# KEW Windows for KEW5050
# Quick Start Guide

# Starting *KEW Windows for KEW5050*

## Environmental requirements

**System requirements:**

- CPU : Pentium 4 1.6GHz or more
- Memory : 1Gbyte or more
- OS : Please refer to version label on CD case about Windows os.
- HDD : 1Gbyte or more
  (including size of .NET Framework redistributable package)
  - (Hard-disk space required)
- CD or DVD drive : For installing applications
- Display : 1024 x 768 dots, 65536 colors or more

**Recommended system:**

Pentium processor of 2GHz or more

# Starting *KEW Windows for KEW5050*

## Without connecting PC and KEW5050:

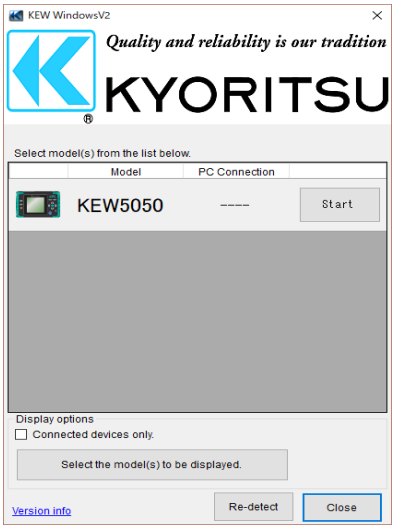
**[Data Analysis (P.6)]**

is available.

### STEP 1

### Start *"KEW Windows".*

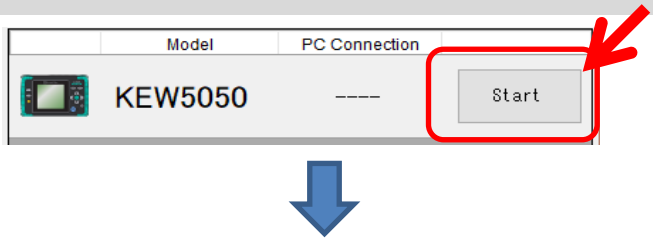
**1** Double-click the short-cut icon on the desktop, or
click *"Start" -> "All programs" -> "KEW" -> "KEW WindowsV2".*

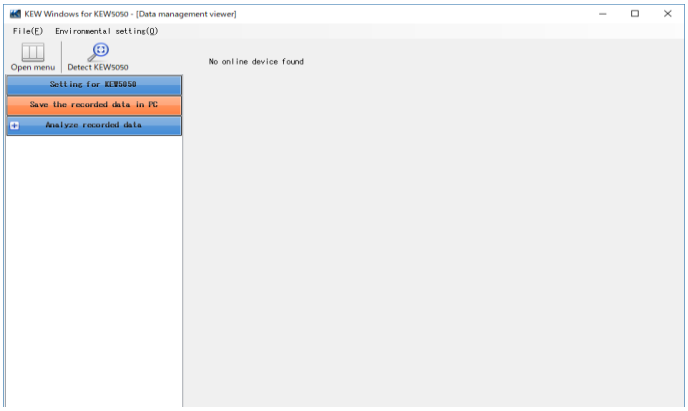




### STEP 2

### Start *"KEW Windows for KEW5050"* .

**1** Click the *[Start]* button for KEW5050.



# Starting *KEW Windows for KEW5050*

## With PC and KEW5050 connected:

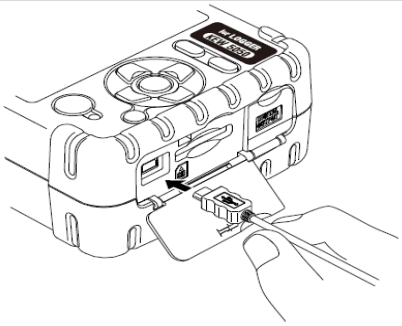
**[Data Analysis (P.6)]**
**[Saving data to PC (P.22)]**
**[KEW5050 Setting (P.28)]**

are available.

### STEP 1

## Connect KEW5050 and PC.

**1** Connect KEW5050 and PC with the USB cable.

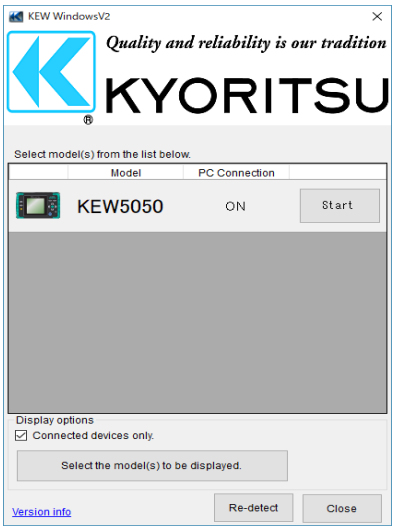


**2** Turn on KEW5050.

### STEP 2

## Start *"KEW Windows"*.

**1** Double-click the short-cut icon on the desktop, or
click *"Start"* -> *"All programs"* -> *"KEW"* -> *"KEW WindowsV2"*.

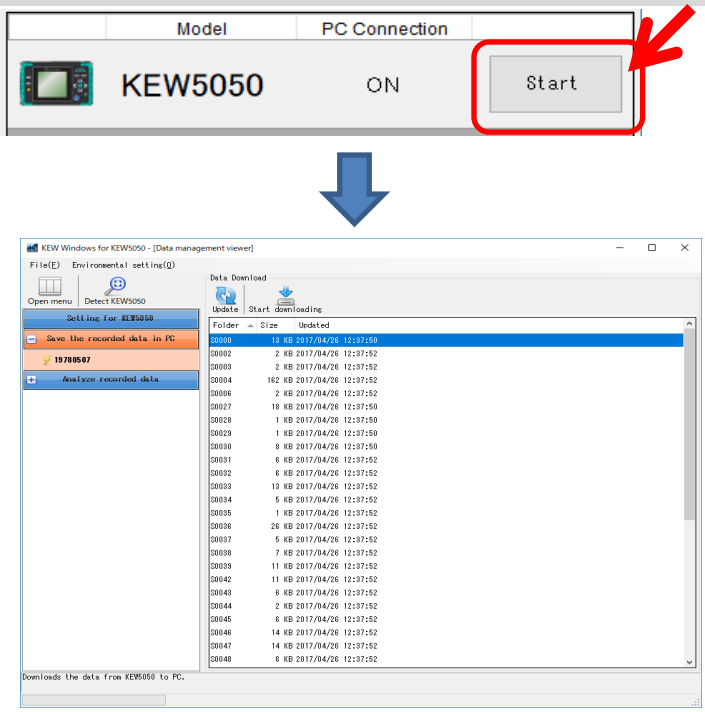



# Starting *KEW Windows for KEW5050*

## STEP 3

## Start *"KEW Windows for KEW5050"* .

**1** Click the *[Start]* button for KEW5050.




If *"ON"* is not displayed for the connected status although KEW5050 is being connected to PC, click *[Re-detect]* .

If *"ON"* is still not displayed, see the "Trouble-shooting".

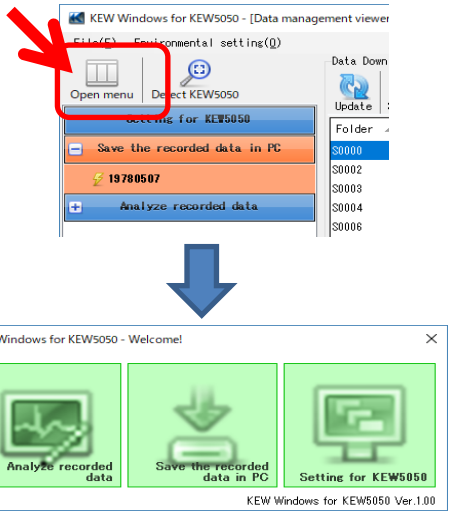
# Data Analysis

## Analysis of data stored in KEW5050

### STEP 1

### Open the Menu

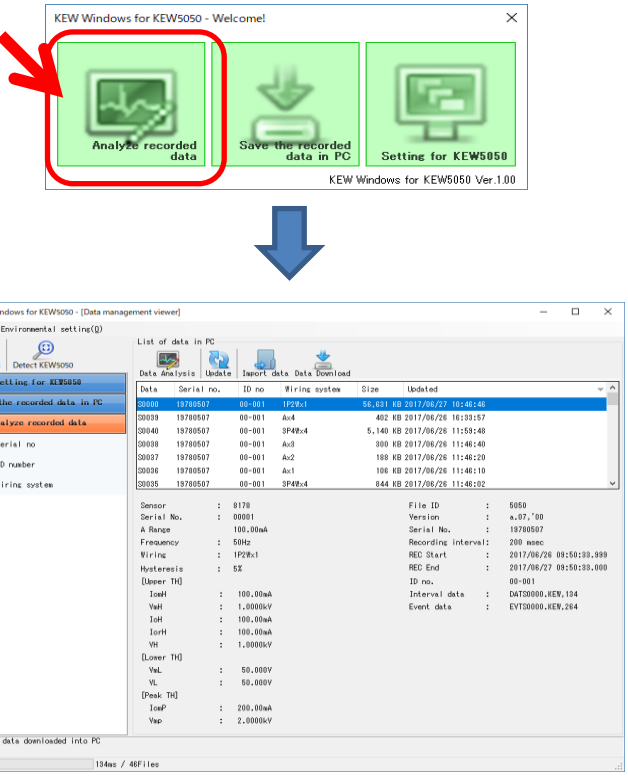
**1** Click the *[Open menu]* icon on the *"Data management viewer"*.




### STEP 2

### Show the list of data stored in PC

**1** Click the *[Analyze recorded data]* icon.

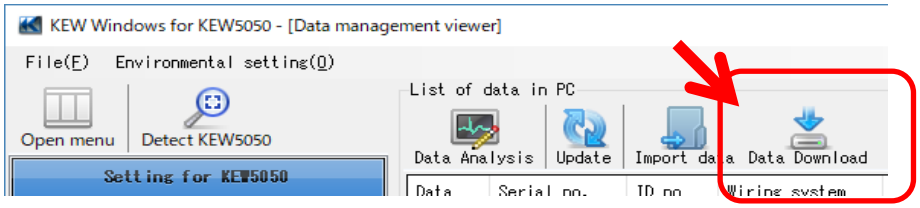


# Data Analysis

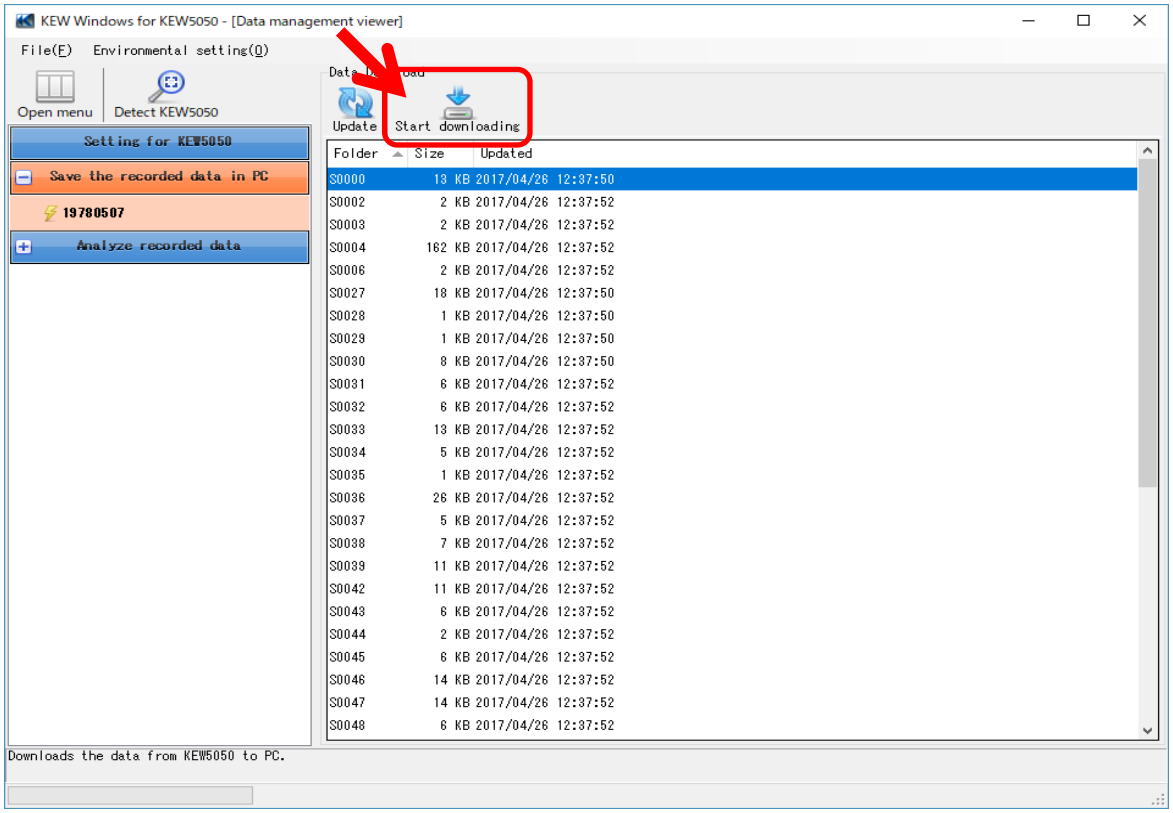
## STEP 3

## View the data stored in KEW5050

### 1 Select the items to be analyzed.

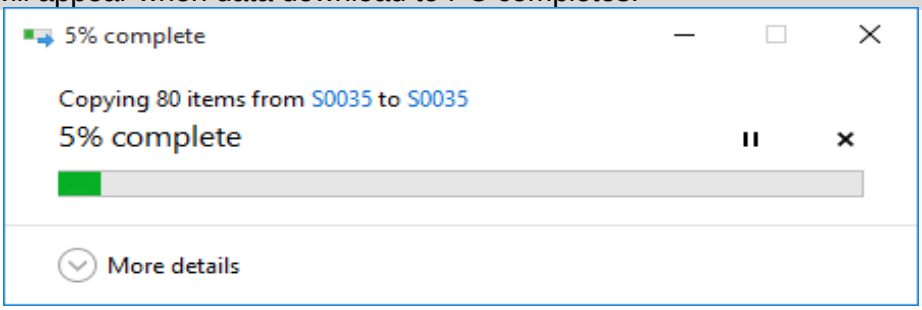


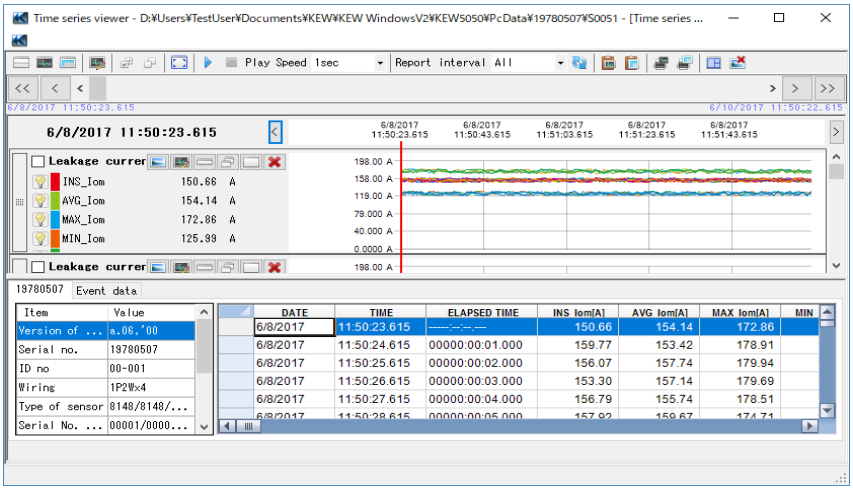

### 2 Select the data to be analyzed, and then click the *[Start downloading]* icon.



# Data Analysis

**3** Data Analysis Window will appear when data download to PC completes.



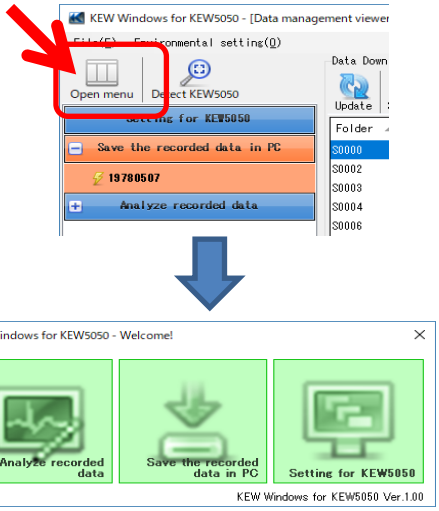
# Data Analysis

## Analysis of downloaded data

### STEP 1

### Open the Menu

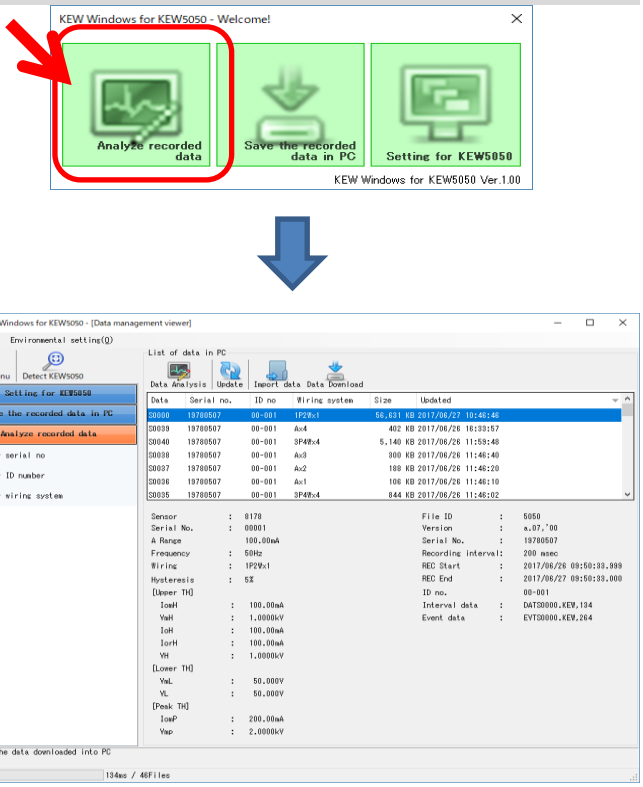
**1** Click the *[Open menu]* icon on the *"Data management viewer"*.




### STEP 2

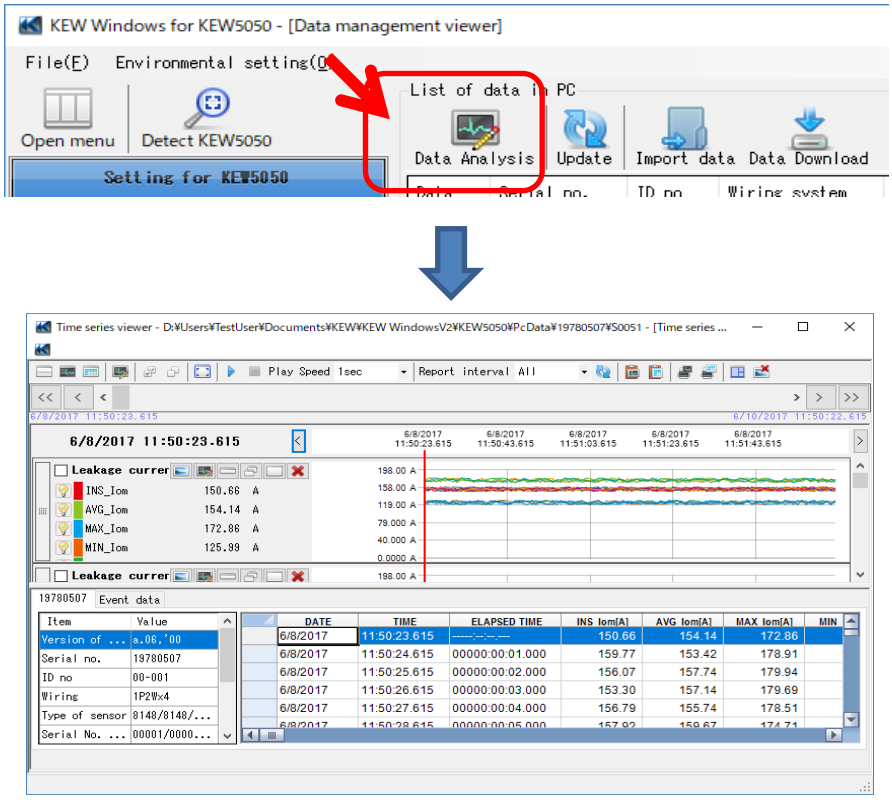
### Show the list of data stored in PC

**1** Click the *[Analyze recorded data]* icon.



# Data Analysis

**2** Click the *[Data Analysis]* icon.

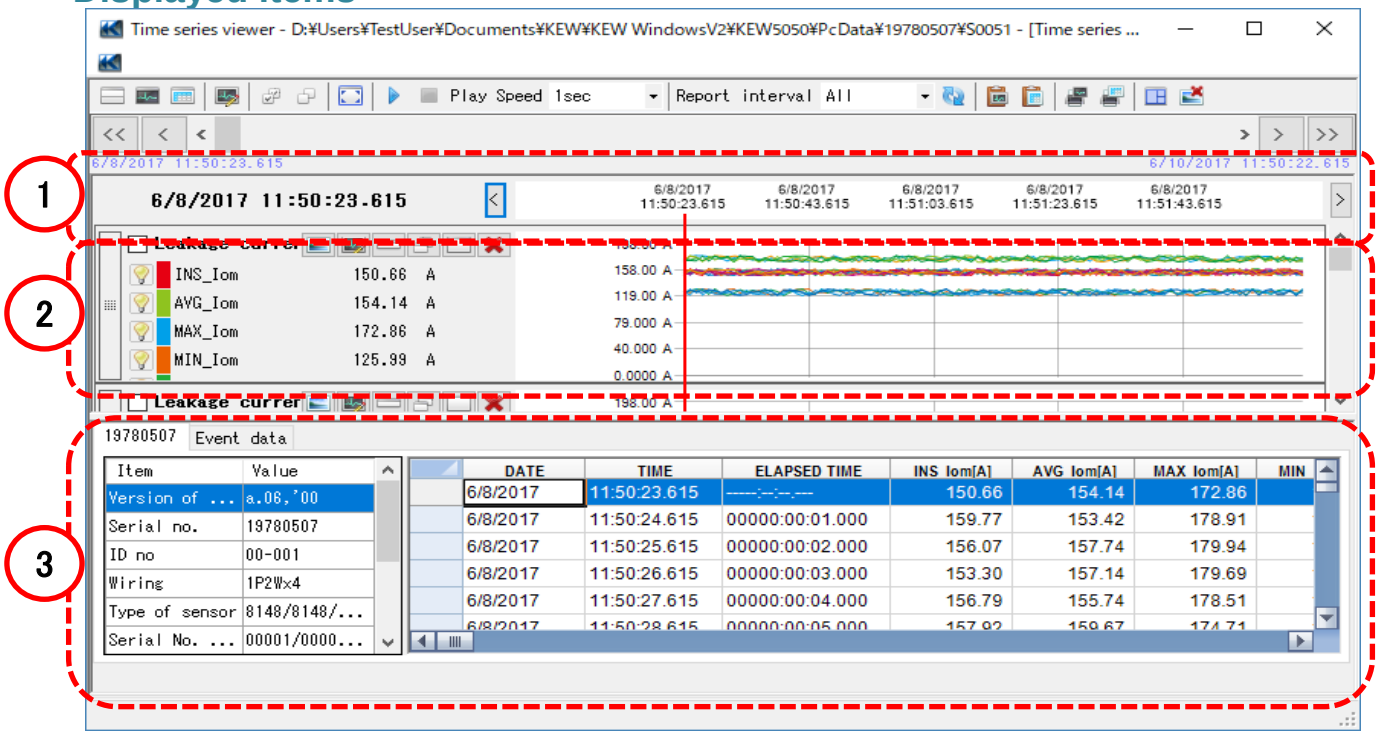


# Data Analysis

## Analysis of log data

### STEP 1

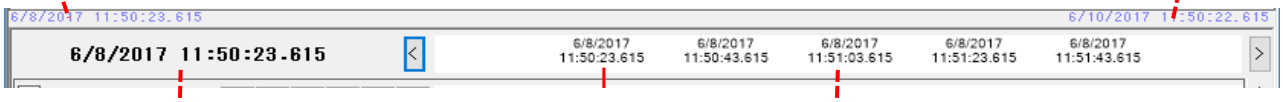
### Displayed items




### 1 Data recorded time

Time when the oldest data recorded

Time when the latest data recorded




Time for the cursor location.

Time axis on the graph

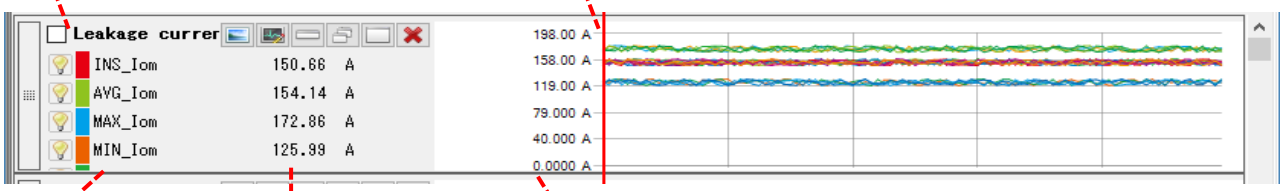
# Data Analysis

## 2 Graph

**[Time Series Graph]**

Graph Name

Cursor




Parameter

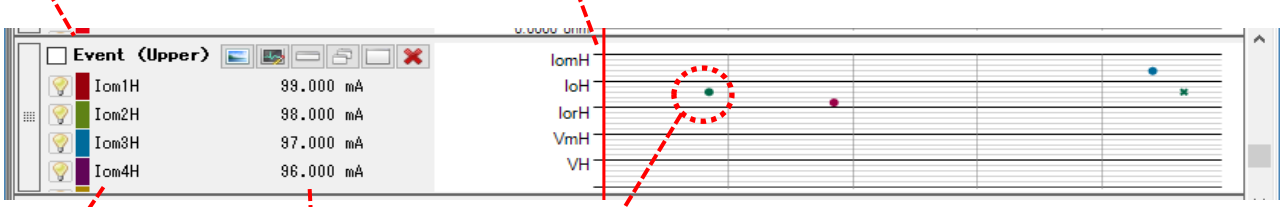
Values where cursor is located.

Measured value axis

**[Graph of occurred event]**

Graph Name

Cursor




Parameter

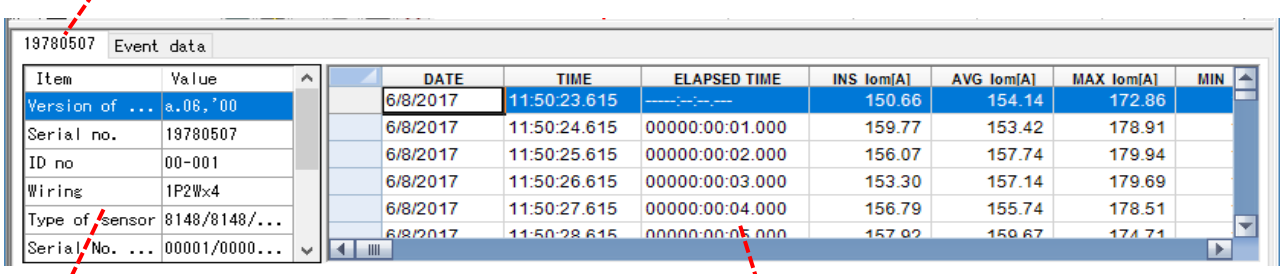
Event threshold

Event occurrence

## 3 List

**[Time Series List]**

Select KEW5050 [Serial No.] tab.

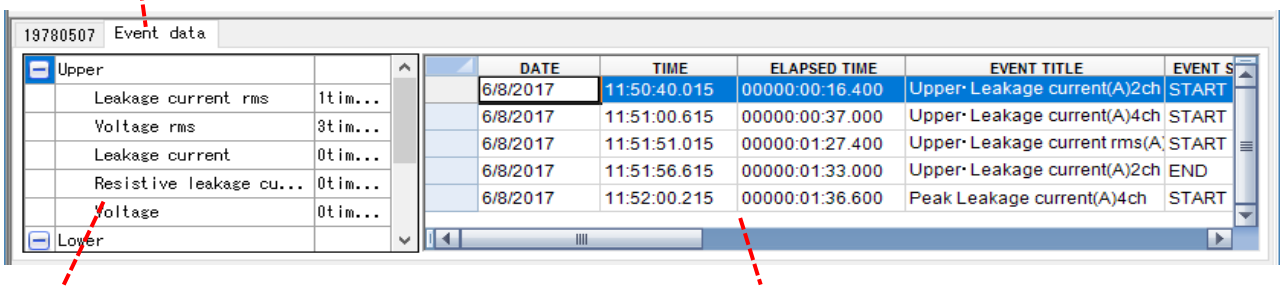



Measurement info

Time Series List

**[Graph of occurred event]**

Select [Event data] tab.



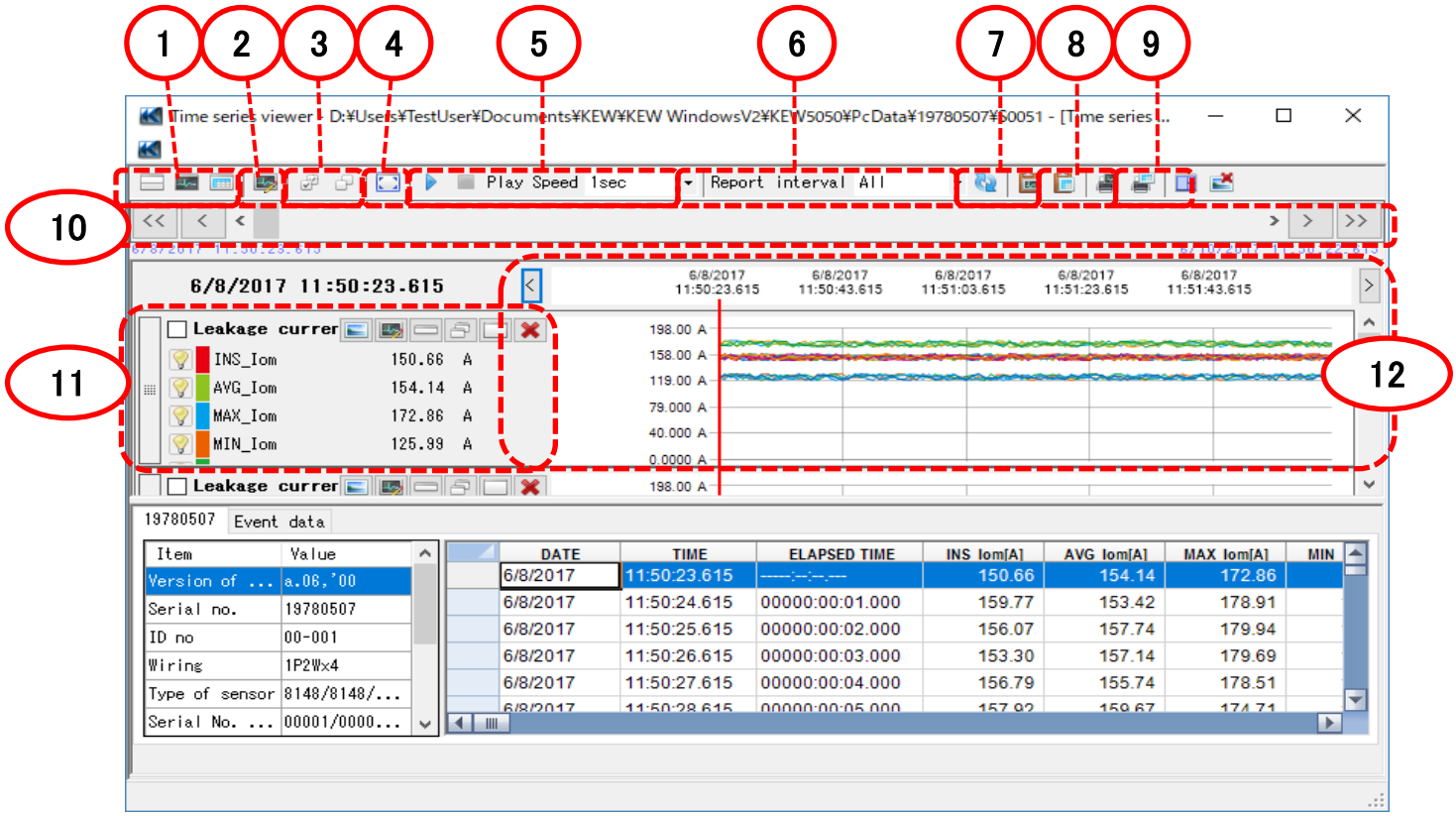

Total number of occurrence of each event

List of occurred events

# Data Analysis

## STEP 2

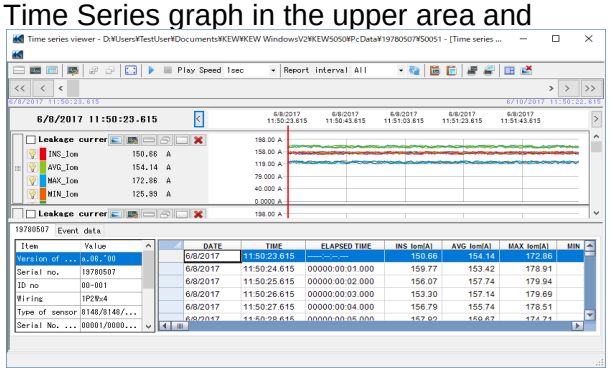
### Functions




## 1 Changing the display layout.

To display graph and list on one screen at the same time:

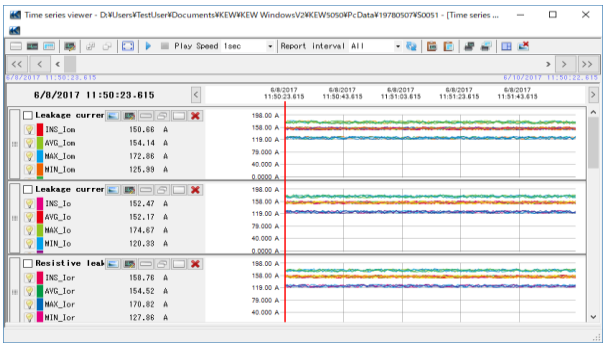
Split the screen in two sections and display Time Series graph in the upper area and list data in the lower area.



# Data Analysis

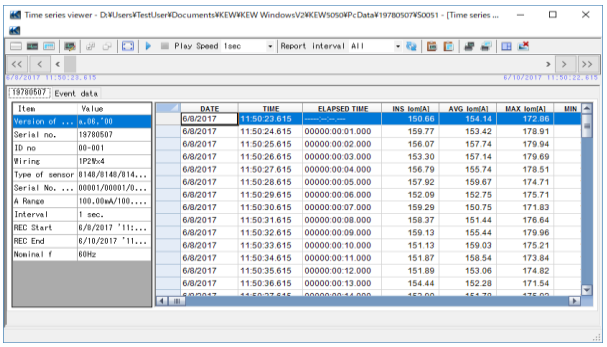
### To display graph only

Time Series graphs are arranged and displayed on one screen.



### To display list only

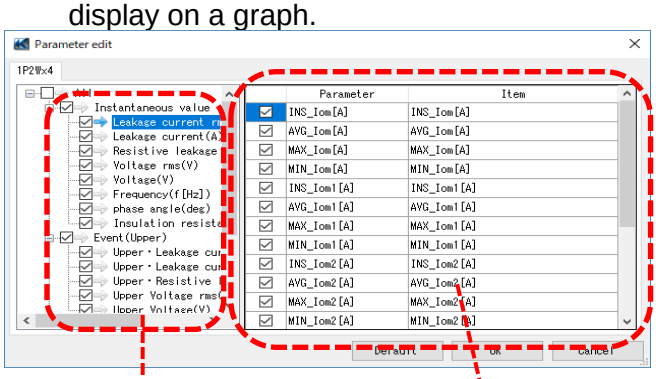
Show the list data on one screen.



## 2 Switching the displayed graphs

### To display the other graphs

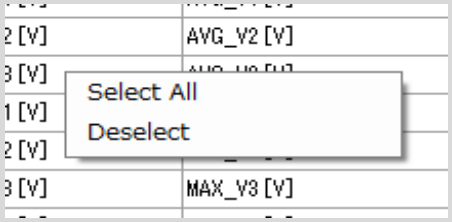
Select the measured data you want to display on a graph.




Check for the graphs to be displayed.

Check for the parameters to be displayed on a graph.

Right-click on the item list to select all items or deselect the selected items.

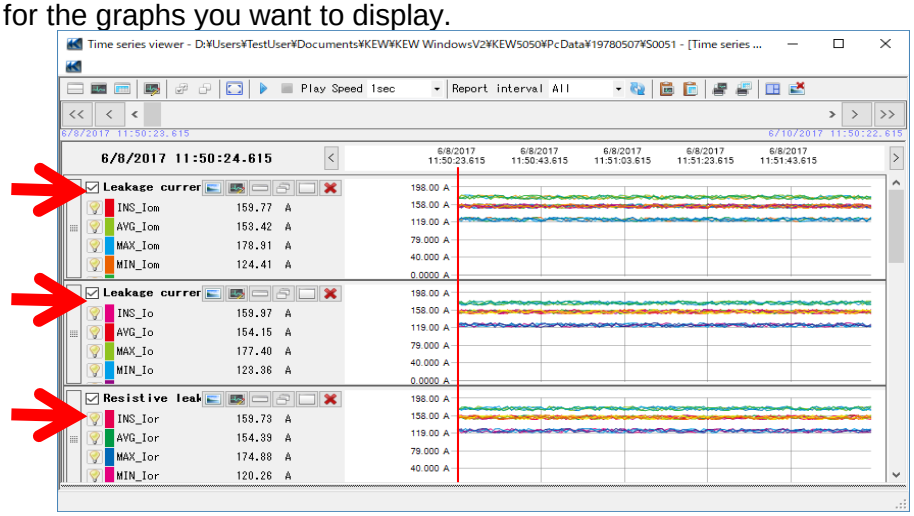


# Data Analysis

## 3 Select/ Un-select the graphs

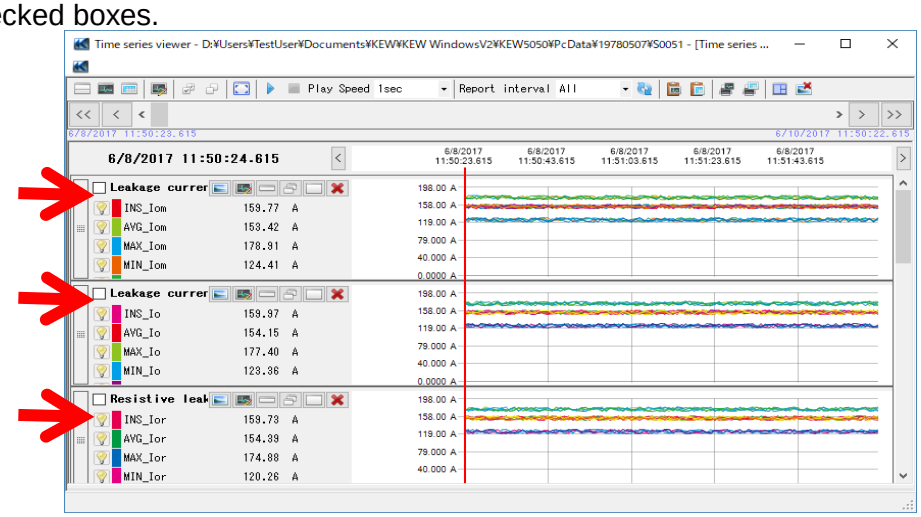
### To select all the graphs

Check all the boxes for the graphs you want to display.




### To unselect all the graphs

Uncheck all the checked boxes.

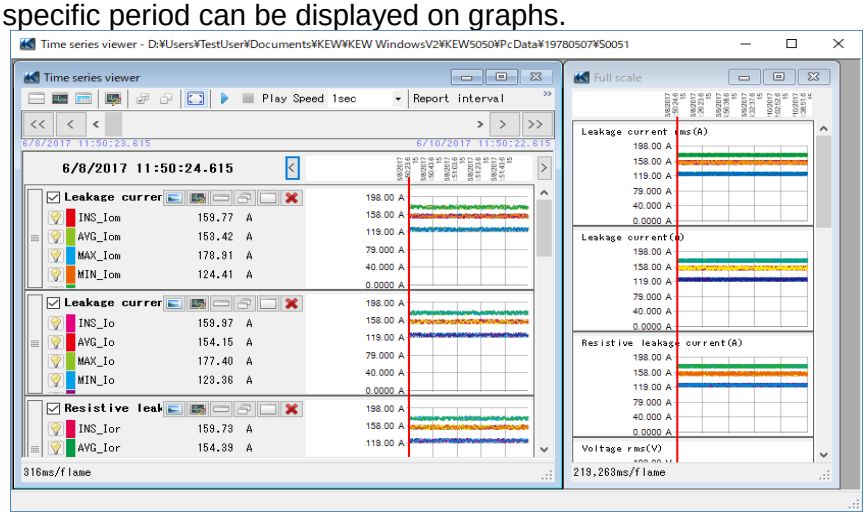


# Data Analysis

## 4 Displaying graph in full-scale

To display the selected graphs in full-scale.

All data recorded in the specific period can be displayed on graphs.

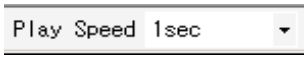



*Depending on the size of the recorded data,
it may take a long time to create full-scale data.

## 5 Enabling auto-scrolling.

Start auto-scrolling.

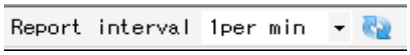
Stop auto-scrolling.




To change the auto-scrolling speed.

Cursor moves in the specified speed automatically.

## 6 Changing the report cycle.




To change the report cycle

Change the data display interval

**Ex.**

There is a data file recorded every second. When changing the report cycle of this file to "1 min", the data can be checked in the following time ticks.

| **Actual data** | **After changing the display interval** |
|---|---|
| Elapsed time | Elapsed time |
| 0000:00:01 | 0000:01:00 |
| 0000:00:02 | 0000:02:00 |
| 0000:00:03 | 0000:03:00 |
| | |
| 0000:60:00 | 0000:60:00 |
| **Total 3600 data** | **Total 60 data** |

# Data Analysis

## 7 Copying to clipboard

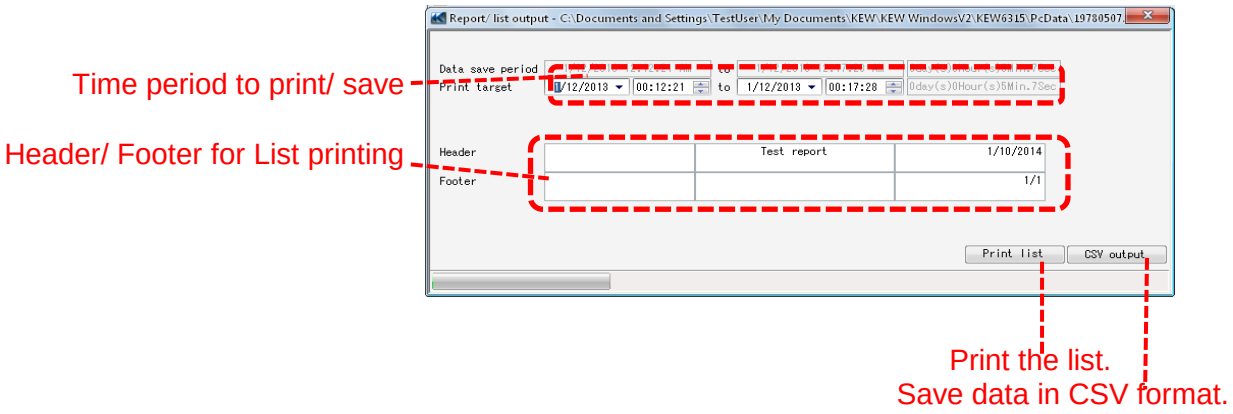
To copy graph:
Copy all the displayed Time Series graphs to the clipboard as an image.

To copy list:
Copy the selected list data to the clipboard with headers for each item as tab-delimitated text data.

## 8 Printing

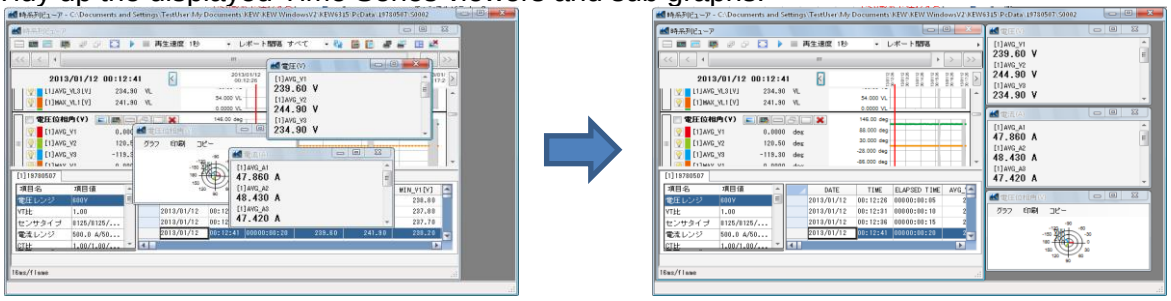
To print graph:
Print all the displayed Time Series graphs.

To print list:
Print reports and lists, or save CSV data of the specified time period.




## 9 Arranging sub-graphs

To arrange the displayed sub-graphs:
Tidy up the displayed Time Series viewers and sub graphs.



To close all the open sub graphs:
Close all the displayed sub graphs.

# Data Analysis

## 10 Scrolling the graph

Slide the cursor to the right and left.

Scroll half of the screen.

Scroll a quarter of the screen.

## 11 Changing the graph display

Display sub graph.

Select the items to be displayed on a graph.

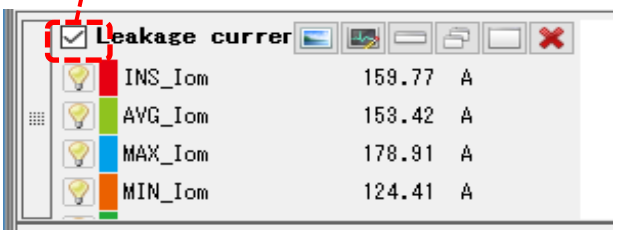
Minimize the graph.

Restore the changed graph size.

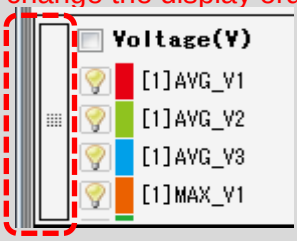
Maximize the graph.

Close graph.

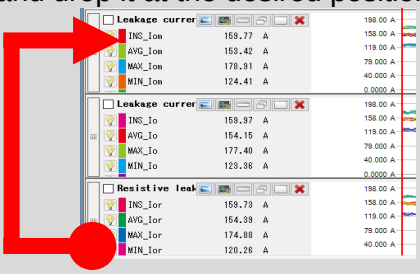
Applied to the selected graph.



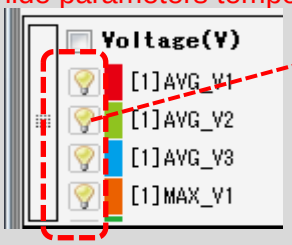

### To change the display order:




Drag the left side of the graph and drop it at the desired position to change the order.

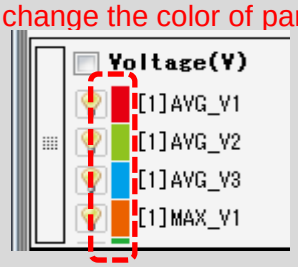


### To hide parameters temporary.

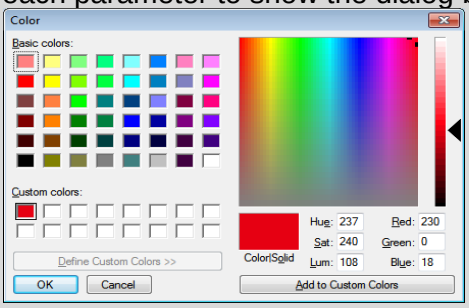



Show
Hide

### To change the color of parameter temporally:

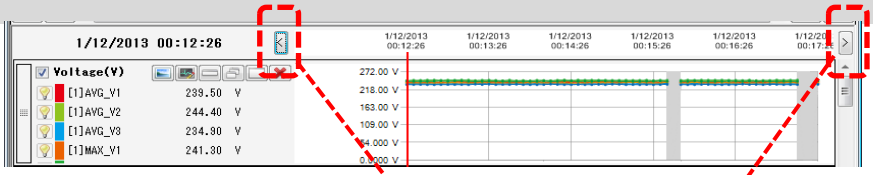



Click the colored boxes for each parameter to show the dialog box for color setting.



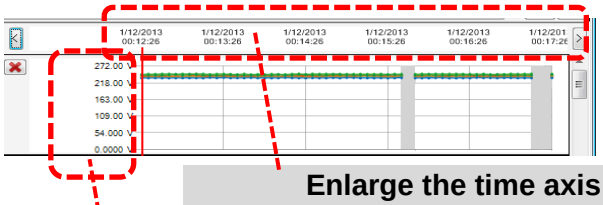
# Data Analysis

## 12 Moving the cursor

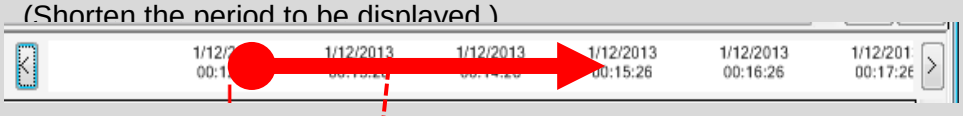



Move the cursor by one interval back and forth.

## 13 Changing the graph display area

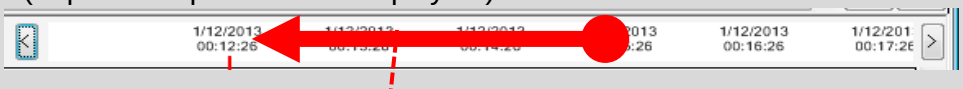


**Enlarge the time axis**
(Shorten the period to be displayed.)



Click and drag the tick to right.

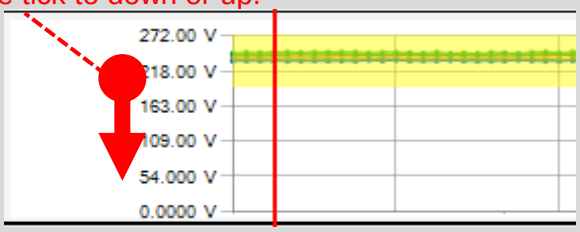
**Shorten the time axis**
(Expand the period to be displayed.)



Click and drag the tick to left.

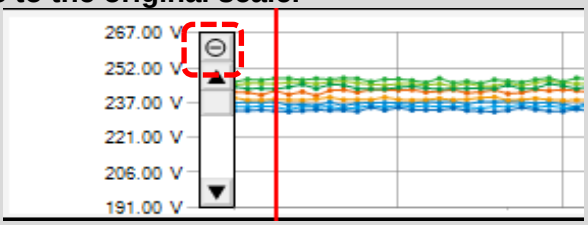
**Enlarge the measured value axis**

Click and drag the tick to down or up.




* The yellow area will be enlarged.

**Restore the enlarged axis to the original scale.**



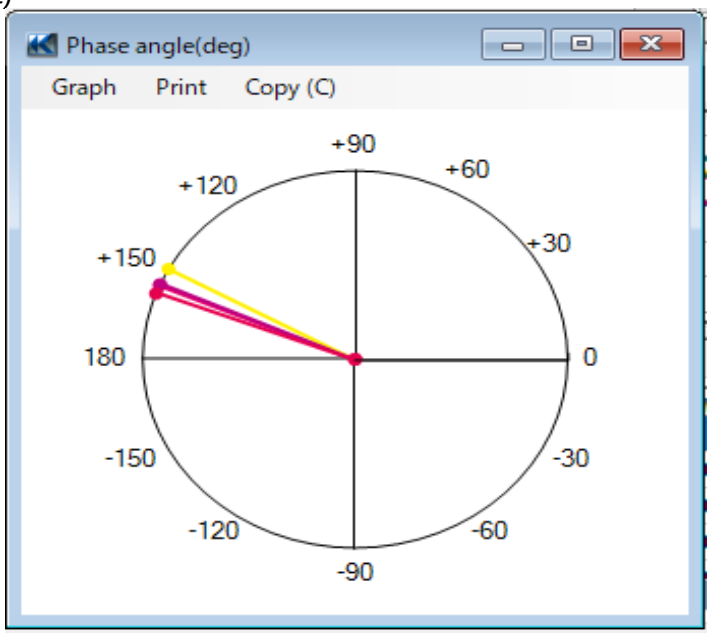
# Data Analysis

STEP 3

## Sub graph display

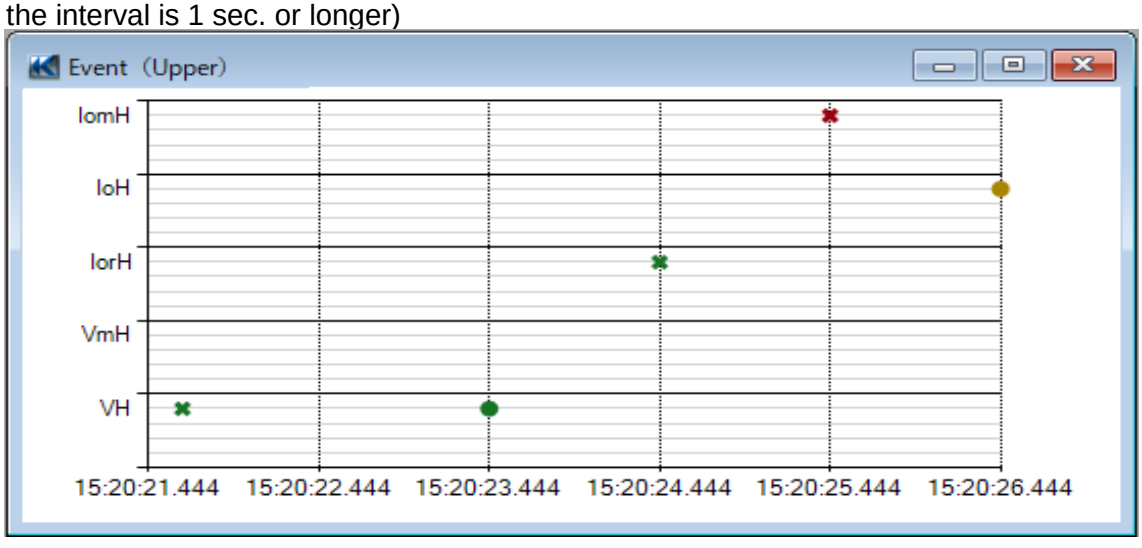
### 1 Vector Display

Vector diagram represents the phase angle where the cursor is located.
(only the phase angle of leakage current)




### 2 Detail of event

Detail of the event occurred in the interval where the cursor is located is displayed.
(where the interval is 1 sec. or longer)

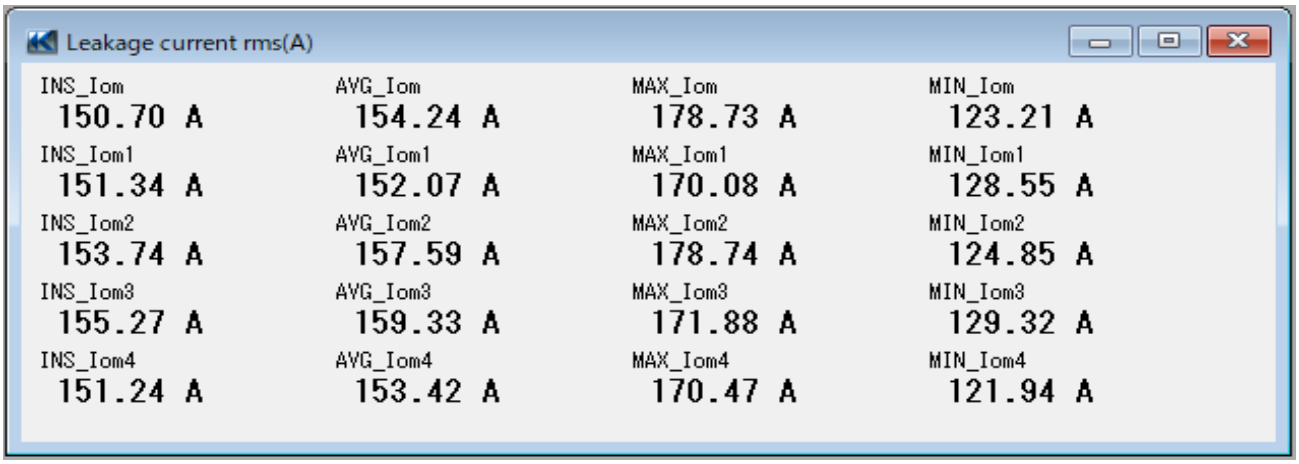



…Start of event
…End of event

# Data Analysis

## 3 Cursor value

Display the measured values for the cursor location in the large window.
(except for phase angle and event)



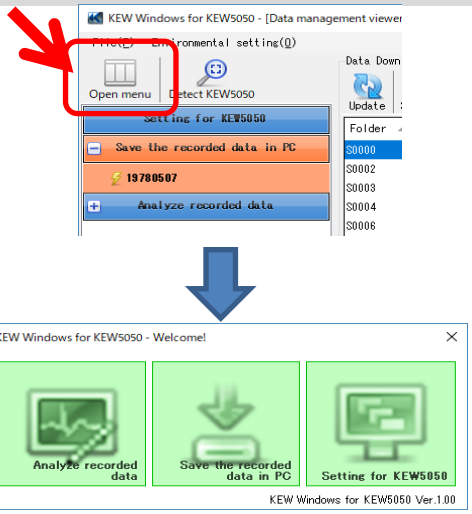
# Data save to PC

## Data import from SD card to PC

### STEP 1

### Open the Menu

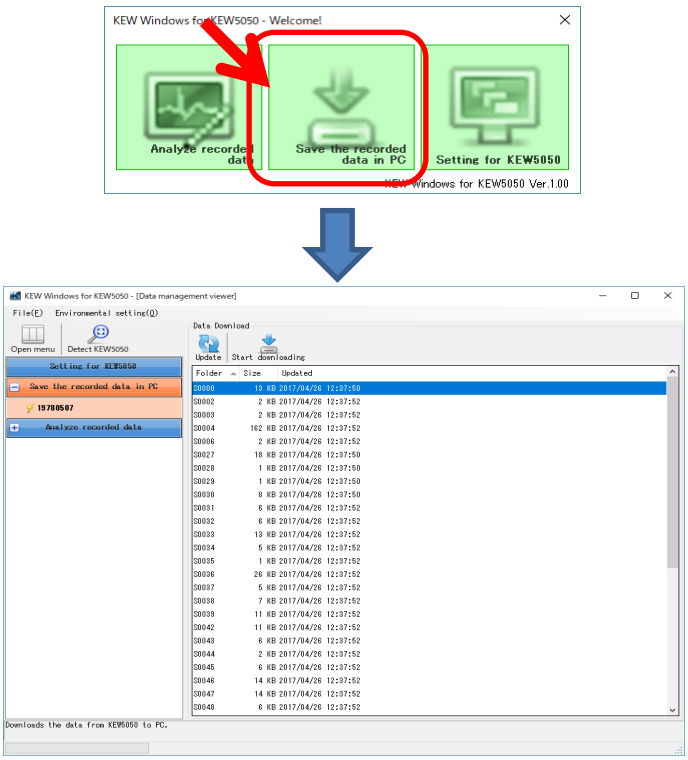
**1** Click the *[Open menu]* icon on the *"Data management viewer"*.




### STEP 2

### Show the list of data stored in SD card.

**1** Click the *[Save the recorded data in PC]* icon.

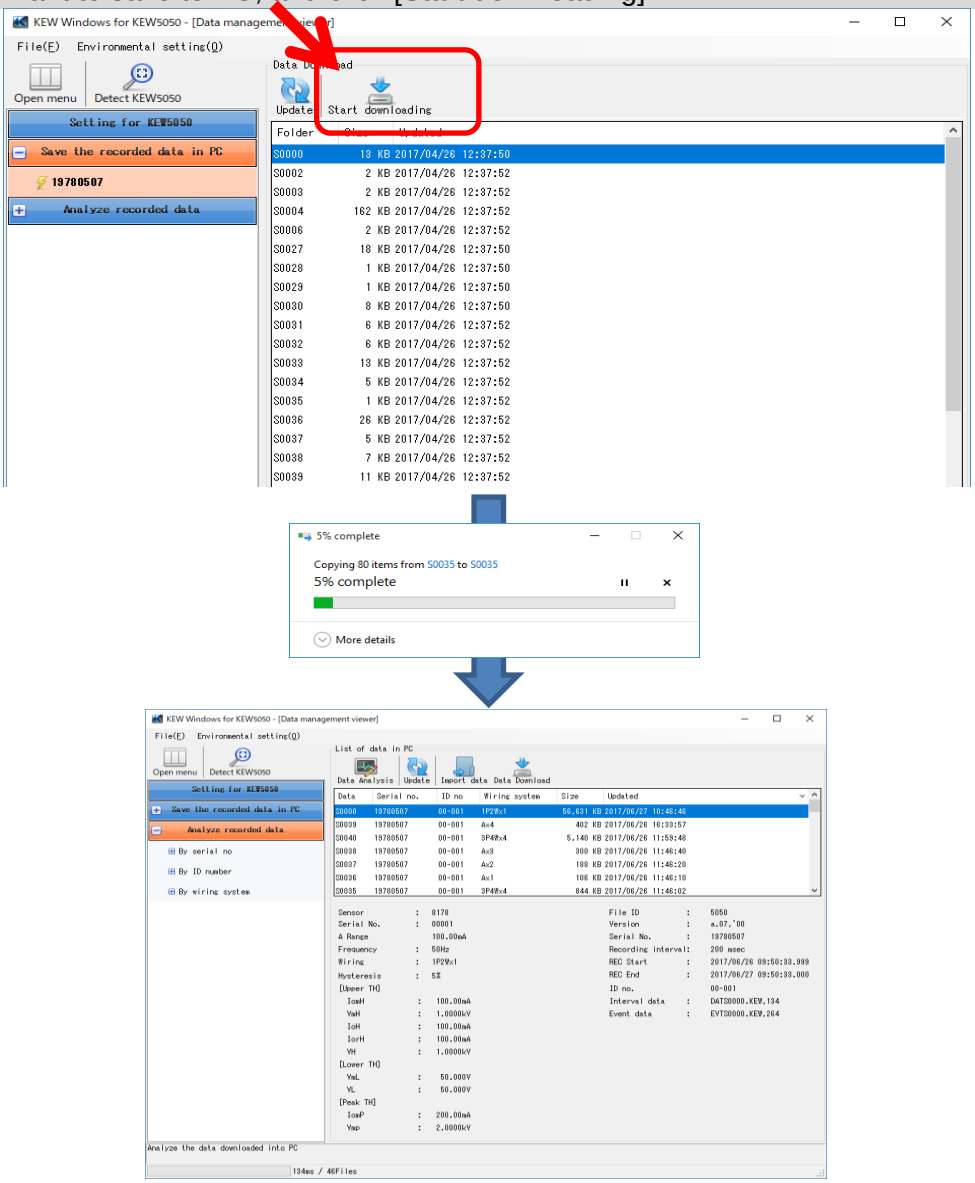


# Data save to PC

## STEP 3

## Save the recorded data to PC.

**1** Select the data you want to save to PC, and click [Start downloading].



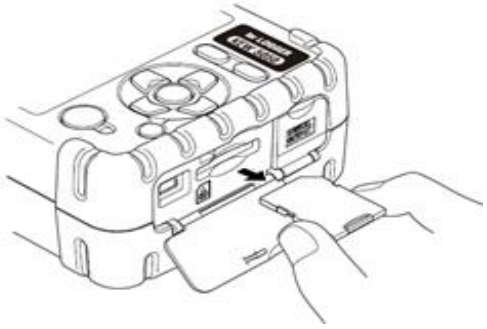
# Data save to PC

## Data import by using Card reader

### STEP 1

### Extract the SD card from KEW5050.

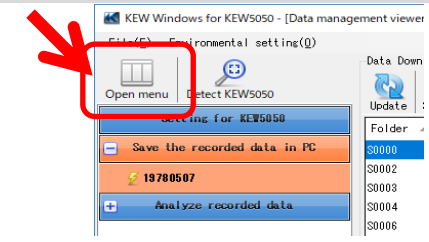
**1** Extract the SD card from KEW5050.



### STEP 2

### Open the Menu

**1** Click the *[Open menu]* icon on the *"Data management viewer"* .

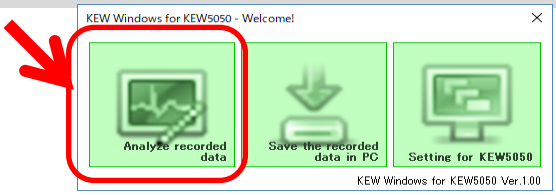


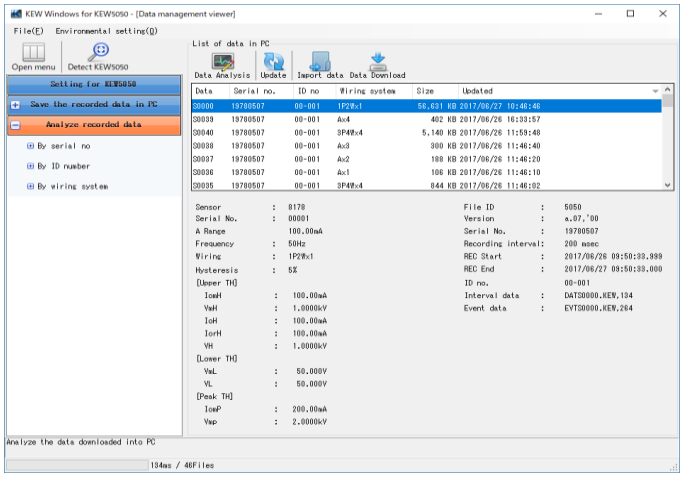

# Data save to PC

## STEP 3

## Show the list of data stored in PC.

**1** Click the *[Analyze recorded data]* icon.

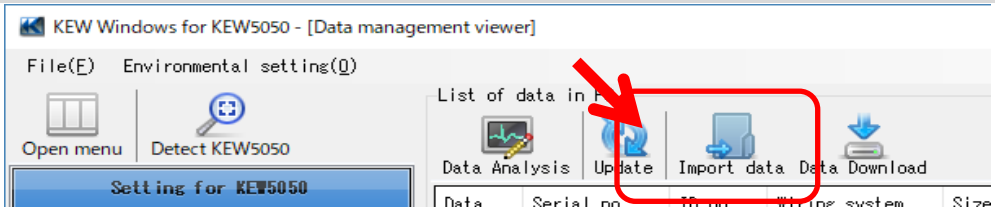



## STEP 4

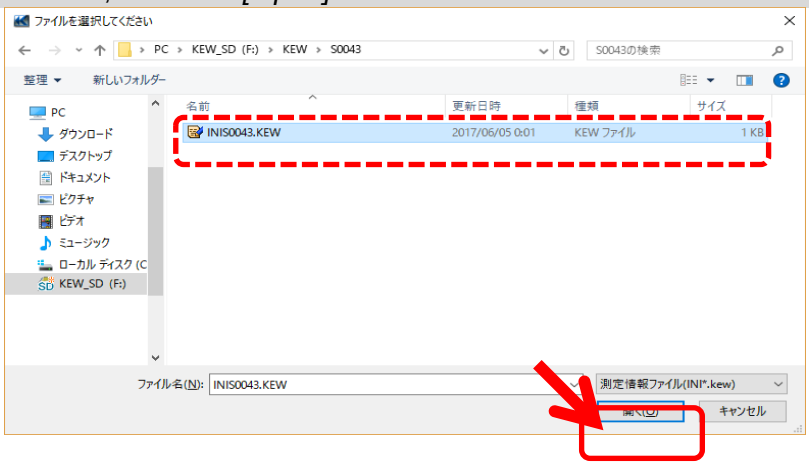
## Import the recorded data from the SD card into PC.

**1** Click the *[Import data]* icon.

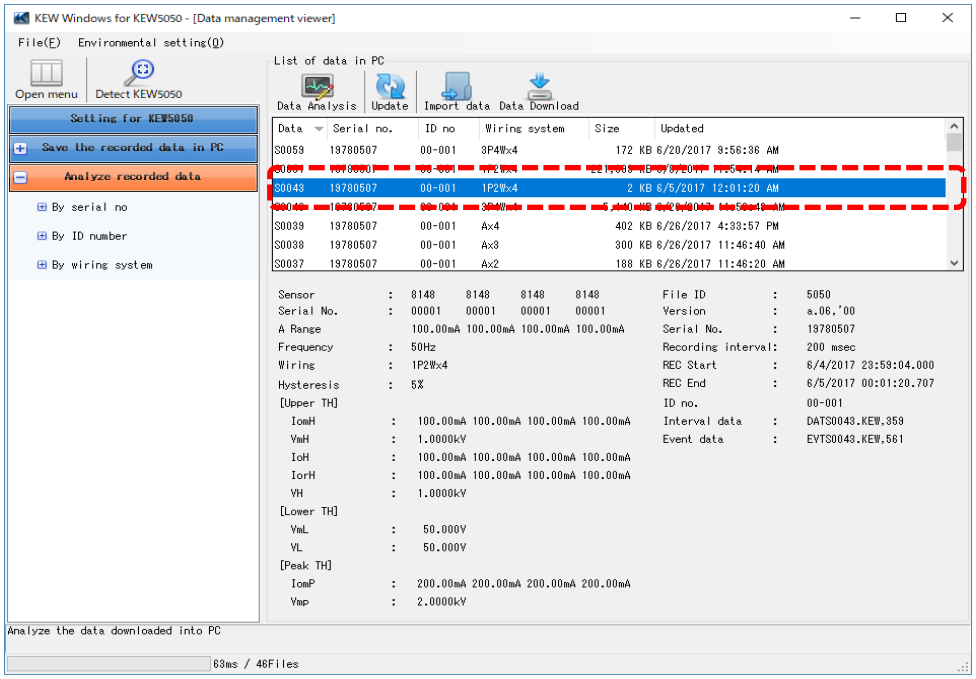


# Data save to PC

## 2 Select any Measurement info file, and click *[Open]* .




(例)KEW_SD(F:)\KEW\S0043\INIS0043.KEW

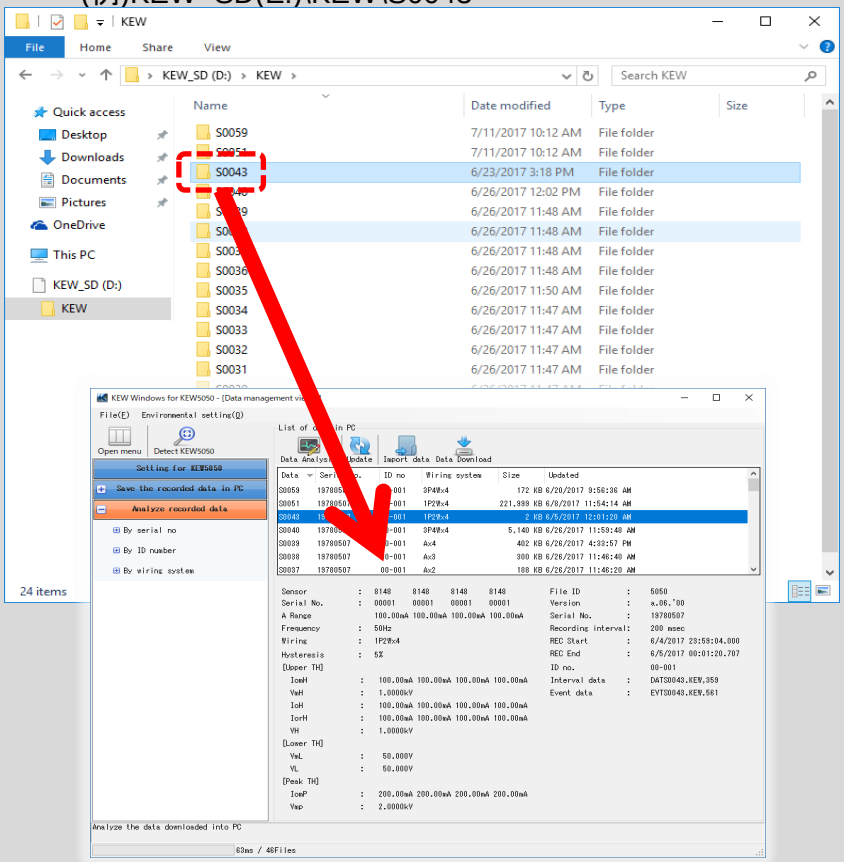


# Data save to PC

***Drag & Drop Import**

You can use Drag and Drop to easily import the data folders onto PC. To import the folders onto PC, drag a folder and drop it into the *"Data management viewer"*.

(例)KEW_SD(E:)\KEW\S0043



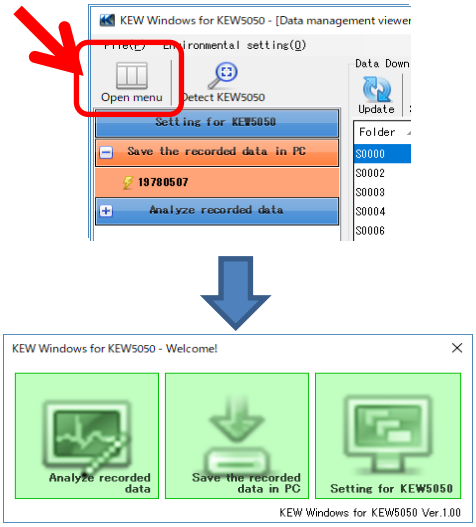
# KEW5050 Setting

## Making of KEW5050 Setting data

### STEP 1

### Open the Menu

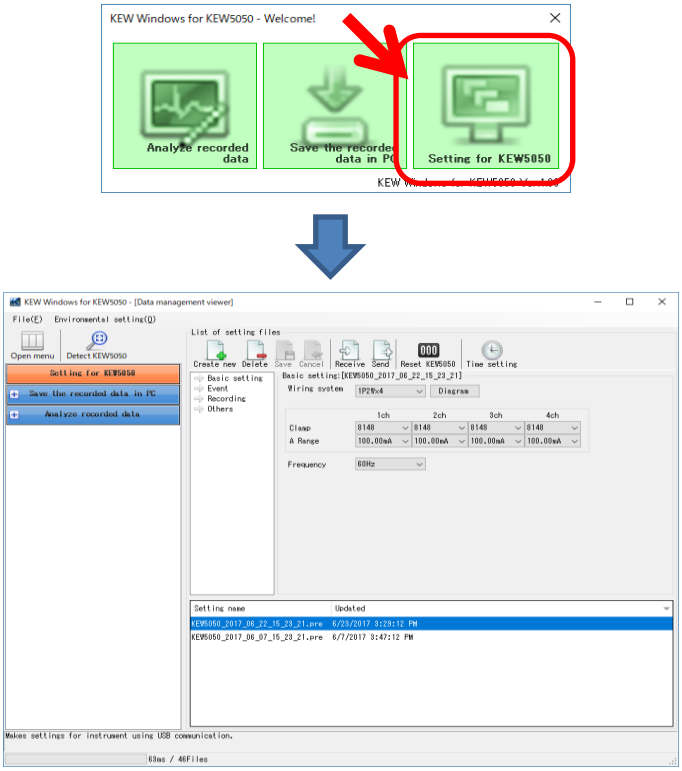
**1** Click the *[Open menu]* icon on the *"Data management viewer"*.




### STEP 2

### Show the KEW5050 settings.

**1** Click the *[Setting for KEW5050]* icon.

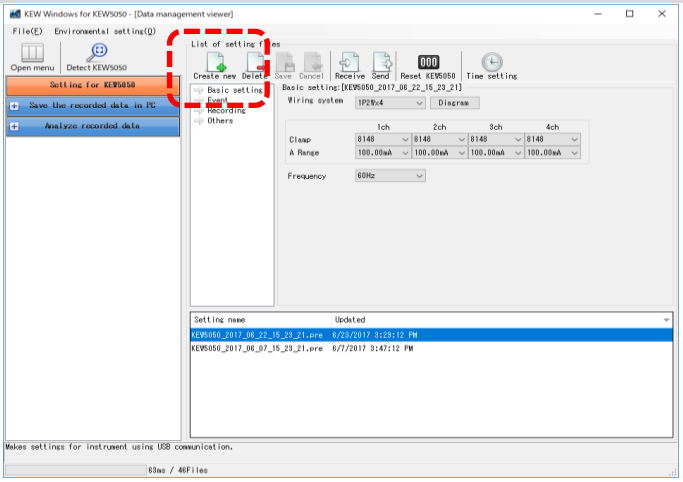


# KEW5050 Setting

## STEP 2

## Create a new setting for KEW5050

**1** Click the *[Create new]* icon.

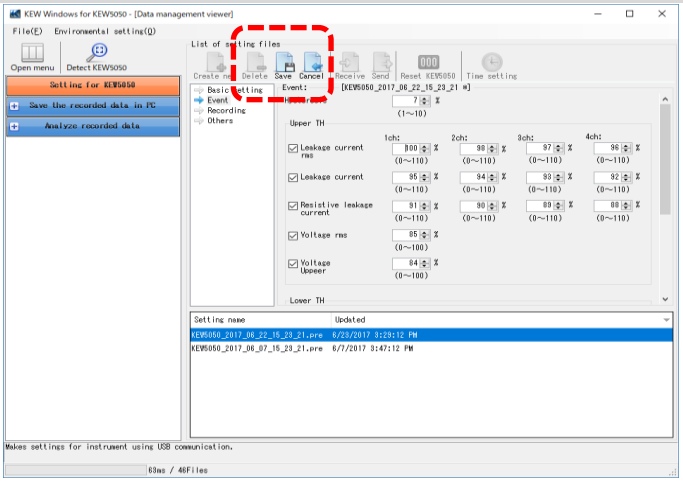



**2** Customize the settings.
* As for the details of setting values, refer to the full version of the instruction manual for KEW5050.

## STEP 3

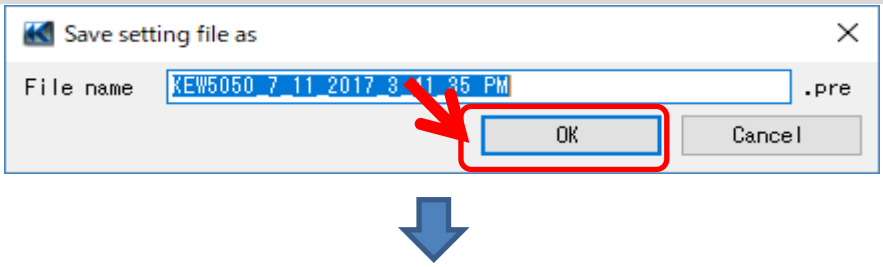
## Save the edited setting.

**1** Click the *[Save]* icon.

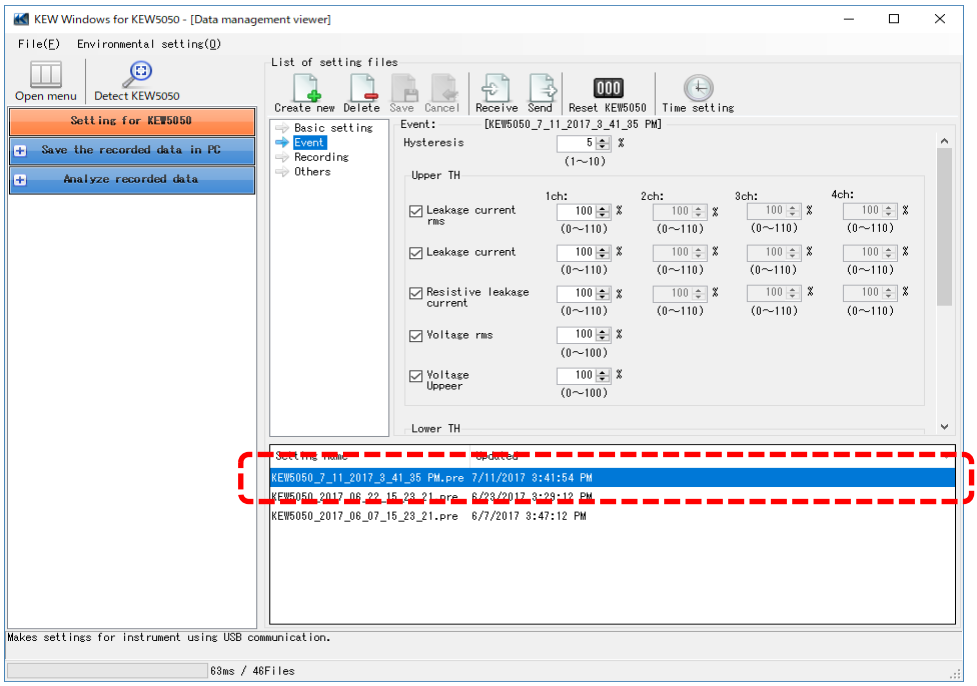


# KEW5050 Setting

## 2 Save the file under a new name.





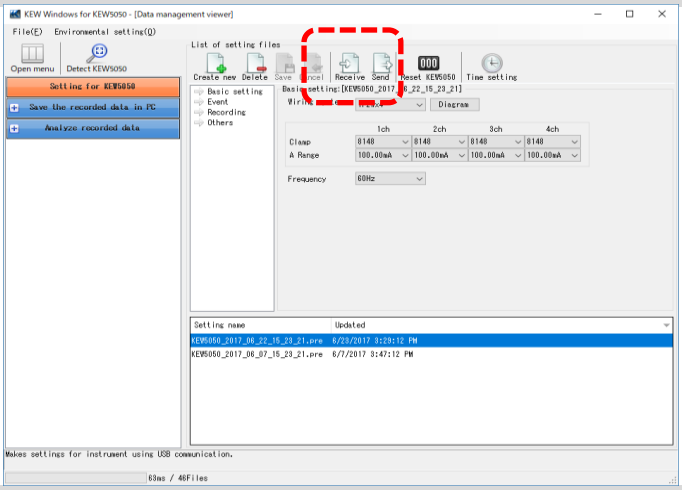
# KEW5050 Setting

## Setting data readout from KEW5050

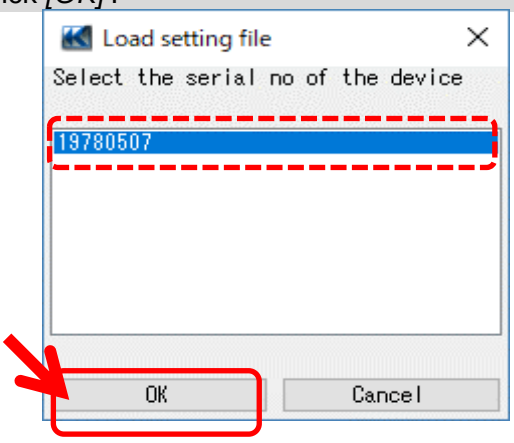
### STEP 1

### Readout the Setting data from KEW5050.

**1** Click the *[Receive]* icon.



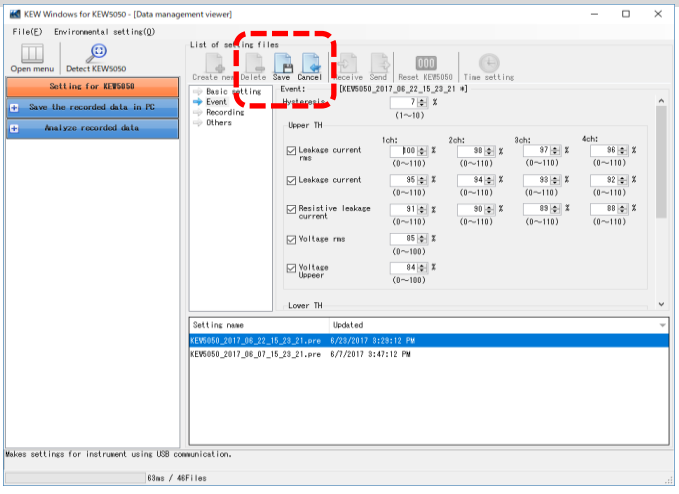

**2** Select the serial no. of the connected KEW5050, and click *[OK]*.




### STEP 3

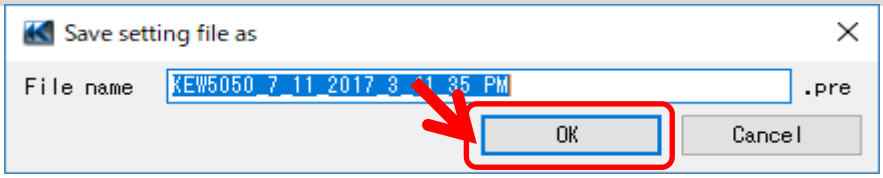
### Save the received setting to PC.

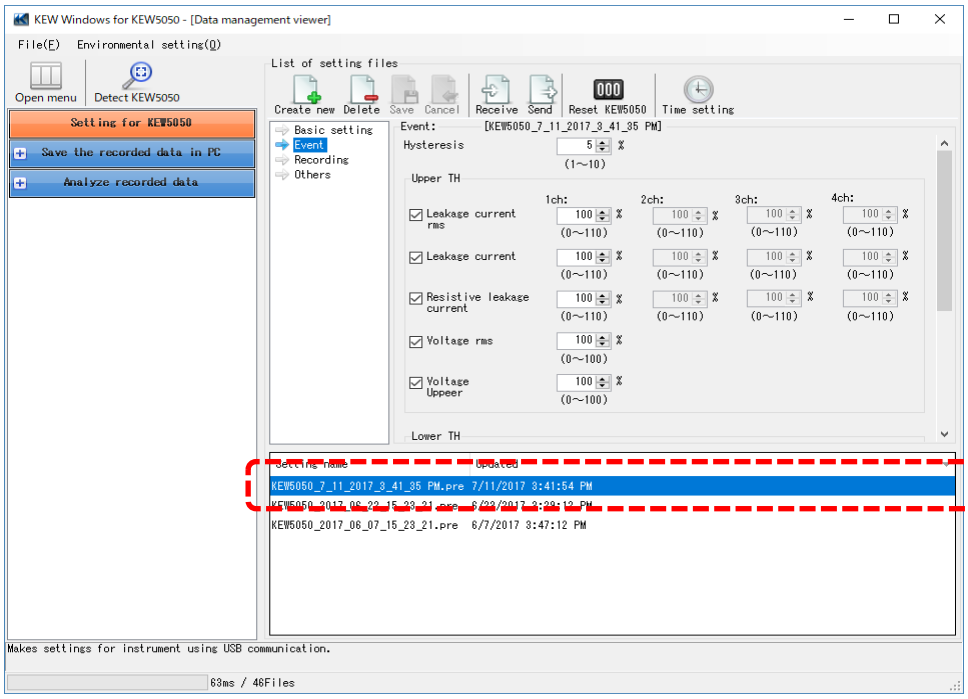
**1** Click the *[Save]* icon.



# KEW5050 Setting

## 2 Save the file under a new name.



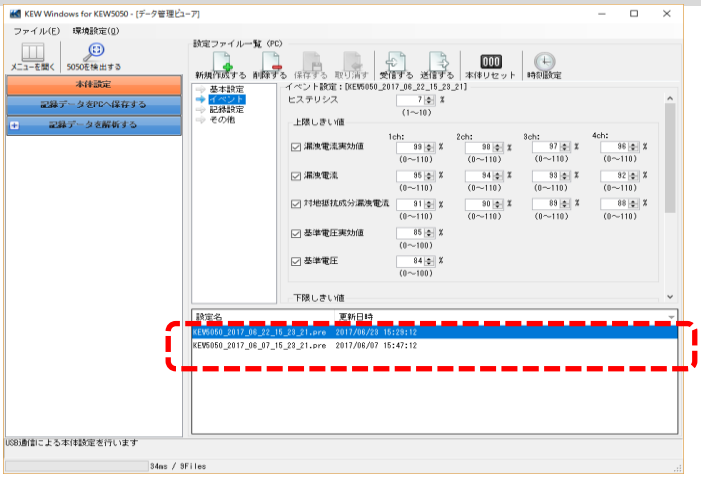
# KEW5050 Setting

## Reflecting edited setting data on KEW5050

### STEP 1

### Select a desirable setting data.

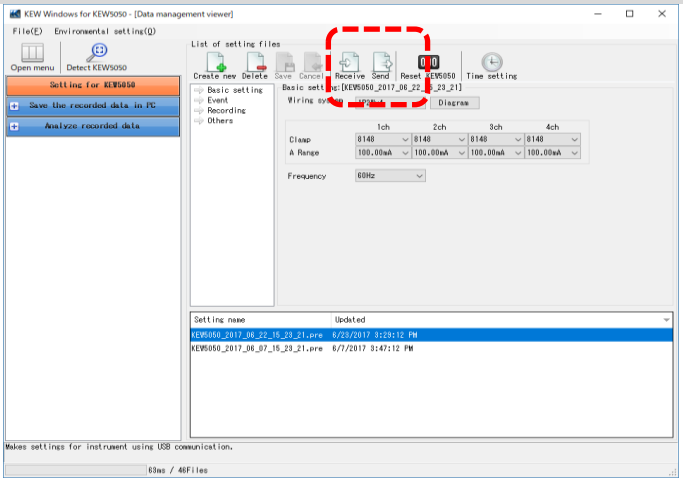
**1** Select the setting data you want to reflect it on KEW5050.



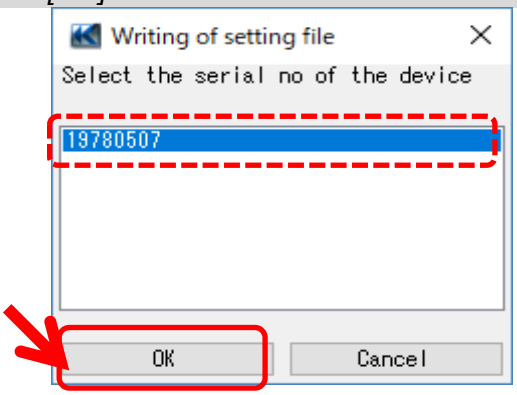
### STEP 2

### Reflect the selected setting data to KEW5050.

**1** Click the *[Send]* icon.



**2** Select the serial no. of the connected KEW5050, and click *[OK]*.



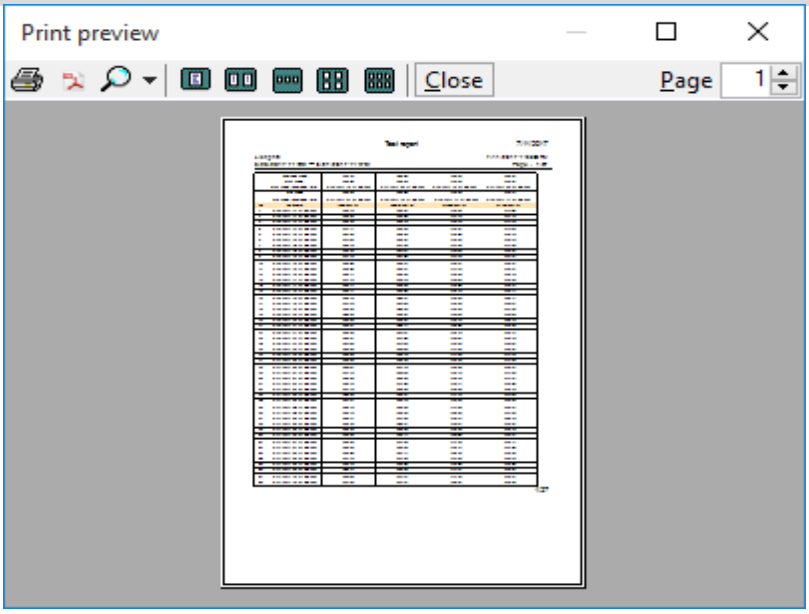
# Other Functions

## Exporting data in PDF format

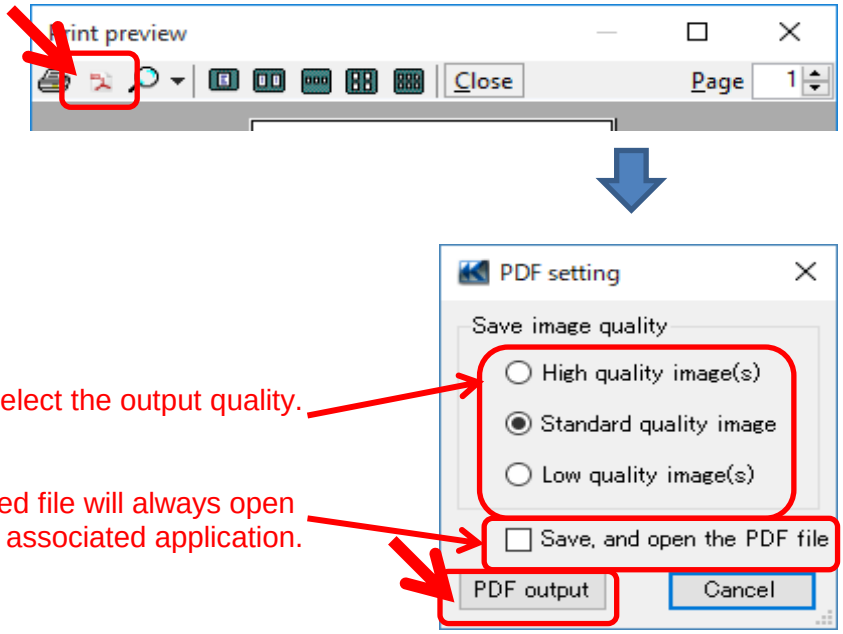
STEP 1

### Opening PDF Output Window

**1** Open the PrintPreview window.




**2** Click the PDF Output Button.




Select the output quality.

Check the box; the saved file will always open in the associated application.

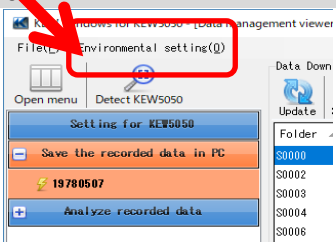
# Environmental Setting

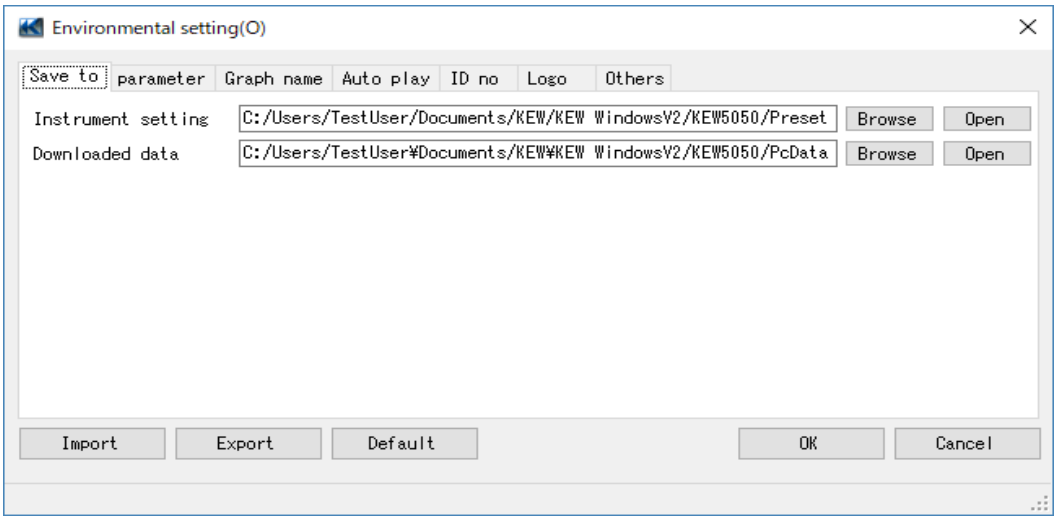
## Changing the Operation setting for KEW Windows for KEW5050

### STEP 1

### Show the Environmental setting change screen.

**1** Click *[Environmental Setting]* on the Menu bar.

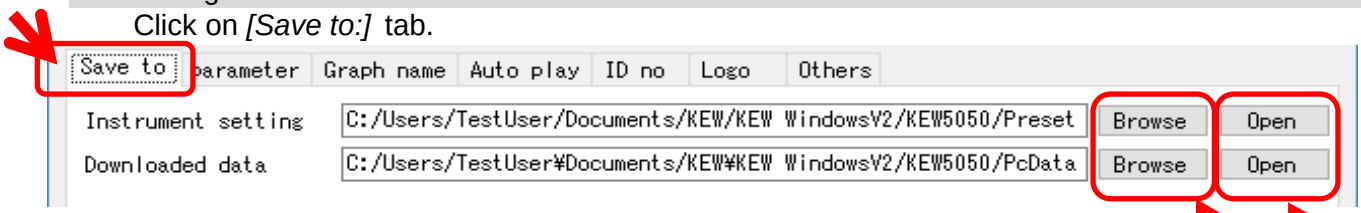



### STEP 2

### Change the Environmental settings.

**1** Change the destination to save each data.
Click on *[Save to:]* tab.



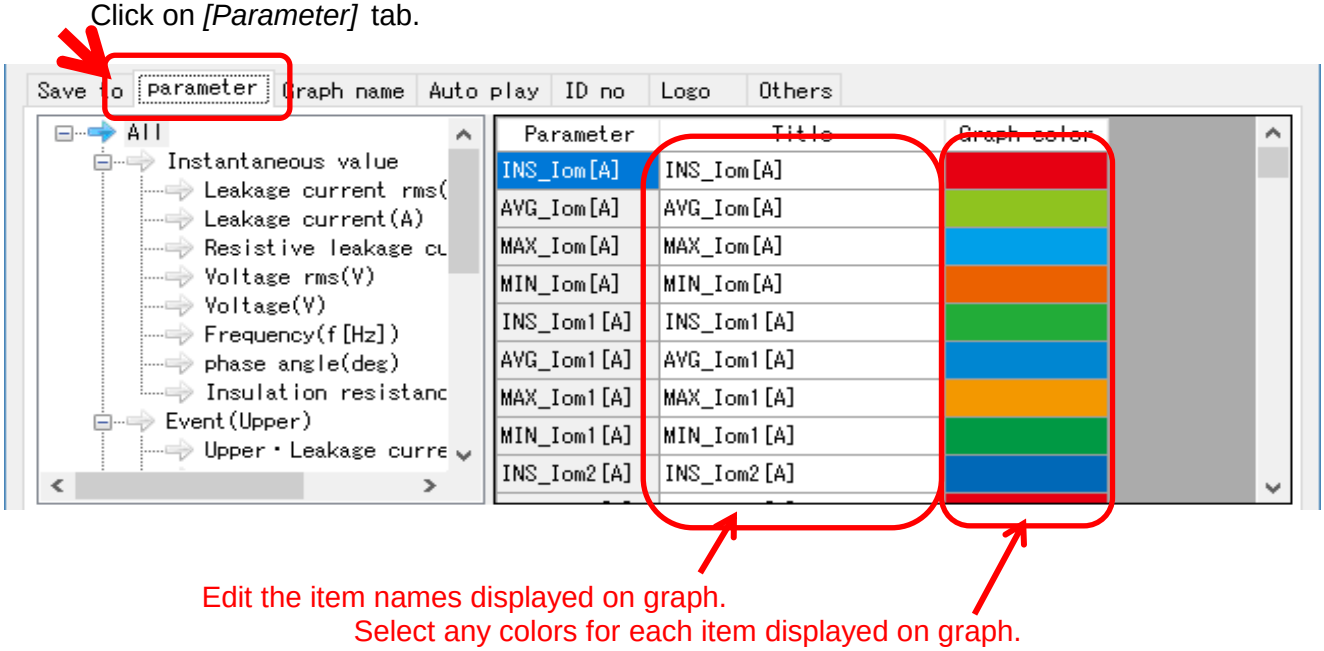

***Instrument setting:*** ...Destination pre-set in KEW5050 settings.
***Downloaded data:*** ...Destination to save the data downloaded from KEW5050 to PC

Specify the folder to save the data.
Open explorer and go to the folder to save the data.

# Environmental Setting

**2** Change the displayed items on graphs shown on Time Series viewer.

Click on *[Parameter]* tab.



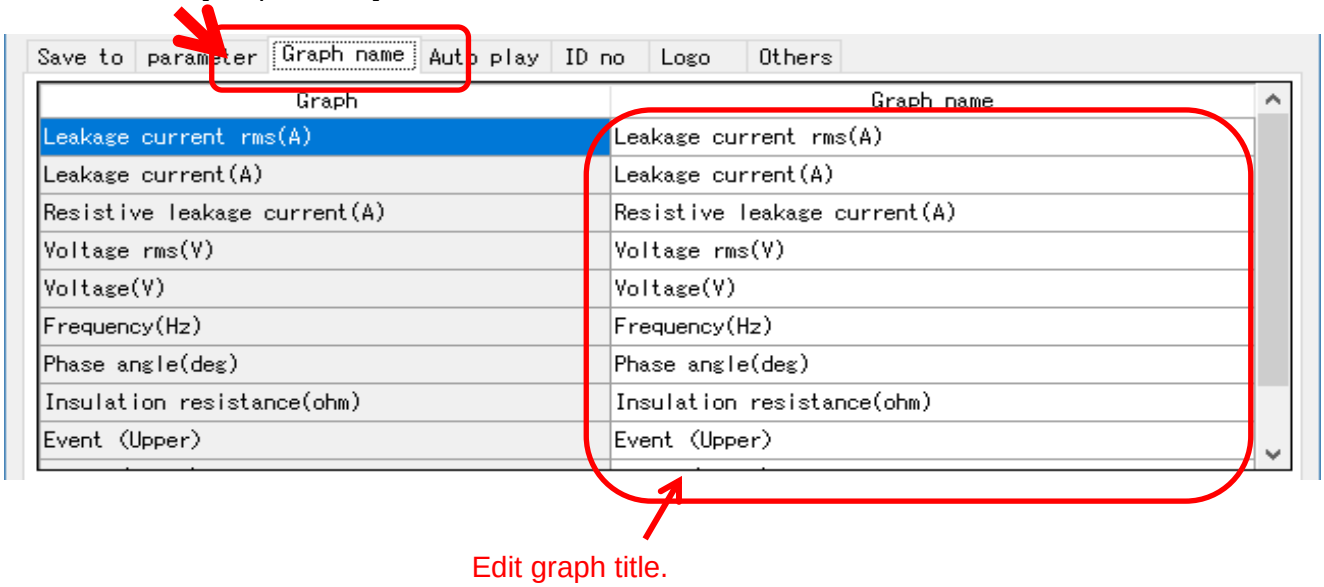

Edit the item names displayed on graph.

Select any colors for each item displayed on graph.

*To reflect these settings on the Time Series viewer under analysis, close the viewer once and then open it again.

**3** Change the graph name displayed on Time Series viewer.

Click on *[Graph name]* tab.




Edit graph title.

*To reflect these settings to the Time Series viewer under analysis, close the viewer once and then open it again.

# Environmental Setting

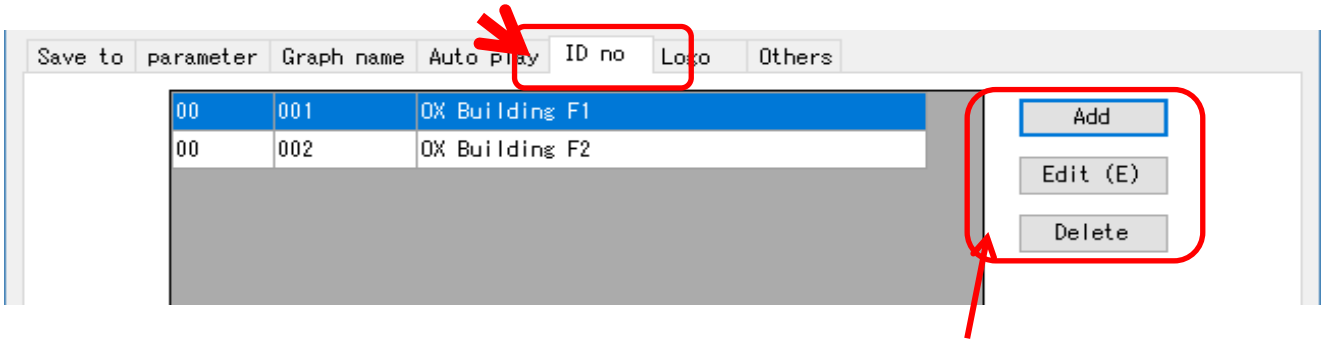
## 4 Change Auto-play settings.

Click on *[Auto play]* tab.

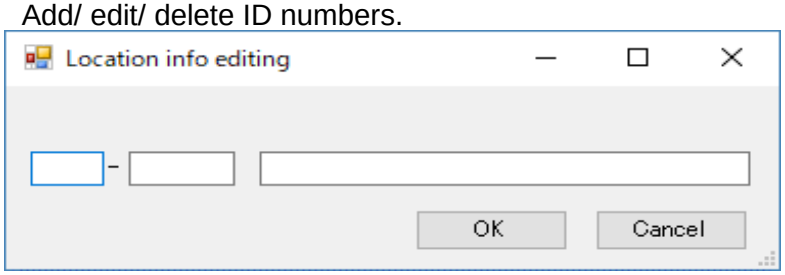

Move the cursor to the desirable start point.

## 5 Register the ID No.

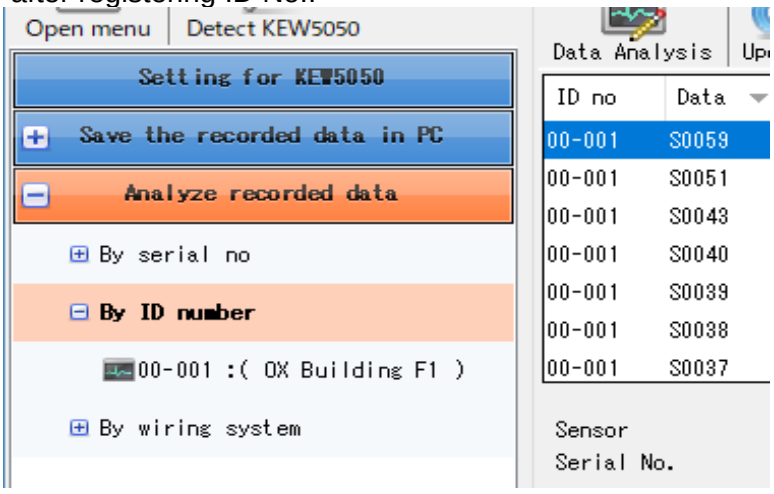
Click on *[ID No]* Tab.




Add/ edit/ delete ID numbers.




Measured data can be organized by test site and environment after registering ID No..



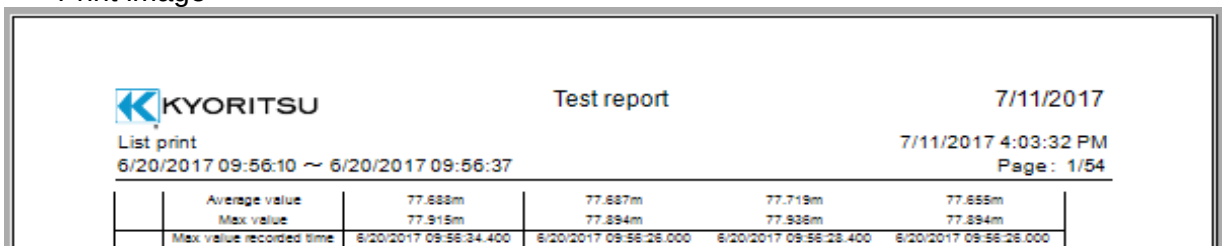
# Environmental Setting

## 6 Add logos to be displayed.

Click on *[Logo]* tab.

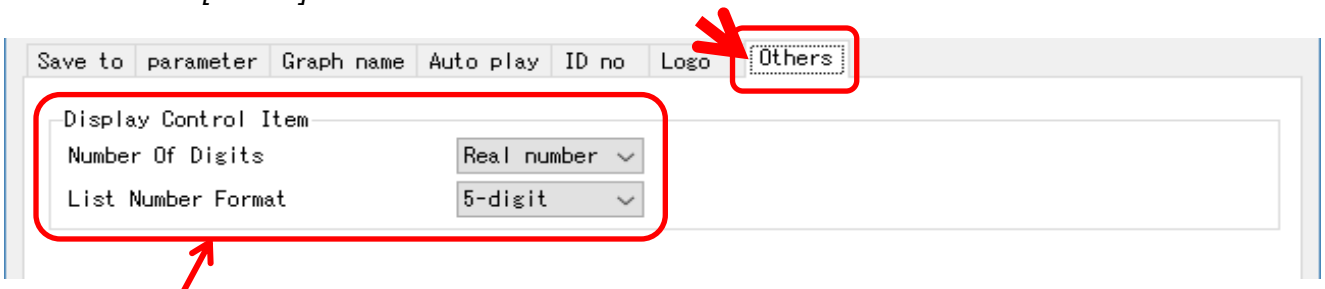

Add logos to be displayed and printed with a list or report.
Select an area (for Header or Footer) and add logo data (image file).
Click the added logo to delete it.

Print image




## 7 Other setting items

Click on *[Others]* tab.




Change the numerical display form.
If you prefer Real number display,
specify the number of digits.

# Trouble-shooting

* **KEW5050 is not displayed on the list although it has been connected with PC by using USB cable.**

Disconnect and reconnect the USB cable. Then click "Redetect".

If KEW5050 is not displayed after trying above procedure, USB driver may not be recognized properly. Follow the procedure below and reinstall the driver.

Insert the supplied CD into PC and right click on the CD drive. Then click "Open" on the displayed list. Then you can see "DRIVER" folder. Start "kewusb***_setup.exe" to start installation.
Please refer to the Installation manual for further details.

* **Communication between KEW Windows for KEW5050 and KEW5050 unit fails while using USB communication.**

If communication processes such as synchronous measurement, data download or instrument setup cannot be done while using USB communication, click "Detect KEW5050". Then disconnect and reconnect the USB, and click "Detect KEW5050".
Check that the serial no. of the connected KEW5050 is displayed under "Data download".

* **Downloading time**

Downloading time will be longer when file size becomes bigger.
It is recommended to use SD card to copy big data to PC.
USB transfer rate : approx. 40min. for transferring data of 1.5GB