

**PAPERLESS RECORDER
TR30 SERIES
VIEWER SOFTWARE
Model: TRViewer
USERS MANUAL**

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1. INTRODUCTION

Thank you for your choosing M-System.

Before use, please check contents of the package you received.

1.1 CORRESPONDING VERSION

This users manual supports the TRViewer since Version 1.1.

The symbol is indicated for the different part by the version.

Refer to the OTHER OPERATIONS for confirming the version. → 3.7.3 VERSION INFORMATION

V1.3	: TRViewer version 1.3
V1.5	: TRViewer version 1.5

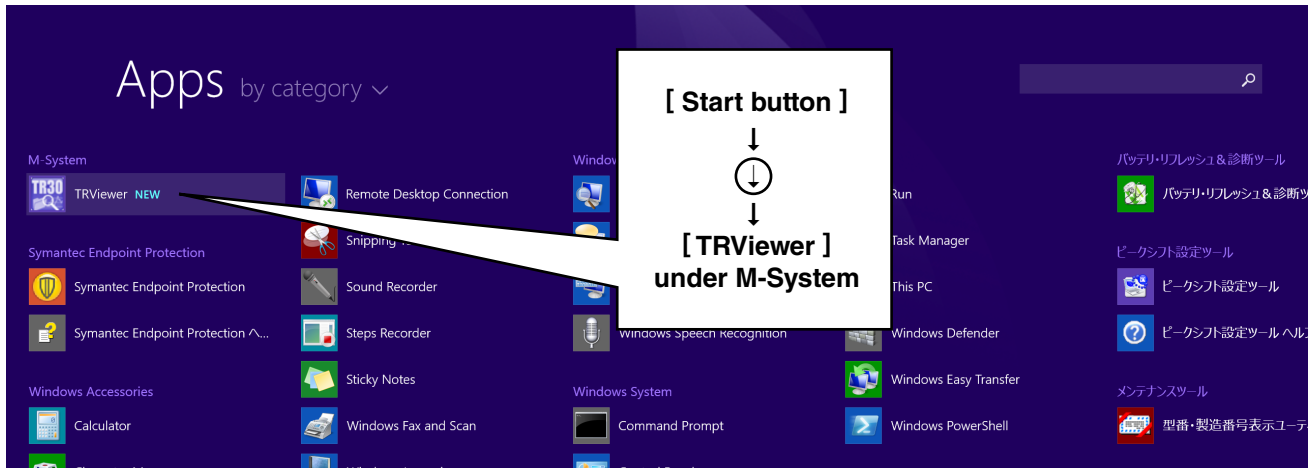
2. INSTALLATION

2.1 HOW TO INSTALL TRViewer

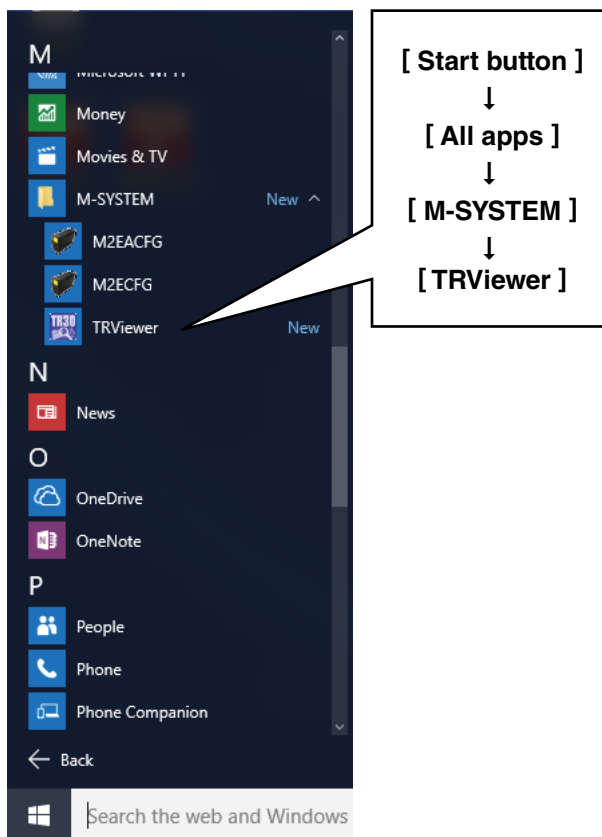
Download the TRViewer at M-System's web site (<http://www.m-system.co.jp>). The program is provided as compressed archive. Decompress the archive and execute 'setup.exe' to start up the TRViewer installer program. Follow instructions on the Windows.

When the installation is completed, the TRViewer will be added to the Start menu or Start screen.

[Windows 8.1]



[Windows 10]



NOTE

- Log on as administrator to start installation.
- If you already have the TRViewer program installed on your PC, uninstall (remove) entirely before newly installing.

2.2 HOW TO UNINSTALL TRViewer

If you already have the TRViewer program installed on your PC, uninstall (remove) entirely before newly installing.

Uninstall the program in Control Panel on your PC. Uninstallation procedure depends on the OS. Refer to the manuals of each OS. Following uninstallation procedure is that for Windows 7.

- 1) Select Control Panel from the Start menu.
- 2) With view by Category, select Uninstall a program. (With view by Large icons or Small icons, select Programs and Features.)
- 3) Select the TRViewer in the list shown in Uninstall or change a program, click on Uninstall.

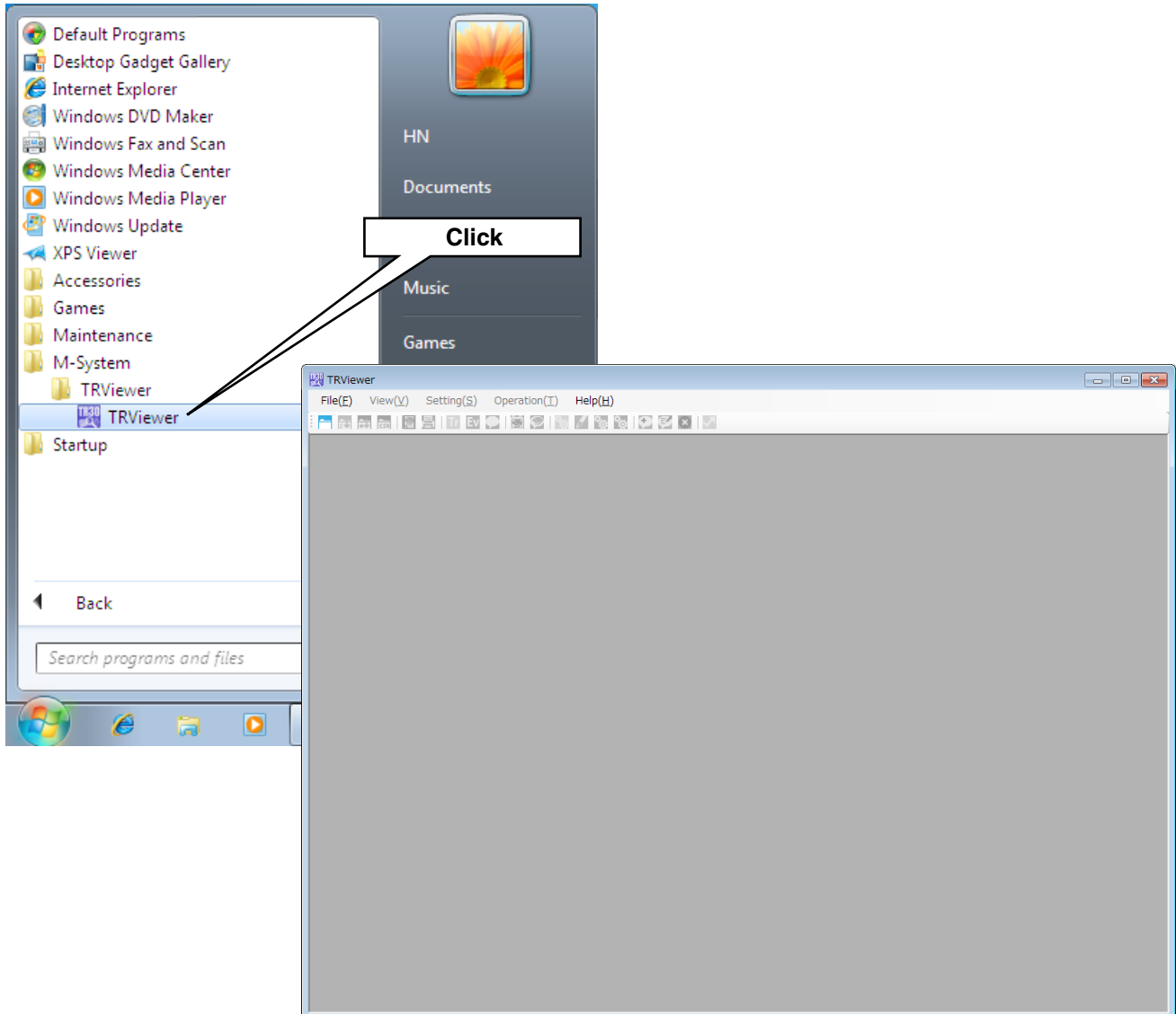
3. OPERATION

3.1 START UP & EXIT

3.1.1 HOW TO START UP


Start the TR Viewer in the Start menu or Start screen, and then the TRViewer window shown in the figure below will appear.

[Windows 7]



3.1.2 HOW TO EXIT

Terminate the TRViewer in the following procedure.


- 1) Select Exit from File on the menu bar. Or click on  in the upper right corner.
- 2) The confirmation dialog box will appear in changing settings or editing comments. Save as necessary.
- 3) The program will be terminated.

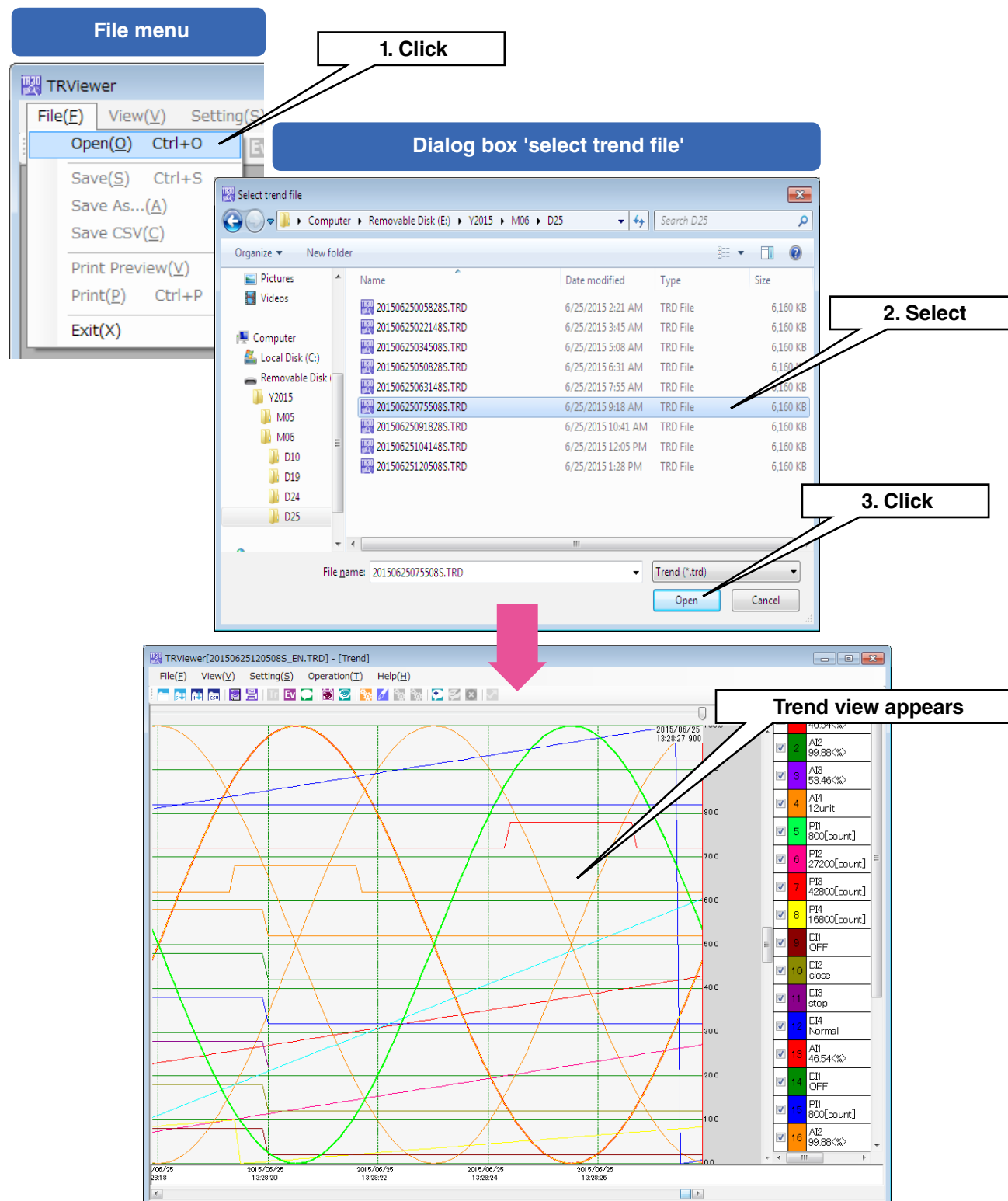
3.2 FILE OPERATION

3.2.1 OPENING FILE

The TRViewer reads data the Tablet Recorder transferred to a SD card.

Copy data files to a PC with the FTP connection to the Tablet Recorder, or use a SD card reader connected to a PC to read files in a SD card.

- 1) Select Open from File on the menu bar. Or click on  on the tool bar.
- 2) The dialog box 'Select trend file' will appear. Select a data file (*.TRD) and click on Open.
- 3) The Trend view will appear.



NOTICE


- In opening a new data file, the existing open file will be automatically closed. To open multiple data files, start multiple TRViewers.
- A file cannot be opened simultaneously with multiple TRViewers.
- Use Explorer or an application such like FFFTP for the FTP connection. The TRViewer does not have a FTP client function.

3.2.2 SAVING FILE

You can save changes added to TRViewer data.


■ Saving

You can save changes to an open file.

- 1) Select Save from File on the menu bar. Or click on  on the tool bar.
- 2) The dialog box 'Completed' will pop up after saving the data. Click on OK.

■ Saving as

You can save changes to a new file.

- 1) Select Save as... from File on the menu bar. Or click on  on the tool bar.
- 2) The dialog box 'Save as' will appear. Enter any name you like in the File name field, and click on Save.
- 3) The dialog box 'Completed' will pop up after saving the data. Click on OK.

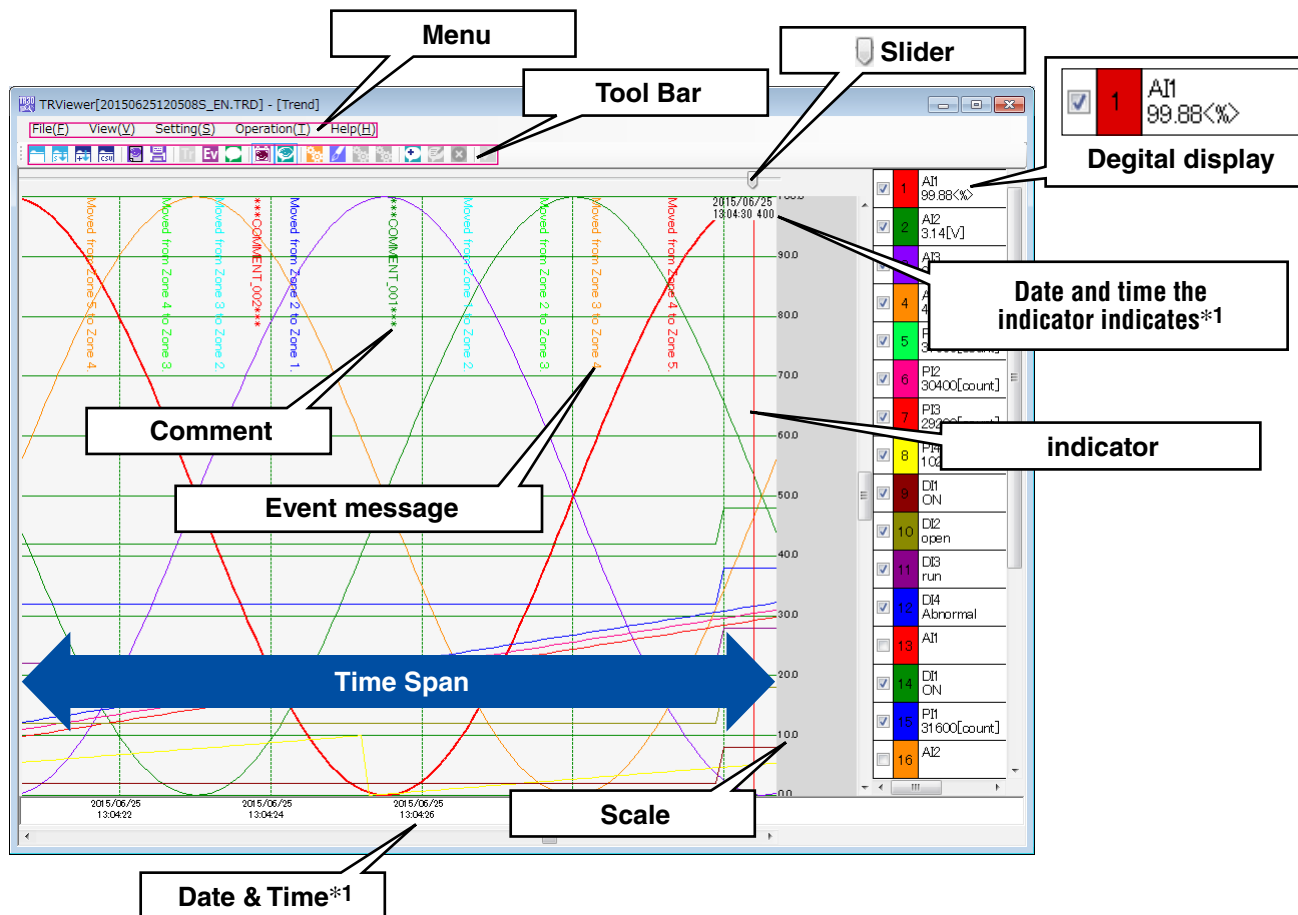
3.3 TREND VIEW

Open a file and the Trend view will appear.

Or from View on the menu bar, select Trend (or click on  on the tool bar), the Trend view will appear.

3.3.1 DISPLAY

In opening a file with 32 pens or more, the first 32 pens will be shown initially.



*1. Daylight saving time: 'DT' on the top of date (e.g. DT2015/05/21)

■ Digital display

Values the indicator indicates are shown.

Click on one of the digital displays, and the pen will be selected with the background gray.

To remove the selected pen, click on the scale area.

NOTICE

- In opening a data file first, event messages and comments are hidden.

3.3.2 OPERATION



The Trend view allows the following operations.

■ Showing event message

Event messages can be shown on the Trend view.

The event message icon on the tool bar is surrounded with a blue frame when a message is shown.

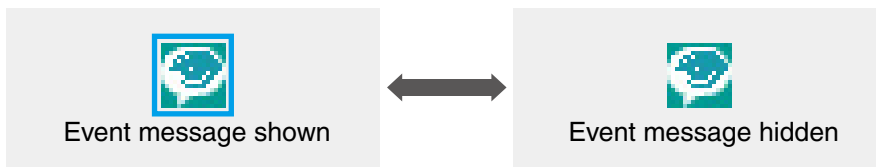




- 1) From Setting on the menu bar, select Trend Setting. Or click on  on the tool bar.
- 2) The dialog box 'Trend Setting' will appear. Select the checkbox 'Show events' and then click on OK.
- 3) Event messages will be shown on the Trend view. Or click on  on the tool bar to show or hide messages.

■ Showing comment

Comments can be shown on the Trend view.

The comment icon on the tool bar is surrounded with a blue frame when a comment is shown.



- 1) From Setting on the menu bar, select Trend Setting. Or click on  on the tool bar.
- 2) The dialog box 'Trend Setting' will appear. Select the checkbox 'Show comments' and then click on OK.
- 2) Comments will be shown on the Trend view. Or click on  on the tool bar to show or hide comments.

■ Showing / hiding pens


There are two methods to show or hide pens.

Max. 32 pens can be selected and shown on the screen at the same time.

■ Method 1

You can show or hide a pen by switching on or off the checkbox in the digital display.

■ Method 2

- 1) From Setting on the menu bar, select Pen Setting. Or click on  on the tool bar.
- 2) The dialog box 'Pen Setting' will appear. Switch on or off the checkbox 'Show' of a pen to change. Then click on OK.
- 3) The pen will be shown or hidden on the Trend view.


■ Switching scale (% , scaling value)

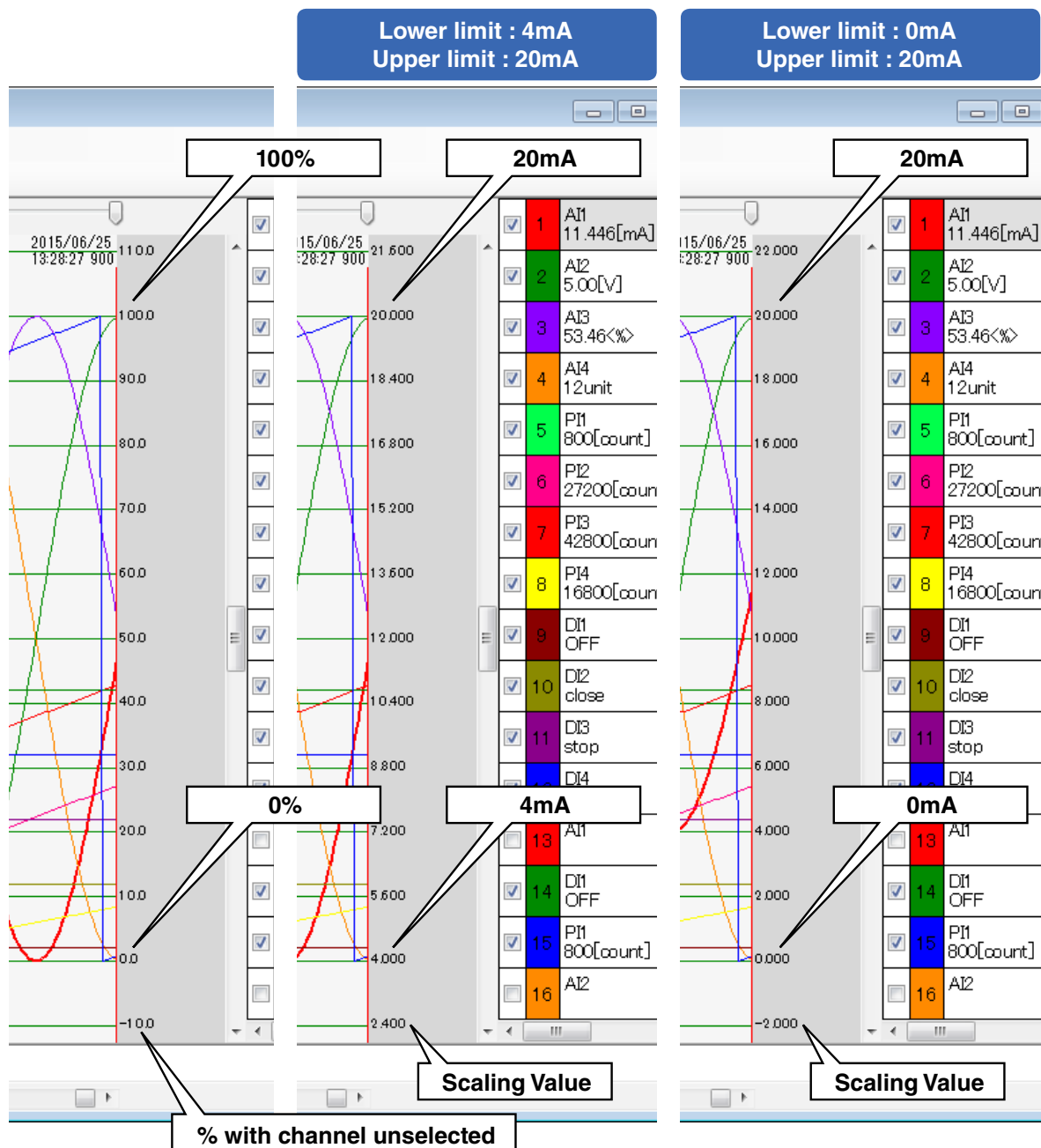
You can switch the scale between percentage and scaling value.

- 1) Click the digital display of a pen to switch the scale.
- 2) The scale will be switched according to the selected pen. When the digital display of the pen indicates the scaling value, the scale will be given in the scaling value, and when it indicates the percentage, the scale will be also in the percentage.
- 3) Click the digital display again, and the scale will be switched between scaling value and percentage.

■ Changing max. and min. values of the scale (AI, PI, and OI)

You can change max. and min. values of the scale per channel.

- 1) From Setting on the menu bar, select Pen Setting. Or click on  on the tool bar.
- 2) The dialog box 'Pen Setting' will appear. Enter lower and upper limits in the fields Lower limit and Upper limit, and then click on OK.
- 3) The max. and min. values will be changed on the Trend view.




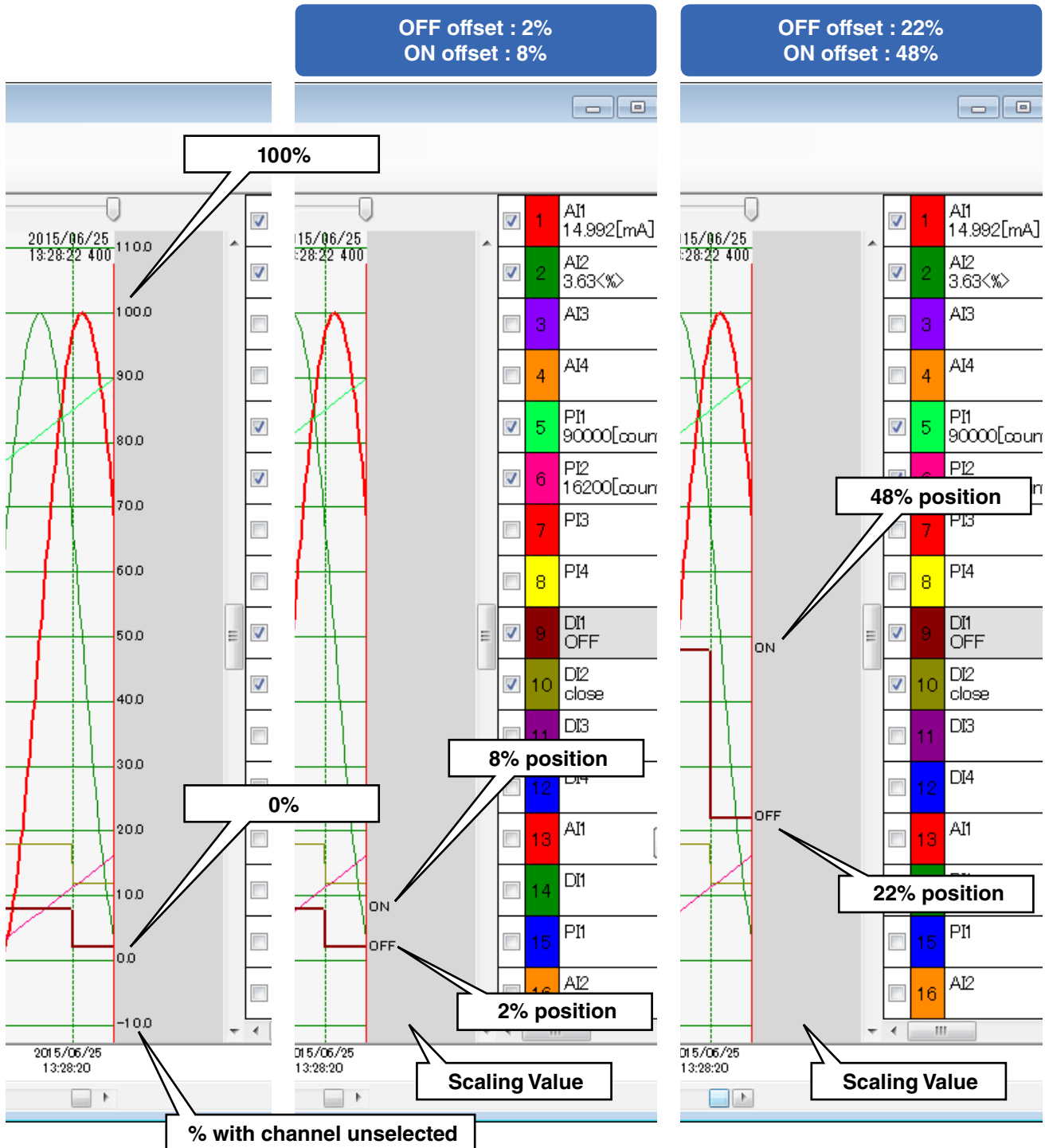
NOTICE

- OI is supported since Ver. 1.1.
- For the I/O channel available for exponent notation, the scale for Upper limit and Lower limit of the dialog box 'Pen Setting' and Trend view are indicated with exponential form.
- For the pen available for logarithmic expression, Upper limit and Lower limit of the dialog box 'Pen Setting' is indicated with integer. Setting range is -10 to +10.
- The scale with number of digits that cannot be indicated in Scaling Value is indicated with exponential form.

■ Changing display position of chart (DI, DO)


You can change the display position of a chart per channel.

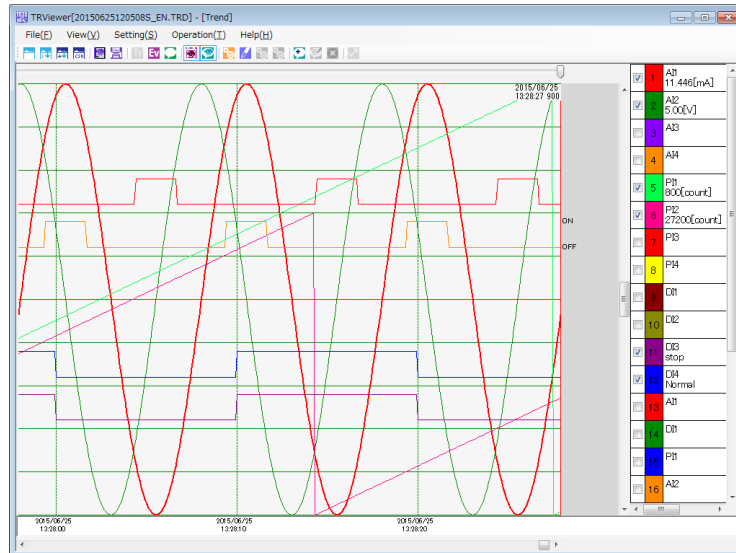
- 1) From Setting on the menu bar, select Pen Setting. Or click on  on the tool bar.
- 2) The dialog box 'Pen Setting' will appear. Enter percentage of a pen in the fields 'OFF offset' and 'ON offset', and click on OK.
- 3) The chart of the selected pen will be changed.



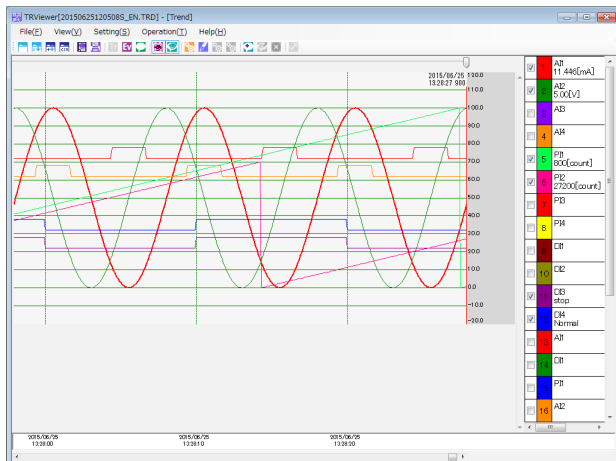
■ Changing display magnification (scaling)

You can change the display magnification on the Trend view. The default value 100% can be adjusted between 50 and 400%.

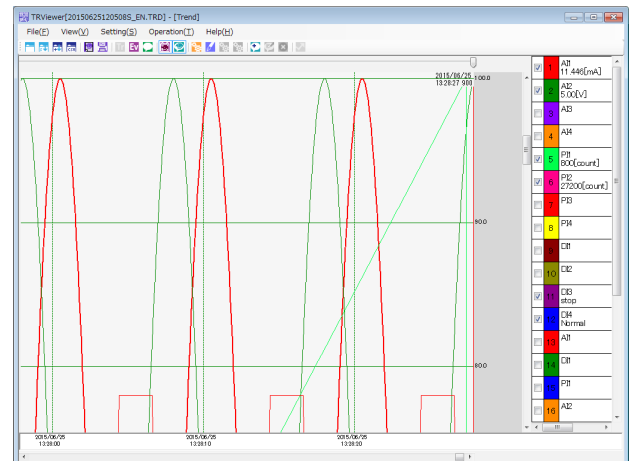
- 1) From Setting on the menu bar, select Trend Setting. Or click on  on the tool bar.
- 2) The dialog box 'Trend Setting' will appear. Enter the scale ratio directly in the field 'Scale' or select one from the pull-down menu, and then click on OK.
- 3) The magnification will be changed.



100%



50%




400%

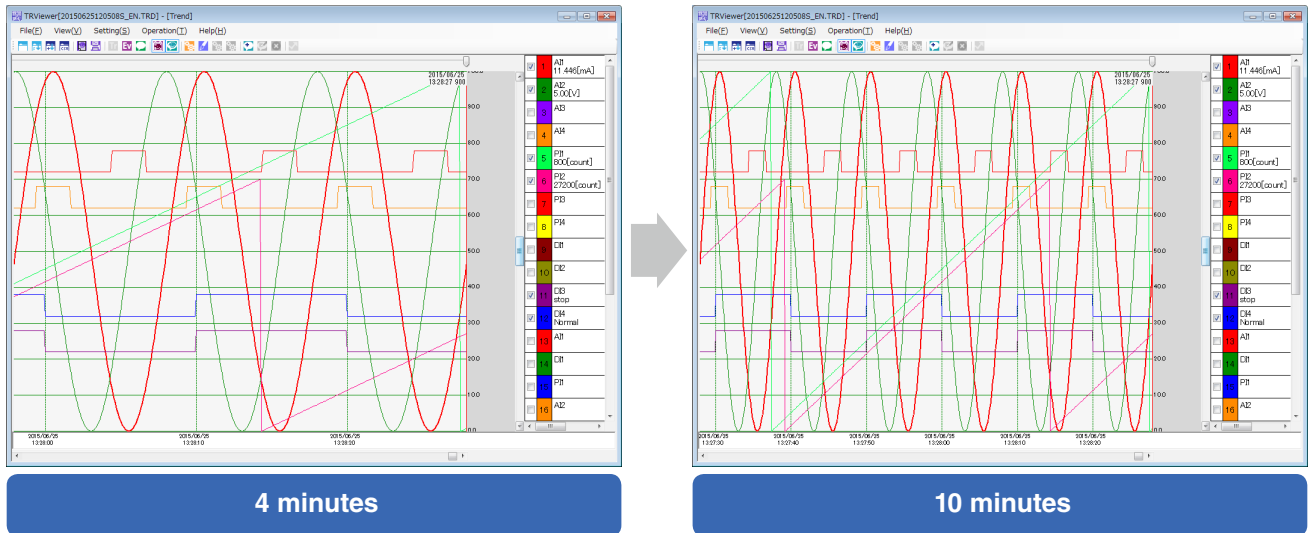
NOTICE

- The display magnification can be specified between 50 and 400% in increments of 1%

■ Changing time span

You can change the time span on the Trend view.

- 1) From Setting on the menu bar, select Trend Setting. Or click on  on the tool bar.
- 2) The dialog box 'Trend Setting' will appear. Select a preferred time span from the pull-down menu, and then click on OK.
- 3) The time span will be changed.




NOTICE

- Selectable time spans depend on the logging rate. → 4.2 LOGGING RATE AND TIME SPAN.

■ Writing comments

Comments can be entered on the Trend view.


- 1) Move the slider to the position to enter a comment.
- 2) From Operation on the menu bar, select Enter Comment. Or click on  on the tool bar.
- 3) The dialog box 'Enter Comment' will appear. Select a text color, enter a comment, and then click on OK.
- 3) The comment will be given on the Trend view.

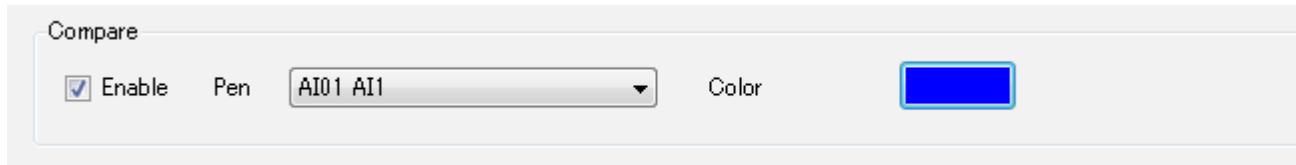
NOTICE

- Entering a comment with 'Show comments' off in the dialog box 'Trend Setting' will automatically switch to on.

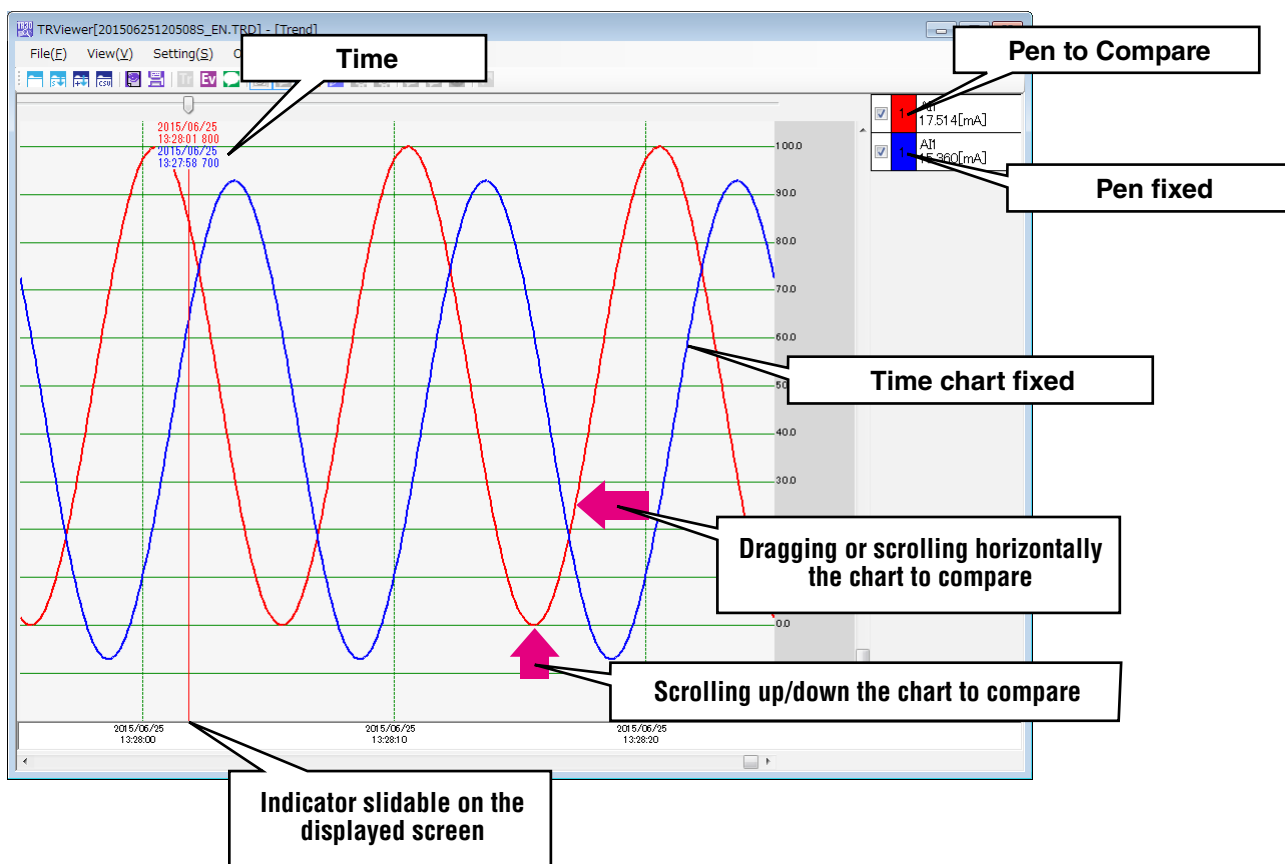
■ Comparing pen

You can compare data of a pen with that of the same pen at different time.

- 1) Display a chart of the data to compare. Set the display magnification and time span, and show or hide event messages and comments first, which cannot be changed while comparing.
- 2) From Setting on the menu bar, select Pen Setting. Or click on  on the tool bar.
- 3) The dialog box 'Pen Setting' will appear. Select the checkbox 'Enable' under 'Compare'.
- 4) Select a pen to compare and color.




- 5) Click on OK to return to the Trend view. The charts of the selected pen will be shown. Shift the chart to compare by use of the scroll bars.



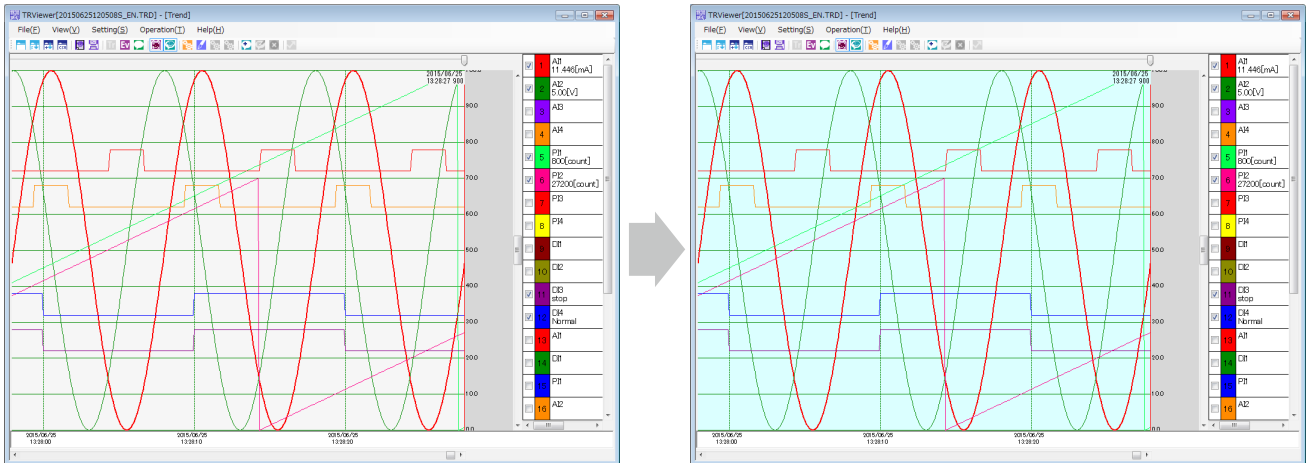
NOTICE

- While comparing a pen, the trend setting is not available.
- Print or print preview is available only for 'Current page' as print range.


■ Changing background color

You can change the background color on the Trend view. Or click on  on the tool bar.

- 1) From Setting on the menu bar, select Trend Setting.
- 2) The dialog box 'Trend Setting' will appear. Click on a rectangle next to 'Background color'.
- 3) The Color window will appear. Select your preferred color by clicking on it. Then click on OK.
- 4) Click on OK in the dialog box 'Trend Setting'.
- 5) The background color will be changed























3.4 EVENT SUMMARY

Select Event Summary from View on the menu bar, or click on  on the tool bar, and the Event Summary view will appear.

3.4.1 DISPLAY

The events are listed.

Menu **Toolbar**

	Date	Time	CH name	CH comment	Event	No.	Status
1	2015/06/25	13:06:06	AI1	AI1_comment	Moved from Zone 1 to Zone 2.	2	
2	2015/06/25	13:06:04	AI1	AI1_comment	Moved from Zone 2 to Zone 1.	1	
3	2015/06/25	13:06:03	AI1	AI1_comment	Moved from Zone 3 to Zone 2.	2	
4	2015/06/25	13:06:02	AI1	AI1_comment	Moved from Zone 4 to Zone 3.	3	
5	2015/06/25	13:06:01	AI1	AI1_comment	Moved from Zone 5 to Zone 4.	4	
6	2015/06/25	13:05:59	AI1	AI1_comment	Moved from Zone 4 to Zone 5.	5	
7	2015/06/25	13:05:58	AI1	AI1_comment	Moved from Zone 3 to Zone 4.	4	
8	2015/06/25	13:05:57	AI1	AI1_comment	Moved from Zone 2 to Zone 3.	3	
9	2015/06/25	13:05:56	AI1	AI1_comment	Moved from Zone 1 to Zone 2.	2	
10	2015/06/25	13:05:54	PI1	PI1	PI reached to Zone 8	1	
11	2015/06/25	13:05:54	AI1	AI1_comment	Moved from Zone 2 to Zone 1.	1	
12	2015/06/25	13:05:53	AI1	AI1_comment	Moved from Zone 3 to Zone 2.	2	
13	2015/06/25	13:05:52	AI1	AI1_comment	Moved from Zone 4 to Zone 3.	3	
14	2015/06/25	13:05:51	AI1	AI1_comment	Moved from Zone 5 to Zone 4.	4	
15	2015/06/25	13:05:49	AI1	AI1_comment	Moved from Zone 4 to Zone 5.	5	
16	2015/06/25	13:05:48	AI1	AI1_comment	Moved from Zone 3 to Zone 4.	4	
17	2015/06/25	13:05:47	AI1	AI1_comment	Moved from Zone 2 to Zone 3.	3	
18	2015/06/25	13:05:46	AI1	AI1_comment	Moved from Zone 1 to Zone 2.	2	
19	2015/06/25	13:05:44	AI1	AI1_comment	Moved from Zone 2 to Zone 1.	1	
20	2015/06/25	13:05:43	AI1	AI1_comment	Moved from Zone 3 to Zone 2.	2	

Date*1 **Time** **CH name** **CH comment** **Event message** **Event No.** **Status**

*1. Daylight saving time: 'DT' on the top of date (e.g. DT2015/05/21)

3.4.2 OPERATION

The Event Summary view allows the following operations.


■ Sorting

Click on title Date, CH name, CH comment, Event or No., and the data will be rearranged in the order of data of the column.

▼ will be indicated in the title cell.


■ Going to Trend

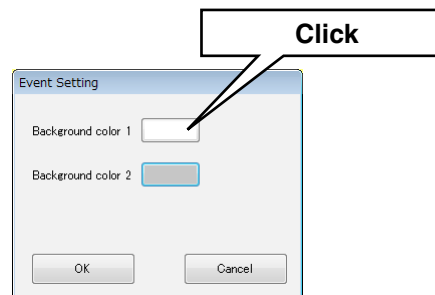
You can jump to the Trend view at the time when the selected event occurred.

- 1) Click on an event. The selected row will be blue.
- 2) From Operation on the menu bar, select Go to Trend. Or click on  on the tool bar.
- 3) The screen will be switched to the Trend view at the time when the specified event occurred.

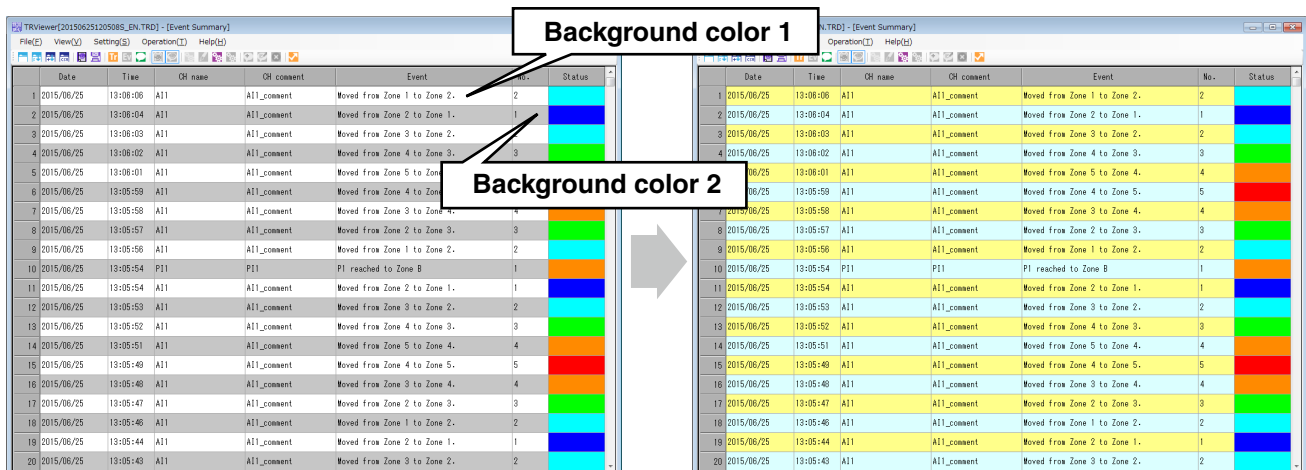
■ Changing background color

You can change the background colors on the Event Summary view.


- 1) From Setting on the menu bar, select Event Setting. Or click on  on the tool bar.
- 2) The dialog box 'Event Setting' will appear. Click on a rectangle next to 'Background color 1' or 'Background color 2'.



- 3) The Color window will appear. Select your preferred color by clicking on it. Then click on OK.
- 4) Click on OK in the dialog box 'Event Setting'.
- 5) The background color will be changed.

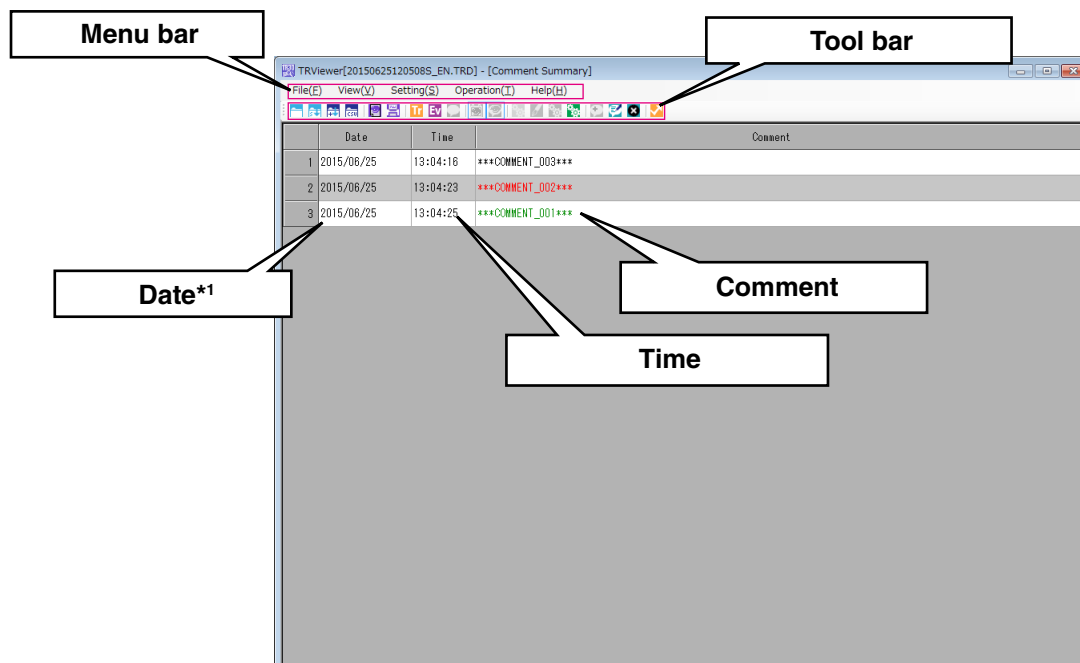


3.5 COMMENT SUMMARY

Select Comment Summary from View on the menu bar, or click on  on the tool bar, and the Comment Summary view will appear.

3.5.1 DISPLAY

The comments are listed with the text colors in entering the comments.




*1) Daylight saving time: 'DT' on the top of date (e.g. DT2015/05/21)

3.5.2 OPERATION


■ Editing comment

You can edit a comment.

- 1) Click on a comment to edit. The selected row will be blue.
- 2) From Operation on the menu bar, select Edit Comment. Or click on  on the tool bar.
- 3) The dialog box 'Edit Comment' will appear. Edit the comment and click on OK.
- 4) The comment will be changed.

■ Deleting comment

You can delete a comment.


- 1) Click on a comment to delete. The selected row will be blue.
- 2) From Operation on the menu bar, select Delete Comment. Or click on  on the tool bar.
- 3) The dialog box 'Are you sure you want to delete this comment?' will appear. Click on Yes (Y).
- 4) The comment will be deleted.

■ Sorting

Click on title Date or Comment, and the data will be rearranged in the order of data of the column.
▼ will be indicated in the title cell.


■ Going to Trend

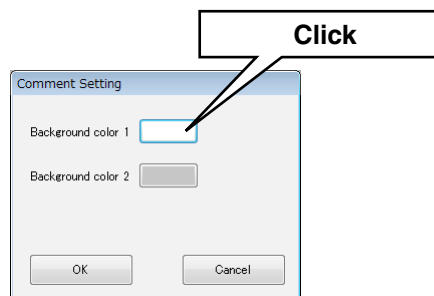
You can jump to the Trend view at the time of the selected comment.

- 1) Click on a comment. The selected row will be blue.
- 2) From Operation on the menu bar, select Go to Trend. Or click on  on the tool bar.
- 3) The screen will be switched to the Trend view at the time of the specified comment.

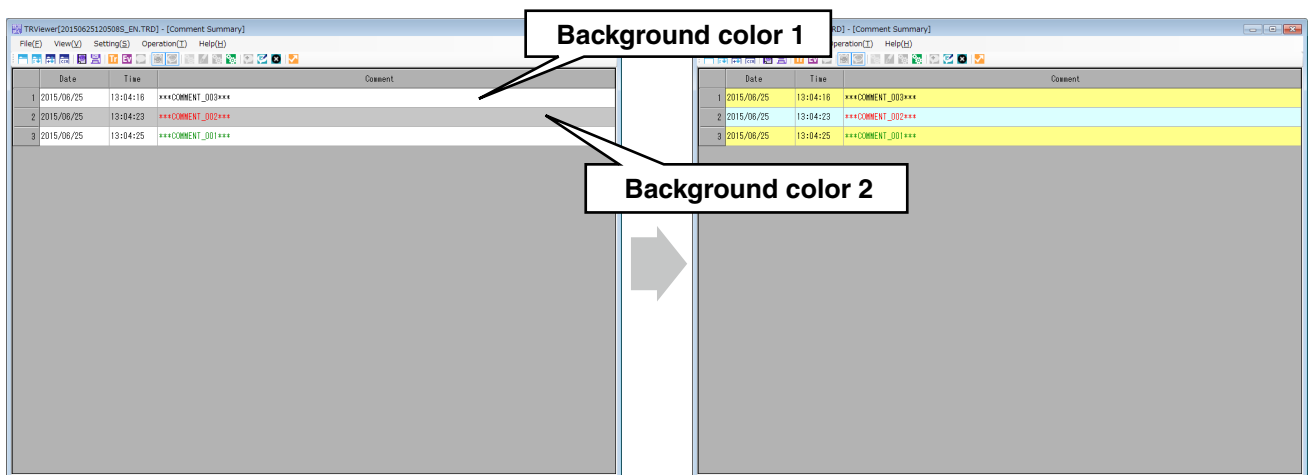
■ Changing background color

You can change the background colors on the Comment Summary view.

- 1) From Setting on the menu bar, select Comment Setting. Or click on  on the tool bar.
- 2) The dialog box 'Comment Setting' will appear. Click on a rectangle next to 'Background color 1' or 'Background color 2'.



- 3) The Color window will appear. Select your preferred color by clicking on it. Then click on OK.
- 4) Click on OK in the dialog box 'Comment Setting'.
- 5) The background color will be changed.




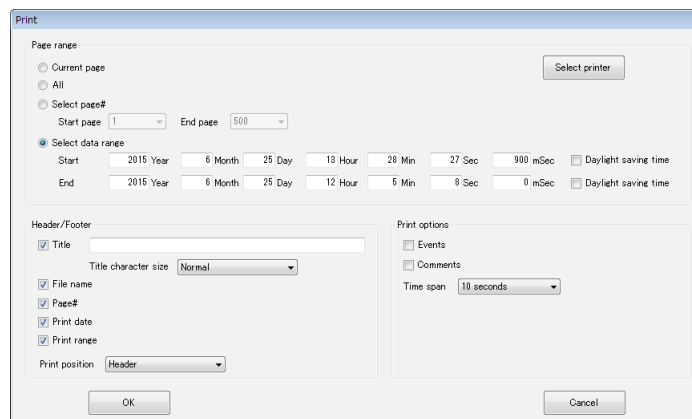
3.6 PRINT

You can print the trend, event summary and comment summary.

3.6.1 PRINT

You can print the screen being displayed or a specified range. The TRViewer rescales the image automatically according to the paper size.

- 1) From File on the menu bar, select Print. Or click on  on the tool bar.
- 2) The dialog box 'Print' will appear.



- 3) Refer to the following items for the settings. Click on OK to start printing.

■ Page range

Current page:	In printing the trend, the current page is printed including the indicator. When the window size is changed, its aspect ratio is reflected in printing. In printing the event or the comment summary, a page from the upper row being displayed on the screen is printed.
All:	All data is printed. With the Trend view, all data is printed in the fixed format. Sorting and the column width depend on the screen being displayed in printing the event or comment summary.
Select page #:	Can be specified only in printing the Trend view.
Select data range:	Time of the data to print can be specified. Specify later time in 'Start'. Select the checkbox 'Daylight saving time' if necessary.

NOTICE

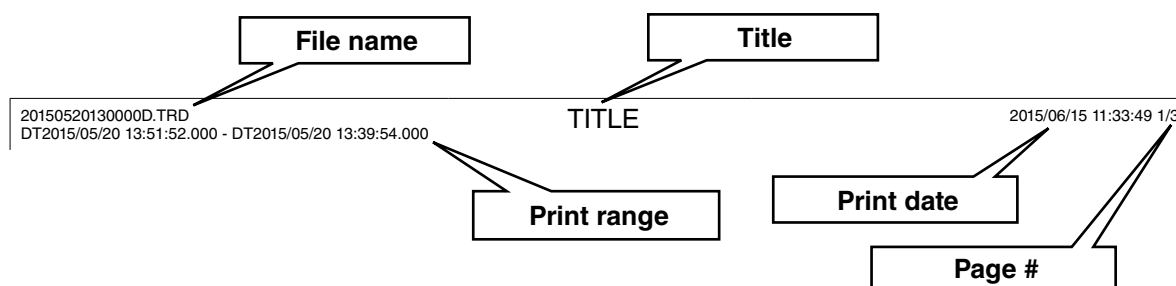
- When 'Current page' is selected, the trend will be printed according to the window aspect ratio with the window size changed. The event or comment summary will be printed for the number of rows depending on the paper size, regardless of the displayed rows.
- Specify A4 or A3 paper. M-System does not warrant the operation for other paper sizes.

■ Additional information

Additional information can be printed in the header or footer.

Title:	Any title is printed. Select 'Title character size' among Normal, Large or Max.
File name:	The file name is printed.
Page #:	The page number and the total page numbers are printed.
Print date:	The date and time are printed in the order of 'year/month/date hour:minute:second'.
Print range:	The date and time of the print range are printed. Daylight saving time : 'DT' on the top of date (e.g. DT2015/05/21)
Print position:	Select the position to print the additional information, Header or Footer.

■ Example



■ Print options

Can be set only in printing the Trend view. When 'Current page' is selected as print range, the options cannot be set.


Events:	Event messages are printed on the trend chart.
Comments:	Comments are printed on the trend chart.
Time span:	The time span to print in a page can be set.

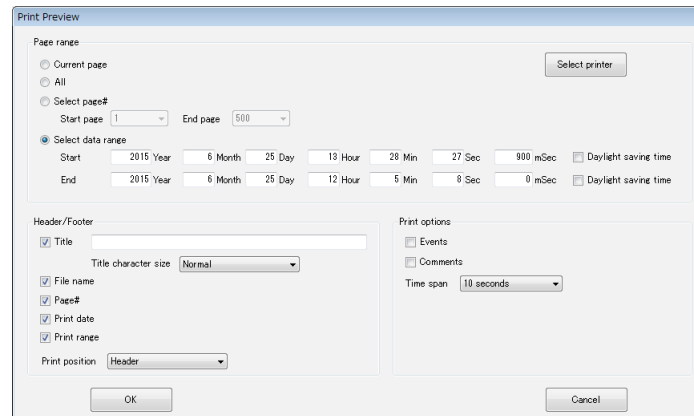
NOTE

- The settings except for 'Select printer' will return to default when the dialog box is closed.
- In selecting other than 'Current page' to print the Trend view, the pens being displayed will be printed in the digital displays.

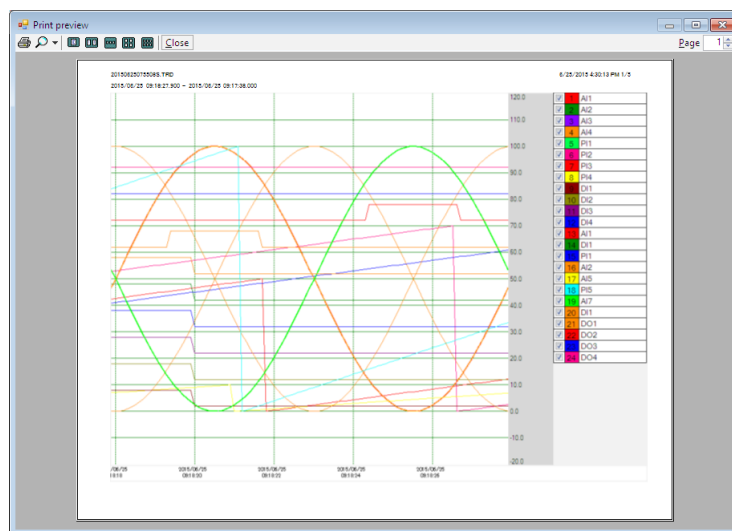
3.6.2 PRINT PREVIEW


You can check print image before printing.

- 1) From File on the menu bar, select Print Preview. Or click on  on the tool bar.
- 2) The dialog box 'Print Preview' will appear.



- 3) The setting items are the same as those in the dialog box 'Print'. Click on OK and the print preview will appear.



- 4) Click on  on the tool bar to start printing.


NOTE

- The settings except for 'Select printer' will return to default when the dialog box is closed.

3.7 OTHER OPERATIONS

3.7.1 SAVING AS CSV FILE

You can save data being displayed on the screen as a CSV file. The contents to save depend on the views.

- 1) From File on the menu bar, select Save CSV. Or click on  on the tool bar.
- 2) The dialog box 'Save as' will appear. Enter any name you like in the File name field, and click on Save.
- 3) The dialog box 'Completed' will pop up after saving data. Click on OK.

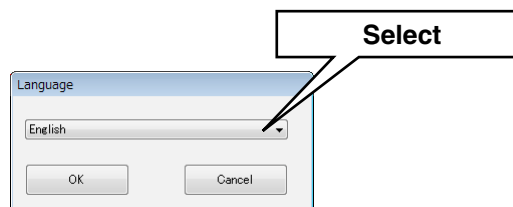
NOTICE

- Refer to 4.3 CSV FILE FORMAT for the items to save in a CSV file.

3.7.2 SWITCHING LANGUAGE

You can change the language of the TRViewer.

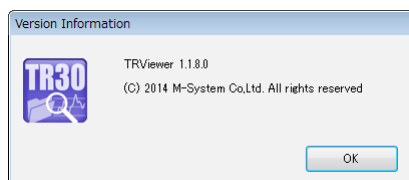
- 1) From Help on the menu bar, select Language.
- 2) The dialog box 'Language' will appear. Select a language and click on OK.



3.7.3 VERSION INFORMATION

You can confirm the version information of the TRViewer.

- 1) From Help on the menu bar, select Version Information.
- 2) The version information as shown in the figure below will pop up.



4. APPENDIX

4.1 COMPATIBLE TERMINAL

Compatible terminal: PC pre-loaded with Windows 7, 8.1 or 10.

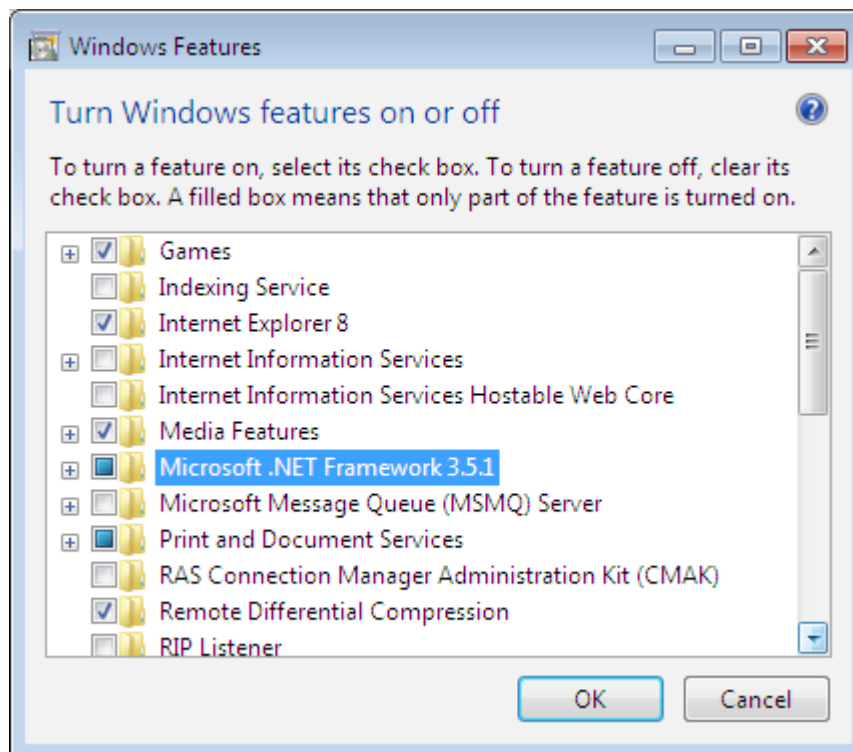
HDD: 10 MB or more disk space necessary in installing

SD card reader: necessary to read data recorded in a SD card directly

Display resolution: XGA (1024 × 768) or more

NOTE

- .NET Framework 3.5 is necessary to be preinstalled.
- How to install .NET Framework 3.5.
Go to Control Panel > Programs > Turn Windows features on or off, and select the checkbox Microsoft.Net Framework 3.5.1.
(For Windows 8.1 and 10, PC must be connected to the Internet.)



NOTICE

- Supporting both 32- and 64-bit versions of Windows.
- Not supporting Windows RT.

4.2 LOGGING RATE AND TIME SPAN

The time spans selectable in the Trend view depend on the logging rate.

■ Logging rate and time span

Logging rate	Time span (1 scale unit in the time span in parentheses)									
	500 ms (100 ms)	1 sec. (200 ms)	3 sec. (500 ms)	6 sec. (1 sec.)	10 sec. (2 sec.)	30 sec. (10 sec.)	1 min. (10 sec.)	4 min. (1 min.)	10 min. (2 min.)	30 min. (10 min.)
5 ms	✓ 100	✓ 200	✓ 600	–	–	–	–	–	–	–
10 ms	–	✓ 100	✓ 300	✓ 600	–	–	–	–	–	–
50 ms	–	–	✓ 60	✓ 120	✓ 200	✓ 600	–	–	–	–
100 ms	–	–	–	–	✓ 100	✓ 300	✓ 600	–	–	–
500 ms	–	–	–	–	–	✓ 60	✓ 120	✓ 480	–	–
1 sec.	–	–	–	–	–	–	–	✓ 240	✓ 600	–
2 sec.	–	–	–	–	–	–	–	✓ 120	✓ 300	–
5 sec.	–	–	–	–	–	–	–	✓ 48	✓ 120	✓ 360
10 sec.	–	–	–	–	–	–	–	–	✓ 60	✓ 180

Recording cycle	Time span (1 scale unit in the time span in parentheses)							
	1 hour (10 min.)	2 hours (30 min.)	6 hours (1 hour)	12 hours (2 hours)	1 day (4 hours)	5 days*1 (1 days)	10 days (2 days)	30 days (5 days)
5 sec.	✓ 720	–	–	–	–		–	–
10 sec.	✓ 360	✓ 720	–	–	–		–	–
1 min.	✓ 60	✓ 120	✓ 360	✓ 720	–		–	–
2 min.	–	✓ 60	✓ 180	✓ 360	✓ 720		–	–
5 min.	–	–	✓ 72	✓ 144	✓ 288		–	–
10 min.	–	–	–	✓ 72	✓ 144		–	–
15 min.*1				✓ 48	✓ 96	✓ 480		
30 min.	–	–	–	–	✓ 48	✓ 240	✓ 480	–
1 hour	–	–	–	–	–		✓ 240	✓ 720

✓ : available to display, – : not available to display

Lower row : number of samples

*1. The time span 5 days and recording cycle 15 min. are available with version 1.3. V1.3

4.3 CSV FILE FORMAT

■ Trend

Item	Data item	Format
Header	Name 1	1 st column : data item
	Name 2	2 nd column : data
	Name 3	
	Number of pens	
	Logging rate	
	Number of records	
Pen information	Pen	1 st row: data item
	Color	2 nd and succeeding rows: channel data
	I/O type	— Display comment (ON/OFF)
	CH	DI : display comment of status (ON/OFF)
	CH name	DO : display comment ON/OFF
	Display comment (ON)	— Scaling
	Display comment (OFF)	AI : int scaling, unsigned int scaling [V1.5]
	scaling (0%)* ¹	PI : scaling
	scaling (100%)* ¹	
	scaling* ¹	
	Number of decimal place	
	Engineering unit	
Data	Daylight saving time	1 st & 2 nd rows: data item
	Date	Blank in item daylight saving time
	Time	CH comment in the 2 nd row
	Millisecond	3 rd and succeeding rows: data
	CH name	Daylight saving time: 'DT' indicated
	CH comment	AI, PI, OI: value in engineering unit* ¹ DI, DO: display comment

*1. For the I/O channel available for exponent notation, it is exponential form. [V1.3]

■ Event summary







Item	Data item	Content
Header	Name 1	1 st column : data item
	Name 2	2 nd column : data
	Name 3	
	Number of events	
Data	Daylight saving time	1 st row: data item
	Date	Blank in item daylight saving time
	Time	2 nd and succeeding rows: data
	CH name	Daylight saving time: 'DT' indicated
	CH comment	
	Event	
	Event No.	
	Status	

■ Comment summary

Item	Data item	Content
Header	Name 1	1 st column : data item
	Name 2	2 nd column : data
	Name 3	
	Number of comments	
Data	Daylight saving time	1 st row: data item
	Date	Blank in item daylight saving time
	Time	2 nd and succeeding rows: data
	Comment	Daylight saving time: 'DT' indicated
	Text color	Text color: indicated in hexadecimal RGB color format (0x[R] [G][B])

4.4 QUICK REFERENCE

■ Tool list

Icon	Content	Corresponding menu	Applicable view	Description	Page
	Open	File > Open		Opening a TRD file.	7
	Save	File > Save		Saving a file.	8
	Save as	File > Save As...		Saving as a new file.	8
	Save CSV	File > Save CSV		Saving as a CSV file.	23
	Print preview	File > Print preview		Showing a print image.	22
	Print	File > Print		Printing.	20
	Trend	View > Trend		Showing Trend view.	9
	Event summary	View > Event summary		Listing events.	16
	Comment Summary	View > Comment Summary		Listing comments.	18
	Show event	Setting > Trend Setting > dialog box		Showing/hiding events in trend chart.	10
	Show comment	Setting > Trend Setting > dialog box		Showing/hiding comments in trend chart.	10
	Trend setting	Setting > Trend Setting		Setting scale, time span, background color.	13, 14, 16
	Pen setting	Setting > Pen setting		Setting indication per pen, comparing pen.	10, 11 12, 15
	Event setting	Setting > Event setting		Setting background colors in Event Summary view.	17
	Comment setting	Setting > Comment setting		Setting background colors in Comment Summary view.	19
	Enter comment	Operation > Enter Comment		Adding a comment.	14
	Edit comment	Operation > Edit comment		Editing a selected comment.	18
	Delete comment	Operation > Delete comment		Deleting a selected comment.	18
	Go to Trend	Operation > Go to Trend		Going to Trend view at the time of selected event or comment.	17, 18