

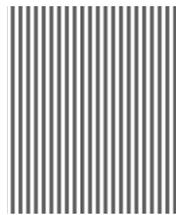


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**Data Acquisition Software Package**

**KIDS**

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 **INSTRUCTIONS**

Thank you for your purchase of the data acquisition software KIDS.  
For using this software correctly and safely, please read this instruction manual thoroughly before installing.

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**Notice**

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# 1. Outline

KIDS is a software package used to acquire data measured by CHINO's hybrid recorders, scanners, thyristor regulator and controllers.

## 1-1 Main functions and features

By connecting the following instruments and a personal computer via a communications interface, measured data are acquired and displayed on a computer screen. Up to 100 sets of instruments can be connected or up to 100 points of data can be managed.

**MODBUS instruments** ----- Data of the following instruments up to 31 sets can be acquired.

- Graphic recorder BR series
- 180mm hybrid recorder AH300 series
- 100mm hybrid recorder AL3000 series
- Field scanner SE3000 series (Range and scale can be changed.)
- Digital indicating controller LT series
- Single phase Thyristor regulator JU series
- 3-phase thyristor regulator JW series
- Network logger KE3000 series (Range and scale can be changed.)

**Caution:** Each instrument requires a communications interface (RS-232C, RS-422A or RS-485).

**Ethernet instruments** ••• Data of the following instruments up to 100 sets can be acquired.

- Graphic recorder BR series
- 180mm hybrid recorder AH300 series
- 100mm hybrid recorder AL3000 series
- Field scanner SE3000 series
- Network logger KE3000 series

**Caution:** Each instrument requires an ETHERNET interface.

**MODBUS and Ethernet instruments can be mixed, and up to 100 sets of instruments can be connected.**

- You can display acquired data in a table format or a trend format and can print them as a daily report.
- Acquired data can be converted into CSV format or text format.
- Data replay, Trend replay and Daily report printing can be done from data (data being stored into an FD or a memory card) acquired by graphic recorder BR.
- Data replay, Trend replay and Daily report printing can be done from data (data being stored into a memory card) acquired by network logger KE3000.
- Alarm information generated from instruments can be displayed as a list, stored in CSV format or text format, and printed.
- By using the DDE (Dynamic Data Exchange) function, you can transfer acquired data with real-time processing to other applications including Excel.

## 1-2 KIDS specifications

### 1-2-1 System Requirements

#### <Hardware>

CPU	Pentium II 300MHz or faster
Memory	At least 48MB (64MB recommended)
Disk drive	CD-ROM drive : 1 drive or more (for installing KIDS) Hard disk drive : 1 drive (at least 100MB of free space) or more
Communications port	<ul style="list-style-type: none"> <li>● Connection with MODBUS instruments Either 1 port of the communication ports (COM1 to COM9) supported by Windows.</li> <li>● Connection with Ethernet instruments LAN port (10base-T) which Windows is supporting.</li> </ul>

#### <Software>

OS Windows98/Me  
WindowsNT4.0/2000/XP Home/XP Pro

\* For Windows NT4.0, Internet Explorer 4.0 or later version is required to display the Help Contents.

### 1-2-2 Communications specifications and number of connectable instruments

#### <MODBUS>

Interface	RS232C/RS422A/RS485 selectable RS232C --- 1 set of instrument can be connected. RS422A, RS485 --- Up to 31 sets of instruments can be connected.
Bit rate	9600bps/19200bps selectable
Protocol	RTU
Character length	8 bits
Parity	None
Stop 1 bit	1 bit
	} Fixed

#### <Ethernet>

Port No. 1 to 65535 (Default value: 11111)  
Up to 100 sets of instruments can be connected.

### 1-2-3 Number of loading data

Maximum 100 points of data

### 1-2-4 Data Acquisition Interval

1 second to 999 minutes 59 seconds

## 2. Installation and Uninstallation

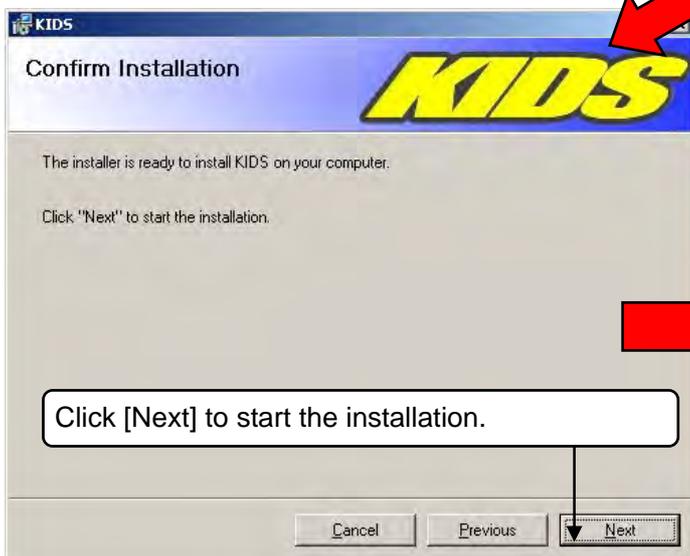
### 2-1 Installing

By selecting English in the Menu window, the window shown below will appear.

Click [KIDS Installation].

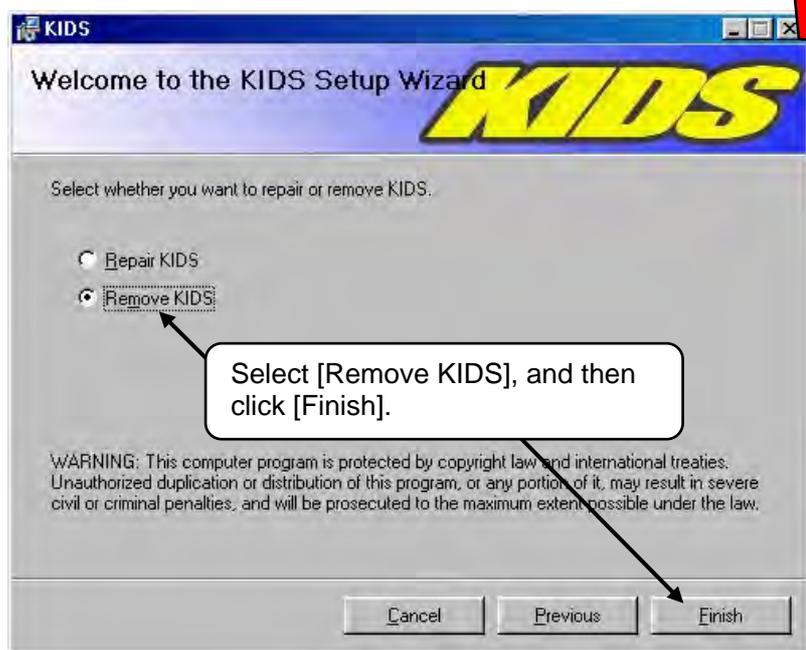
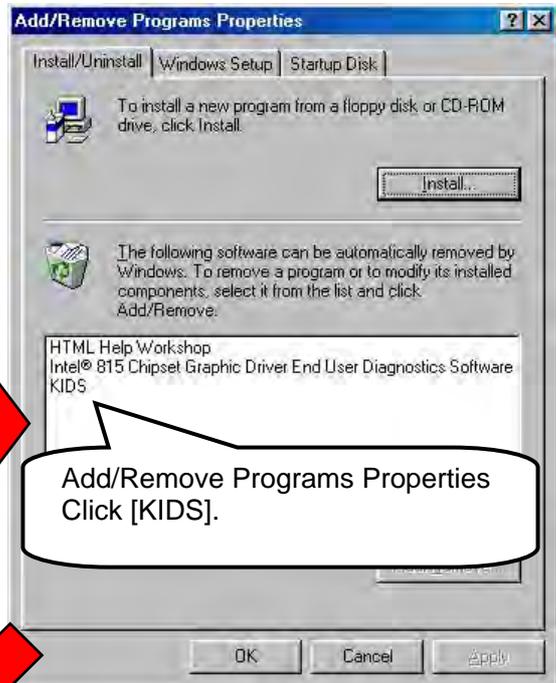
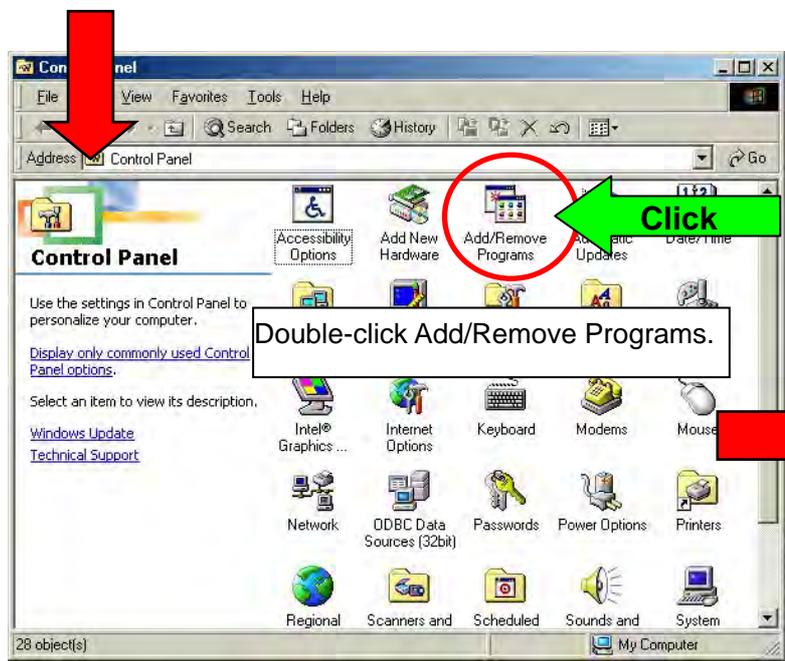
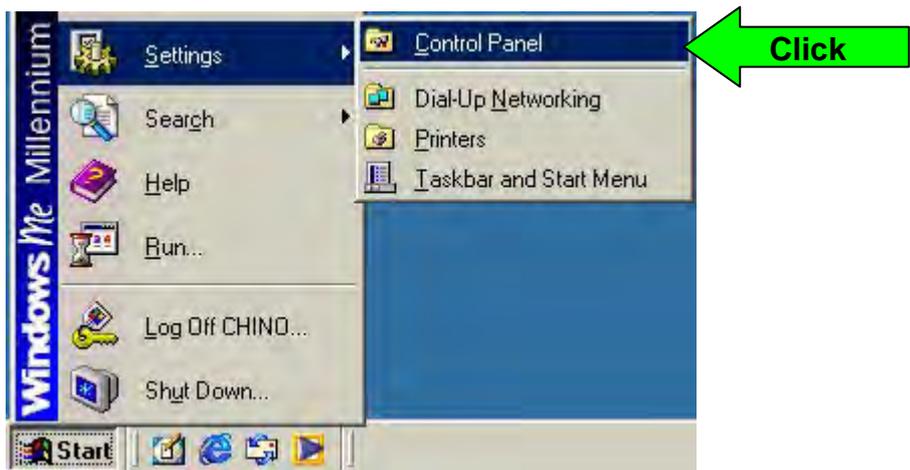


Follow the instructions in the windows shown below.



## 2-2 Uninstalling

Click the Start button, point to Settings, and then click Control Panel.

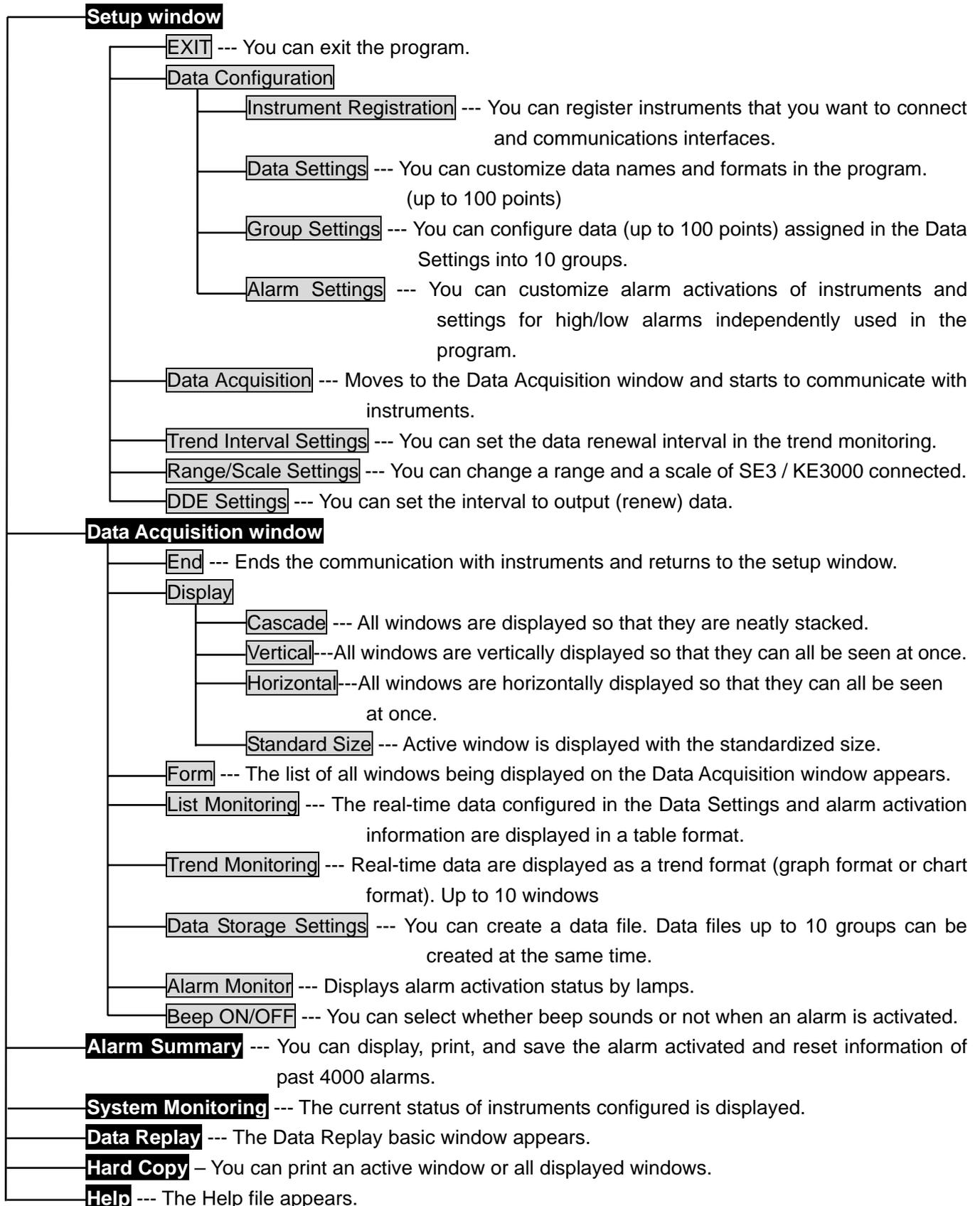


In deleting all, please delete the folder of "KIDS" by Explorer etc.  
※Please do not delete, when you uninstall by upgrade.

# 3. Operation

## 3-1 KIDS block diagram

### <Data acquisition>

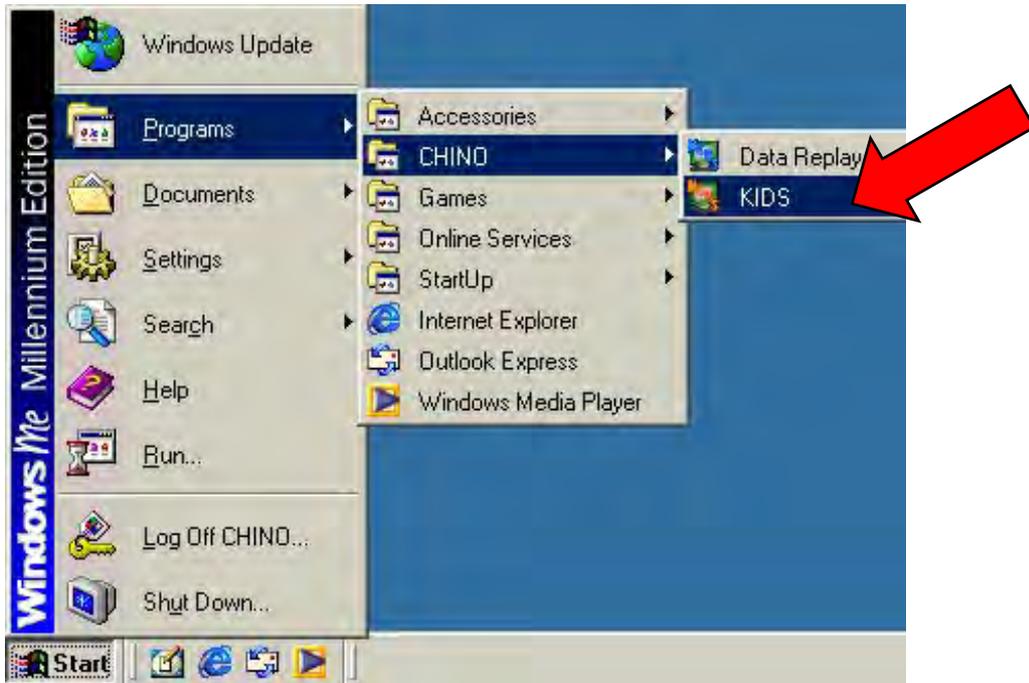


## <Data replay>

- EXIT** --- You can exit the program.
- Display**
  - Cascade** --- All windows are displayed so that they are neatly stacked.
  - Vertical** --- All windows are vertically displayed so that they can all be seen at once.
  - Horizontal** --- All windows are horizontally displayed so that they can all be seen at once.
  - Standard Size** --- Active window is displayed with the standardized size.
- Form** --- The list of all windows being displayed on the Data Replay basic window appears.  
You can select a window to make active.
- Historical Data Monitoring**
  - File Selection** --- You can select files to be displayed in the Historical Data Monitoring.  
Multiple files can be selected.
  - Display Period Settings** --- You can specify a display period within data acquisition period.
  - Data Selection** --- You can select historical data to be displayed or not.
  - Print Settings** --- You can print data in the display period specified.
  - Historical Trend Monitoring** --- You can display historical data in a trend format (graph format or chart format). Up to 10 groups can be displayed.
- File Conversion** --- You can convert a data file into a text or CSV format file.
- Daily Report Printing** --- You can create a daily report from a data file.
- BR Data Conversion** --- You can create a data file, an alarm file, a message file or a daily report file for data stored in a floppy disk or a memory card installed in the BR.
- KE3 File Conversion** --- You can create a data file for data stored in a memory card installed in the KE3000.
- Hard Copy** --- You can print an active window or all displayed windows.
- Help** --- The Help file appears.

### 3-2 Starting up

To start the program, click [Start] button, point to [Programs], point to [CHINO], and then click [KIDS]. To start [Data Replay], click [Data Replay] with the same procedure.



### 3-3 Exiting

To exit the program,

- ① click [EXIT] on the tool bar of the program, or
- ② click [X] in the right corner of the title bar.



**KIDS KIDS KIDS KIDS KIDS KIDS**

## **Easy! Operation guide**

**KIDS KIDS KIDS KIDS KIDS KIDS**

1. Register instruments.
2. Start to communicate with the instruments.
3. Acquire data.  
Through the above three steps, you can easily acquire data.  
To display data in a graph format, proceed to 4.
4. Display data in a graph format.

### **1. Registration of instruments**

**Step1** Start the program, and then click [Regist].

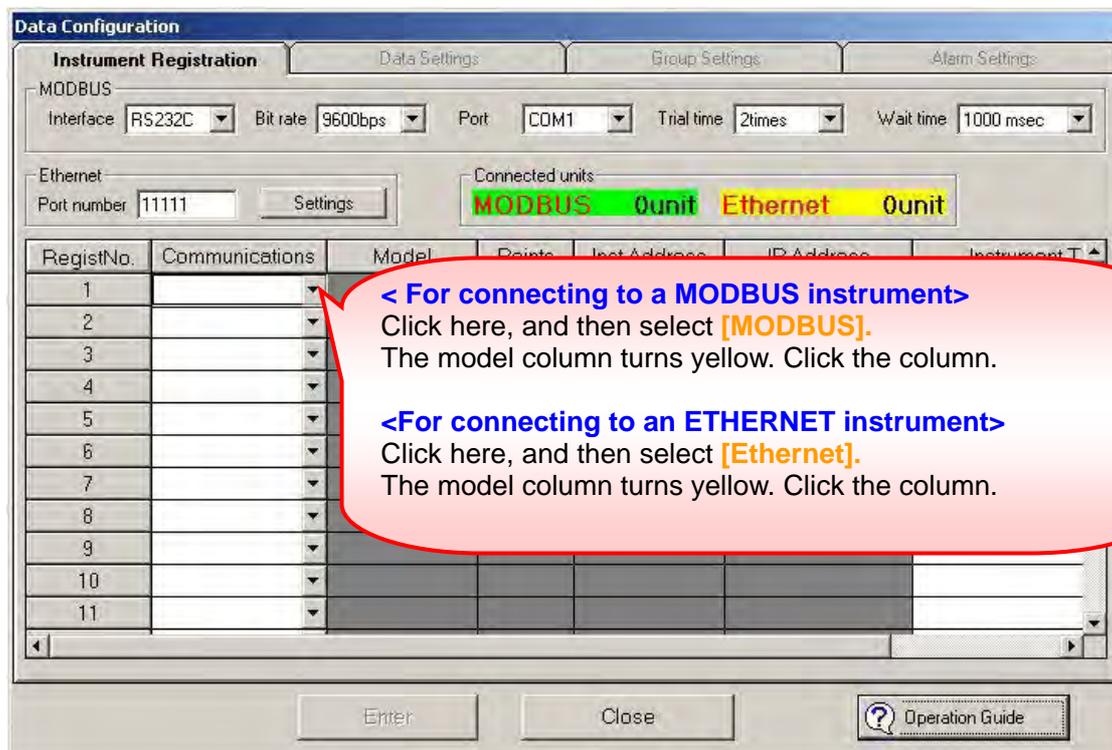


Click [Regist].

## Step2

Select a communications type between your personal computer and the instruments.

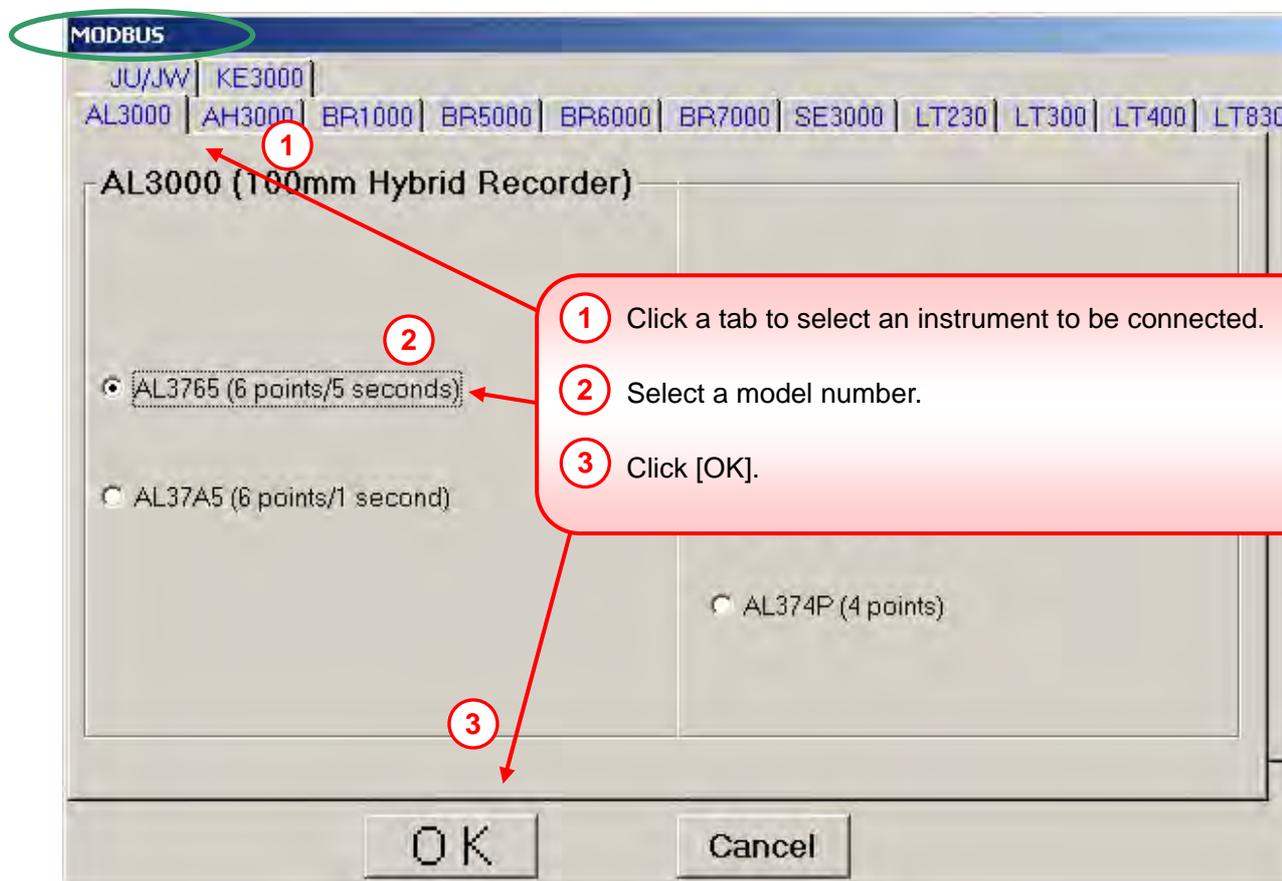
(Select from MODBUS or ETHERNET.)



## Step3

The window shown below will appear. Click a tab to select an instrument to be connected, select a model number, and then click [OK]. (The example shows the selection of AL3765.)

- This window is for MODBUS instruments.
- The same window will appear for ETHERNET instruments.



# Step4

## Address settings

### <MODBUS>

Defaults: Interface RS-232C Bit Rate 9600bps  
When you communicate with a different interface or a different bit rate, change the settings.

The screenshot shows the 'Data Configuration' window with the 'Instrument Registration' tab selected. The MODBUS settings are: Interface: RS232C, Bit rate: 9600bps, Port: COM1, Trial time: 2times, Wait time: 1000 msec. The Ethernet port number is 11111. The 'Connected units' section shows 'MODBUS 1unit' and 'Ethernet 0unit'. A table below lists instrument registrations:

RegistNo.	Communications	Model	Points	Inst Address	IP Address	Instrument T
1	MODBUS	AL3765	6			
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						

At the bottom of the window are buttons for 'Enter' (labeled 4), 'Close', and 'Operation Guide'.

- 1 The instrument address column turns yellow. Click it.
- 2 The instrument address selection window will appear.
- 3 Click the same figure as an address of the instrument configured.  
(For RS-232C, select "1" only.)
- 4 Click [Enter], and then click [Close].

The 'Instrument address' dialog box has a 'Close' button and the text 'Select an instrument address.' Below this is a grid of buttons numbered 1 through 31. A red arrow points to the button labeled '1'.

<Ethernet>

**Data Configuration**

Instrument Registration | Data Settings | Group Settings | Alarm Settings

MODBUS  
Interface: RS232C | Bit rate: 9600bps | Port: COM1 | Trial time: 2times | Wait time: 1000 msec

Ethernet  
Port number: 11111 | Settings

Connected units: MODBUS 0unit | Ethernet 1unit

RegistNo.	Communications	Model	Points	Inst Address	IP Address	Instrument T
1	Ethernet	AL3765	6			
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						

Enter | Close | ? Operation Guide

- ① The IP address column turns yellow. Click it.
- ② The IP address settings window will appear.
- ③ Enter an IP address, and then click [Enter].
- ④ Click [Enter], and then click [Close].

Enter an IP address.

Enter an IP address.

192 | 168 | 3 | 200

Enter | Cancel

## 2. Starting communications with instruments



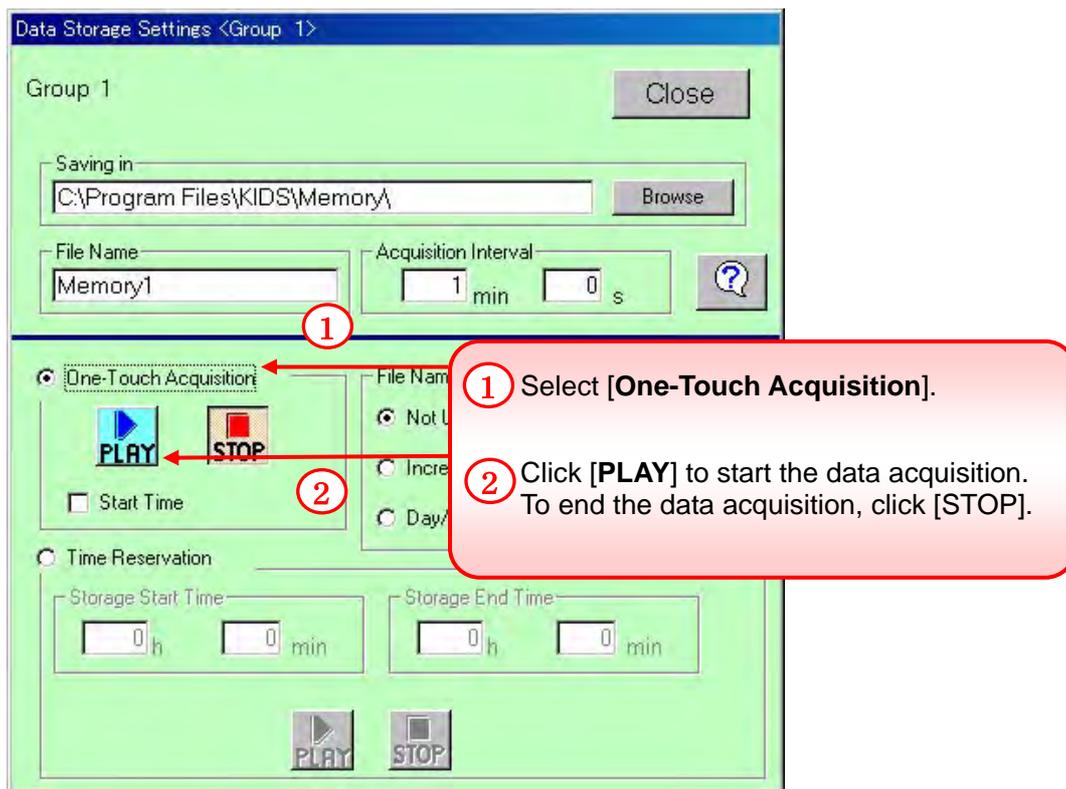
## 3. Data acquisition

The screenshot shows the 'Data Acquisition Software KIDS5' window with the 'List Monitoring' window open. The 'List Monitoring' window contains a table with the following data:

Data No.	Tag	Data Name	Data	Unit	Level1	Level2	Level3	Level4	Level5	Level6
1	1KE3-1		38.8							
2	1KE3-2		22.5							
3	1KE3-3		-2.2							
4	1KE3-4									
5	1KE3-5									
6	1KE3-6									
7	1KE3-7		-1.4							
8	1KE3-8		-1.2							
9	1KE3-9		-1.0							
10	1KE3-10		-0.8							
11	1KE3-11		-0.6							
12	1KE3-12		-0.4							

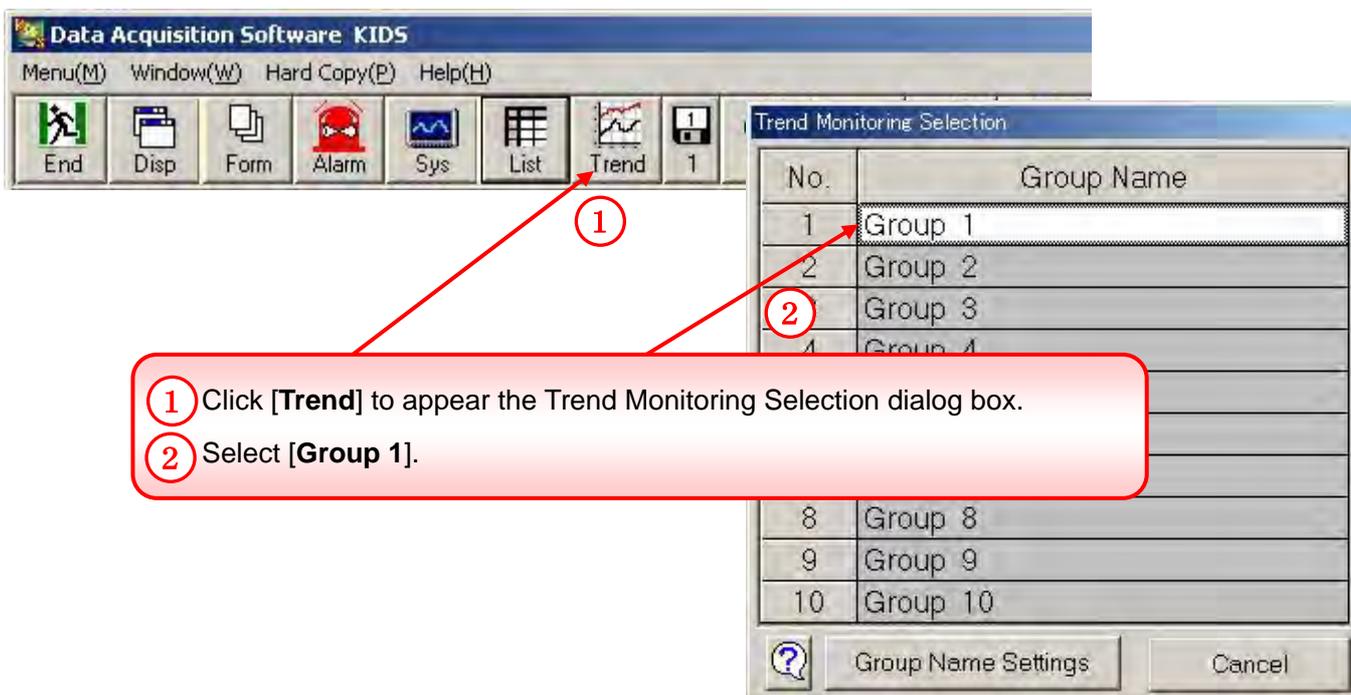
A red arrow points to the floppy disk icon in the toolbar of the 'List Monitoring' window. A red callout box contains the text: 'Click this icon (floppy disk).' The status bar at the bottom shows the date '12/10/2004', time '11:34 AM', and the 'CHINO' logo.

By clicking the icon (floppy disk), the window shown below will appear.



Now the data acquisition is starting.  
When you want to display data in a graph format, proceed to the next procedure.

### 4. Displaying a graph (trend graph)



KIDS KIDS KIDS KIDS KIDS KIDS

# 4. Screen Operation

4-1 By starting the program, the setup window will appear first.



4-2 By clicking the icons on the tool bar, you can select a function.

	Exits the program.
	The Data Configuration dialog box will appear.
	The Data Acquisition window will appear and the communications with instruments will start.
	The Alarm Summary will appear.
	The System Monitor will appear.
	Sets the data renewal interval in the trend monitoring.
	SE3000 Range/Scale Settings dialog box will appear.
	KE3000 Range/Scale Settings dialog box will appear.
	DDE Settings will appear.
	The setting contents of KIDS are saved. (Export of a KIDS setting values)
	The setting contents of KIDS are read. (Import of a KIDS setting values)
	The Data Reply basic window will appear with maximized size.
	Prints an active window or all displayed windows.
	The Help file will appear.

# 5. Settings

## 5-1 Data Configuration

### 5-1-1 Instrument Registration

Set the communications between your personal computer and instruments.

Set an instrument address or an IP address not to overlap each other.

MODBUS Interface: RS422A Bit rate: 9600bps Port: COM1 Trial time: 2times Wait time: 1000 msec

Ethernet Port number: 11111

Connected units: MODBUS 5units Ethernet 2units

RegistNo.	Communications	Model	Points	Inst Address	IP Address	Instrument T
1	Ethernet	AL3765	6		192.168. 3.100	A-1
2	Ethernet	SE3-6P	6		192.168. 3.105	A-2
3	MODBUS	JU	13	1		B-1
4	MODBUS	KE3-12P	12	2		B-2
5	MODBUS	LT4501	3	3		C-1
6	MODBUS	LT2301	3	4		C-2
7	MODBUS	AH3760	6	5		D-1
8						
9						
10						
11						

Buttons: Enter, Close, Operation Guide

Up to 20 alphanumerical characters can be entered.

### 5-1-2 Data Settings

Data are automatically assigned, but you can assign them manually.

<Format> Click here to select a format.

<Unit> Up to 6 characters

<Tag> Up to 8 characters

<Data Name> Up to 20 characters

Data No.	Model	Address	Channel	Tag	Data Name	Format	Min Value	Max Value	Unit
1	AL3765	1	1	1AL3-1	Test1	####	0.0	1000.0	mA
2	AL3765	1	2	1AL3-2	Test2	####	0.0	1000.0	V
3	AL3765	1	3	1AL3-3	Test3	####	0.0	1000.0	mA
4	AL3765	1	4	1AL3-4	Test4	####	0.0	1000.0	V
5	AL3765	1				####	0.0	1000.0	mA
6	AL3765	1				####	0.0	1000.0	V
7	SE3-6P	2				####	0.0	1000.0	mA

Automatic registration

- Recorders, Enter the channel number of the instrument selected.
- LT series  
PV (Process Variable) --- Equivalents to Channel 1.  
SV (Setpoint Variable) --- Equivalents to Channel 2.  
MV (Manipulated Variable) --- Equivalents to Channel 3.
- JU, JW series  
Voltage --- Equivalents to Channel 1.  
Current --- Equivalents to Channel 2.  
Power --- Equivalents to Channel 3.

Data range managed by the program  
For the automatic assignment, the minimum value is 0.0 and the maximum value is 1000.0.

### 5-1-3 Group Settings

- Configure Data Nos. assigned in the Data Settings into a group. (Overlapping configuration enable)
- You can configure up to 10 groups (up to 100 points/group).
- Data of each group set here are stored into memory with the settings in Data Storage Settings.

ON: All Data Nos. are checked in the group specified.  
 OFF: All Data Nos. are unchecked in the group selected.

Data No.	Tag	Data Name	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
1	1AL3-1	Test1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	1AL3-2	Test2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	1AL3-3	Test3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	1AL3-4	Test4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	1AL3-5	Test5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	1AL3-6	Test6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	2SE3-1	Test7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8	2SE3-2	Test8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	2SE3-3	Test9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10	2SE3-4	Test10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11	2SE3-5	Test11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12	2SE3-6	Test12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### 5-1-4 Alarm Settings

Configure the alarm levels 1 to 4 of instruments if their alarm activations will be reflected to the groups or not.

The levels 5 and 6 are alarm information independently used in the program.

The level 5 is a high limit value and the level 6 is a low limit value.

Data No.	Tag	Data Name	Level1	Level2	Level3	Level4	Level5 High limit value	Level6 Low limit value	Unit
1	1AL3-1	Test1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-200.0	-500.0	mA
2	1AL3-2	Test2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	300.5	25.0	V
3	1AL3-3	Test3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	90.56		mA
4	1AL3-4	Test4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			V
5	1AL3-5	Test5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		-30.05	mA
6	1AL3-6	Test6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			V
7	2SE3-1	Test7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			mA
8	2SE3-2	Test8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			V
9	2SE3-3	Test9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			mA
10	2SE3-4	Test10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			V
11	2SE3-5	Test11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			mA

When you want to use these levels of 5 and 6, enter an alarm limit value.

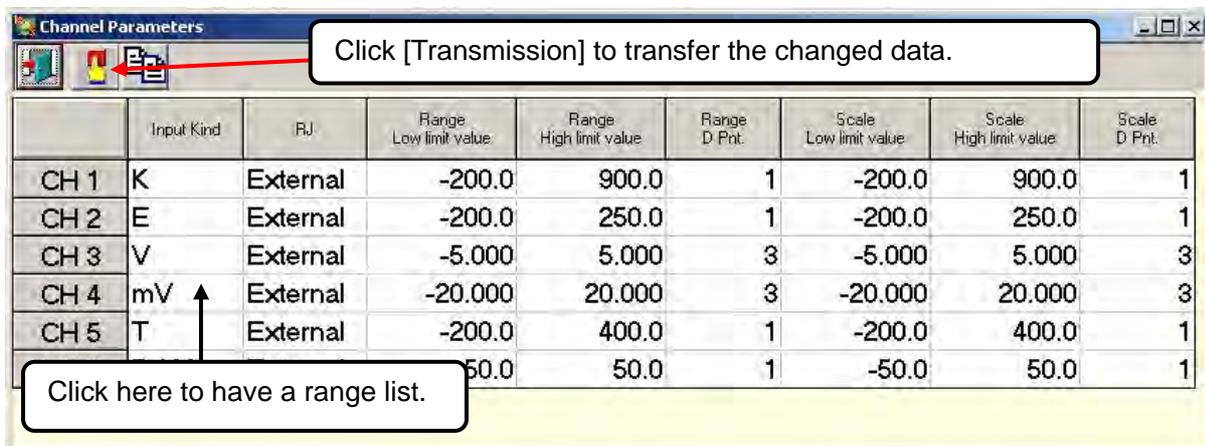
## 5-2 Trend Interval Settings

Enter a data renewal interval (from 1 second to 99 minutes 59 seconds) in the trend monitoring. (Default: 5 seconds)

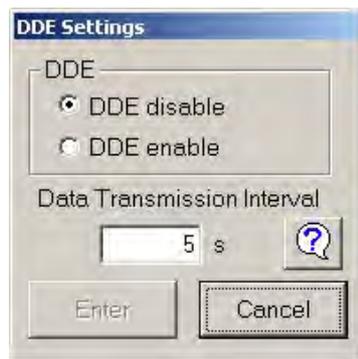


## 5-3 SE3000/KE3000 Range/Scale Settings

You can change a range and a scale of SE3000 / KE3000 connected. (For MODBUS only)



## 5-4 DDE Settings



### \*DDE function

- A Windows function to transfer data to other applications
- By using the DDE function, you can acquire real-time data with other applications and process them.
- The KIDS becomes a server. For acquiring data, the following definitions are required.

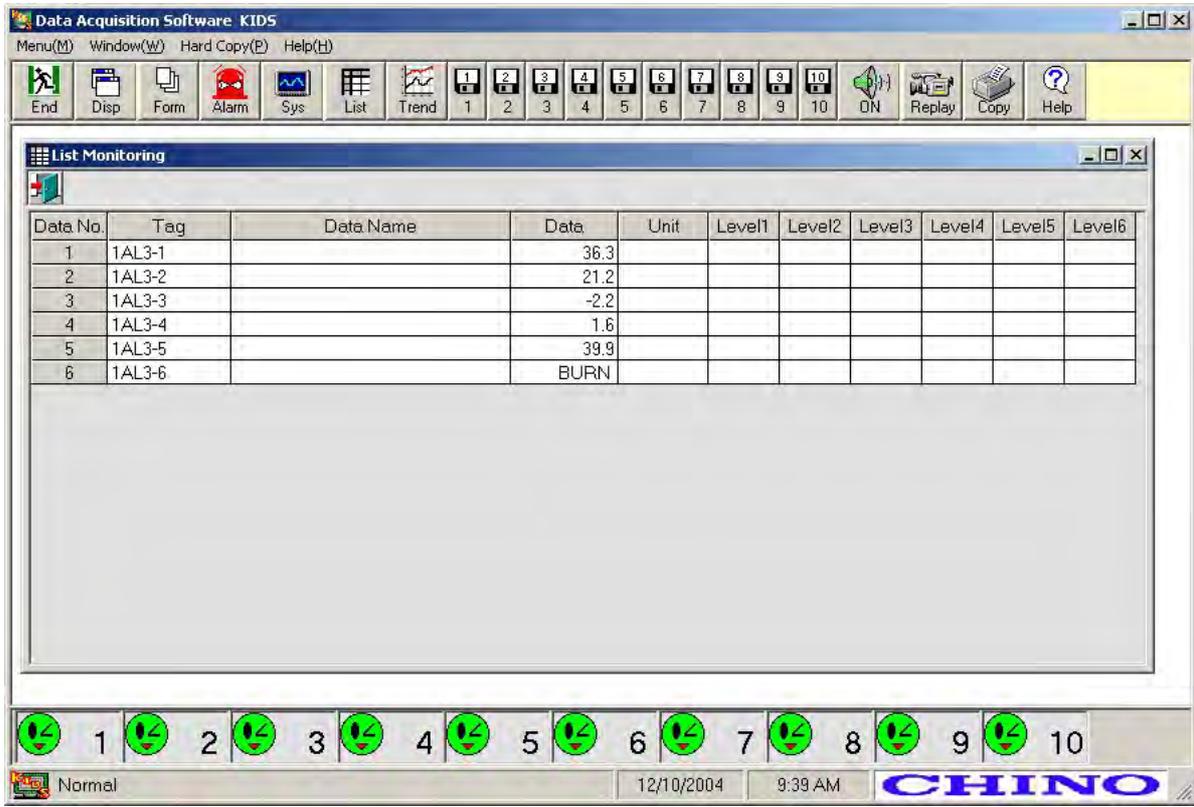
Application name	KIDS
Item	DDE
Topic	DATA1 to DATA100

**Example of description**  
 Definition example to display data in Data No. 1 at a cell of Excel  
 =KIDS|DDE!DATA1

If a faster data transmission interval (1 second to several seconds) is set, a burden imposed on an application utilizing becomes heavy and it may cause obstruction to the operation of application. You are required not to set the interval faster than needs.

# 6. Data Acquisition

## 6-1 Data Acquisition window



6-2 By clicking the icons on the tool bar, you can select a function.



	Ends the communication with instruments and the data acquisition, and moves to the setup window.
	Rearranges all windows being displayed on this window.
	The list of all windows being displayed on this window will appear.
	The real-time data will be displayed in a table format.
	Displays data in a trend format. Up to 10 groups can be displayed.
	Data Storage Settings window (max. 10 groups) will appear. No window appears if any group is not configured.
	Waiting storage --- <b>Black</b> (upper)
	In storage--- <b>Green</b> (middle)
	Error --- <b>Red</b> (lower) ✘Data are not stored in this error condition.
	ON --- Makes a beep sound when an alarm is activated. (upper)
	OFF --- Does not make a beep sound. (lower)

\* The other icons are the same as specified in the setup window.

## 6-3 List monitoring

This window displays real-time data and alarm generation information of instruments.

List Monitoring

Level 5 to 6: Alarm information judged by the program is displayed

Data No.	Tag	Data Name	Data	Unit	Level1	Level2	Level3	Level4	Level5	Level6
1	1BR1-1	LAB 1-1	745.4	°C						
2	1BR1-2	LAB 1-2	72.3	°C				H		
3	1BR1-3	No.3	836.6	F			H			
4	1BR1-4	No.4	326.6	°C						
5	1BR1-5	LAB 1-3	72.3	mV		L				
6	1BR1-6	LAB 1-4	72.3	mV						

Level 1 to 4: Alarm information activated in instruments is displayed

## 6-4 System monitoring

The current status of instruments configured will be displayed.

When an alarm is being activated or communications is abnormal, the background of its instrument will blink in red.

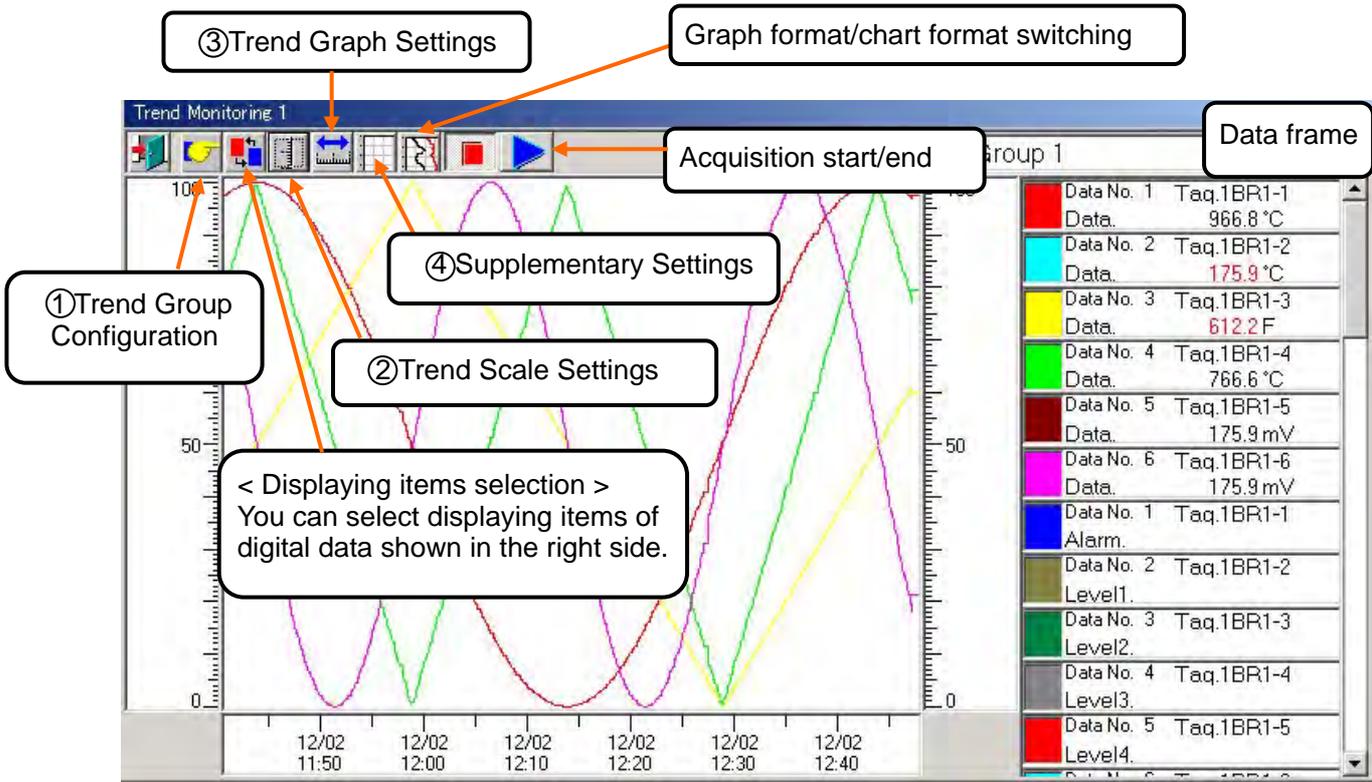
System Monitoring

Connected units **MODBUS 2units** **Ethernet 2units**

RegistNo		Status	Name	Instrument Tag
1		Normal	KE3-12P	Test1
2		Communications error!!!	LT4501	Test2
3		Normal	AH3760	Test3
4		Normal	SE3-6P	Test4

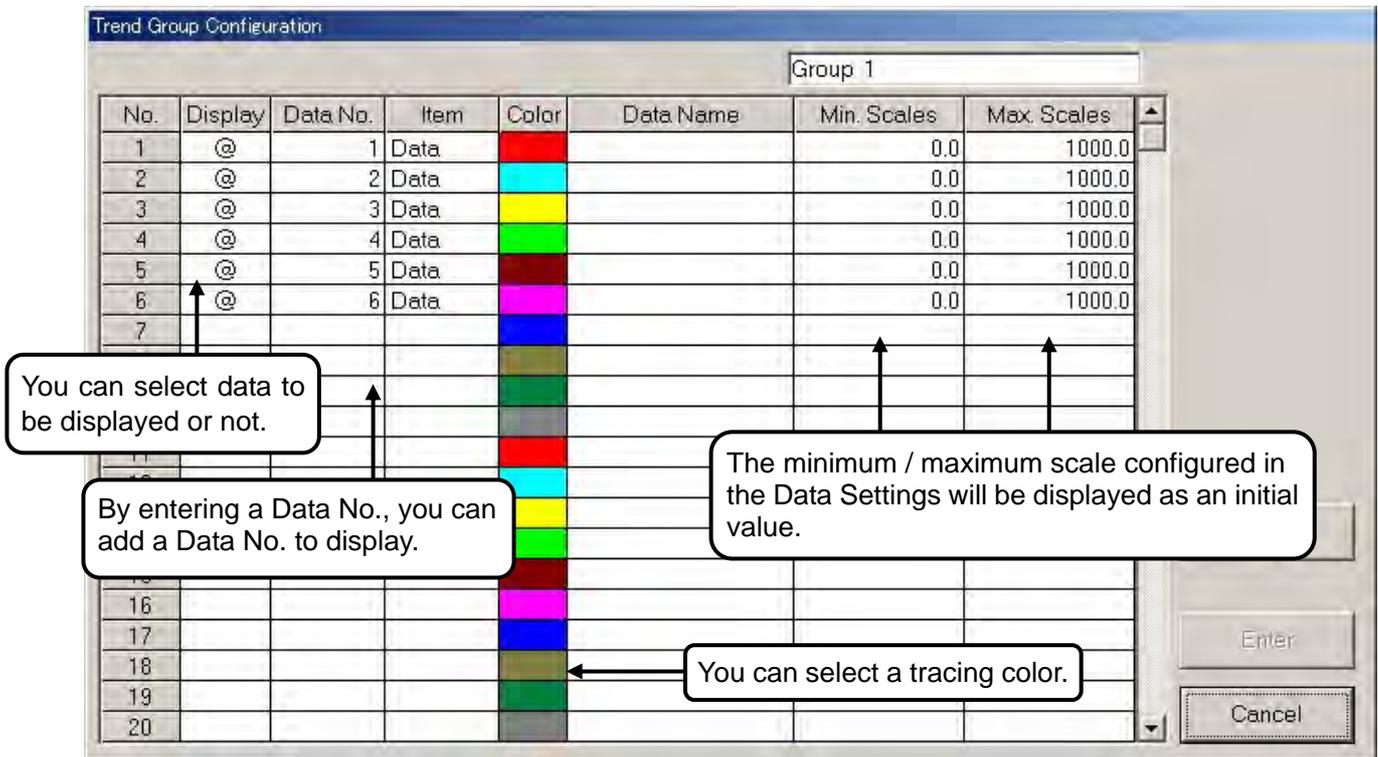
## 6-5 Trend monitoring (Graph format)

Up to 10 trend monitoring windows are available.



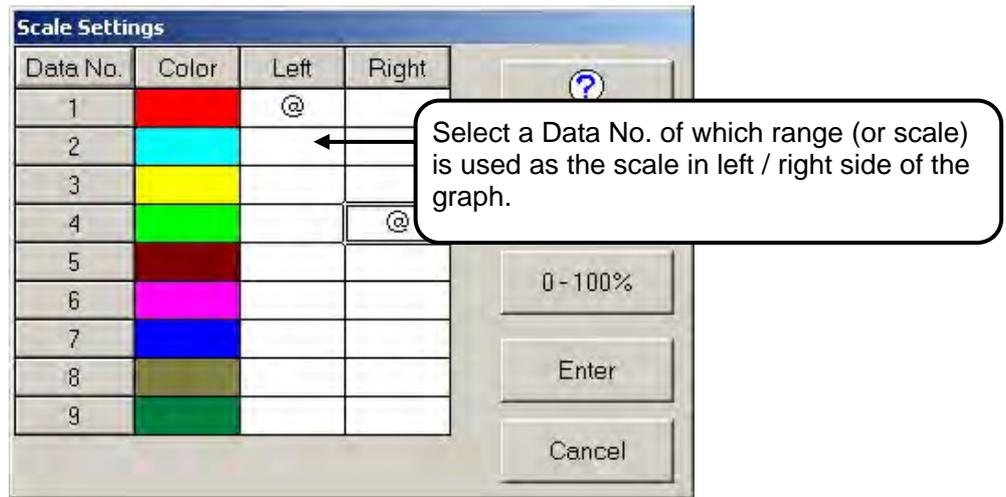
### ① Trend Group Configuration

You can configure data to be displayed or not in the graph being displayed.



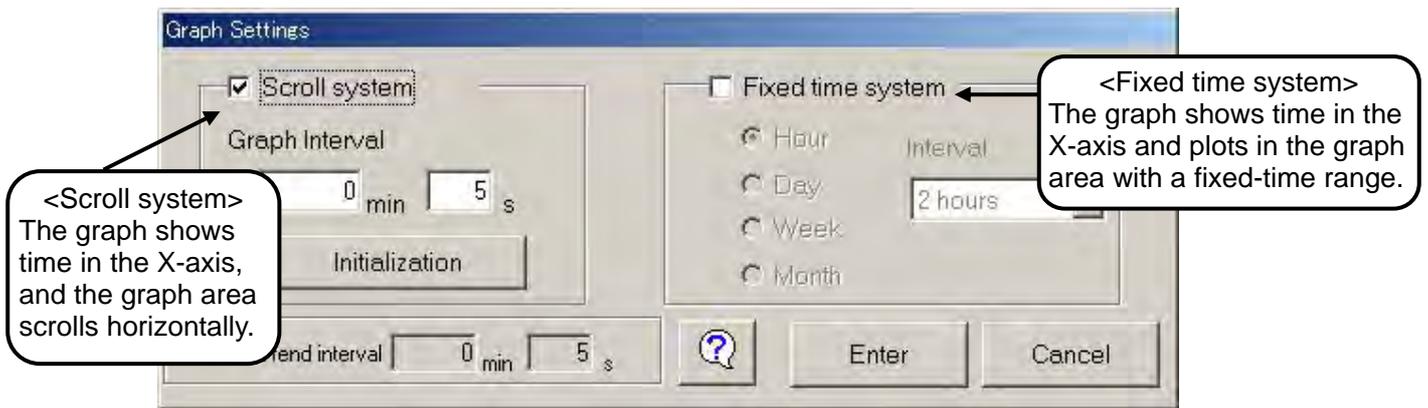
## ② Trend Scale Settings

You can independently select two scales placed in left and right sides of the graph being displayed.



## ③ Graph Settings

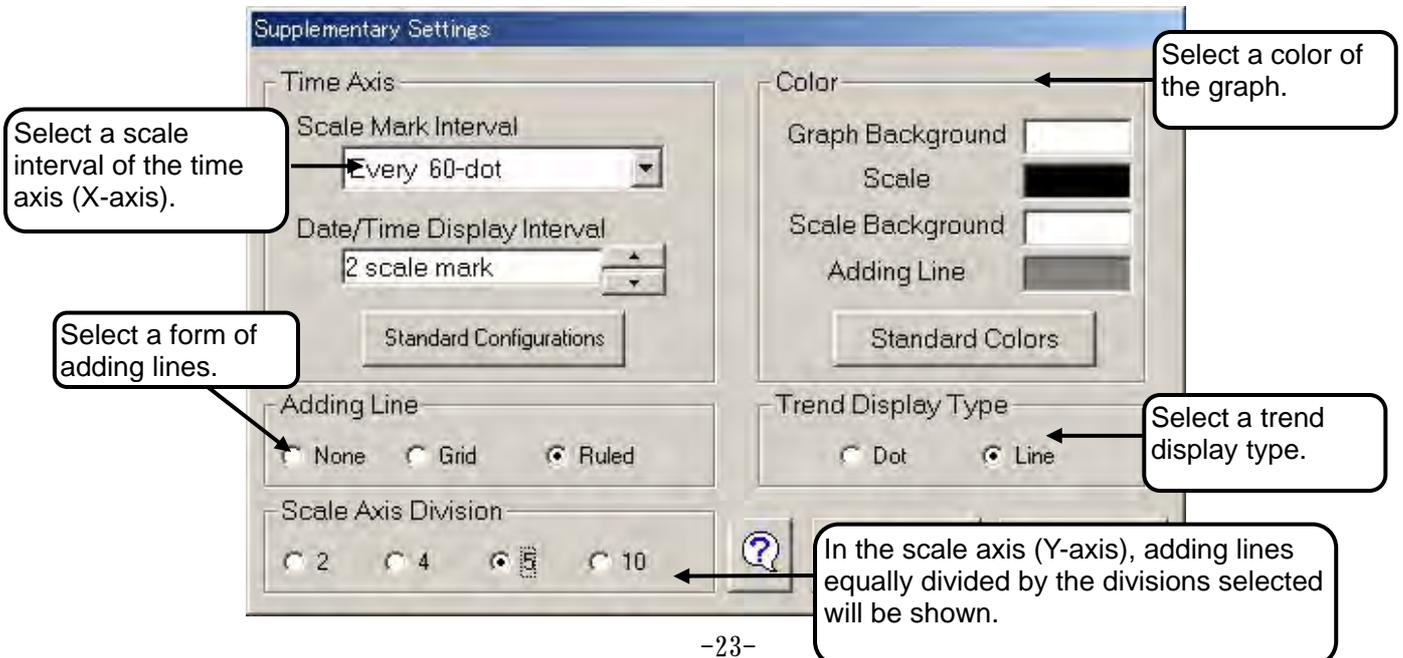
You can select the scroll system or the fixed time system of the graph format.



## ④ Supplementary Settings

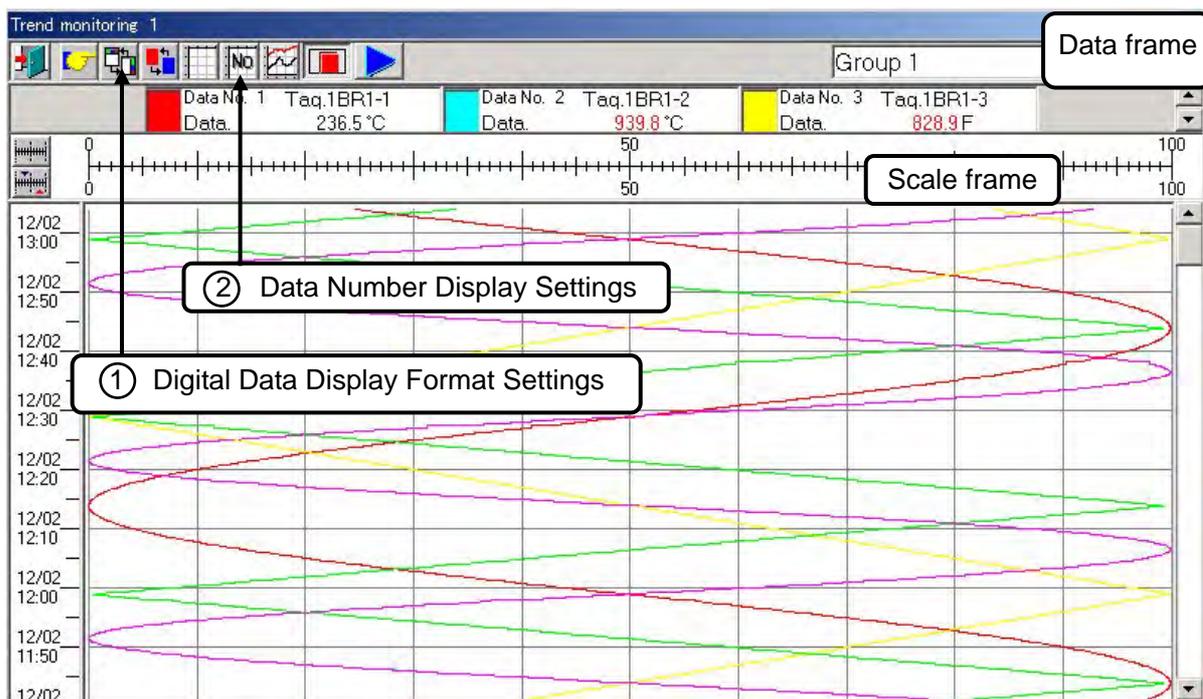
You can configure adding lines and a graph background color.

※ For the fixed time system, you cannot set the parameters for the time axis.



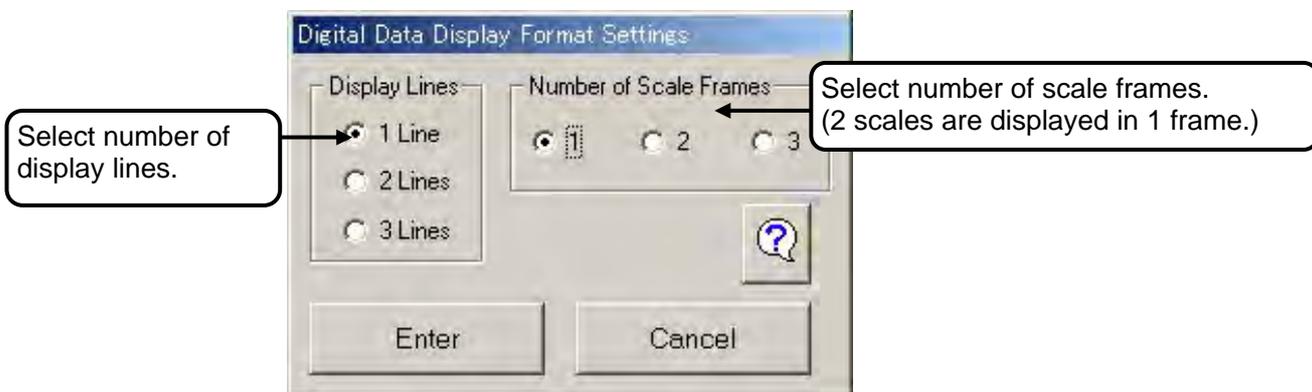
## 6-6 Trend monitoring (Chart Format)

Up to 10 trend monitoring windows are available.

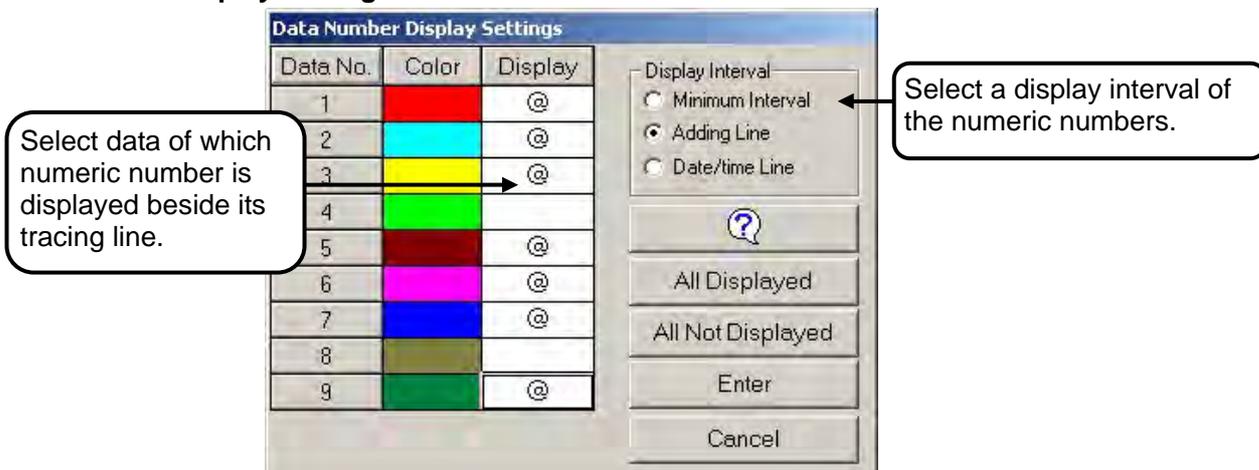


### ① Digital Data Display Format Settings

You can select number of lines for the digital data display position and number of scale frames.



### ② Data Number Display Settings



## 6-7 Data Storage Settings

You can configure a data file saving location (a path name), a file name and an acquisition interval.  
The extension of a memory file is "mbm".

The screenshot shows the 'Data Storage Settings' dialog box with the following callouts:

- Type a file name. (Up to 16 characters)**: Points to the 'File Name' field containing 'Memory1'.
- Specify a saving location of a file.**: Points to the 'Saving in' field containing 'C:\Program Files\KIDS\Memory\'. A 'Browse' button is also visible.
- Configure an acquisition interval.**: Points to the 'Acquisition Interval' field, which is set to 1 min and 0 s.
- Select [One-Touch Acquisition] or [Time Reservation].**: Points to the radio buttons for 'One-Touch Acquisition' (selected) and 'Time Reservation'.
- By clicking the PLAY button, the data acquisition will start. You can start at the time specified. Click the STOP button to end the data acquisition.**: Points to the 'PLAY' and 'STOP' buttons under 'One-Touch Acquisition'.
- By clicking the PLAY button, the data acquisition will start at the start time specified and ends at the end time specified. Click the STOP button to cancel the data acquisition.**: Points to the 'PLAY' and 'STOP' buttons under 'Time Reservation'.

**File Name Auto Renewal** -----A file is made automatically in every renewal timing.

Not used	File isn't made automatically.	
Increment	Consecutive numbers(001 - 999) are added after file name.	
Day/Time	Date is added after file name.	
Renewal timing	Daily	File is renewed in every day.
	Weekly	File is renewed in every seven days.
	Monthly	File is renewed in every month.

**In case of Time Reservation, Renewal timing is only a Daily.**

## 6-8 Printing

The screenshot shows the 'Print Screen' dialog box with the following callouts:

- For printing of the whole screen**: Points to the 'All Displayed Windows' radio button.
- For printing of an active window**: Points to the 'Active Window' radio button.
- Printing**: Points to the 'Print' button.
- Print settings**: Points to the 'Set up...' button.
- Print preview**: Points to the 'Preview' button.
- File save (BMP format)**: Points to the 'File save' button.

## 6-9 Alarm summary

- Alarms activated and reset (or recovering information) are displayed in a list. Starting and ending of the program are also displayed. You can enter a comment.
- When an alarm is newly activated or reset, this new alarm data will be automatically added to a new row.
- Up to 4000 rows can be displayed and, when data exceeds 4000 rows, the displayed data will be deleted from the oldest one.
- You can sequentially sort items. When you are sorting, you cannot edit a comment and a new alarm data will not be added.

The screenshot shows the 'Alarm summary' window with a toolbar and a data table. Callouts point to various features:

- Print settings**: Points to the printer icon in the toolbar.
- Print preview**: Points to the magnifying glass icon in the toolbar.
- Printing**: Points to the printer icon in the toolbar.
- You can store the Alarm Summary into a csv or Text format file.**: Points to the save icon in the toolbar.
- You can delete rows selected by a mouse.**: Points to the delete icon in the toolbar.
- You can delete all rows.**: Points to the delete icon in the toolbar.
- You can sort data here.**: Points to the 'Sort' dropdown menu.

	Time	Data No	Tag	Data Name	Alarm Type	Data	Comment
4	12/02/2002 10:53:39	5	1BR1-5	LAB 1-3	Level 2Alarm Activate	"L"--61.8	
5	12/02/2002 10:55:42	5	1BR1-5	LAB 1-3	Level 2 Alarm Reset	206.0	
6	12/02/2002 11:03:15				KIDS End		
7	12/02/2002 11:39:57				KIDS Start		
8	12/02/2002 11:40:03	2	1BR1-2	LAB 1-2	Level 4Alarm Activate	"H"--852.3	
9	12/02/2002 11:40:05	3	1BR1-3	No.3	Level 3Alarm Activate	"H"--375.5	
10	12/02/2002 11:47:00	5	1BR1-5	LAB 1-3	Level 2Alarm Activate	"L"--189.4	
11	12/02/2002 11:55:39	5	1BR1-5	LAB 1-3	Level 2 Alarm Reset	194.9	
12	12/02/2002 12:16:58	5	1BR1-5	LAB 1-3	Level 2Alarm Activate	"L"--192.1	
13	12/02/2002 12:25:42	5	1BR1-5	LAB 1-3	Level 2 Alarm Reset	197.6	
14	12/02/2002 12:47:11	5	1BR1-5	LAB 1-3	Level 2Alarm Activate	"L"--175.9	
15	12/02/2002 12:55:47	5	1BR1-5	LAB 1-3	Level 2 Alarm Reset	203.2	
16	12/02/2002 13:13:21				KIDS End		
17	12/02/2002 13:14:46				KIDS Start		
18	12/02/2002 13:14:52	2	1BR1-2	LAB 1-2	Level 4Alarm Activate	"H"--409.7	
19	12/02/2002 13:14:54	3	1BR1-3	No.3	Level 3Alarm Activate	"H"--464.4	
20	12/02/2002 13:17:03	5	1BR1-5	LAB 1-3	Level 2Alarm Activate	"L"--192.1	
21	12/02/2002 13:21:39				KIDS End		
22	12/02/2002 13:22:16				KIDS Start		

## 6-10 Alarm monitor

The alarm status of Data Nos. configured in each group will be displayed by lamps.

When an alarm of a Data No. is activated, an alarm lamp will blink and continue blinking until you confirm by clicking it.

If no Data No. is configured in a group, the lamp for this group is not displayed.

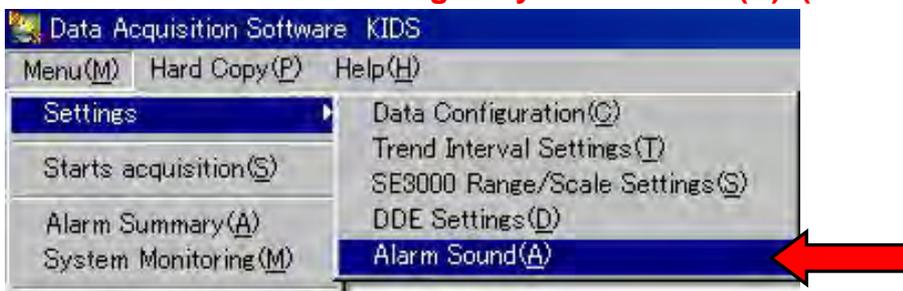


--- [Normal] An alarm is not activated.



--- An alarm is activated or communications is abnormal.

**※Alarm sound can be changed by Alarm sound(A). (\*.WAV format)**



## 6-11 Alarm pop-up window

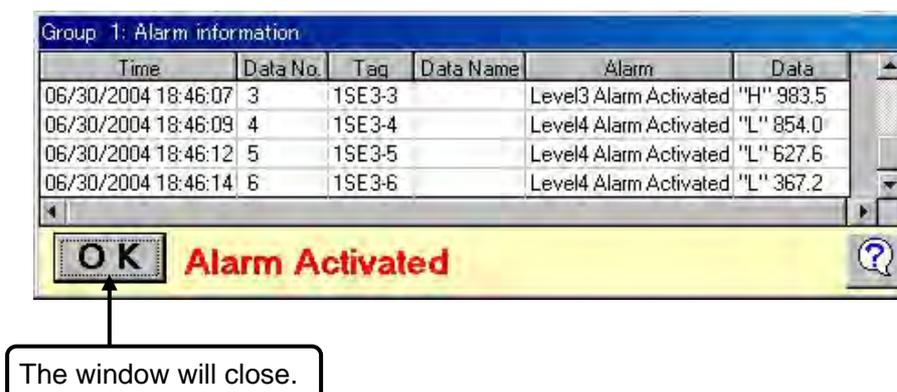
You can display last 10 alarms activated in each group. (Alarms reset will not be displayed. Confirm them in the Alarm Summary.) When data exceeds 10 alarms, the displayed data will be deleted from the oldest one.

<How to display>

When a lamp is blinking, the pop-up window will appear by moving a mouse to it.

When a lamp is lit, the pop-up window will appear by clicking it.

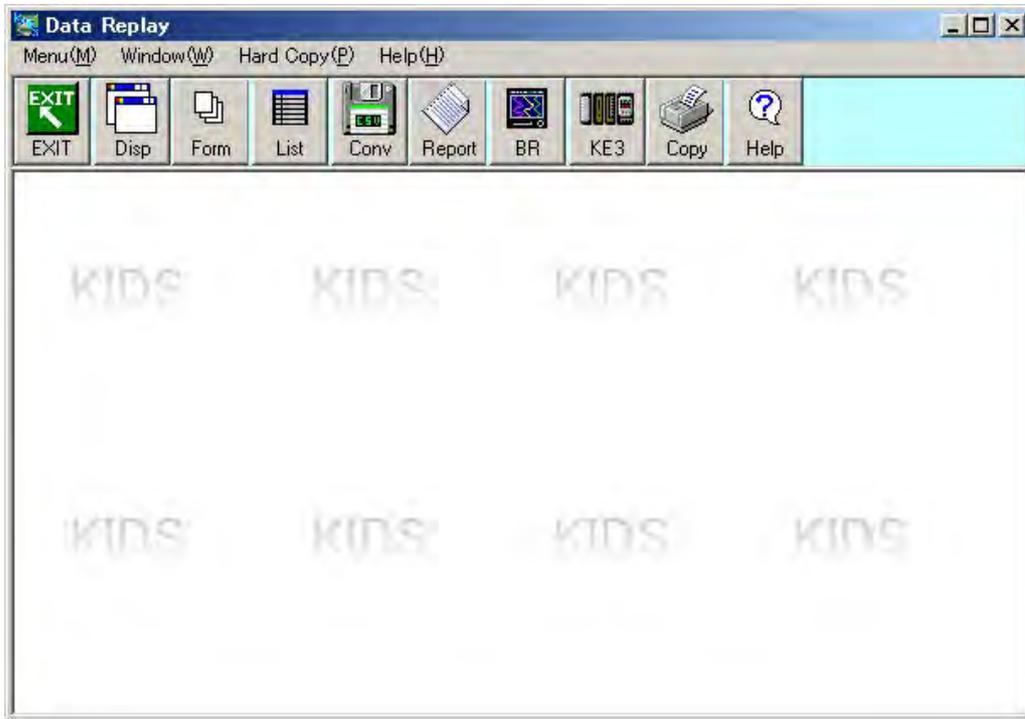
**※Multiple pop-up windows will not appear simultaneously. Click OK button to close the pop-up window opened, and then open the pop-up window of other group.**



# 7. Data Replay

The data replay is to read acquired data, and you can manage data display in a table/trend format, data conversion, and daily report printing.

## 7-1 Data Replay basic window



	Exits the program
	Rearranges all windows being displayed on this window.
	The list of all windows being displayed on this window will appear.
	The Historical Data Monitoring window will appear.
	The File Conversion window will appear.
	The Daily Report Printing window will appear.
	The BR Data Conversion window will appear.
	The KE3 File Conversion window will appear.
	Prints an active window or all displayed windows.
	The Help file will appear.

## 7-2 Display

You can rearrange all windows being displayed on this basic window.



## 7-3 Form

You can display all windows being displayed on this basic window as a list and select a window to make active.



## 7-4 Historical Data Monitoring

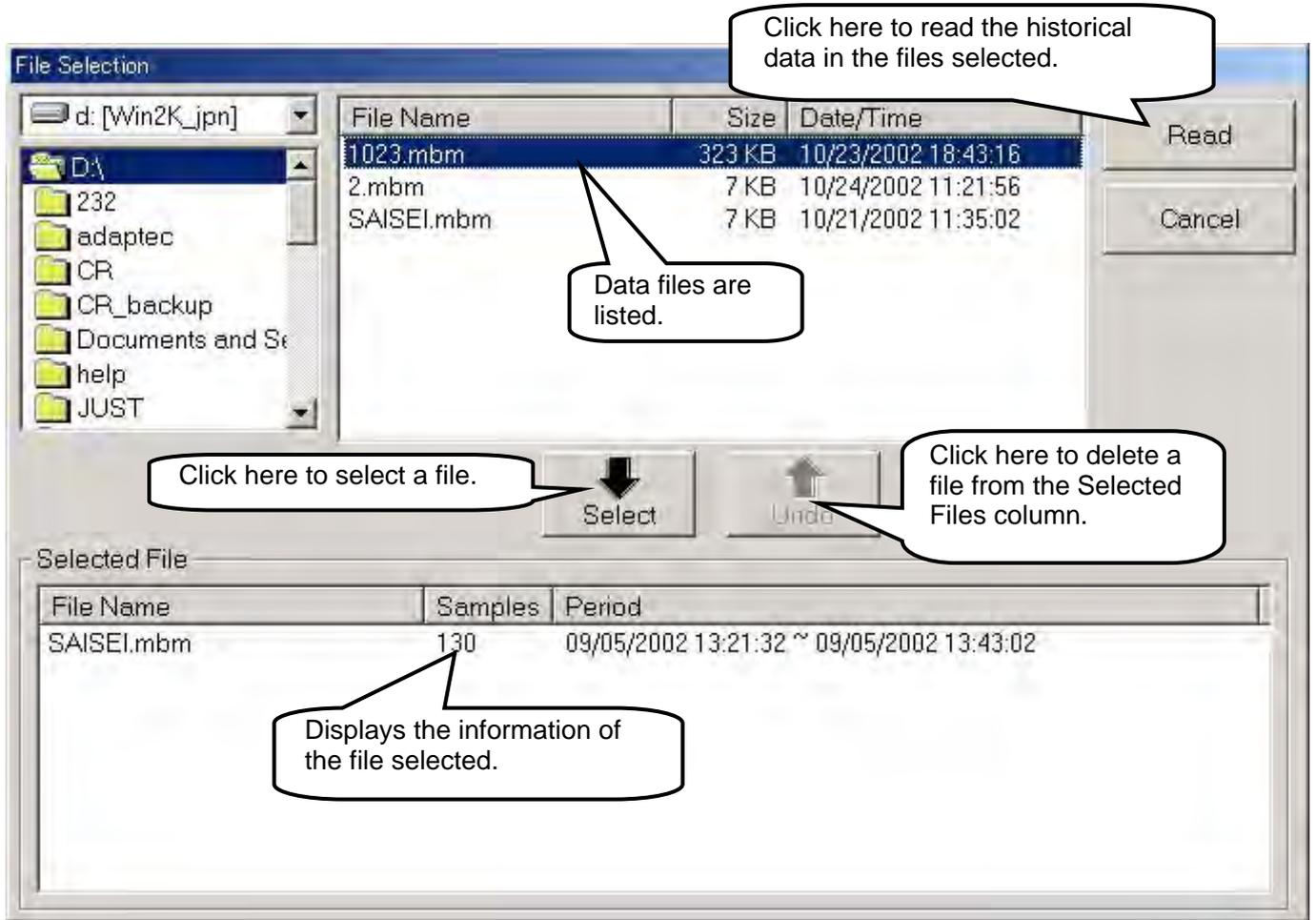
You can read a file storing data acquired in the Data Acquisition, and can display the historical data stored in the file in a table format.

	Data Time	1BR1-1	1BR1-2	1BR1-3	1BR1-4	1BR1-5	1BR1-6
1	12/02/02 21:06:13	148.9	993.5	775.5	495.5	993.5	993.5
2	12/02/02 21:07:00	119.2	999.9	747.7	551.1	999.9	999.9
3	12/02/02 21:08:00	90.4	989.7	717.7	611.1	989.7	989.7
4	12/02/02 21:09:00	61.0	955.3	682.2	682.2	955.3	955.3
5	12/02/02 21:10:00	40.4	908.5	652.2	742.2	908.5	908.5
6	12/02/02 21:11:00	21.3	834.5	616.6	813.3	834.5	834.5
7	12/02/02 21:12:00	8.5	746.9	582.2	882.2	746.9	746.9
8	12/02/02 21:13:00	1.3	644.5	546.6	953.3	644.5	644.5
9	12/02/02 21:14:00	0.0	559.2	518.8	991.1	559.2	559.2
10	12/02/02 21:15:00	3.7	451.2	484.4	922.2	451.2	451.2
11	12/02/02 21:16:00	13.6	342.1	448.9	851.1	342.1	342.1
12	12/02/02 21:17:00	29.5	241.0	413.3	780.0	241.0	241.0
13	12/02/02 21:18:00	46.1	170.6	385.5	724.4	170.6	170.6
14	12/02/02 21:19:00	71.4	97.5	351.1	655.5	97.5	97.5

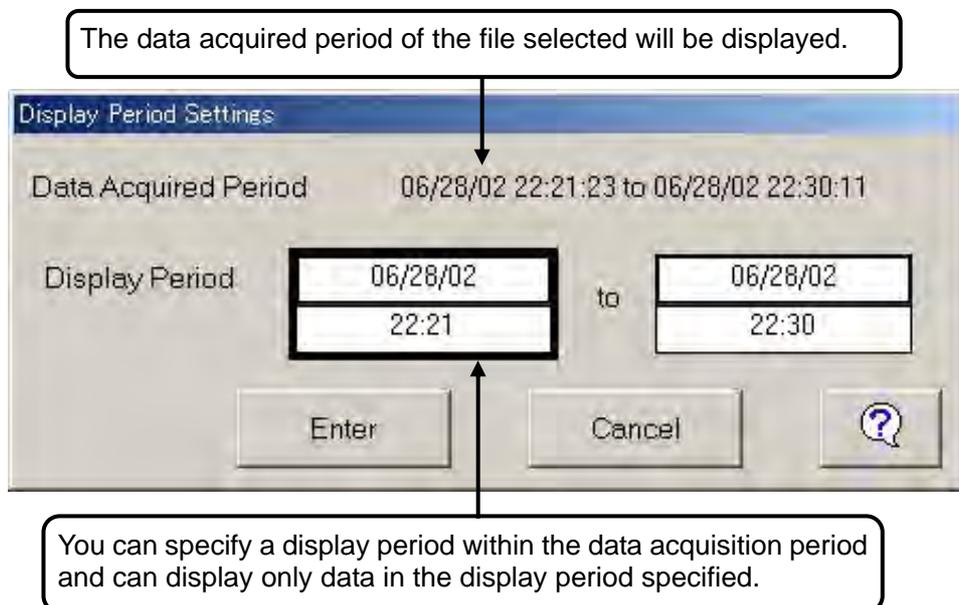
		Quits the historical data monitoring.
		The Historical Data Monitoring window with maximized size will appear.
7-4-1		The File Selection dialog box will appear.
7-4-2		The Display Period Settings dialog box will appear.
7-4-3		The Historical Data Selection dialog box will appear.
7-4-4		The Print Settings dialog box will appear.
7-5		The Historical Trend Selection dialog box will appear. Up to 10 windows are selectable. (Up to 5 windows can be displayed simultaneously.)
7-7		The File Conversion window will appear.

### 7-4-1 File Selection

Multiple files can be read as a sequential file. By clicking Read after files are selected, the historical data stored in the files will be read.



### 7-4-2 Display Period Settings



### 7-4-3 Data selection

	Display	Data No.	Tag
1	<input checked="" type="radio"/>	1	CH1
2	<input checked="" type="radio"/>	2	CH2
3	<input checked="" type="radio"/>	3	CH3
4	<input checked="" type="radio"/>	4	CH4
5	<input checked="" type="radio"/>	5	CH5
6	<input checked="" type="radio"/>	6	CH6
7	<input checked="" type="radio"/>	7	CH7
8	<input checked="" type="radio"/>	8	CH8
9	<input checked="" type="radio"/>	9	CH9
10	<input checked="" type="radio"/>	10	CH10
11	<input checked="" type="radio"/>	11	CH11
12	<input checked="" type="radio"/>	12	CH12

You can select historical data to be displayed or not.

- for displaying
- Blank for not displaying

Buttons: ?, Display All, Not Display All, Enter, Cancel

### 7-4-4 Print Settings

You can specify a print range (period) within the display period specified and can print data in the print period specified.

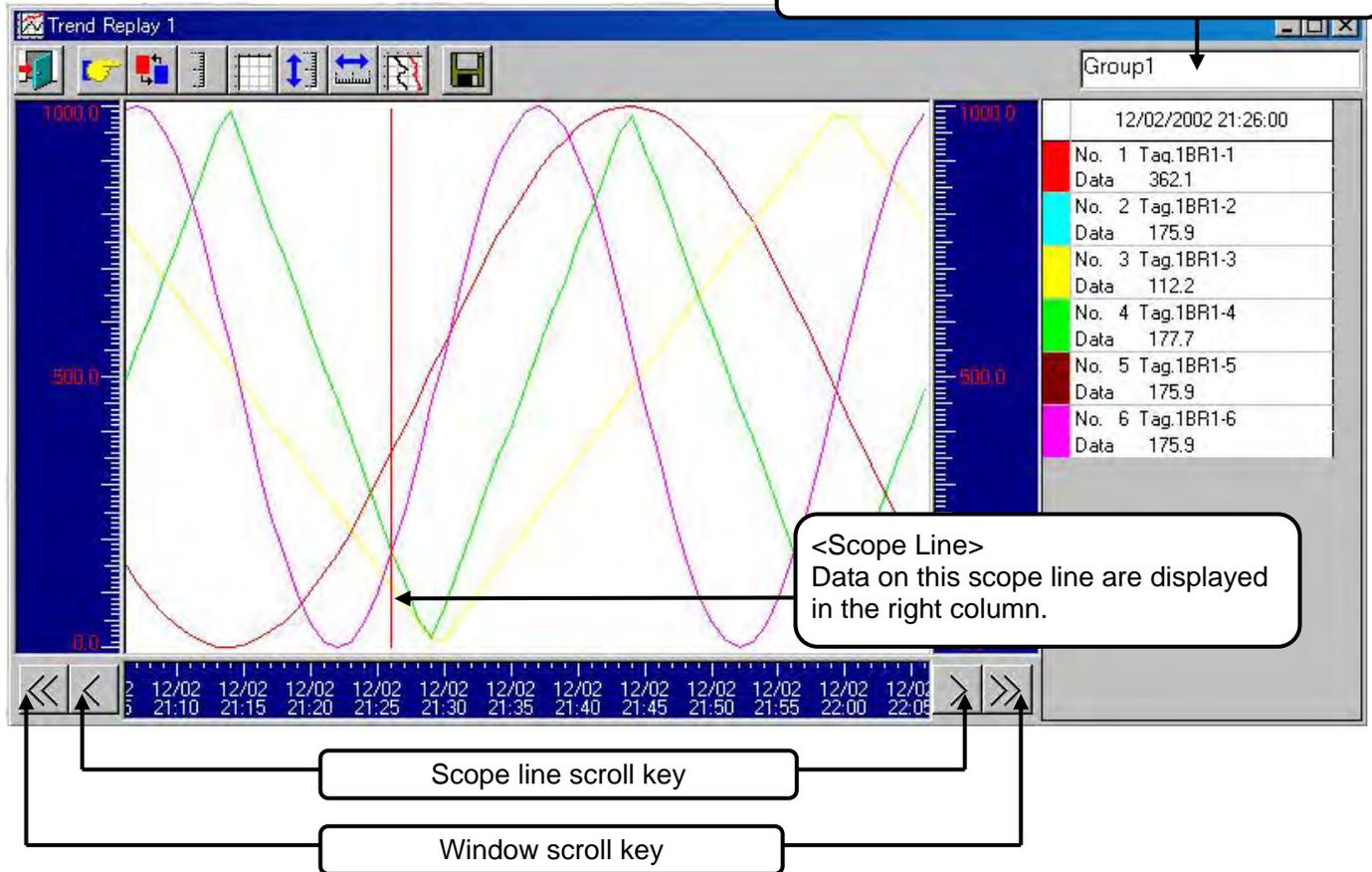
All data in the print range specified will be printed.

For data in the print range specified, you can skip data for printing.

Buttons: Print, Cancel, ?

## 7-5 Trend replay (Graph format)

Displays the group being displayed now.



		Quits the historical trend monitoring.
7-5-1		The Historical Trend Group Configuration dialog box will appear. You can configure data to be displayed.
7-5-2		The Historical Data Format Settings dialog box will appear. You can configure displaying items that will be shown in the digital data display position (right side of window).
7-5-3		The Historical Trend Scale Settings dialog box will appear. You can independently select two scales placed in left and right sides of the graph.
7-5-4		The Supplementary Settings dialog box will appear. You can customize additional lines and a graph background color.
7-5-5		The Magnified Scale Settings dialog box will appear. You can display historical data with the magnified scale (Y-axis) specified.
7-5-6		The Time-Axis Format Settings dialog box will appear. You can display historical data in the period specified.
7-6		Switches from the graph format to the chart format.
7-7		The File Conversion window will appear.

### 7-5-1 Historical Trend Group Configuration

You can configure historical data to be displayed in the graph (or chart) being displayed.

	Display	Color	Data No.	Tag	Min. Scales	Max. Scales
1	<input checked="" type="checkbox"/>	Red	1	CH1	-5.000	5.000
2	<input checked="" type="checkbox"/>	Cyan	2	CH2	0.00	100.00
3	<input checked="" type="checkbox"/>	Yellow	3	CH3	0.00	100.00
4	<input checked="" type="checkbox"/>	Green	4	CH4	0.0	1000.0
5	<input checked="" type="checkbox"/>	Brown	5	CH5	0.0	1000.0
6	<input checked="" type="checkbox"/>	Magenta	6	CH6		
7	<input checked="" type="checkbox"/>	Blue	7	CH7		
8	<input checked="" type="checkbox"/>	Olive	8	CH8		
9	<input checked="" type="checkbox"/>	Dark Green	9	CH9	0.0	1000.0
10	<input checked="" type="checkbox"/>	Grey	10	CH10	0.0	1000.0
11	<input checked="" type="checkbox"/>	Red	11	CH11	0.0	1000.0
12	<input checked="" type="checkbox"/>	Cyan				
13	<input checked="" type="checkbox"/>	Yellow				
14	<input checked="" type="checkbox"/>	Green				
15	<input checked="" type="checkbox"/>	Brown				

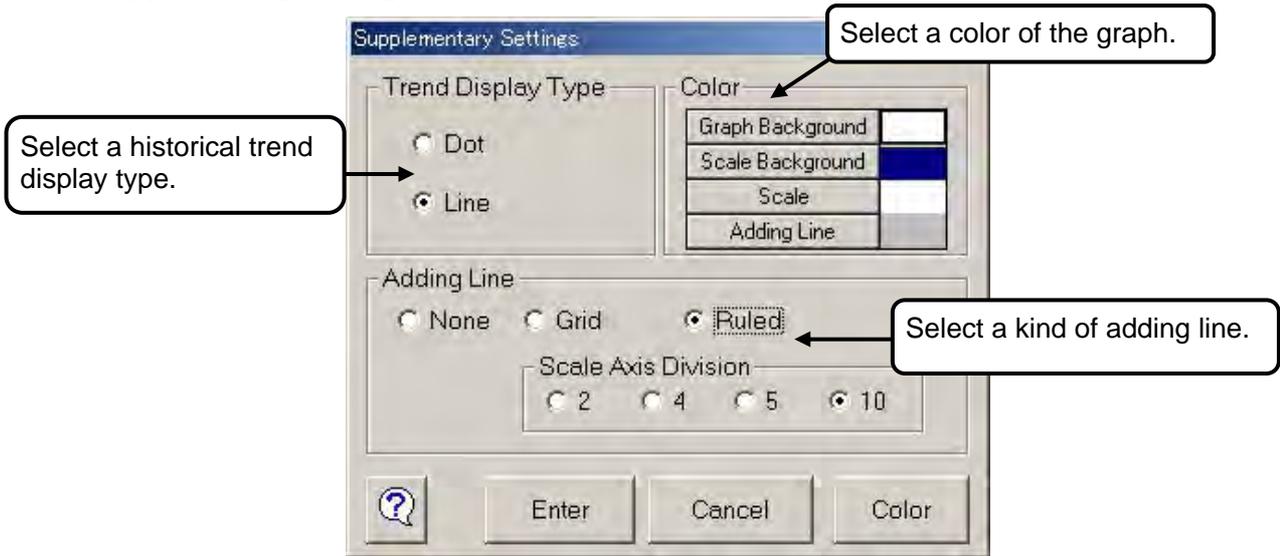
### 7-5-2 Historical Data Format Settings

You can configure the historical data format in the graph being displayed.

### 7-5-3 Historical Trend Scale Settings

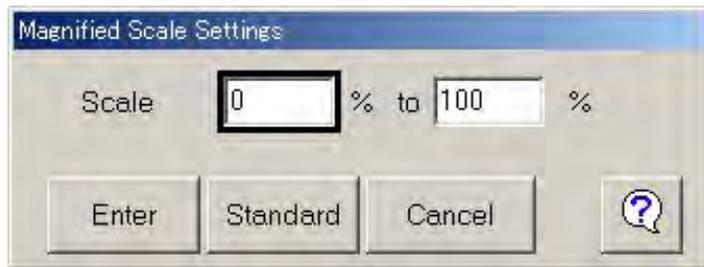
	Data No.	Tag	Color	Left	Right
1	1	CH1	Red		
2	2	CH2	Cyan	<input checked="" type="checkbox"/>	
3	3	CH3	Yellow		
4	4	CH4	Green		
5	5	CH5	Brown		
6	6	CH6	Magenta		
7	7	CH7	Blue		<input checked="" type="checkbox"/>
8	8	CH8	Olive		
9	9	CH9	Dark Green		
10	10	CH10	Grey		
11	11	CH11	Red		
12	12	CH12	Cyan		
13					
14					
15					

### 7-5-4 Supplementary Settings



### 7-5-5 Magnified Scale Settings

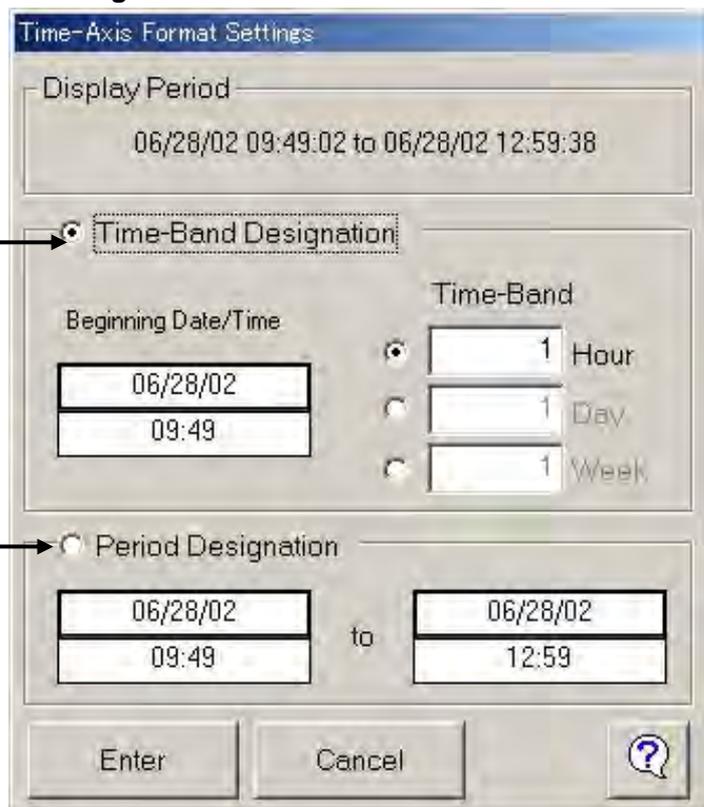
Based on the standard size of 0 to 100%, you can display historical data with the magnified scale specified.



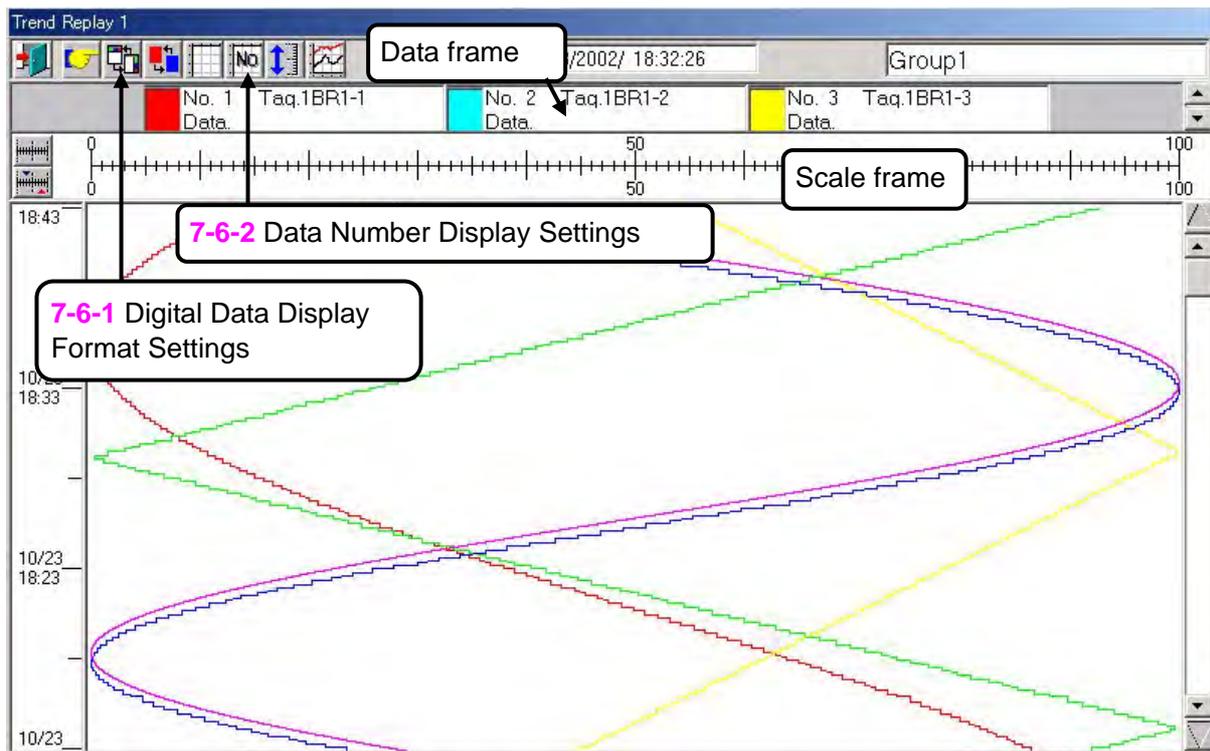
### 7-5-6 Time-Axis Format Settings

As a designated time-band from a designated beginning date/time becomes the time-axis, you can always read the historical data in the designated time band from the designated beginning date/time by scrolling.

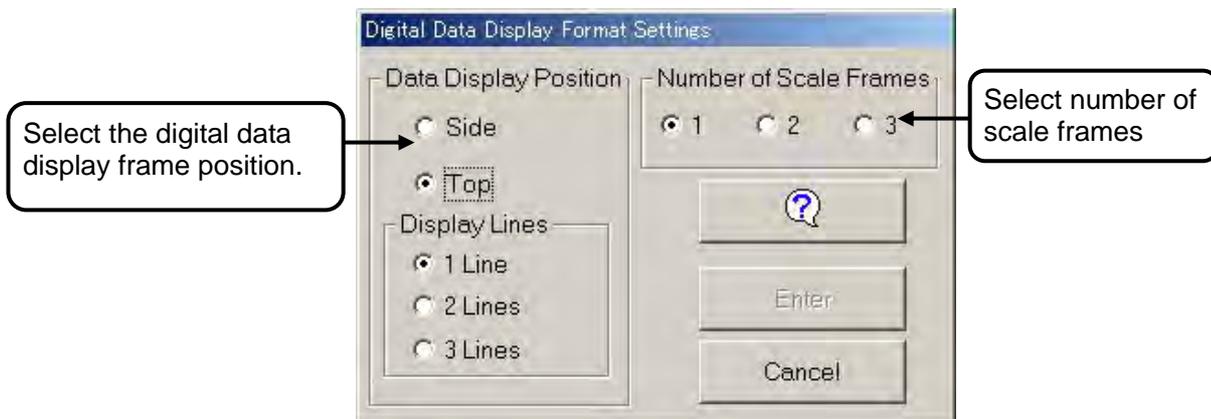
As historical data in a designated period are only displayed, you can only read the historical data in the designated period regardless of a measured period.



## 7-6 Trend replay (Chart format)

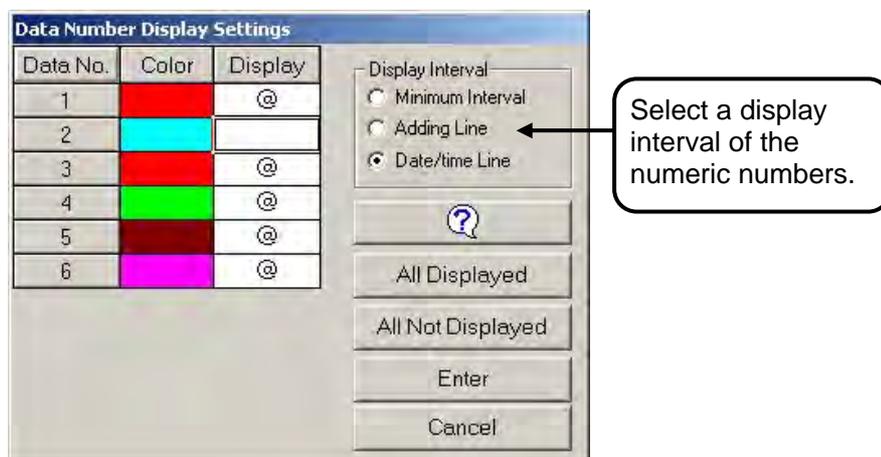


### 7-6-1 Digital Data Display Format Settings



### 7-6-2 Data Number Display Settings

You can select data of which numeric number is displayed beside its tracing line.



## 7-7 File Conversion

You can select a binary formatted file to be read.

You can select a conversion format. In each format (CSV or Text Format), you can create 20 format configurations.

You can execute the file conversion with the format configurations pre-set.

You can configure a conversion period within the data acquisition period of the file read.

The screenshot shows the 'File Conversion' dialog box with the following fields and options:

- Source File Information:** File Name: Memory1.mbm
- Period:** 09/08/2000 10:41:00 ~ 09/08/2000 12:08:00
- Start:** 09/08/2000 10:41:00
- End:** 09/08/2000 12:08:00
- Destination File Information:** Saving in: D:\ File Name: test
- Conversion Format Information:**
  - Text Format
  - CSV Format
  - Configuration: 2: TEST1
  - Conversion Data Settings:
    - All Data Conversion
    - Skipped Data Conversion: 0 data skipped

## 7-8 Daily report printing

You can create a daily report of data acquired by the program or data converted by the BR data conversion.

Data selected as "Yes" is only printed.

**Time-signal data**  
Select a data computation for printing of the time-signal data.

**[Average]**  
Average value from 1 hour before is printed.

**[Instantaneous]**  
Instantaneous data at each hour is printed.

**[None]**  
Nothing is printed.

The screenshot shows the 'Report Printing' dialog box with a table of data tags and their print settings. The table is as follows:

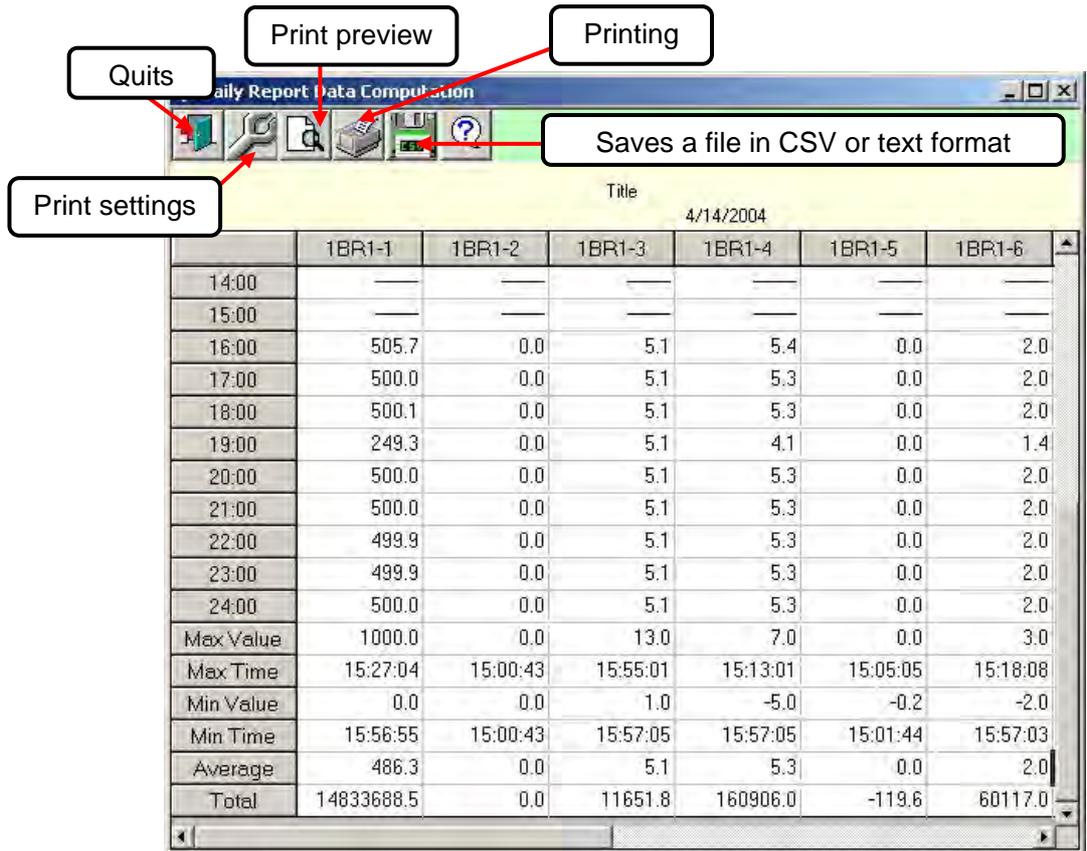
Data No.	Tag	Print	Time-Signal	Max	Min	Average
1	Tc MIN	Yes	Average	All	All	All
2	Tc MAX	Yes	Average	Time-Signal	None	All
3	CH2 MIN	Yes	Instantaneous	All	All	None
4	CH2 MAX	Yes	Average	All	All	All
	CH3 MIN	Yes	Average	All	All	All
	CH3 MAX	Yes	Instantaneous	All	All	All
	CH4 MIN	Yes	Average	All	All	Time-Signal
	CH4 MAX	Yes	Instantaneous	All	All	All
	log10	Yes	Average	All	All	All
	loge	Yes	Average	All	All	All
	loge MIN	Yes	Average	All	All	All
	loge MAX	Yes	Average	All	All	All

At the bottom of the dialog box, there is a 'Daily Report Samples' section with a 'Daily Report Time' dropdown set to 24:00 and a 'Date' dropdown set to 9/5/2002. A 'Compute' button and a 'Cancel' button are also present.

Daily Report Computation screen will appear.

**Max/Min/Average/Total**  
Select data output All/Time-Signal/None.  
**[All]**  
All data acquired in the day specified are subject to compute.  
**[Time-Signal]**  
All data in the time-signal data are subject to compute.  
**[None]**  
Nothing is computed.  
**<Caution>**  
If too many samples exist when [All] is selected in the total column, the total value may be overflowed.

### 7-8-1 Daily Report Computation Screen



### 7-8-2 Example of daily report printing

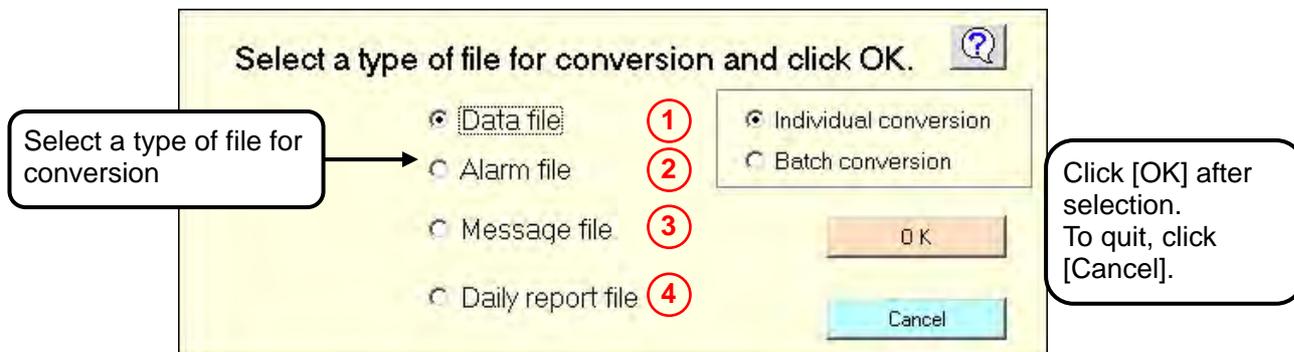
The example shown below is a printing in [A4 longitudinal] by using a page printer. The number of data printed on one page differs on Windows printer settings.

Sample 1										5/29/2003
Unit	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10
	°C	V	°C							
1:00	131.7	115.1	149.3	177.4	202.1	208.2	202.0	201.7	1.52	164
2:00	131.3	114.6	148.8	177.0	201.6	207.8	201.5	201.2	1.55	159
3:00	130.8	114.1	148.4	176.5	201.2	207.3	201.1	200.8	1.63	157
4:00	130.4	113.7	148.0	176.1	200.8	206.9	200.7	200.4	1.60	153
5:00	130.2	113.4	147.7	175.9	200.5	206.6	200.4	200.1	1.54	151
6:00	129.9	113.2	147.5	175.6	200.3	206.4	200.1	199.8	1.47	153
7:00	129.7	113.0	147.3	175.4	200.1	206.1	199.9	199.6	1.40	165
8:00	129.4	112.7	147.0	175.2	199.8	205.9	199.6	199.3	1.32	202
9:00	129.2	112.5	146.8	174.9	199.6	205.6	199.4	199.0	1.28	231
10:00	129.5	112.6	146.8	175.0	199.8	205.5	199.2	198.9	1.29	254
11:00	129.6	112.7	147.0	175.1	199.9	205.8	199.4	199.3	1.29	270
12:00	129.9	113.0	147.1	175.4	200.1	205.9	199.6	199.5	1.30	286
13:00	129.7	112.7	146.9	175.1	199.9	205.8	199.4	199.3	1.29	299
14:00	129.7	112.7	147.0	175.1	199.9	205.7	199.4	199.2	1.27	306
15:00	129.9	112.8	147.0	175.1	199.9	205.7	199.4	199.2	1.24	312
16:00	130.7	113.7	147.9	176.0	200.8	206.5	200.3	200.1	1.26	319
17:00	129.3	112.4	146.7	174.7	199.5	205.8	199.5	199.2	1.31	285
18:00	130.0	113.3	147.4	175.6	200.3	205.5	199.1	198.9	1.38	274
19:00	131.1	114.4	148.5	176.7	201.4	206.7	200.4	200.2	1.50	256
20:00	131.3	114.5	148.6	176.8	201.6	207.2	201.0	200.7	1.52	224
21:00	131.6	114.8	148.9	177.1	201.9	207.4	201.1	200.9	1.50	205
22:00	131.9	115.1	149.2	177.4	202.2	207.7	201.5	201.3	1.46	193
23:00	132.0	115.2	149.3	177.5	202.4	207.9	201.7	201.5	1.36	181
24:00	132.0	115.2	149.3	177.5	202.3	208.0	201.8	201.6	1.38	175
Max Value	132.5	115.2	149.4	177.5	202.4	208.5	202.2	201.9	1.63	319
Max Time	22:10:15	23:00:08	22:06:30	23:00:00	22:00:00	23:00:00	23:00:00	23:00:00	3:00:00	16:00:00
Min Value	129.2	112.4	146.7	174.7	199.5	205.5	198.7	198.5	1.24	151
Min Time	8:00:00	16:00:00	16:00:00	16:00:00	16:00:00	16:00:00	16:10:00	16:09:00	15:00:00	5:00:00
Average	130.5	113.6	147.8	176.0	200.8	206.7	200.4	200.1	1.40	224
Total									33.6	5374

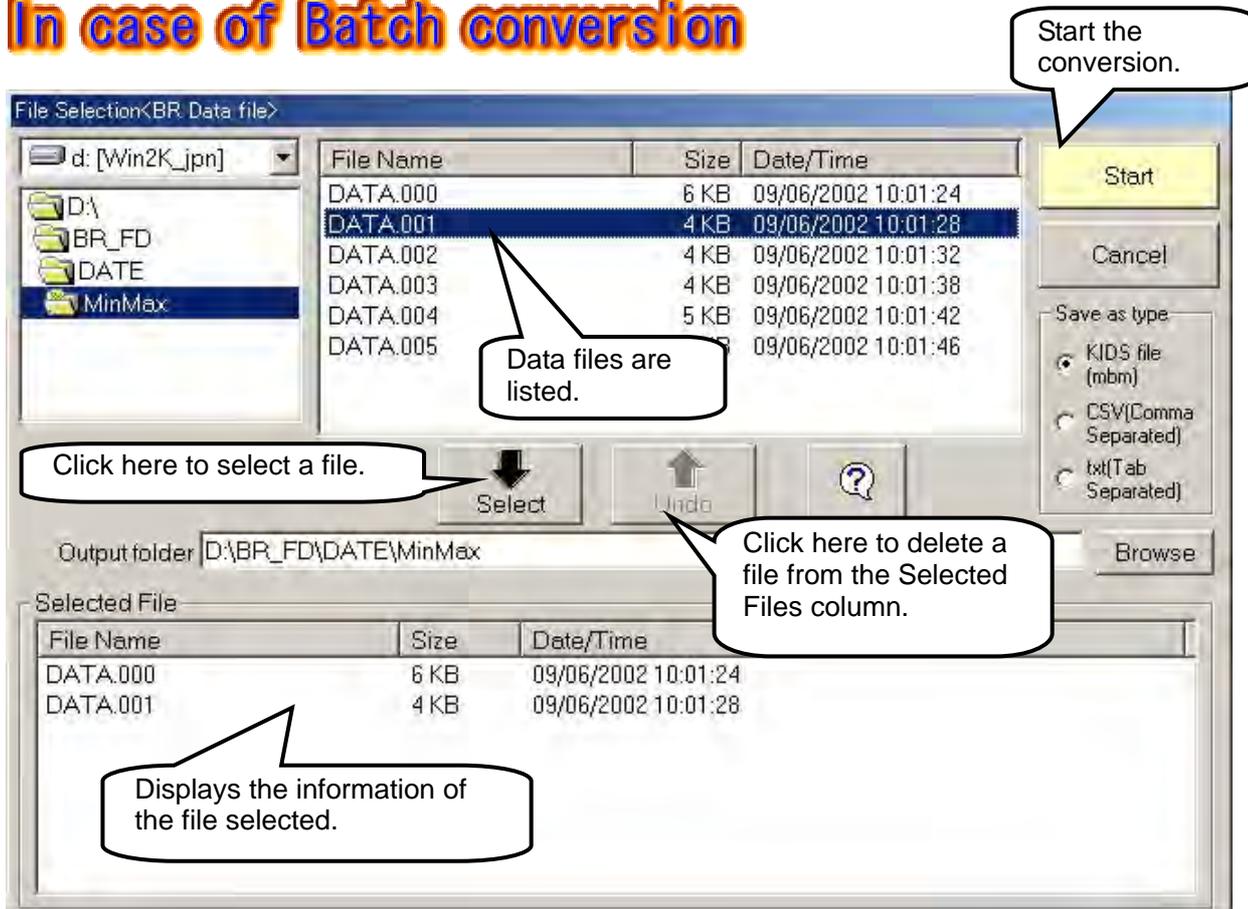
## 7-9 BR Data Conversion

You can create a data file, an alarm file, message file, a message file or a daily report file for data stored in a floppy disk or a memory card installed in the BR series graphic recorder.

You can convert a data file into a file format (extension: .mbm) that can be displayed in the historical data monitoring, text format or CSV format and convert an alarm file, a message file or a daily report file into text format or CSV format. You can chose "Individual conversion" or "Batch conversion".



## In case of Batch conversion



**Save as type** -----Select a binary KIDS file [\*.mbm], a CSV file or a Text file for conversion. For the historical data monitoring, select a binary KIDS file [\*.mbm]. KIDS file[mbm] is only displayed for Data file.

## About converted file name.

Data file	Filename is BR filename.extension(.mbm , .csv , .txt) Ex) When BR filename is A.000 ,	
	Save as type	File name after conversion.
	KIDS file	A.000.mbm
	CSV	A.000.csv
	TXT	A.000.txt
Alarm file	Filename is BR filename.extension(.csv , .txt) Ex) When BR filename is A.ALM ,	
Message file	Save as type	File name after conversion.
	CSV	A.ALM.csv
	TXT	A.ALM.txt
Daily report file	In order to descriminate Daily report file from Data file,R is added after the BR filename. Ex) When BR filename is A.000,	
	Save as type	File name after conversion.
	CSV	A.000R.csv
	TXT	A.000R.txt

## In case of Individual conversion

### ① Data file

Select a binary file (\*.mbm), a CSV file or a text file for conversion. For the historical data monitoring, select a binary file (\*.mbm).

Click here to select a file.

Specify a file name in a saving location and start the conversion.

Specify the conversion condition.

Quits the BR data conversion.

30 data from the top in the file and their date/time and tags are displayed.

## 2 Alarm file

All alarm activation/reset information, their date/time, channels and levels in the file are read and displayed. (Up to 200 data) You can store an alarm file as a CSV file or a text file.



	Date	Time	CH No.	Alarm Level	Alarm Information
1	07/24/2002	16:35:10	03	04	Absolute Value(Upper)
2	07/24/2002	16:36:25	02	02	Alarm release
3	07/24/2002	16:36:25	03	04	Alarm release
4	07/24/2002	16:52:30	01	01	Absolute Value(Upper)
5	07/26/2002	16:03:40	01	01	Alarm release
6	07/26/2002	16:55:55	01	01	Absolute Value(Upper)
7	07/26/2002	17:24:55	01	01	Alarm release
8	07/26/2002	17:29:10	01	01	Absolute Value(Upper)
9	07/26/2002	18:50:55	01	01	Alarm release
10	07/26/2002	18:52:10	01	01	Absolute Value(Upper)
11	07/26/2002	18:54:15	01	01	Alarm release
12	07/26/2002	19:01:35	02	01	Absolute Value(Upper)
13	07/26/2002	19:02:30	01	03	Absolute Value(Upper)
14	07/26/2002	19:02:45	02	01	Alarm release
15	07/26/2002	19:13:40	01	03	Alarm release
16	07/29/2002	09:07:15	02	03	Absolute Value(Upper)
17	07/29/2002	09:08:10	02	03	Alarm release
18	07/29/2002	09:24:25	01	04	Absolute Value(Upper)

## 3 Message File

All messages and their date/time in the file are read and displayed. (Up to 200 data)  
You can store an alarm file as a CSV file or a text file.

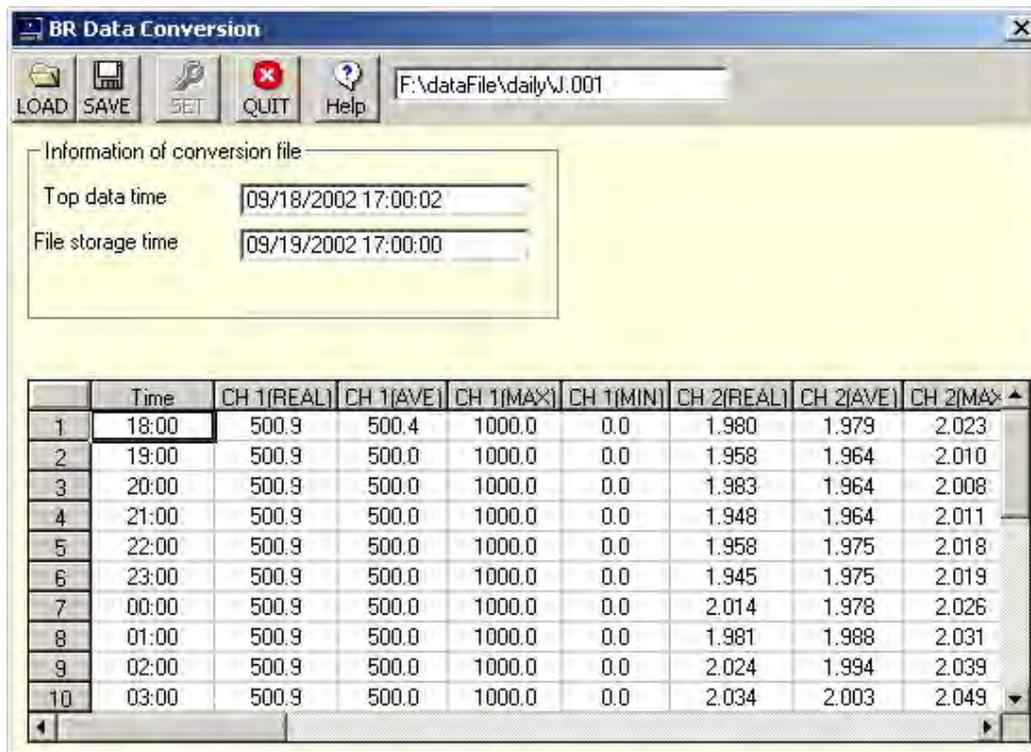


	Date	Time	Message
1	12/05/2002	21:14:18	Start
2	12/05/2002	21:15:10	Door Open
3	12/05/2002	21:15:32	Sample In
4	12/05/2002	21:15:48	Door Close
5	12/05/2002	21:16:10	End

#### ④ Daily report file

Instantaneous values/average values/minimum values/maximum values in the time period set and maximum values/minimum values/average values in a day are displayed.

You can store an alarm file as a CSV file or a text file.



#### ※ Files created with BR series graphic recorder

When a data file is stored into a floppy disk or a memory card with BR series graphic recorder, the file with the following file name is stored depending on the storing condition.

File type	File name	Explanation
Data file	Filename.000	"Filename" is the name (up to 8 digits) configured in the File Programming" of BR recorder."000" is a continuous number. When file storage starts at the preset condition, when the power supply is turned off, when the settings are changed, and so on, a new file is created with a new number.
Event file	Filename.001	
Daily report file	Filename.002	
Alarm file	*****.alm	The extension is "alm".
Message file	*****.msg	The extension is "msg".
Configuration file	*****.set	The extension is "set".

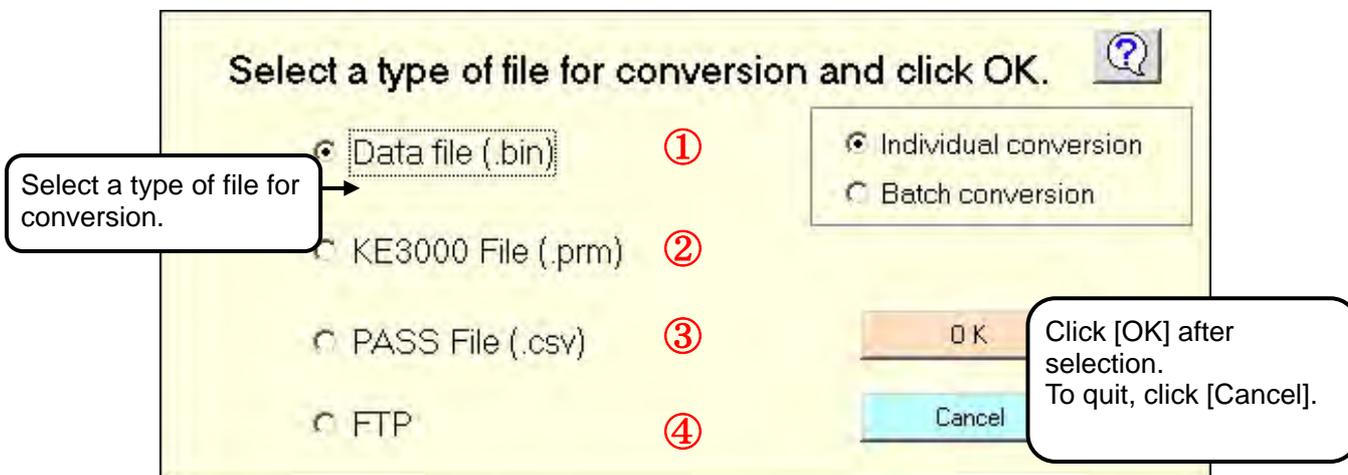
※In the BR data conversion, a configuration file is not converted.

## 7-10 KE3 File Conversion

The data file created in memory card of KE3000 can be converted in to KIDS format(mbm),Excel format (xls),HTML format,CSV format,or Text format.

You can chose "Individual conversion" or "Batch conversion".

The setting file of KE3000 is changed into the format of PASS, and the setting file of PASS is changed into the setting file of KE3000.



### ① Data file

Select a KIDS format (mbm), a Excel format (xls) ,a HTML format (htm) ,a CSV format or a text format for conversion. For the historical data monitoring, select a binary file (\*.mbm).

### ② KE3000 file

The setting file of KE3000 is changed into the format of PASS.

### ③ PASS file

The setting file of PASS is changed into the setting file of KE3000.

### ④ FTP

Communication between File and instruments.

# CHINO

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