21 11	:30:39	73.6	73.6	73.3	73.4	73.6	73.6	73.6	73.6	73.6	73.E
2004/01/21 11	:30:40	73.6	73.6	73.3	73.3	73.6	73.6	73.6	73.6	73.6	73.7
2004/01/21 11	:30:41	73.6	73.6	73.3	73.4	73.6	73.6	73.6	73.6	73.7	73.7
2004/01/21 11	:30:42	73.6	73.6	73.4	73.4	73.6	73.6	73.6	73.6	73.7	73.7
2004/01/21 11	:30:43	73.6	73.7	73.4	73.4	73.5	73.6	73.6	73.6	73.6	73.7
2004/01/21 11	:30:44	73.6	73.7	73.4	73.4	73.6	73.6	73.6	73.6	73.6	73.6
2004/01/21 11	:30:45	73.6	73.6	73.4	73.4	73.6	73.6	73.6	73.6	73.6	73.6
2004/01/21 11	:30:46	73.6	73.6	73.3	73.4	73.6	73.6	73.6	73.7	73.6	73.1
2004/01/21 11	:30:47	73.6	73.6	73.3	73.3	73.6	73.6	73.7	73.7	73.7	73.7
2004/01/21 11	:30:48	73.6	73.6	73.3	73.3	73.6	73.6	73.6	73.7	73.7	73.7
2004/01/21 11	:30:49	73.6	73.6	73.3	73.4	73.6	73.6	73.6	73.7	73.7	73.7
2004/01/21 11	:30:50	73.6	73.6	73.4	73.4	73.6	73.6	73.7	73.7	73.7	73.7
2004/01/21 11	:30:51	73.6	73.7	73.4	73.4	73.6	73.6	73.6	73.7	73.6	73.1
2004/01/21 11	:30:52	73.7	73.7	73.4	73.4	73.6	73.6	73.6	73.6	73.6	73.6
2004/01/21 11	:30:53	73.7	73.7	73.4	73.4	73.6	73.6	73.6	73.6	73.6	73.1
2004/01/21 11	:30:54	73.7	73.7	73.4	73.4	73.6	73.6	73.6	73.6	73.7	73.1
2004/01/21 11	:30:55	73.6	73.7	73.4	73.4	73.6	73.6	73.6	73.6	73.6	73.7
2004/01/21 11	:30:56	73.6	73.7	73.3	73.4	73.6	73.6	73.6	73.6	73.6	73.6
2004/01/21 11	:30:57	73.6	73.7	73.3	73.3	73.6	73.6	73.6	73.6	73.6	73.6
2004/01/21 11	:30:58	73.6	73.6	73.3	73.4	73.6	73.6	73.6	73.6	73.6	73.6
2004/01/21 11	:30:59	73.6	73.6	73.4	73.4	73.5	73.6	73.6	73.6	73.6	73.6
2004/01/21 11	:31:00	73.6	73.6	73.3	73.4	73.5	73.6	73.6	73.6	73.6	73.
2004/01/21 11	:31:01	73.6	73.6	73.3	73.3	73.6	73.6	73.6	73.6	73.6	73.1
2004/01/21 11	:31:02	73.6	73.6	73.3	73.4	73.6	73.6	73.6	73.6	73.6	73.
2004/01/21 11	:31:03	73.6	73.6	73.4	73.4	73.5	73.6	73.6	73.6	73.6	73.6
2004/01/21 11	:31:04	73.6	73.6	73.3	73.4	73.5	73.5	73.6	73.6	73.6	73.6
2004/01/21 11	:31:05	73.6	73.6	73.3	73.3	73.5	73.6	73.6	73.6	73.6	73.0
	-24-02	775	70.0	71.1	70.0	73.0	710	73.0	70.0	710	70.0

The number of recorded data that can be viewed on a single Instant Value Viewer screen is up to 1202. To view data in excess of 1202, click the "Next Page".

Note) Clicking the tabs for groups 1 to 4 allows you to view the chart of each group. Clicking the Display All tab allows you to view the chart of all the channels. • Extracting the recorded data

Select the fields containing the recorded data to be extracted using the mouse and then press [Ctrl] and [C] at the same time, and the recorded data in the selected fields is copied to the clipboard. Paste it on Excel or a text editor to use it.

🕽 İnstant value list	.01 [G:¥S00	00002.fdt]					
:Display Group1 2:Display Gro	up2 3:Display 0	aroup3 4:Display	Group4 Display	all			
	CH01	CH01	CH02	CH02	CH03	CH03	CH04 🔺
Clock	Min	Max	Min	Max	Min	Max	Min —
2002/06/04 10:44:49	202.3	202.3	202.3	202.3	202.3	202.3	202.3
2002/06/04 10:44:50	202.3	203.1	202.3	203.1	202.3	203.1	202.3
2002/06/04 10:44:51	203.1	204.3	203.1	204.3	203.1	204.3	203.1
2002/06/04 10:44:52	204.3	205.8	204.3	205.8	204.3	205.8	204.3
2002/06/04 10:44:53	205.8	207.7	205.8	207.7	205.8	207.7	205.8
2002/06/04 10:44:54	207.7	209.9	207.7	209.9	207.7	209.9	207.7
2002/06/04 10:44:55	209.9	212.4	209.9	212.4	209.9	212.4	209.9
2002/06/04 10:44:56	212.4	215.2	212.4	215.2	212.4	215.2	212.4
2002/06/04 10:44:57	215.2	218.3	215.2	218.3	215.2	218.3	215.2
2002/06/04 10:44:58	218.3	221.5	218.3	221.5	218.3	221.5	218.3
2002/06/04 10:44:59	221.5	225.0	221.5	225.0	221.5	225.0	221.5
2002/06/04 10:45:00	225.0	228.8	225.0	228.8	225.0	228.8	225.0
2002/06/04 10:45:01	228.8	232.6	228.8	232.6	228.8	232.6	228.8
2002/06/04 10:45:02	232.6	236.6	232.6	236.6	232.6	236.6	232.6
2002/06/04 10:45:03	236.6	240.7	236.6	240.7	236.6	240.7	236.6
2002/06/04 10:45:04	240.7	244.8	240.7	244.8	240.7	244.8	240.7
2002/06/04 10:45:05	244.8	249.0	244.8	249.0	244.8	249.0	244.8
2002/06/04 10:45:06	249.0	253.2	249.0	253.2	249.0	253.2	249.0
2002/06/04 10:45:07	253.2	257.4	253.2	257.4	253.2	257.4	253.2
2002/06/04 10:45:08	257.4	261.5	257.4	261.5	257.4	261.5	257.4
2002/06/04 10:45:09	261.5	265.6	261.5	265.6	261.5	265.6	261.5
2002/06/04 10:45:10	265.6	269.5	265.6	269.5	265.6	269.5	265.6
2002/06/04 10:45:11	269.5	273.3	269.5	273.3	269.5	273.3	269.5
2002/06/04 10:45:12	273.3	276.9	273.3	276.9	273.3	276.9	273.3
0002/06/04 10:45:12	976.0	970.0	0360	270.0	976.0	970.0	276.0
File top File end	Previous p	age Next pag	e				

• Moving the cursor

Double-click on the instantaneous value display screen while the cursor is displayed, and the cursor moves to the selected data.

3.7 Event Summary Display

To display the alarm and message lists, click "Window" \Rightarrow "Alarm/Message/Flag list".



3.7.1 Alarm list

Caution

An alarm list is displayed.

Printing function is not available.

Print this data out by display hard copy of Windows.

Alarm start time	Channel No.	Alarm No.	Alarm type	Start / Cancel	Display	Display Height
2002/04/18 23:32:00	1	2	L	Start	OFF	2
2002/04/18 23:45:22	3	3	Н	Start	OFF	2
002/04/18 23:47:21	3	3	Н	Cancel	OFF	2
2002/04/18 23:47:28	3	4	E	Start	ON	7
002/04/19 00:39:46	3	4	L	Cancel	OFF	2
002/04/19 00:41:26	1	2	Ĺ	Cancel	OFF	2
002/04/19 00:42:27	3	4	L,	Start	OFF	2
2002/04/19 00:43:12	3	4	E,	Cancel	OFF	2
2002/04/19 00:52:37	1	1	Н	Start	OFF	2
2002/04/19 02:05:58	1	1	Н	Cancel	OFF	2
2002/04/19 02:42:38	1	2	L	Start	OFF	2
2002/04/19 02:55:48	3	3	Н	Start	ON	4
2002/04/19 02:57:51	3	3	Н	Cancel	OFF	2
002/04/19 02:57:57	3	4	L	Start	OFF	2
002/04/19 03:50:02	3	- 4	E,	Cancel	OFF	2
002/04/19 03:51:40	1	2	E.	Cancel	OFF	2
002/04/19 04:02:53	1	1	Н	Start	OFF	2
002/04/19 05:16:14	1	1	Н	Cancel	OFF	2

• Extracting the alarm list data

Select the fields containing the alarm list data to be extracted using the mouse and then press [Ctrl] and [C] at the same time, and the alarm list data in the selected fields is copied to the clipboard. Paste it on Excel or a text editor to use it.

Note) Double-click the list data field when the list data field cannot be selected using the mouse.

• Moving the cursor

Double-click the alarm list data while the cursor is displayed, and the cursor will jump to the recorded data close to the data selected.

• How to display alarm data trend screen

Press the "Setting" button at the upper right-hand corner of the alarm list screen. On the following screen that appears, set "Display" for the alarm to be displayed on the trend screen to ON.

🛋 Alarm Disp	lay	×
Alarm start time	2002/04/18 23:32:00	
Channel No.	1	
Alarm No.	2	
Alarm type	L	
Start / Cancel	Start	
Display	<u>on</u>	
Display Height	2 💌	
back	next Exit	

• The display position of alarm data can be changed by clicking on the alarm data displayed on the trend screen with the mouse.



- To display the currently selected contents the next time the trend screen is displayed, save the contents before closing the trend screen.
- If the information is saved, a file having the name with the character "S" of the displayed file changed to "F" (F*****FDT) is created within the folder that contains the displayed record file. When moving or deleting the record file, also move or delete the new file.
- Note that if the record file is opened at the same time, the newest information is saved.

3.7.2 Message list

To display a message list, click "Message".

	Click							
E	🖥 Alarm/Messige/Flag List01[A:\\$000002.fdt]							
	Alarm Message Flag							
	Alarm Start Time	Channel No	Alarm No	Alarm Type	Start / Car 🔺			
	2002/ 3/13 18:35:43	1	1	Н	Start 📃			
	2002/ 3/13 18:35:54	2	1	Н	Start			
	2002/ 3/13 18:36:01	2	1	Н	Cancel			
	2002/ 3/13 18:36:03	4	1	Н	Start			

A message list is displayed.

Message Flag				(:Set
Alarm start time	Message	Display color	Display	Display Height
2002/04/18 23:32:00	Low temperature attention	Red	OFF	5
2002/04/18 23:45:22	Humidity is abnormal.	Red	OFF	5
2002/04/18 23:47:28	Humidity is abnormal.	Red	OFF	5
2002/04/19 00:41:26	Low temperature attention off	Red	OFF	5
002/04/19 00:42:27	Humidity is abnormal.	Red	OFF	5
002/04/19 00:52:37	High temperature attention	Red	ON	5
002/04/19 02:05:58	High temperature attention off	Red	OFF	5
2002/04/19 02:42:38	Low temperature attention	Red	OFF	5
2002/04/19 02:55:48	Humidity is abnormal.	Red	OFF	5
002/04/19 02:57:57	Humidity is abnormal.	Red	OFF	5
002/04/19 03:51:40	Low temperature attention off	Red	OFF	5
002/04/19 04:02:53	High temperature attention	Red	OFF	5
002/04/19 05:16:14	High temperature attention off	Red	OFF	5

• Extracting the message list data

Select the fields containing the message list data to be extracted using the mouse and then press [Ctrl] and [C] at the same time, and the message list data in the selected fields is copied to the clipboard. Paste it on Excel or a text editor to use it.

Note) Double-click the list data field when the list data field cannot be selected using the mouse.

• Moving the cursor

Double-click the message list data while the cursor is displayed, and the cursor will jump to the recorded data close to the data selected.

• How to display message data trend screen

Press the "Setting" button at the upper right-hand corner of the message list screen. On the message data display select screen that appears, set "Display" for the message to be displayed on the trend screen to ON.

- The display position of the message data can be changed by clicking on the message data displayed on the trend screen with the mouse.
- To display the currently selected contents the next time the trend screen is displayed, save the contents before closing the trend screen.
- If the information is saved, a file having the name with the character "S" of the displayed file changed to "F" (F*****FDT) is created within the folder that contains the displayed record file. When moving or deleting the record file, also move or delete the new file.
- Note that if the record file is opened at the same time, the newest information is saved.

3.7.3 Flag list

To display a flag list, click "Flag".

	Click							
	Alarm/Message/Elan List01[A:\S000002.fdt]							
0	Alarm Message Flag							
	Alarm Start Time	Channel No	Alarm No	Alarm Type	Start / Car 🔺			
	2002/ 3/13 18:35:43	1	1	Н	Start			
	2002/ 3/13 18:35:54	2	1	Н	Start			
	2002/ 3/13 18:36:01	2	1	Н	Cancel			
	2002/ 3/13 18:36:03	4	1	Н	Start			

A flag list is displayed.

Set time	Message	Display	Display Height
002/04/19 00:23:30	Test start	ON	10
2002/04/19 01:42:00	Test end	ON	9

• Extracting the flag list data

Select the fields containing the flag list data to be extracted using the mouse and then press [Ctrl] and [C] at the same time, and the flag list data in the selected fields is copied to the clipboard. Paste it on Excel or a text editor to use it.

Note) Double-click the list data field when the list data field cannot be selected using the mouse.

• Moving the cursor

Double-click the flag list data while the cursor is displayed, and the cursor will jump to the recorded data close to the data selected.

- How to display flag data trend screen
 - Press the "Setting" button at the upper right-hand corner of the flag list screen. On the following screen that appears, select "Message" for the flag to be displayed on the trend screen, and set "Display" to ON.

📮 Flg Dis	splay	×
Set time	2002/04/19 00:10:00	
Message	Test start	
Display	ON V	
Display Height	9 💌	
back	next Exit	

- The display position of the flag data can be changed by clicking on the flag data displayed on the trend screen with the mouse.
- To display the currently selected contents the next time the trend screen is displayed, save the contents before closing the trend screen.
- If the information is saved, a file having the name with the character "S" of the displayed file changed to "F" (F*****FDT) is created within the folder that contains the displayed record file. When moving or deleting the record file, also move or delete the new file.
- Note that if the record file is opened at the same time, the newest information is saved.

3.8 Display of totalize data

Totalize data display

Totalize data for recorded cycle of each channel appears.

		CHU1	CH03	CH05	CH07	CH09	
	Totalize type	Count	Count	Count	Count	Count	
	Totalize tag	STAG 01	STAG 03	STAG 05	STAG 07	STAG 09	
Totalize start time	Totalize stop time	m3/min	kg/s	kg/cm3	mm/s	MPa	
004/01/21 10:50:32	2004/01/21 11:00:00	129.4	121.5	157.9	130.1	96.4	
004/01/21 11:00:00	2004/01/21 11:10:00	11941.4	11915.8	11956.8	11940.4	11901.1	
004/01/21 11:10:00	2004/01/21 11:20:00	28629.2	28600.1	28629.4	28607.0	28589.7	
004/01/21 11:20:00	2004/01/21 11:30:00	38632.2	38602.2	38643.5	38612.3	38588.3	
004/01/21 11:30:00	2004/01/21 11:40:00	55552.9	55498.0	55545.8	55518.5	55492.0	
004/01/21 11:40:00	2004/01/21 11:50:00	71695.6	71627.5	71680.4	71655.4	71613.6	
004/01/21 11:50:00	2004/01/21 12:00:00	94375.6	94306.4	94344.1	94307.0	94279.0	
004/01/21 12:00:00	2004/01/21 12:10:00	103023.4	102961.3	103003.9	102952.3	102938.8	
004/01/21 12:10:00	2004/01/21 12:20:00	103018.6	102953.2	102999.4	102950.2	102945.8	
004/01/21 12:20:00	2004/01/21 12:30:00	103016.9	102945.1	102994.1	102952.7	102948.1	
004/01/21 12:30:00	2004/01/21 12:40:00	103017.5	102941.3	102997.8	102949.6	102942.0	
004/01/21 12:40:00	2004/01/21 12:50:00	114371.7	114286.7	114343.3	114308.6	114301.4	
004/01/21 12:50:00	2004/01/21 13:00:00	127894.5	127796.6	127854.1	127822.6	127817.7	
004/01/21 13:00:00	2004/01/21 13:10:00	108980.9	108892.6	108947.0	108912.0	108906.1	
004/01/21 13:10:00	2004/01/21 13:20:00	87289.1	87200.7	87252.2	87221.0	87198.9	
004/01/21 13:20:00	2004/01/21 13:30:00	69312.4	69244.5	69304.8	69274.4	69241.8	
004/01/21 13:30:00	2004/01/21 13:40:00	43854.6	43818.7	43864.2	43829.2	43811.2	
004/01/21 13:40:00	2004/01/21 13:50:00	24092.8	24064.0	24100.8	24079.4	24056.8	
004/01/21 13:50:00	2004/01/21 14:00:00	2456.8	2445.3	2483.8	2454.0	2421.8	
004/01/21 14:00:00	2004/01/21 14:07:04	102.7	94.3	123.3	98.1	77.2	

The number of recorded data that can be viewed on a single totalize data up to 1,202. To data in excess of 1,202, click the "Next Page".

- Note) Clicking the tabs for groups 1 to 4 allows you to view the integration data of each group. Clicking the Display All tab allows you to view the totalized data of all the channels.
- Extracting integrated data

Select the fields containing the integrated data to be extracted and then press [Ctrl] and [C] at the same time, and the integrated data in the selected fields is copied to the clipboard. Paste it on Excel or a text editor to use it.

3.9 CSV file conversion

Recorded data (Trend data, Event data, Totalize data) can be converted to CSV file which can be opened by Excel.

Follow the procedure shown below to create a CSV file.

1) Click "Trend data" or "Totalize data".

(Recorded data which is converted to CSV appear on the foremost.)

2) Click "File" \Rightarrow "CSV file conversion"



The CSV file has now been created. (The CSV file will be created in the folder that contains the recorded data file.)

3.10 Operation between cursors viewer

The maximum, minimum, and the average value of the recorded data between cursor 1 and cursor 2 are calculated and displayed.

If only one cursor is displayed, the data recorded between the start of recording and the cursor is calculated and displayed.

Click "Window" \Rightarrow "Operation between cursors viewer".



The following erroneous input data is not used for calculation of the average value between cursors.

Data	Value
Bunout	-32768
Error	-32768
Over	32767
Under	-32767

• Extracting the calculation data between cursors

Select the fields containing the data between cursors to be extracted using the mouse and then press [Ctrl] and [C] at the same time, and the calculation data in the selected fields is copied to the clipboard. Paste it on Excel or a text editor to use it.

4. PRINTING

CAUTION If no printer driver is installed in your PC, do not perform printing or preview function. Otherwise, your PC may stop operating.

4.1 Print Preview

To print the record data, click "File" \Rightarrow "Print preview".

S Dat	Viouor										
- Dat	aviewer										
File(F)	Edit(E)	Time sca	ile(T)	"Y" axis(Y)	Viewer(V)	Wind	ow(W)	Information(I)	Analysis(A)	Communication(C)	Help(H)
Oper	n(O)		Ctrl+C		9	2	M1 1 1				
Tota	lize Data	Open(T)				<u> </u>		1145 581			
Close	e(C)										
CSV	file conve	rsion									
Save	e siewer s	etting(S)									
Save	e as(A)										
Print	(P)										
Print	preview(V)									
E×it(X)										

A Print Preview screen is displayed.



[Detailed record data]

You can switch between the two types of the measured value printing, those of the cursor position and flag position. The contents to be printed can be switched on the "Print Setting" screen in Section 4.2 Print Preview Menu. If the trend screen is switched to the all channel display screen, the measured values at the cursor position are printed without fail. (1) Measured value printing of the cursor position

file name : F: PILC : PI serial No. : Si version : Ve The number of ch : 9 Display refreshme : 1 The number of ree : 10 Group No. : G Group name : PI File start time : 22	\\$000002.fdt HL11B11-E11YY No.A2M0262T NO.7 er.V01L NO.7 er.V01L NO.7 er.V01E NO.4 ent cycle NO.5 sec NO.5 sec NO.5 cording data NO.7 627 NO.6 1 NO.5 HL NO.1	Cursor 1 data : 1 TAG 01 2 TAG 02 3 TAG 03 1 TAG 04 5 TAG 05 3 TAG 06 3 TAG 07 3 TAG 09 1 TAG 09 1 TAG 09 10:	2002/06/04 10:47:0 CH.: 1 Red 2 Blue 3 violet 4 Green 5 Deep green 6 Purple 7 Sky blue 8 Yellow 9 Indigo	7Cursor 2 data MIN 201.7 MIN 201.7 MIN 201.7 MIN 201.7 MIN 201.7 MIN 201.7 MIN 201.7 MIN 201.7 MIN 201.7 MIN 201.7	:2002/06/04 10: MAX298.3 MAX298.3 MAX298.3 MAX298.3 MAX298.3 MAX298.3 MAX298.3 MAX298.3 MAX298.3 MAX298.3 MAX298.3	48:24 Unit: ບໍ່ບໍ່ ບໍ່ບໍ່ບໍ່ບໍ່ບໍ່ບໍ່ບໍ່ບໍ່ບໍ່ບໍ່ບໍ່ບໍ່ບໍ່ບ
File stop time : 20	File property		Channel setti	Lng	Meas	 ured value

Printing time: 4/2/2005 14:01:21

To print measured value

Following three prints are available.

- 1) When cursor 1 and 2 is in trend display.
 - Max/Mini value of measured value between cursor 1 and 2 can be printed.
- When cursor 1 is in trend display.
 Time measured value of cursor 1 can be printed.
- 3) Except to above 1) and 2).

Measured value of lead trend display can be printed.

(2) Measured value printing of the flag position



Printing measured values

- If measured values are displayed vertically, the first to fourth values on the trend screen are printed. If measured values are displayed horizontally, the first to sixth values on the trend screen are printed.
- If the maximum/minimum recording method is selected as a channel recording method, an intermediate value of the maximum and minimum values is printed.

4.2 Print Preview Menu

🖷 Print Preview		1000
Print Title setting Print Setting Refr	esh Vertical Viewer Horizontal Viewer Zoom in Zoom out Prev page Next page Exit	lenu
	Printing time: 4/2/2005 14:01:21	
file name : F:\\$000002.id: PILC : PILIBITI-ETTY serial No. : \$No.A2M0262T version : Ve.V0T The number of channel Display refreshment cycle : 1ac: The number of recording data : 1527 Group No. : GT Group No. : GT Group nome : PIL File start time : 2002/05/04 11:44:49 File start time : 2002/05/04 11:44:49 File start time : 2002/05/04 11:45	Cursor 1 data 2002/06/04 10:47:07Cursor 2 data :2002/06/04 10:48:24 NO.1 TAG 01 CH:: Unit: Unit: NO.1 TAG 02 Blue HIN 201 7 MAX:98.3 C NO.3 TAG 02 Blue HIN 201 7 MAX:98.3 C NO.3 TAG 03 statet HIN 201 7 MAX:98.3 C NO.5 TAG 04 Street HIN 201 7 MAX:98.3 C NO.5 TAG 05 5 Deep green HIN 201 7 MAX:98.3 C NO.5 TAG 05 5 Deep green HIN 201 7 MAX:98.3 C NO.5 TAG 05 5 Deep green HIN 201 7 MAX:98.3 C NO.7 TAG 07 7 Dis table HIN 201 7 MAX:98.3 C NO.7 TAG 08 8 Veloce HIN 201 7 MAX:98.3 C NO.8 TAG 08 8 Veloce HIN 201 7 MAX:98.3 C NO.9	

- "Print": Allows you to print recorded data that specified by "Print Setting", "Vertical Viewer" and "Horizontal Viewer".
- "Title setting":

The number of title character is up to 80.

Title remains until data viewer is closed.

🖷. Title setting	×
Title name	
, 	Connect
	Lancei

• "Print Setting":

Allows you to set the width of lines in printouts and select continuous printing.

V	Print setting	×	
	Printing method of measurement • Print of measurements value at cursor position(standard) • Print of measurements value at flag position		Select the contents of detailed record data.
	Width of lines Measured data 0.25 pt Frame 0.25 pt Grid 0.25 pt Scale 0.5 pt		Set the width of lines of printouts.
1	Print Area Display screen print Continuous print (Display time width) Continuous print (Set time width) Continuous printed cycle of time width U day U hour I min Continuous printed number of pages S page		 Select the type of printing. 1) Prints the displayed screen only. 2) Continuously prints the specified pages within the time width selected on the screen. 3) Continuously prints the specified pages in the cycle selected.
	OK Cancel	_	Number of pages to be printed

- "Refresh": Allows you to upgrade the Pre-Viewer screen when set values are changed on "Print Setting".
- "Vertical Viewer": Allows you to switch to "Vertical Viewer" from the Horizontal Pre-Viewer screen.
- "Horizontal Viewer": Allows you to switch to "Horizontal Viewer" from the Vertical Pre-Viewer screen.
- "Zoom in": Enlarges the size of the Pre-Viewer screen.
- "Zoom out": Reduces the size of the Pre-Viewer screen.
- "Prev page": Displays the previous print preview screen.
- "Next page": Displays the next print preview screen.
- "Exit" Returns to the former Data Display screen.

4.3 Example of Printing on Print Pre-Viewer screen

(Vertical viewer printing)





4.4 Printing

Click "File" \Rightarrow "Print".

🗊 Data¥iewer				
File(F) Edit(E) Time scale(T) "Y" a	xis(Y) = Viewer(V) = Window(W)	Information(I) Analysis(A)	Communication(C)	Help(H)
Open(O) Ctrl+O Totalize Data Open(T)	🛎 🛃 🖬 🍸 🕅 1Þ	K 2 2 N		
Close(C)				
CSV file conversion				
Save siewer setting(5)				
Save as(A)				
Print(P)				
Print preview(V)				
Exit(X)				
	,			

The Print dialog box appears

Pri	nt		? ×
Г	Printer		
	<u>N</u> ame:	Lexmark Z11 Series ColorFine	Properties
	Status:	Default printer; Ready	
	Туре:	Lexmark Z11 Series ColorFine	
	Where:	LPT1:	
	Comment:		🥅 Print to file
Γ	Print range		Copies
	• <u>A</u> II		Number of <u>c</u> opies: 1 💽
	C Pages	from: 0 to: 0	
	O <u>S</u> electi	on	
			OK Cancel

Select the printer to be used and the size of paper, and then click [OK], and printing is started.

(Example of printing)



A5E02473314C-01

5. FILE COUPLING FUNCTION

• Two or more record files and event data files can be combined into one.



- Record files are combined in chronological order of recording.
- The name of the combined file is the one originally selected except that the second character is replaced with "C."

Example:

Name of original files 1. S000000.FDT(A000000.FDT) 2. S000001.FDT(A000001.FDT) Name of combined files SC00000.FDT(AC00000.FDT)

- No change is made to the original record files to be combined. Note that if a combined file is selected for the first file of those to be combined, that file can be overwritten.
- If there is time interval between the files to be combined, the measurement during the period is supplemented by "0."
- Record files with different settings cannot be combined.
 - (1) When record format (ASCII, Binary) is different
 - (2) When "Refreshment cycle" is different
 - Example: If the "Refreshment cycle" of record file 1 is 1 second, while that of record file 2 is 30 seconds, those files cannot be combined.
 - (3) When the number of channels recorded is different
 Example: If the number of record channels of record file 1 is 9, while that of record file 2 is 18, those files cannot be combined.
 - (4) When channel record type is different (File 1: MIN-MAX, File 2: average recording, etc.)
 - Example: If the record type of channel 1 of record file 1 is MIN-MAX recording, while that of channel 1 of record file 2 is average value recording, those files cannot be combined.
- Files that can be combined are record files and event files only. Totalize files cannot be combined.
- Note) The size of the combined file is the sum of the size of the original files. Be careful not to create a file that is too large.
 - The time interval between the files to be combined, if any, is supplemented by dummy data. If the time interval is too long, the size of the combined file becomes too large.

5.1 How to couple files

Follow the procedure shown below to combine files.

1) Display the file coupling screen by clicking [File (F)] – [File Coupling (F)].

File(F)	Communication	Edit(E)	Time sca
Open Totali Close CSV Save Save	O O. C. O. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D. D.	Ctrl+O	
File C Print(Print Exit(<u>X</u>	oupling(E) E) preview(<u>V</u>))		

- 2) Select the folder in which record files to be combined are stored (1).
- The record file stored is displayed in (2). (Event data files are not displayed.) Select the files to be combined, and press the "Select>>" button in (3)
- 4) The files to be combined are displayed in (4).
- 5) Press the "Coupling" button (5) if the displayed files are to be combined, and the files are combined in the folder in which the record files have been stored.



6. FILE DOWNLOAD FUNCTION USING ETHERNET COMMUNICATION

- Record files stored in a compact flash card for the display recorder can be downloaded using Ethernet communication. The files can also be deleted.
- Note) Ethernet communication option is required to use this function.
 - Set the FTP server function setting to ON to use this function.

6.1 How to download files

Follow the procedure shown below to download record files.

1) Display the screen on which the display recorder and Ethernet communication are to be connected by clicking [Communication] – [FTP].

🔈 DataViewer								
File(<u>F</u>)	Communic	ation	$\operatorname{Edit}(\underline{E})$	Т				
20	FTP	ΞQ						

- Select the IP Address (1) of the display recorder to be connected. Then select user name (1) and password (2), and click the "Connect" button (4). The file download screen is displayed when communication is established.
 - * If the "FTP access function" is set to OFF, connection can be established even if common user name "ftp" is selected as a user name.

🛼 FTP Con	nect	×
IP Address	192 168 1 3	(1)
Access contro	i	
User name	fic	(2)
Password	**	(3)
-		(4)
	Connect	

- 3) Select a folder to which the read file is to be stored on the folder select screen (5).
- 4) The file that is recorded in the compact flash card of the display recorder is displayed (6). Check a file to be read on your PC. (Two or more files can be selected.)
- 5) Press the "Download" button (7), and reading of the selected file is started.



- Note) Click "T File" on the upper right-hand corner of the screen to read a totalize file.
 - To delete a file, select the file to be deleted and then click the "Delete" button.
 - If a file having the same name exists in the folder to which the file is to be stored, the file cannot be read.

7. AUTOMATIC ACQUISITION FUNCTION FOR RECORD FILE, USING FTP COMMUNICATION

- The record file inside the compact flash card (CF) in the recorder on Ethernet is loaded into your PC by starting FTP communication periodically.
- Record files are automatically fetched from a maximum of ten recorders.
- Loaded record data is stored in a folder inside the folder in which the data viewer is installed. The name of stored file is the name produced in IP Address of recorder where FTP communication was made.

For example, when IP address of recorder is 192.168.1.1, folder name is IP192168001001.

• The re-start confirmation screen for automatic acquisition function is displayed when data viewer is finished and restarted while automatic acquisition function for record file is in operation.

(Caution)

- When using this function, Ethernet communication option is required for display recorder.
- When using this function, set "FTP server function" of display recorder to the ON state.

7.1 How to fetch files using FTP communication

Follow the procedure below to automatically fetch record files.

(1) Select "Communication" \Rightarrow "Record file fetch" to display the setting screen.



- (2) Perform the settings in the following orders.
 - 1) Set the IP address of the display recorder on the Ethernet.
 - 2) Set the user name.
 - * If the "FTP access management" of the display recorder is set to OFF, the connection can be realized in the condition in which the common user name "ftp" is set as a user name.
 - 3) Set the password.
 - 4) Select check boxes of desired display recorders for automatic acquisition.
 - 5) Set the fetch cycle (FTP communication cycle).
 - * Setting range Day: 0 to 60 Hour: 0 to 24
 - 6) Select "Start" to start automatic acquisition.



7.2 Description of the setting screen

In addition to the contents described in Section 7.1, the following are displayed on the automatic acquisition setting screen for record files.

- 7) An automatic acquisition communication condition of a record file is displayed. "OK" is displayed if the previous automatic acquisition was completed properly, and "NG" is displayed if it failed.
- 8) The next automatic acquisition time is displayed.
- 9) The automatic acquisition function result is displayed.

Result log samples of automatic acquisition function

	Communication log sample				
Automatic downloading start log	2006/05/12 10:20:30 Record file fetch start.				
Automatic downloading re-start log	2006/05/12 10:20:30 Record file fetch restart.				
Automatic downloading stop log	2006/05/12 10:20:30 Record file fetch stop.				
Stop log related to viewer end	2006/05/12 10:20:30 Viewer stop.				
Log at the time of FTP communication error	2006/05/12 10:20:30 FTP communication error!				
Log for user name error	2006/05/12 10:20:30 FTP user name error!				
Log at the time of password error	2006/05/12 10:20:30 FTP password error!				
Log at the time of downloading file	2006/05/12 10:20:30 S000000.FDT file fetch.				
Log at the time of file download error	2006/05/12 10:20:30 S000000.FDT file fetch error!				

7.3 Files that can be downloaded

- Following files are downloaded.
 - (1) Record file: S*****.FDT
 - (2) Event file: A*****.FDT
- (3) Totalize files: T*****.FDT, D*****.FDT, W*****.FDT, M*****.FDT
 - Y******.FDT, R*****.FDT, E*****.FDT
- When a file with the same file name already exists in the folder, check if the two are the same. If not, overwrite it.

8. REAL TIME TREND FUNCTION

• The measured values of the recorder in the Ethernet and the RS-485 communication are read periodically to show them in the trend display and the digital display.

• Up to 86400 read values can be recorded in PC and checked in the standard trend screen.

(Note)

- The Ethernet communication option or the RS-485 communication option is required for the display recorder to use this function.
- Set the "MODBUS TCP/IP function" of display recorder to ON to use this function in the Ethernet communication.
- Reading process of the measured values stops during the FTP communication.
- When reading of the measured values of the recorder in each periodic cycle fails, "0" is saved as the measured values in that cycle. (It appears as if the instruction changed suddenly.)
- The real-time trend function can be used only for one recorder at a time.
- The real time trend screen can be displayed only in the horizontal direction.
- When you change the setting of the recorder during the real-time trend, stop the real-time trend, restart it and update the setting. (The setting values of the recorder are not updated automatically.)

8.1 Display method of real time trend screen display method

Follow the procedure shown below to display the real time trend screen.

(1) Select "Communication" \Rightarrow "Real time display" to display the real time trend setting screen.

🔑 Data Vie	wer - (Trend Vi	ewer01	[C:\Doci	uments	
₩ File(F)	Communication	Edit(E)	Time so	cale(T)	
20	RealTime Tre	nd			
[1:	1: Record file fetch				
	No01 🛨				
[*C]	620 A	Λ	Λ	Λ	

- (2) Set the real-time trend setting items shown below and press the "real-time display" button.
 - 1) Select the communication method (Ethernet or RS-232C).
 - Select the read cycle for the measured values. The read cycle can be selected from 1, 2, 3, 5, 10, 20, 30 seconds and 1 minute. The shorter a read cycle is, the higher the percentage of reading error is. So adjust the read cycle according to the PC environment.
 - 3) Set the station No. of the recorder, which you communicate with.
 - 4) Set the communication condition for Ethernet and RS-232C.

In the case of Ethernet : Set the IP address.

In the case of RS-232C : Set the communication port, communication speed and parity.

(3) Press the "Start" button on the real time trend screen to start communication with the recorder.



8.2 Description of real time trend screen

The following items are displayed on the real time trend screen.



(4) Real time trend display magnification

(1) Real time trend operation buttons

Start Starts the real time trend communication				
Stop	Stops the real time trend communication			
Measurement value	The screen showing the measured values in numerical display appears. The measured values recorded in PC are displayed in the standard trend display screen.			
Analysis	(Note) As this process takes time, communication stops during the processing.			

(2) Communication status

The color and comment of square box indicates the communication status of real time trend.

Blue	Communication status
Red flicker	Status during communication
Red	Communication error status

(3) Measurement value read interval Measurement value read interval is displayed.

(4) Real time trend display magnification

Real time trend display magnification is set.

"x1" is the standard. When the value is larger than it, the trend screen display is compressed, and when the value is smaller than it, the display is enlarged. Display magnification is set with the button in the top right of the screen.

Setting range of the display magnification : $\times 0.1$, $\times 0.5$, $\times 1$, $\times 2$, $\times 10$, $\times 60$

8.3 Description of measurement value display screen

Pressing the "Measurement value" button on the real time trend screen displays the measurement value display screen as shown below. You can check the measurement value, tag, unit and alarm information of each channel in this screen. Note that, only measurement value can be checked in the total display of the measurement value display screen.

·Measurement value display screen for each display group

D	RealTime Instant Image: State									
	CH1	TAG 01	CH2	TAG 02	CH3	TAG 03	CH4	TAG 04	CH5	TAG 05
		40.5		40.5		40.5		40.5		40.5
	1 2	3 4 m∨	1 2	3 4 m∨	1 2	3 4 m∨	1 2	3 4 m∀	1 2	3 4 m∨
	CH6	TAG 06	CH7	TAG 07	CH8	TAG 08	CH9	TAG 09		
		40.5		40.5		40.5		40.5		
	1 2	3 4 mV	1 2	<mark>3 4</mark> m∨	1 2	3 4 m∨	1 2	3 4 m∨	1 2	3 4

·Measurement value display screen for total display

Ņ	RealTime Instant												
Di	Display Group1 Display Group2 Display Group3 Display Group4 Display all												
_	Time: 2007/04/03 11:15:06												
	CH1	40.9	CH2	40.9	CH3	40.9	CH4	40.9	CH5	40.9			
	CH6	40.9	CH7	40.9	CH8	40.9	CH9	40.9	CH10	204.3			
	CH11	204.3	CH12	204.3	CH13	204.3	CH14	204.3	CH15	204.3			
	CH16	204.3	CH17	204.3	CH18	204.3							

9. SIMPLE FORM FUNCTION

• You can create the following list of daily, monthly and annual reports from form data files displayed on the viewer.

)aily		2003/	11/16			2008/	01/08	21:40:10	
		Channel01							
ag		TAG 01							
Jnit		°C							
ime		Point Value	Maximum	Minimum	Average	Totalize(/h)			
0	- 1H	249.8	299.9	200.1	250.0	250.0			
1	- 2H	242.0	299.9	200.1	250.0	250.0			
2	- 3H	234.2	299.9	200.1	250.1	250.1			
3	- 4H	227.0	299.9	200.1	250.1	250.1			
4	- 5H	220.0	299.9	200.1	250.1	250.1			
5	- 6H	214.0	299.9	200.1	250.1	250.1			
6	- 7H	208.9	299.9	200.1	250.1	250.1			
7	- 8H	204.9	299.9	200.1	250.1	250.1			
8	- 9H	202.2	299.9	200.1	250.1	250.1			
9 -	· 10H	200.6	299.9	200.1	250.1	250.1			
10 -	• 11H	200.2	299.9	200.1	250.1	250.1			
11 -	- 12H	201.1	299.9	200.1	250.1	250.1			
12 -	- 13H	203.2	299.9	200.1	250.1	250.1			
13 -	- 14H	206.6	299.9	200.1	250.1	250.1			
14 -	- 15H	211.0	299.9	200.1	250.1	250.1			
15 -	- 16H	216.8	299.9	200.1	250.1	250.1			
16 -	- 17H	223.4	299.9	200.1	250.1	250.1			
17	- 18H	230.5	299.9	200.1	250.0	250.0			
18	- 19H	238.0	299.9	200.1	250.0	250.0			
19	- 20H	245.8	299.9	200.1	250.0	250.0			
20	- 21H	253.8	299.9	200.1	250.0	250.0			
21	- 22H	262.0	299.9	200.1	250.0	250.0			
22	- 23H	269.8	299.9	200.1	249.9	249.9			
23	· 24H	277.1	299.9	200.1	249.9	249.9			
Resu	lt	•	299.9	200.1	250.1	6001.4			

• Lists are created by calculating the following values from record data files.

Calculated value	Description
Instantaneous value	Measured values of the channels on the hour are stored.
Maximum value	Maximum values of measured values of the channels during a
	specified period are stored.
Minimum value	Minimum values of measured values of the channels during a
	specified period are stored.
Mean value	Mean values of measured values of the channels during a specified
	period are stored.
Totalize value	Totalize values of measured values of the channels during a
	specified period are stored.
	Base time for totalize values is one hour (/h).

• The following values are calculated from the lists of the daily, monthly and annual reports.

	Description
Daily report	Hourly values of a day in which the cursor is placed
Monthly report	Daily values of a month in which the cursor is placed
Annual report	Monthly values of a year in which the cursor is placed

• Lists are created based on the time of the cursor 1 on the trend screen displayed.

List results of daily, monthly and annual reports are saved as CSV files.
 List files are created in folders of record data files from which the list files were created.
 File names of list files are automatically created from record data file names from which the list files were created, as shown below.

	Composition of list file names	List file names created if a record
		data file name is "S000000.FDT"
Daily report	Record file name + "Daily" + A date	S00000Daily20070227.csv
	of a daily report	
Monthly report	Record file name + "Monthly " + A	S00000Monthly200702.csv
	year and month of a monthly report	
Annual report	Record file name + "Annual" + A	S000000Annual2007.csv
	year of a Annual report	

9.1 How to display the list display screen

Follow the procedure below to display the list display screen.

(1) Display the trend screen, and place the cursor 1 in a date from which you want to create a list.



(2) Click "Window" \Rightarrow "List display" to display the "Select the list display type" screen.

ver(V) Window(W) Help(H) Overlapped Windows(C) Vertical windows(V) Herispotal windows(H)	
Overlapped Windows(C) Vertical windows(V)	
Honzontal Windows(H)]
Instant value viewer Alarm/Message/Flag list Operation between cursors viewer List display	
✓ 1 Trend Viewer01[C:\\$000000\\$000010.FDT]	

(3) Select the list display type to display the list display screen.



(4) Click "Save" at the lower left of the screen to save the list result as a CSV file.

Daily		2003/	11/16			2008/	01/08	21:40:10	
		Channel01							
ſag		TAG 01							
Jnit		°C							
Time		Point Value	Maximum	Minimum	Average	Totalize(/h)			
0 -	1H	249.8	299.9	200.1	250.0	250.0			
1 -	2H	242.0	299.9	200.1	250.0	250.0			
2 -	ЗH	234.2	299.9	200.1	250.1	250.1			
3 -	4H	227.0	299.9	200.1	250.1	250.1			
4 -	5H	220.0	299.9	200.1	250.1	250.1			
5 -	6H	214.0	299.9	200.1	250.1	250.1			
6.	7H	208.9	299.9	200.1	250.1	250.1			
7.	8H	204.9	299.9	200.1	250.1	250.1			
8.	9H	202.2	299.9	200.1	250.1	250.1			
9.	10H	200.6	299.9	200.1	250.1	250.1			
10 •	11H	200.2	299.9	200.1	250.1	250.1			
11 -	12H	201.1	299.9	200.1	250.1	250.1			
12 -	13H	203.2	299.9	200.1	250.1	250.1			
13 -	14H	206.6	299.9	200.1	250.1	250.1			
14 -	15H	211.0	299.9	200.1	250.1	250.1			
15 -	16H	216.8	299.9	200.1	250.1	250.1			
16 -	17H	223.4	299.9	200.1	250.1	250.1			
17 -	18H	230.5	299.9	200.1	250.0	250.0			
18 -	19H	238.0	299.9	200.1	250.0	250.0			
19 -	20H	245.8	299.9	200.1	250.0	250.0			
20 -	21H	253.8	299.9	200.1	250.0	250.0			
21 -	22H	262.0	299.9	200.1	250.0	250.0			
22 -	23H	269.8	299.9	200.1	249.9	249.9			
23 -	24H	277.1	299.9	200.1	249.9	249.9			
Result	t	-	299.9	200.1	250.1	6001.4			

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