

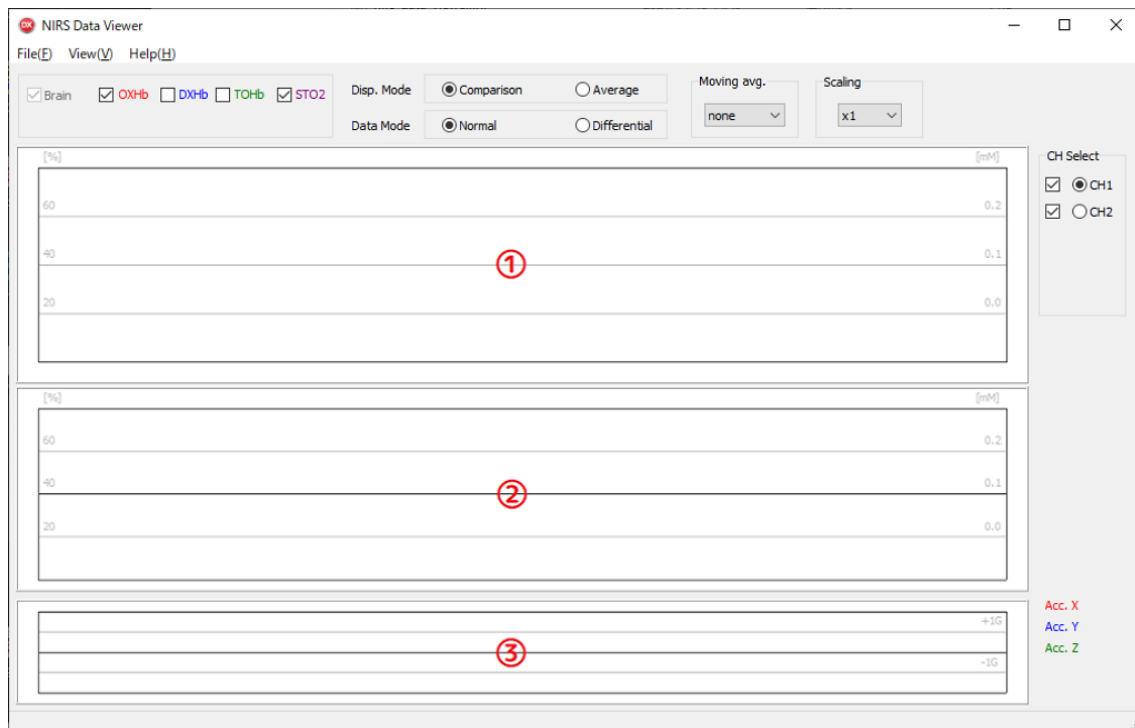
Help for NIRS Data Analysis Program

This program is designed for CVS files of measurement data by Hb131, Hb132, Hb133, Hb134 or data extracted by this program.

Table of contents

1. Screen layout	2
2. Menu	2
2.1 File	2
2.2 View	3
2.3 Help	3
3. Open a file	3
4. Display data	4
5. Display mode	5
6. Data mode	6
7. Moving average	6
8. Scaling	6
9. Channel selection	7
10. Dragging	8
11. Readout	9
12. Event display	10

1. Screen layout



① Display for processed data

A trend graph of processed data according to the setting of display mode, data mode, and moving average will be displayed.

② Display for raw data

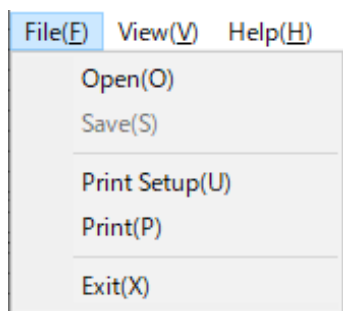
A trend graph of raw data for selected channels will be displayed..

③ Display for acceleration

A trend graph of acceleration data.

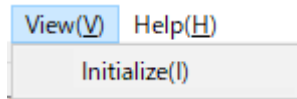
2. Menu

2.1 File



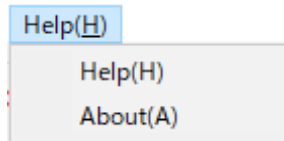
- Open (O) : Open a CVS file
 Save (S) : Save the processed data into a CVS file
 Print Setup (U) : Setup for printing
 Print (P) : Print the display image
 Exit (X) : Close the program

2.2 View



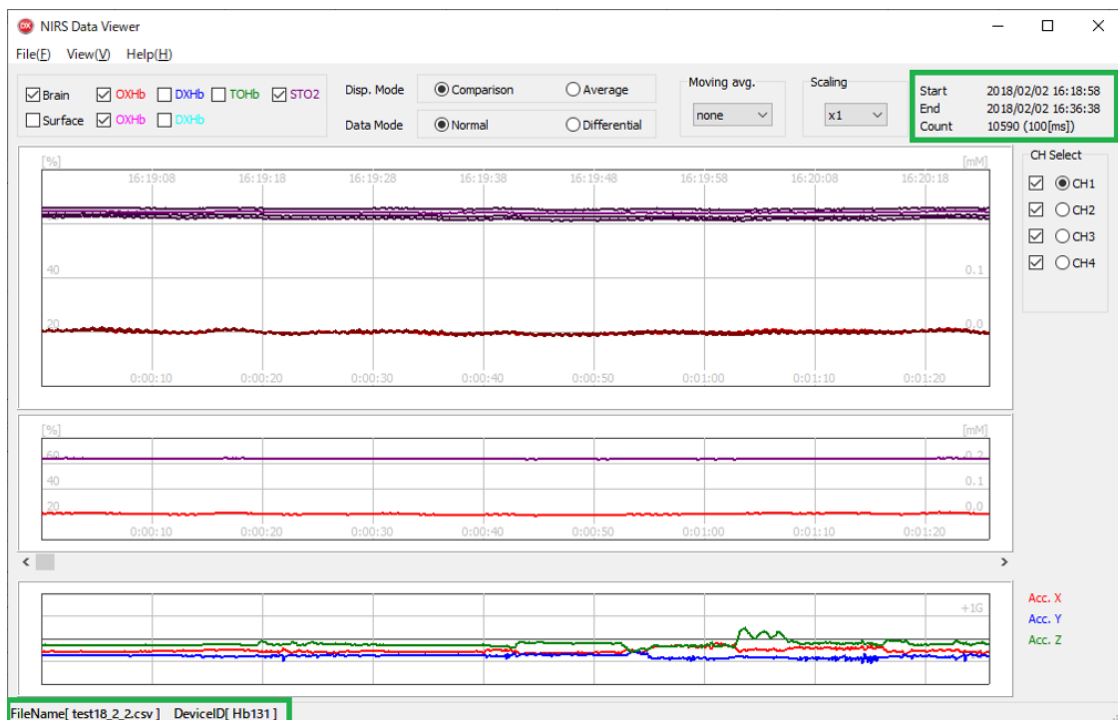
- Initialize (I) : Return to the initial state (compressed time axis will be discarded).

2.3 Help

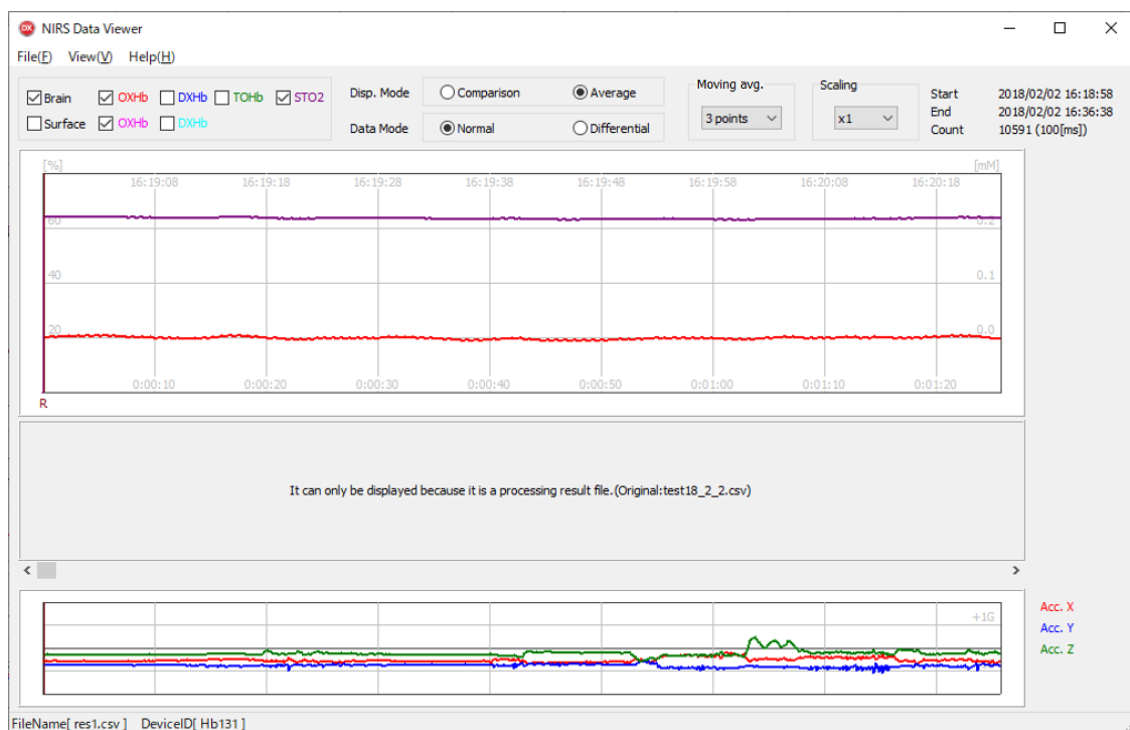


- Help (H) : Open this document.
 About (A) : Version information of the program will be displayed.

3. Open a file



- The opened file will be displayed like the image above.
- Information of the opened file will be displayed in the areas enclosed in a green square.
- The upper horizontal axis of the processed data display stands for time and the lower horizontal axis for elapsed time since the measurement started.



A processed data file may look like the image above.

No raw data will be displayed and selections for display mode, data mode, or moving average will become invalid for processed data file.

4. Display data



- Selected data will be displayed in the trend graph.
- If “Brain” and “Surface layer” are unchecked, all items on the right side will be hidden.
- The text color of the check box corresponds to the waveform color of the data.

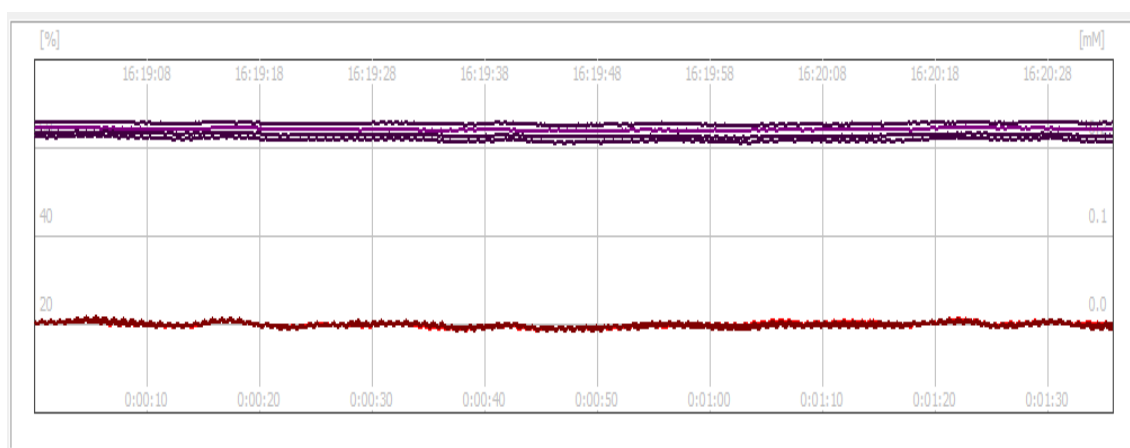
5. Display mode



Display mode for processed data display:

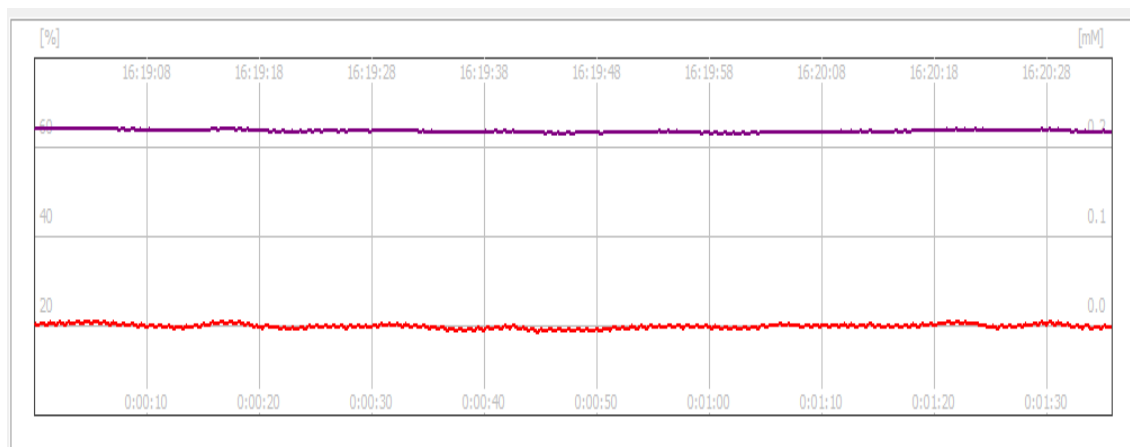
Comparison mode

- The processed data for each channel will be displayed in an overlapping manner.
- The checked channel will be highlighted, and the other channels will be displayed in dark color.
- Channels that are unchecked will be hidden.



Average mode

- The processed data of the average of channels will be displayed.
- Channels unchecked in the channel selection will be excluded from the average.



6. Data mode

Data Mode ☒ Normal ☐ Differential

- Selection for with / without differentiation processing for processed data display.
- “with differentiation processing” will display a trend graph with differentiation processing after taking moving average.



7. Moving average

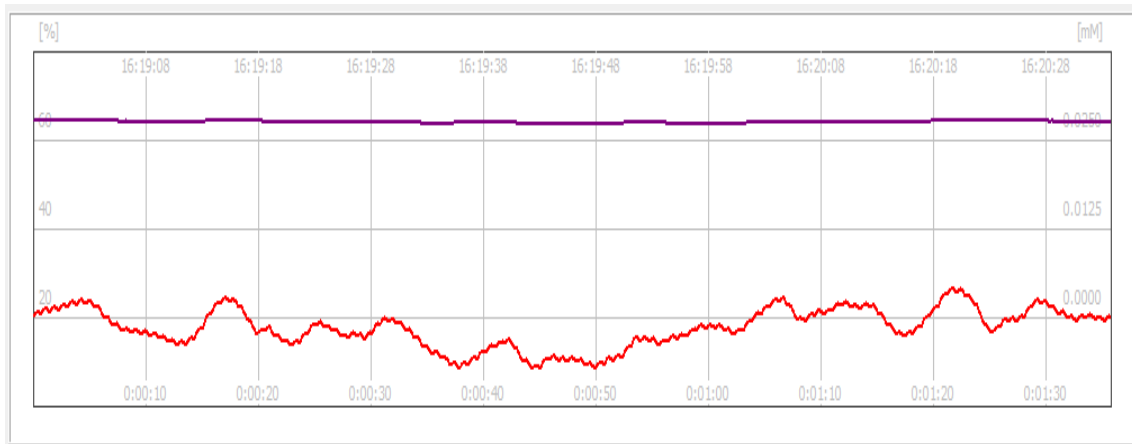
Moving Ave.

Number of points for taking moving average for processed data can be selected from 0 to 11.

8. Scaling

Scaling

Display magnification for OXHB, DXHB, and TOHB can be selected (range from x0.25 – x16).



9. Channel selection

CH Select

☒ ☒ CH1

☒ ☐ CH2

☒ ☐ CH3

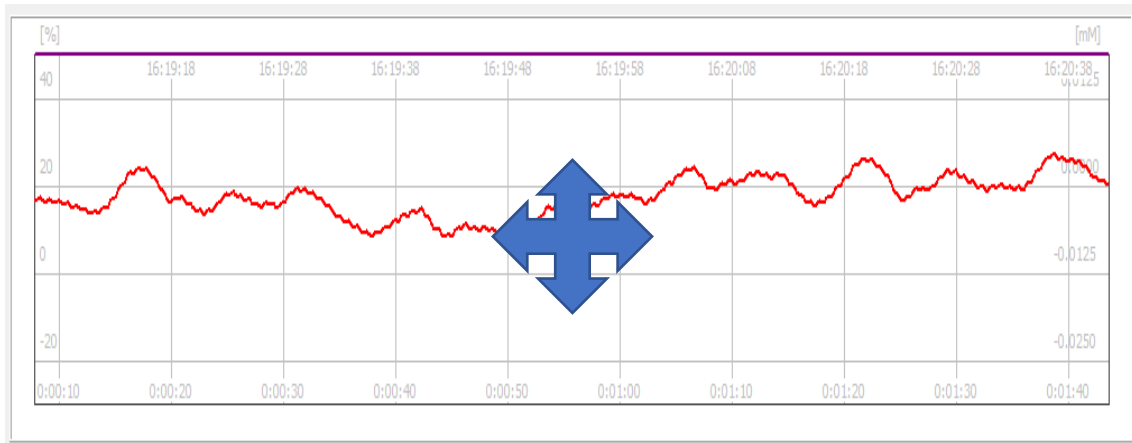
☒ ☐ CH4

Select a channel to display to be processed.

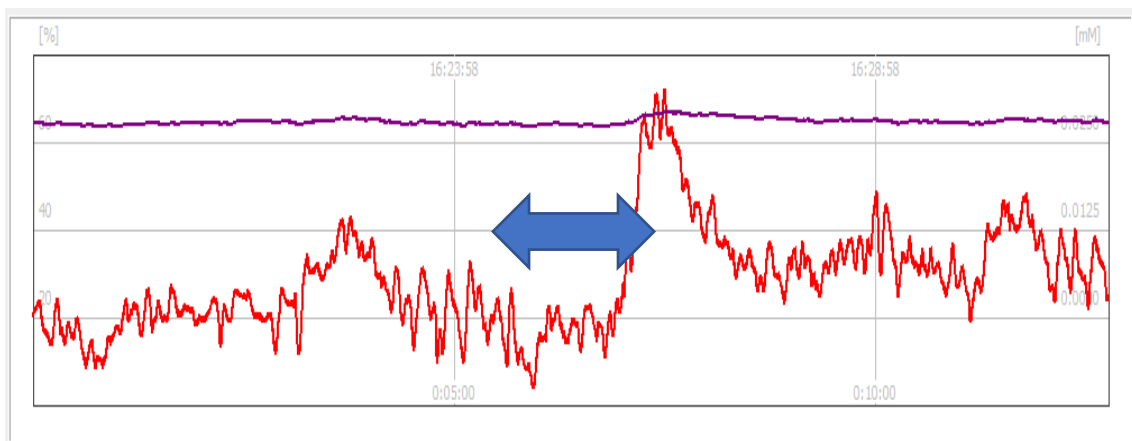
- Checked channels will be used for comparison/taking average on the display mode (see 5. Display mode for more details).
- Select the radio button of a channel to be highlighted in the comparison mode and will be displayed in the raw data display.

10. Dragging

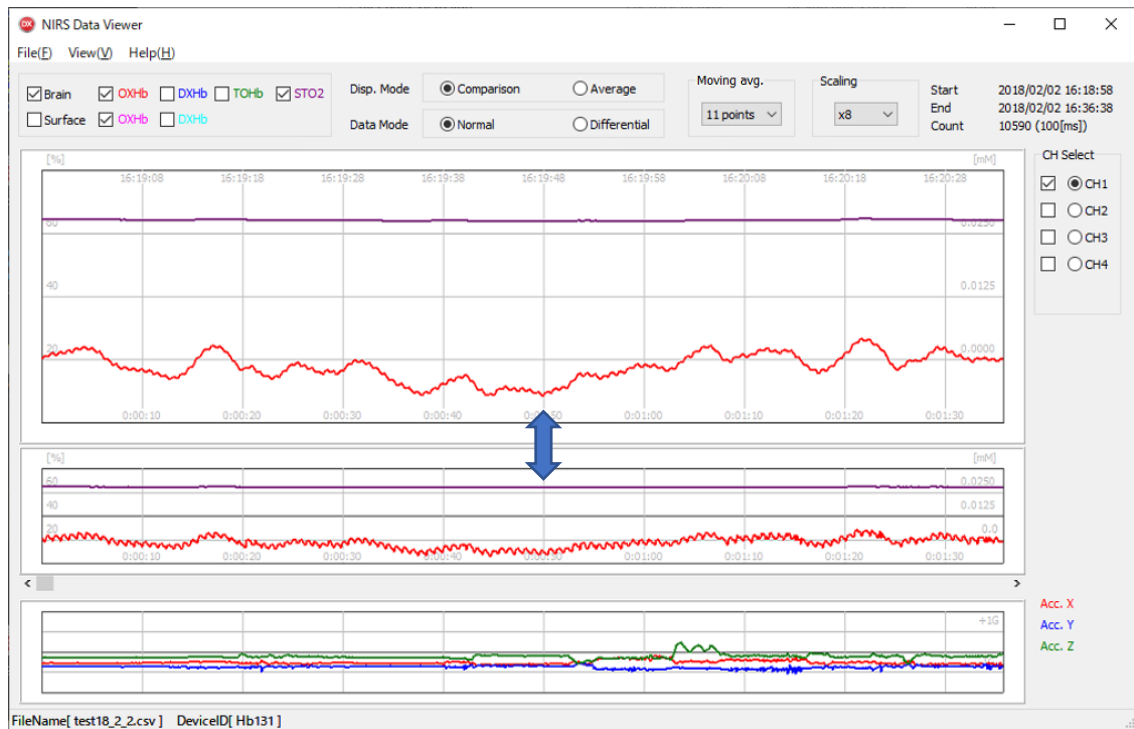
Display area can be adjusted by dragging (left button) on the processed data display area.



A horizontal drag while pressing the wheel button (or right and left both buttons) will compress the time axis.

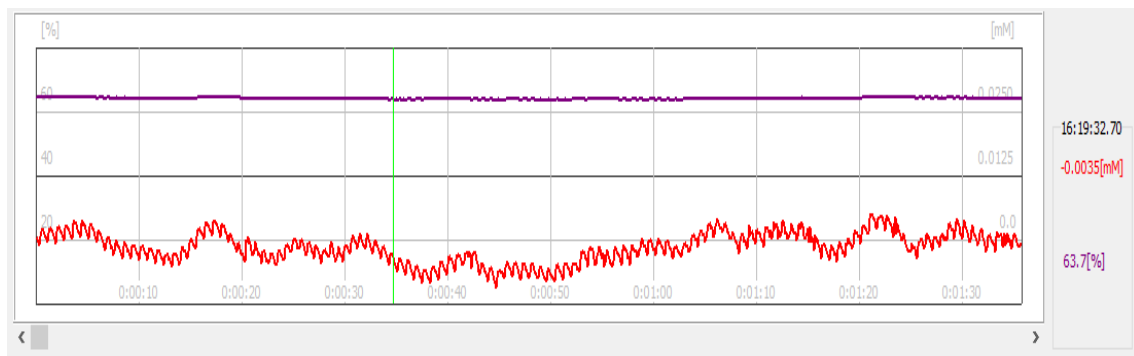


A drag (left button) of partition of processed data display or raw data display will change the proportion of display area.



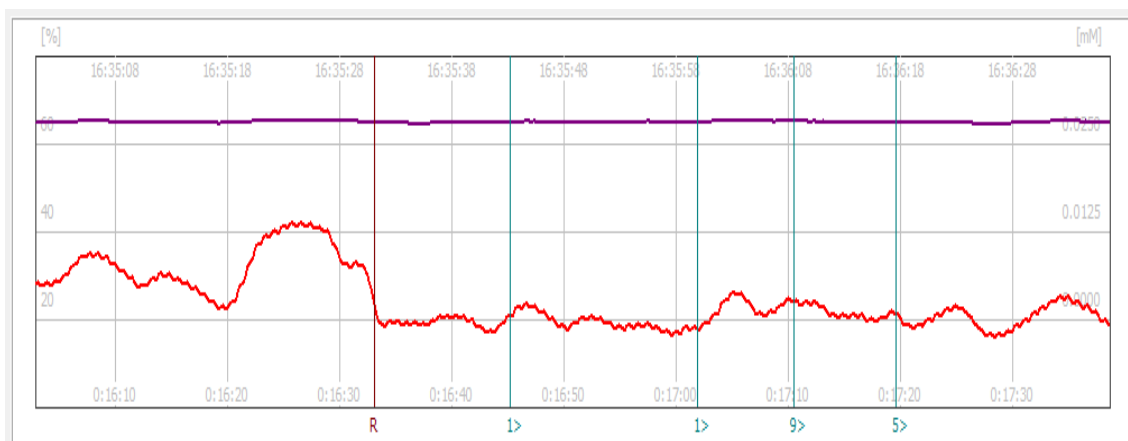
11. Readout

Click a optional point on the raw data will display the figures of the point. This works only when time axis is not compressed.



12. Event display

If information of events is saved in the CVS file, it will appear as blue vertical lines.



“R” describes the insertion of value-initialization.

n> shows the start of the event and <n shows the end of the event.