



purpose

With the LogAnalyzer, you will be able to explore and analyze log files created by the parsum „Inline Particle Probe“.

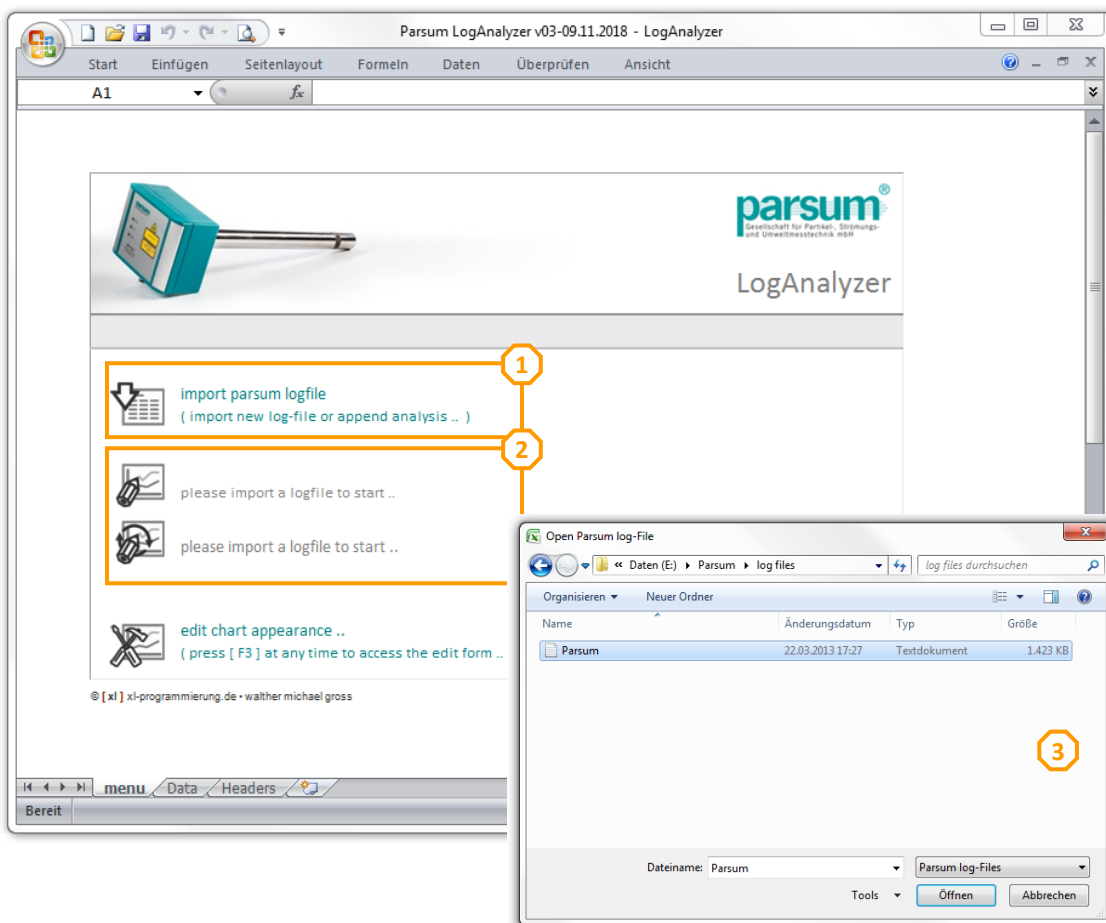


The LogAnalyzer is designed to perform within all excel version from „excel 97“ onwards.

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import a logfile



import a logfile using an empty LogAnalyzer template ..

(1) import a logfile

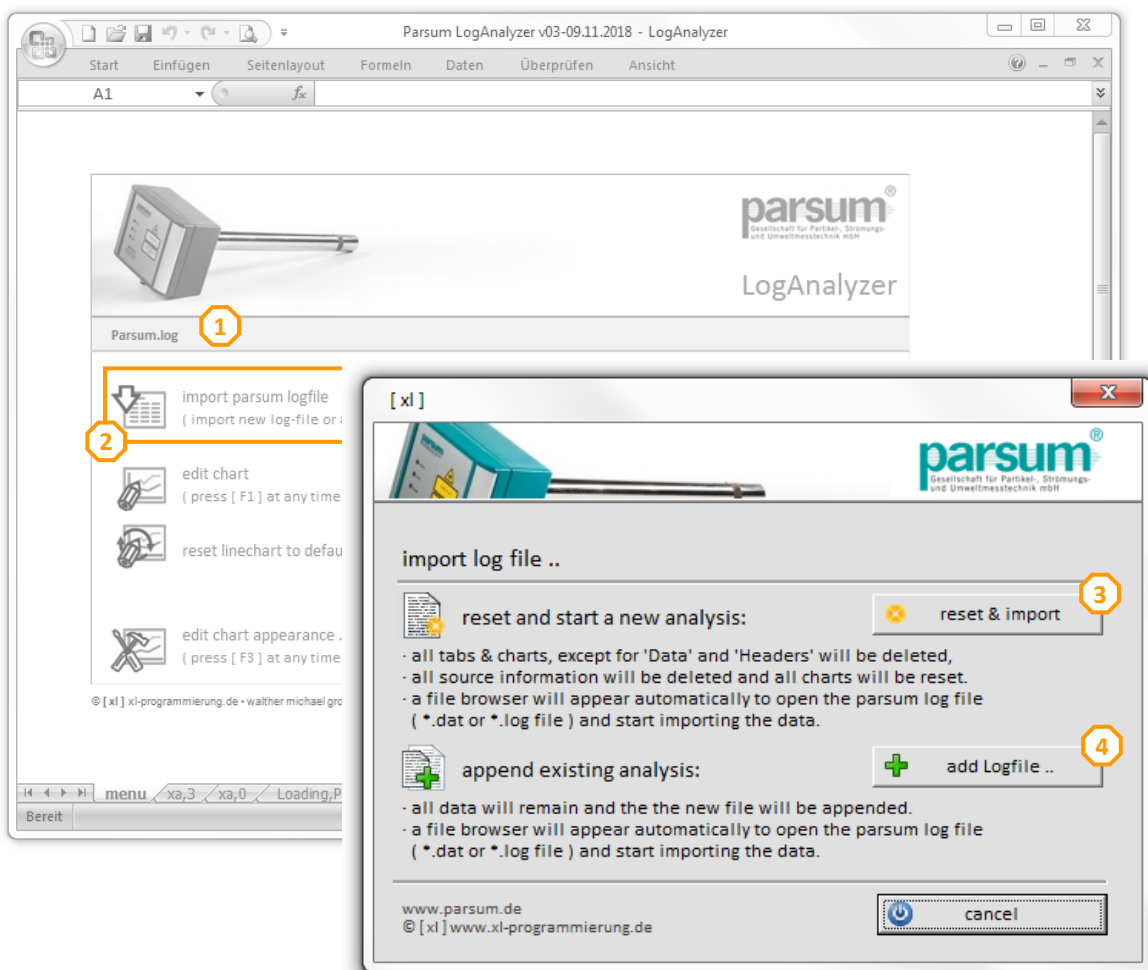
The first time you open the LogAnalyzer, the file will be empty. The highlighted „import parsum logfile“ menu item indicates that the file is ready to be loaded with data.

In order to start a data import click on the „import parsum logfile“ icon.

An „open file“ browser **(2)** will appear to select and open a parsum logfile.
The data import starts automatically once you selected a logfile.

> *import continues on page 4 ..*

import a logfile



import a logfile using an already preloaded LogAnalyzer file ..

(1) currently loaded file

The filename listed in the [menu] tab indicates that a logfile is already loaded within the LogAnalyzer.

(2) import a log file

By choosing „import parsum logfile“ you have two options: you can choose „reset & import“ or „add Logfile“.

(3) reset & import

Select an open parsum logfile; the data import starts automatically once you selected a logfile.

please note:

- All custom tabs and charts will be deleted.
- All source information will be deleted and all standard charts will be reset.

**(3) add logfile**

You can add additional Logfiles to the existing analysis.

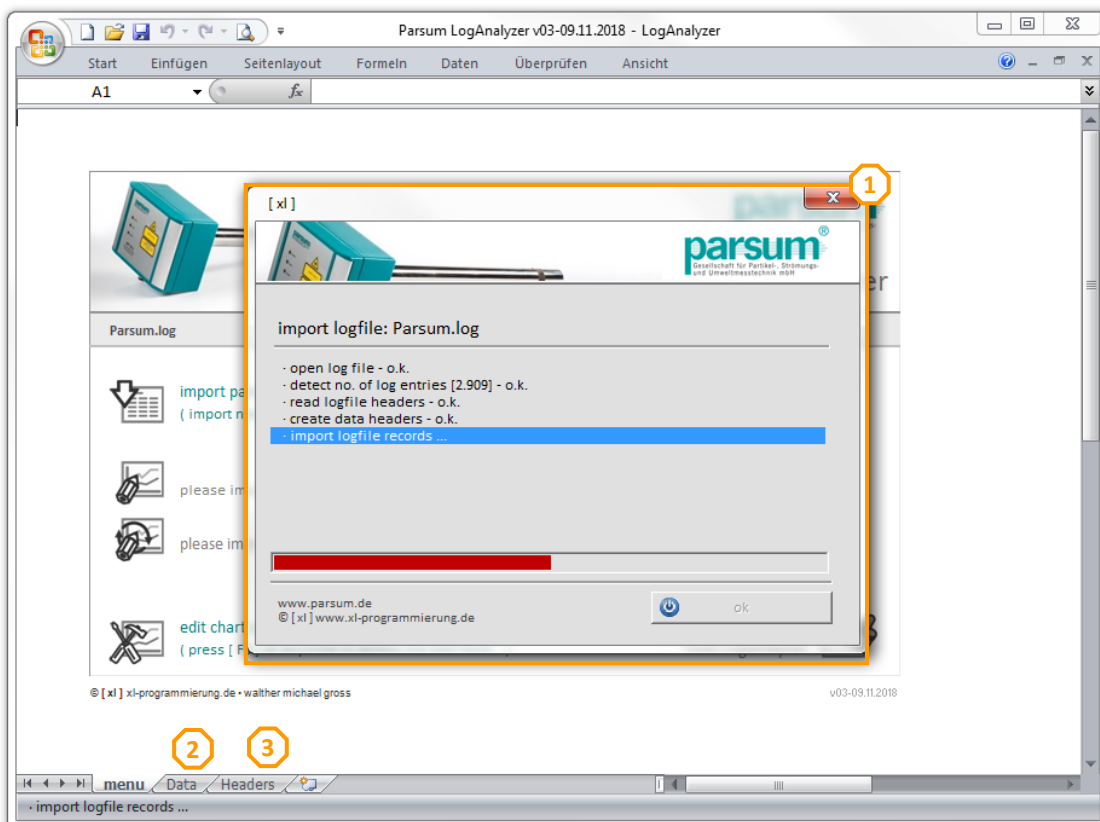
Click on the „add Logfile“ to start appending new data.

please note:

When uploading multiple files please make sure to load them in an ascending date order. This is crucial to display the logger information on the x-axis time scale.



import a logfile



import in progress ..

(1) import progress

While importing a logfile, a progress form lists the major import steps. the logfile will be validated and the header information as well as all data entries will be imported into the LogAnalyzer file.

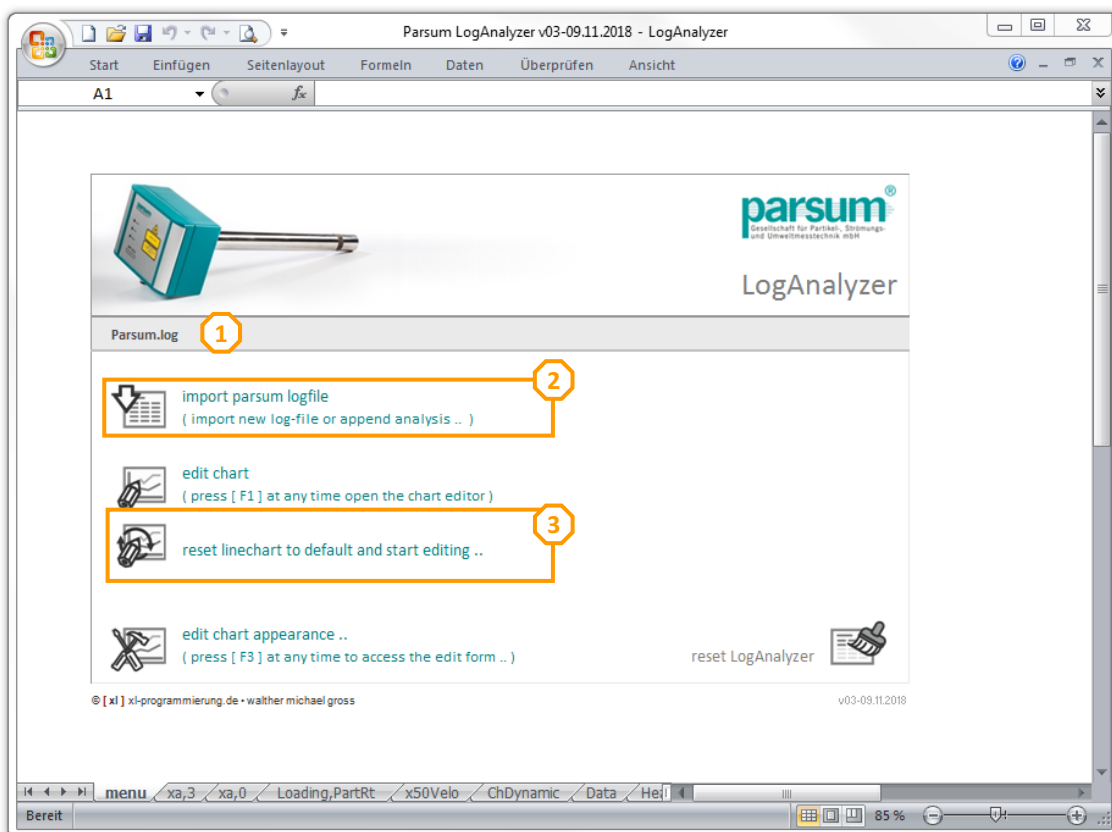
All logfile information will be stored inside the current LogAnalyzer file.
By saving the current file, all data will retained until you reset or import another logfile into the LogAnalyzer.

**(2) raw data**

All logfile information will be stored within the [Data] tab.

(3) header information

All header information will be stored within the [Headers] tab.



import completed.

(1) imported logfile

Once a logfile has been successfully imported, the logfile name will be displayed on top of the [menu] tab. The „import parsum logfile“ menu item (2) will remain green.

You might store the file using the „save“ or „save-as“ functionality before you start analyzing the data.

(3) reset the linecharts

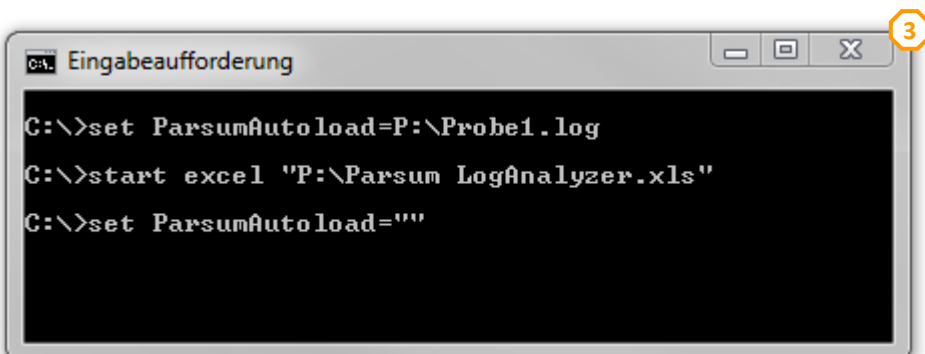
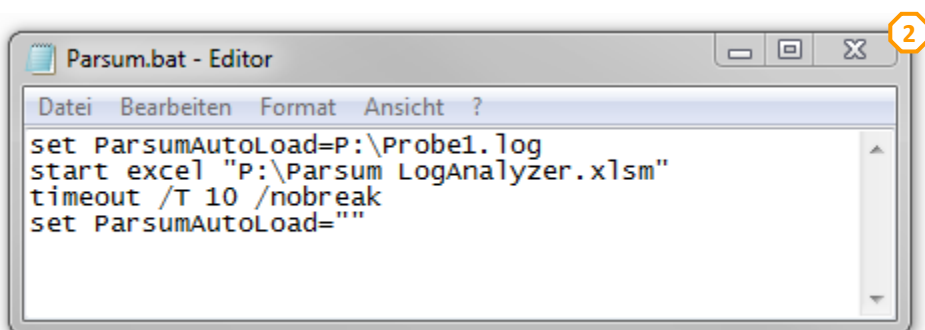
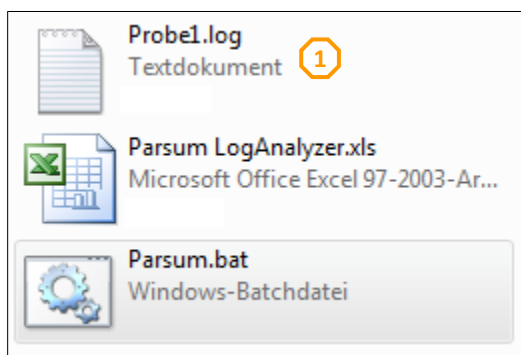
Click on the „reset linechart to default and start editing“ icon to reset the LogAnalyzer file.

please note:

- All custom tabs and charts will be deleted.
- All source information will be deleted and all standard charts will be reset.



start the LogAnalyzer and import a logfile using a batch file



start the LogAnalyzer and automatically import a logfile using a batch file ..

For this example, let's assume we have the LogAnalyzer file as well as the logfile [Probe1.log] which we want to import within the [P:\] drive:

- (1) For this example, let's assume we have the LogAnalyzer file as well as the logfile [Probe1.log] which you want to import, both located within the [P:\] drive.
- (2) **create and execute a batch file**
 The 1st command defines the logfile to be imported by setting the „ParsumAutoload“ parameter. please provide the full filename and path without quotation marks .
 the 2nd command start excel along with the LogAnalyzer .
 The startup parameter will be reset after 10 seconds and the batch file will be terminated.
- (3) **using the command prompt**
 First set the „ParsumAutoload“ parameter and then start excel along with the LogAnalyzer file.
 Please make sure to reset the „ParsumAutoload“ parameter when done!

headers

Measure	Date	Time	Probe Type	Serial Number	Profile
m_001	24.01.2008	0:00:12	IPP 70		File: Manual Setting

review the logfile headers

Navigate to the [Headers] tab to review all header available within the currently imported logfile.

The parsum „Inline Particle Probe“ application creates a header within the logfile every time a measure is being started.

(1) chronicle

Each of the headers will be listed in chronicle order as read out from the logfile.

A „measure“ number (e.g. m_001) will be added to each header record.

(2) header content

Each of the headers will be splitted into its components and listed column-wise next to the cronicle information.

This makes it easy for you to review changes in the probe settings especially while running multiple measures implementing a probe.

sheet protection



The [Headers] tab is protected against adjustments such as adding rows and columns in order to ensure the data import into a static location which you can use as a source for your custom calculation and data visualization.

review the logfile data

Navigate to the [Data] tab to review the content available within the currently imported logfile created by the parsum „Inline Particle Probe“ application.

(1) chronicle

Each data record will be enriched with the „measure no.“ and „measure ID“ within the first two columns.

„measure number“

The „measure“ (e.g. m_001) can be reviewed within the [Headers] tab which provides all probe settings while performing the measure.

„measure ID“

The „measure ID“ (e.g. id_001, id_002 ...) represents a consecutive numbering of all data records within a single measure. the ID starts with one on any measure.

(2) custom values

Within the [Data] tab, you will find six custom value fields.

Per default, these fields are empty and will be deleted while the LogAnalyzer is being reset.

You might use this fields to post comparative data in order to display them in a particular linechart.

(3) content

All logfile records will be splitted into its data fields and listed column-wise next to the custom fields.

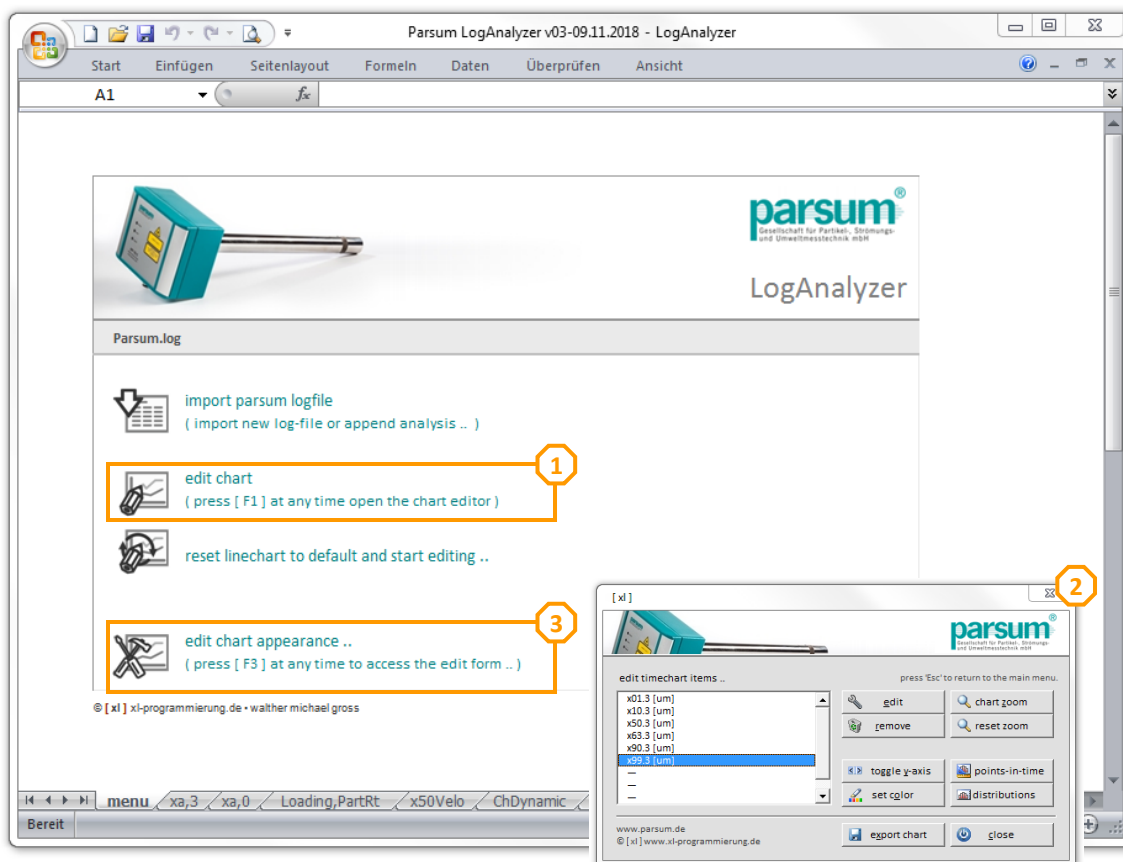
„Q0 & Q3 (lgx) distribution“

The „Q0 (lgx) distribution“ as well as the „Q3 (lgx) distribution“ is captured by the „Inline Particle Probe“ application and provided within its logfiles.

„q0 & q3 (lgx) density“ The „q0 (lgx) density“ as well as the „q3 (lgx) density“ will be calculated during the logfile import and listed at the far right of each data record.

sheet protection

The [Data] tab is protected against adjustments such as adding rows and columns in order to ensure the data import into a static location which you can use as a source for your custom calculation and data visualization.



review and edit charts.

(1) edit chart

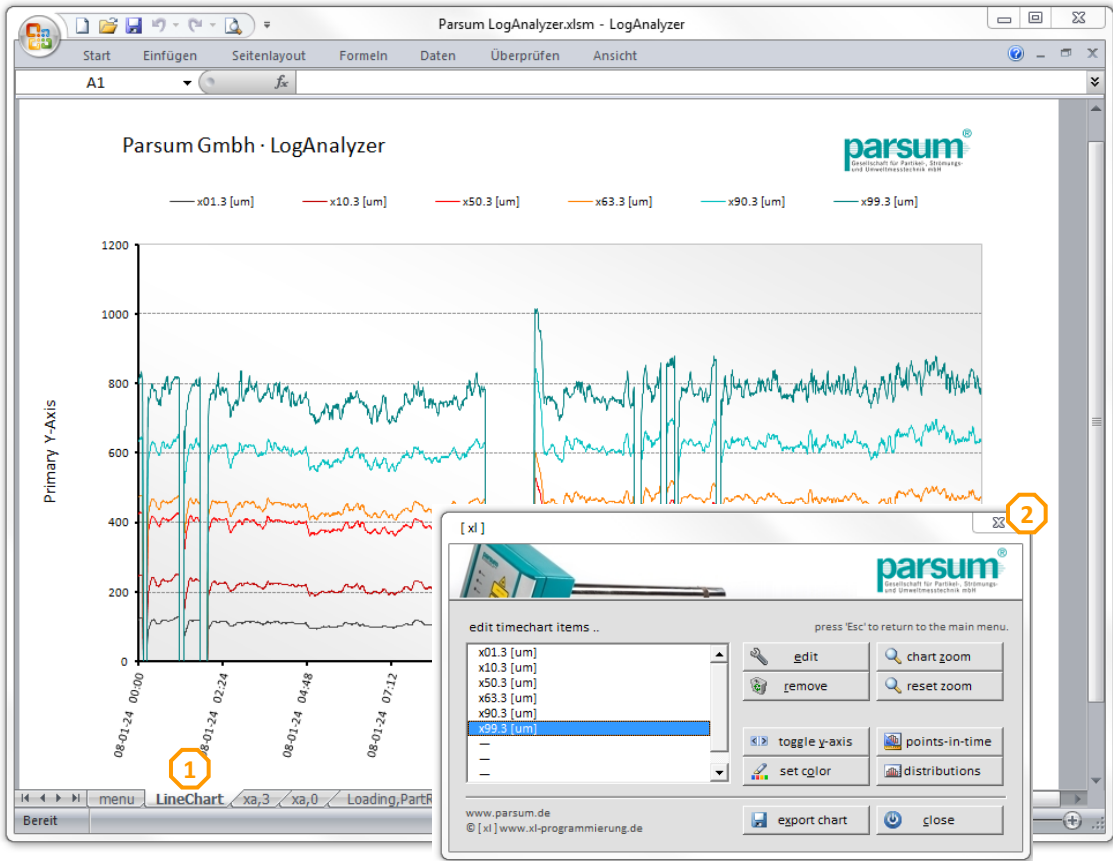
Click on the „edit chart“ icon to access the main line-chart menu (2).
> [learn more about the main linechart menu from page 11 onwards ..](#)



The main line-chart menu is available at any time and from any location within the LogAnalyzer file by pressing [F1] on your keyboard.

(3) edit chart using default lineitems

Click on the „edit chart using default lineitems“ icon in order to access the main line-chart menu (2) preloaded with default lineitems.
> [learn more about the \[LineChart \] from page 10 onwards ..](#)



review and edit the main linechart.

(1) linechart - default lineitems

While importing a logfile, the [LineChart] tab will be preloaded with all available „volume distribution“ items listed in the currently loaded logfile.

(2) return to menu

By pressing the „close“ button, the main linechart menu (2) will disappear, the [LineChart] tab will be hidden and you will return to the [menu] tab.

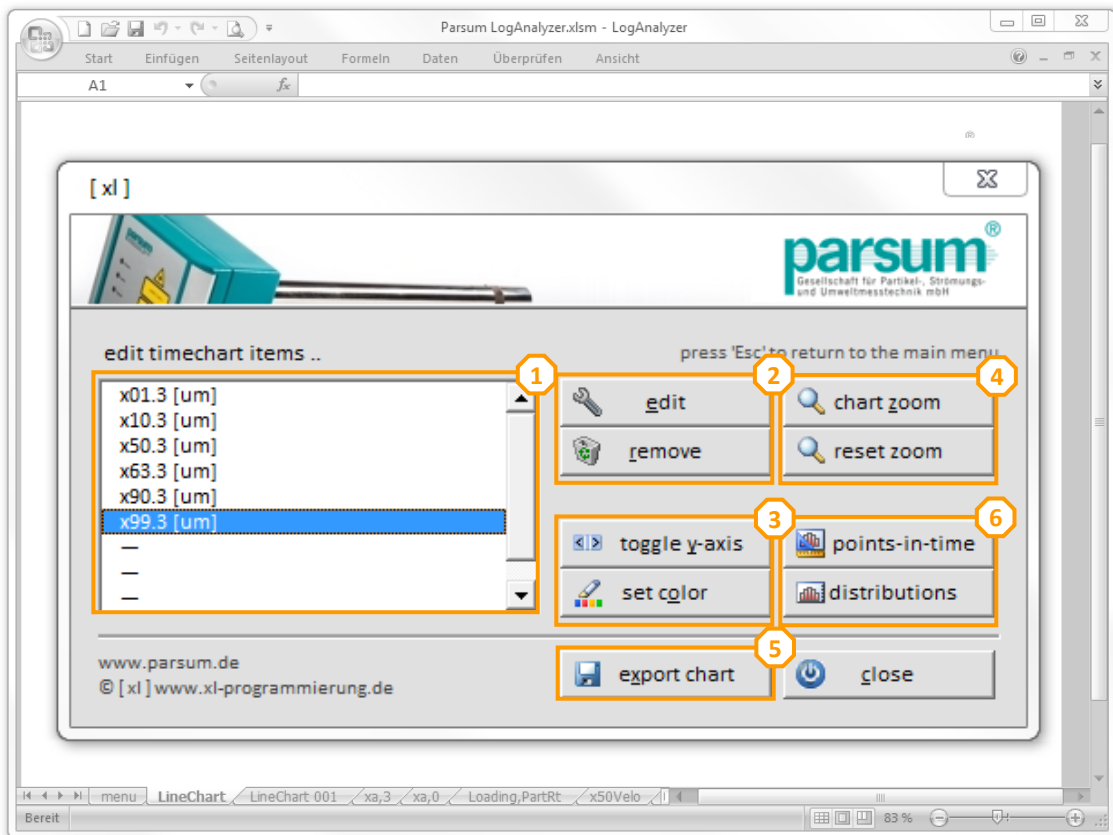
Press the ‚Esc‘ button to return to the main linechart menu
as well as to return to the LogAnalyzer [menu] tab.



content of the LineChart



the linechart illustrates selected characteristics given by the currently loaded logfile as a time-chart.
the x-axis (axis of time) demonstrates the point in time of each data-record - the y-axis demonstrated the individual value of each point in time.



the main linechart item menu.

the main linechart item menu is splitted into the following sections:

(1) linechart item list

The linechart item list shows all currently loaded items displayed in the [LineChart] tab.
The functions „remove“, „toggle y-axis“ & „set color“ require a selected linechart in order to be executed.

(2) edit & remove lineitems

You will be able to add, change, and remove lineitems within the [LineChart].

[> continues on page 12](#)

(3) toggle y-axis & set color

You will be able to toggle a lineitem between the primary and secondary y-axis as well as changing the color of a lineitem within the [LineChart].

[> continues on page 14](#)

(4) zoom & shift inside the timechart

You will be able to zoom in and out as well as shifting the timeperiods within the [LineChart].

[> continues on page 15](#)

(5) export charts

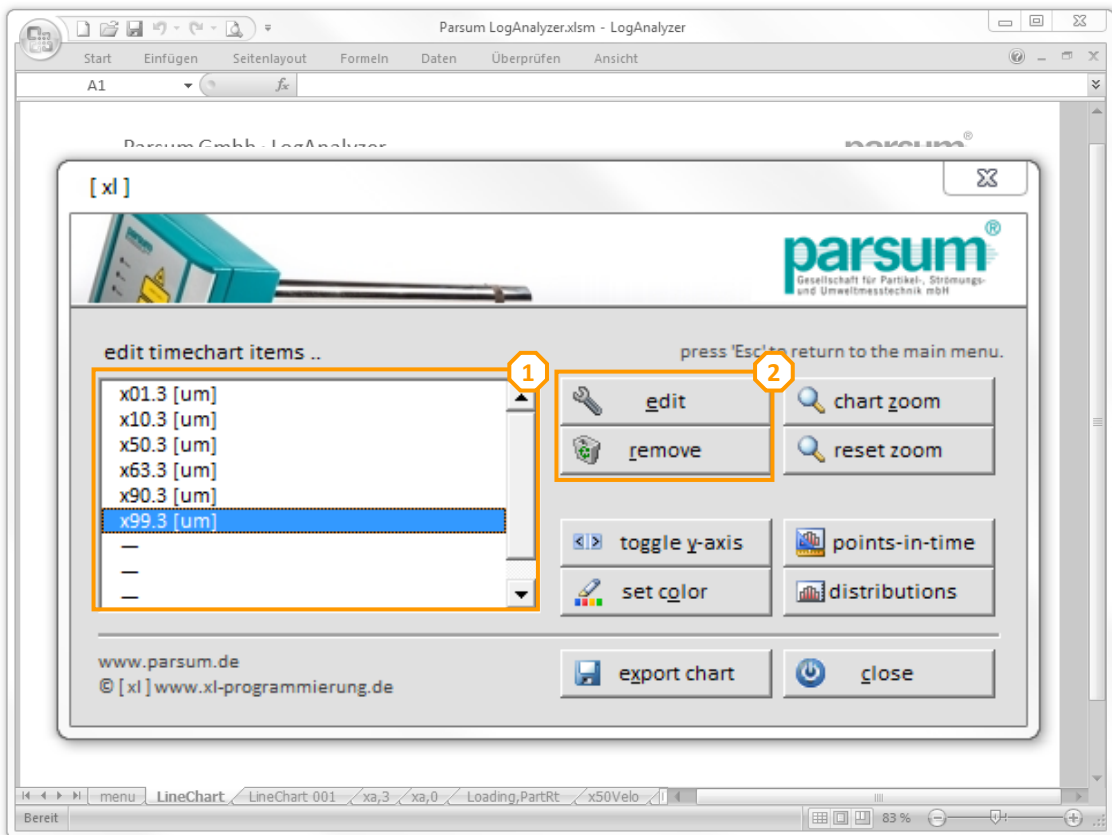
You will be able to create a copy of the currently visible chart in order to save the current view or to make further changes to it.

[> continues on page 16](#)

(6) edit points-in-time & review distribution charts

You will be able to add, change and remove points-in-time as well as review dependent distribution charts illustrating the defined points-in-tiem..

[> continues on page 17](#)



edit & remove lineitems.

(1) remove linechart item

In order to remove a linechart item from the [LineChart] tab, select one of the currently loaded items **(1)** and press the „remove“ button **(2)**. The selected linechart item will be removed and the [LineChart] will be repainted. you may continue deleting linechart items until a single item remains left.

tip:

You might use the „edit lineitems“ functionality to remove multiple lineitems at once.



please note:

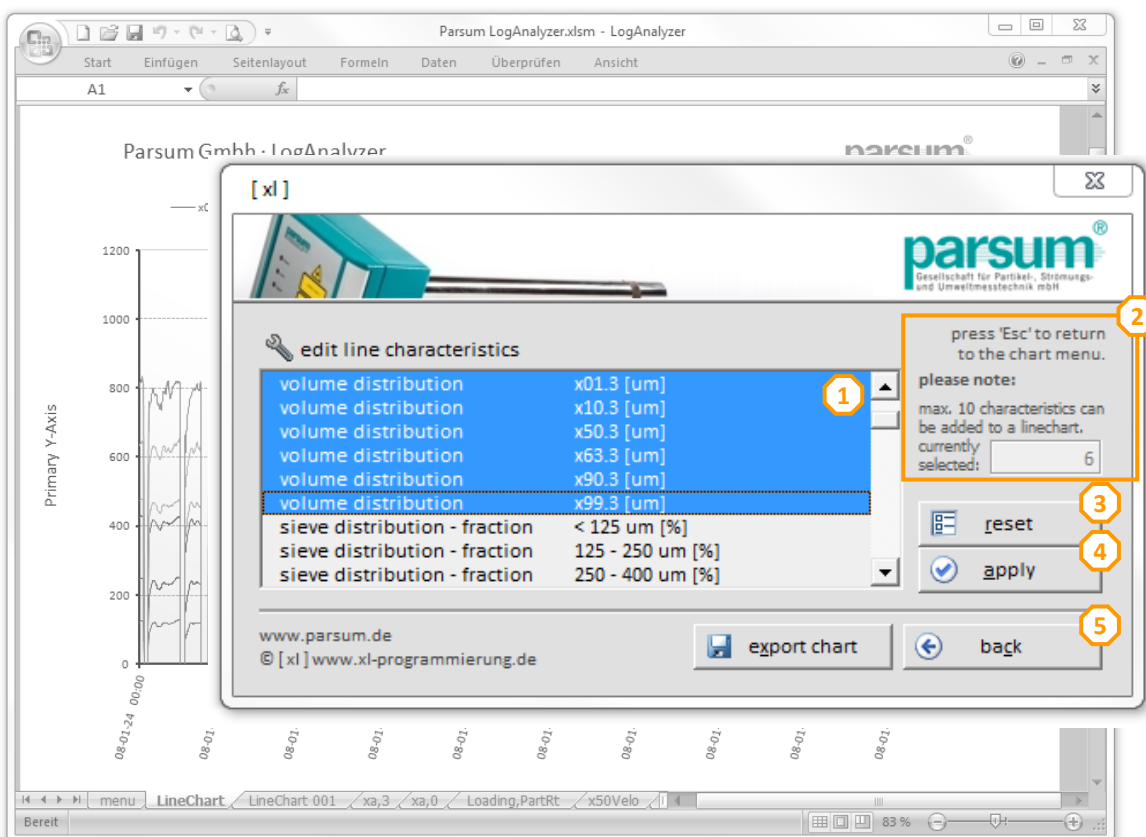
At least one lineitem must remain in the [LineChart]. In order to change the remaining linechart item please continue with the „edit linechart“ procedure.



(2) edit & remove lineitems

By pressing the „edit“ button, you are entering the „edit linechart menu“. You will be able to add, change, and remove lineitems within the [LineChart].

> continues on page 13



edit **edit lineitems.**

by pressing the „edit“ button within the main linechart menu, you are entering the „edit line characteristics“.

(1) select linechart item

In order to edit the [LineChart] lineitems (characteristics) you can choose from any of the available characteristics provided by the currently loaded logfile (1).

Simply click on the characteristics to activate or deactivate the desired lineitems - you may also use the „space-bar“ to activate or deactivate a lineitem.

please note:

The number of illustrated lineitems within the [LineChart] is limited to a minimum of 1 and a maximum of 10 characteristics !

The characteristic counter (2) provides you amount of the currently selected items.



(3) reset characteristic selection

By pressing the „reset“ button, the current selection of lineitems will be removed in order to create a new selection of lineitems. A notification will appear to remind you of selecting at least one characteristic in order to apply the changes within the [LineChart].

(4) apply characteristic selection

By pressing the „apply“ button, the current selection of lineitems will take effect within the [LineChart] and you will automatically return to the main linechart menu (see page 11).

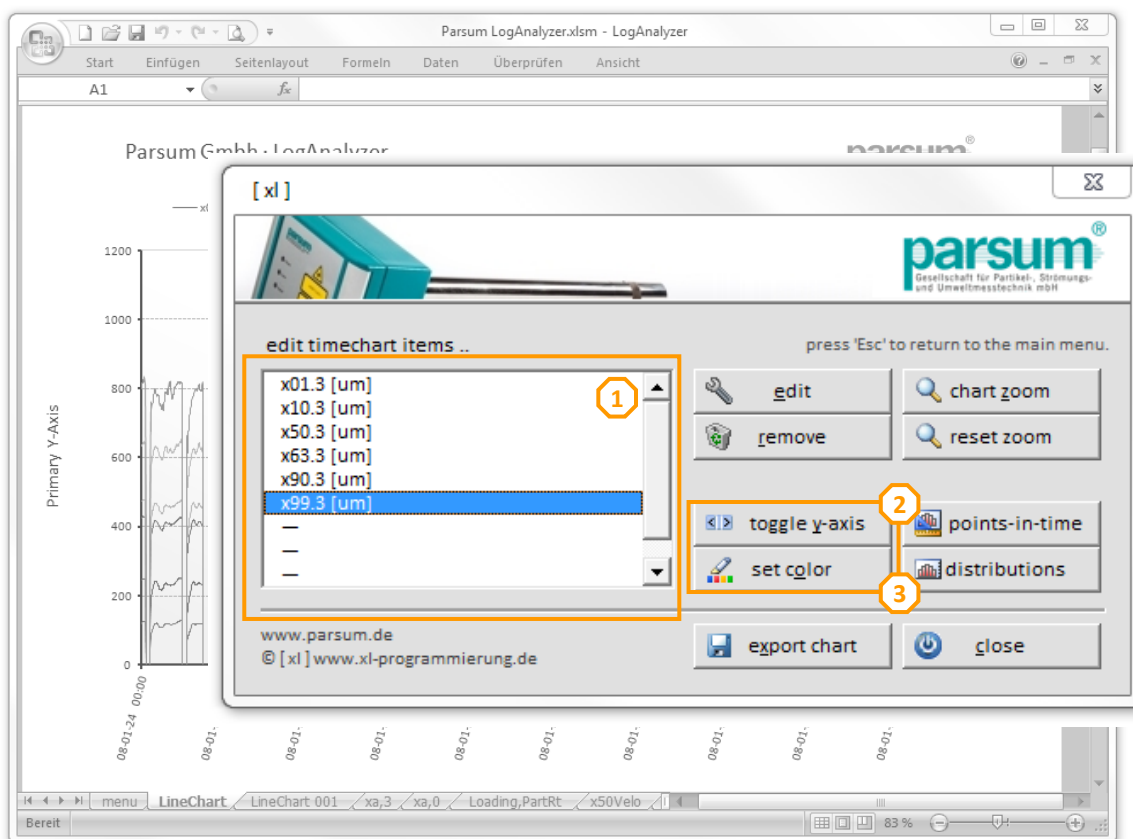
(5) return to main linechart menu

Press the „back“ button or [Esc] to return to the main linechart menu without causing further actions (page 11).

tip:

you might use the „edit lineitems“ functionality to remove multiple lineitems at once.





toggle y-axis & set lineitem color.

the main linechart item menu is splitted into the following sections:

(1) select a lineitem

Select one of the listed lineitems in order to use the „toggle y-axis“ or „set color“ function.

(2) toggle y-axis

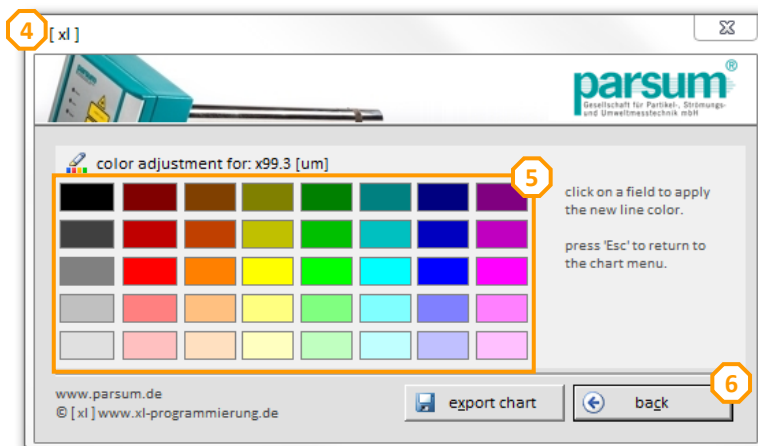
Click on „toggle y-axis“ to change the assignment of the currently selected lineitem **(1)** between the primary and secondary y-axis within the [LineChart].

(3) set lineitem color

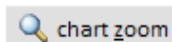
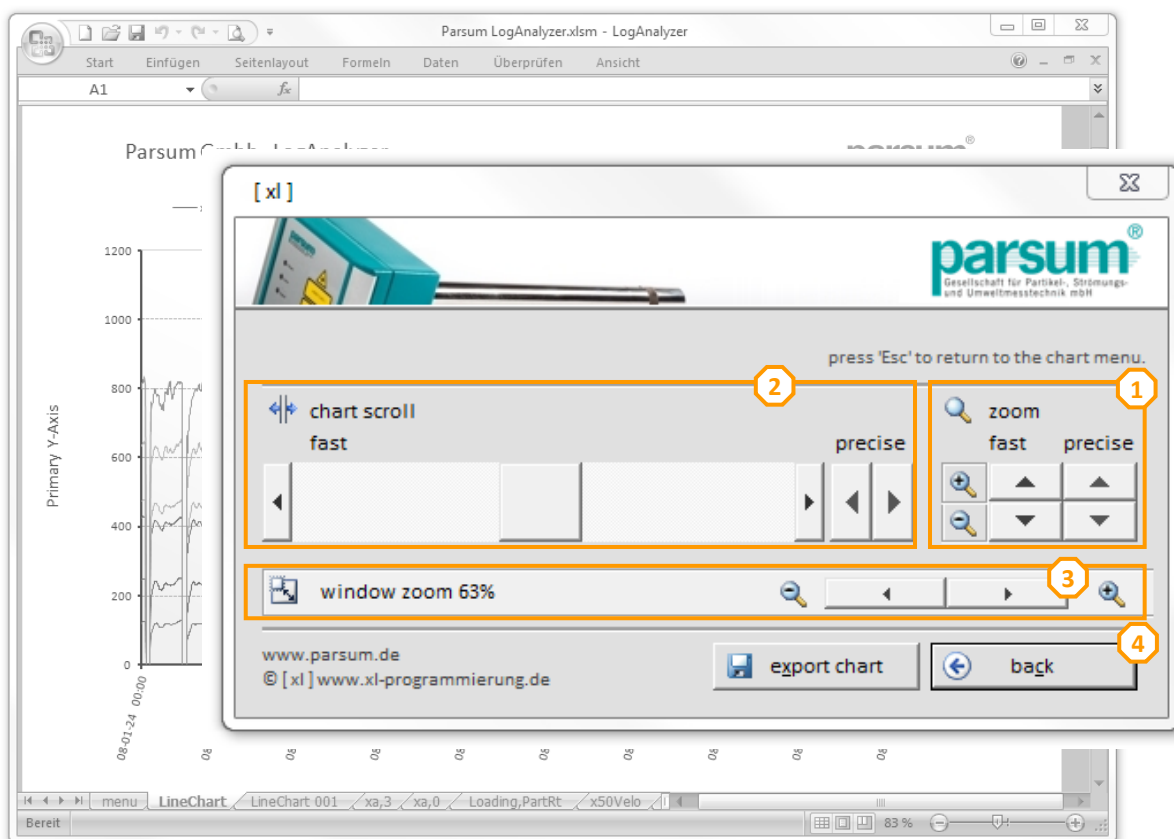
Press the „set color“ button in order to change the color of the currently selected lineitem **(1)**. the „color adjustment“ menu **(4)** appears. You will find the selected lineitem listed on top of the color selection **(5)**. Click on the desired color and the lineitem will be adjusted accordingly.

(6) return to main linechart menu

Press the „back“ button or [Esc] to return to the main linechart menu without causing further actions.



LineChart: chart zoom



zoom and shift inside the timechart.

By pressing the „chart zoom“ button within the main linechart menu, you are entering the „zoom menu“.

The main linechart item menu is splitted into the following sections:

(1) zoom inside the timechart

You have two options to zoom in and out the [LineChart] - „fast“ and „precise“.

The „fast zoom“ will increase (upwards) or decrease (downwards) the zoom factor of the linecharts x-axis in large steps. The „precise zoom“ will change the x-axis zoom in small iterations.

(2) timechart scroll

Once you enlarged the zoom factor, you will be able to use the „chart scroll“ slider (2). Similar to the zoom buttons you have the options of using a „fast“ and „precise“ chart scroll.

(3) window zoom

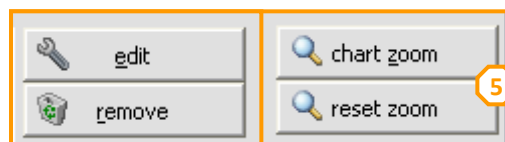
Changing the „window zoom“ affects the entire chart window.
per default, all charts will be scaled to an optimum size to fit your screen.

(4) return to main linechart menu

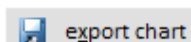
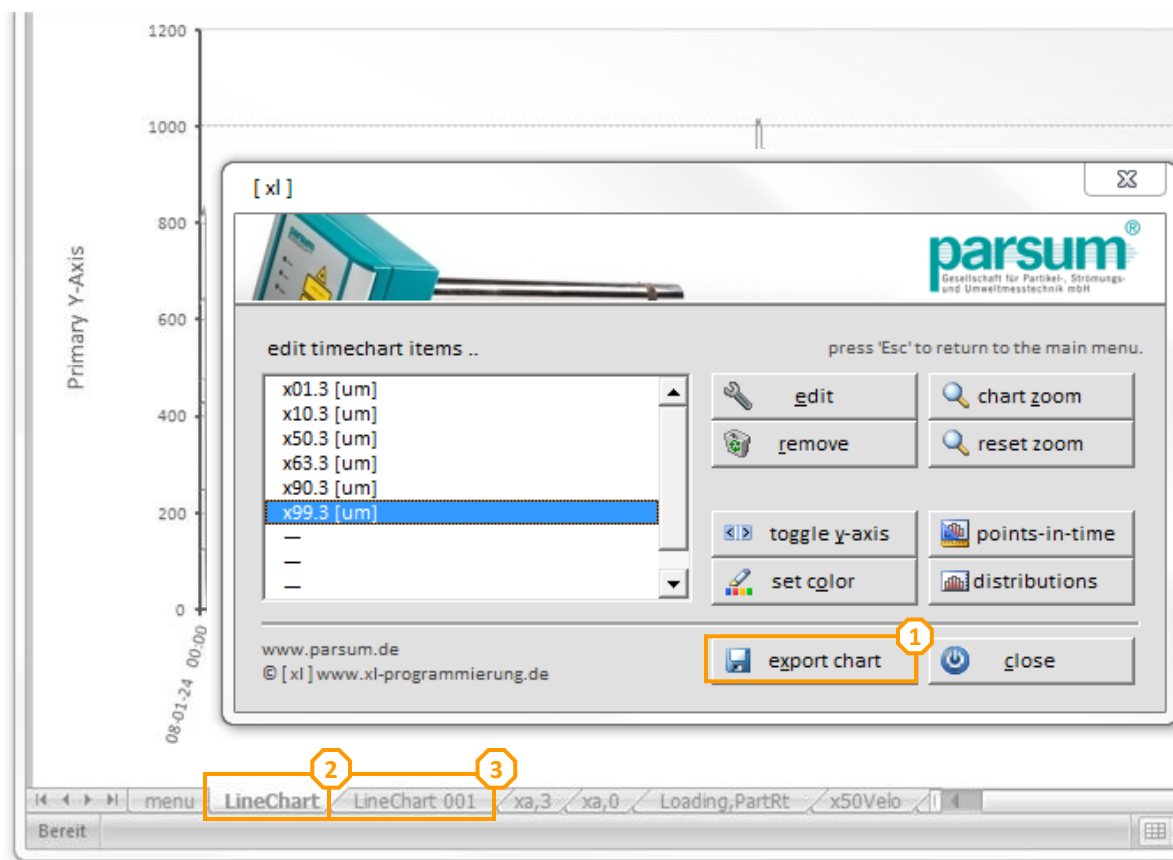
Press the „back“ button or [Esc] to return to the main linechart menu without causing further actions (page 11).

(5) reset zoom

You will find the „reset zoom“ button within the main linechart menu. by pressing „reset zoom“ button, the zoom factor (x-axis) will be zoomed out to display the entire range of the currently loaded logfile and the window zoom will be rescaled to the optimum.



export chart



export chart

export chart.

(1) export chart

Press the „export chart“ button **(1)** to create a copy of the currently activated chart **(2)**, e.g. „LineChart“. an incremental identifier will be added to the new chart name and the chart will be unprotected **(3)**. You may continue exporting charts or exit the form in order to make changes to the newly created chart, e.g. „LineChart 001“.

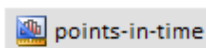
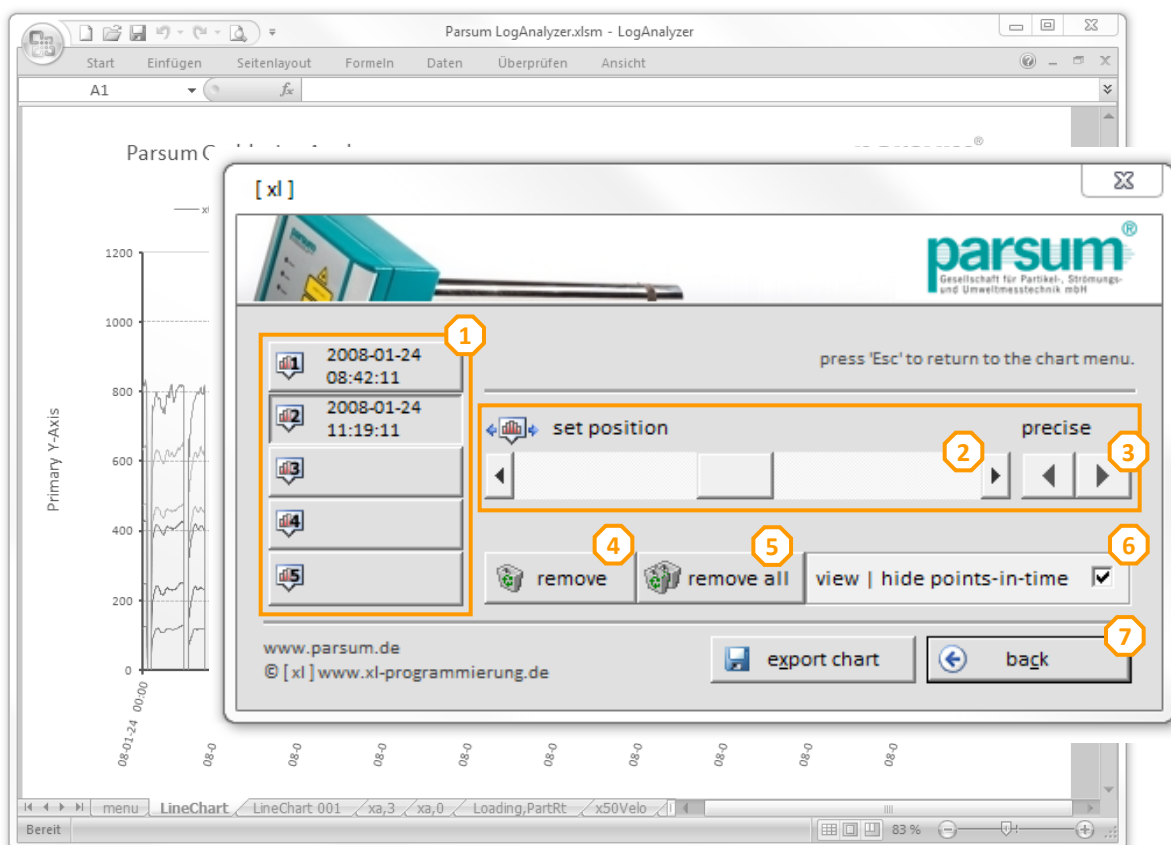
please note:

All exported charts within the LogAnalyzer file are constantly linked to the [Data] tab as their common source.

Editing the [Data] source (e.g. „custom values“) as well as editing „points-in-time“ will affect all charts within the LogAnalyzer file illustrating the edited items !

purpose

while the [LineChart] is used to explore and illustrate the currently loaded logfile it is protected against changes to assure the chart functionalities. the „export chart“ function creates a copy of any active chart by adding an incremental identifier and unprotected the chart (e.g. export „Linechart“ into „LineChart 001“). this newly created chart will remain active even after returning to the LogAnalyzer's [menu] tab. you can make further changes to the chart as needed; amend its content, copy into powerpoint etc.



edit points-in-time.

By pressing the „points-in-time“ button within the main linechart menu, you are entering the „points-in-time menu“.

(1) set a point-in-time

Select one of the five „point-in-time“ buttons you want to set or adjust (1).

In order to set the time, you have two options: a „fast“ and „precise“ time setting.

Use the time slider (2) to adjust the point-in-time in larger steps; the precise button (3) iterates the point-in-time by single steps (defined by the currently loaded logfile; record by record).

(4) remove a point-in-time

Select one of the five „points-in-time“ you want to remove (1) and press the „remove“ button (4).

(5) remove all points-in-time

Press the „remove all“ button in order to remove all points-in-time at once.

(6) view | hide points-in-time

You have the option to view or hide the currently selected points-in-time within the [TimeChart] by alternating the „view | hide points-in-time“ button (7).

While working in this menu, the activated „points-in-time“ will be shown as red spots at the x-axis topped by a horizontal dotted line for precise positioning. when leaving this menu, the horizontal line will be hidden.

(7) return to main linechart menu

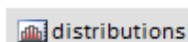
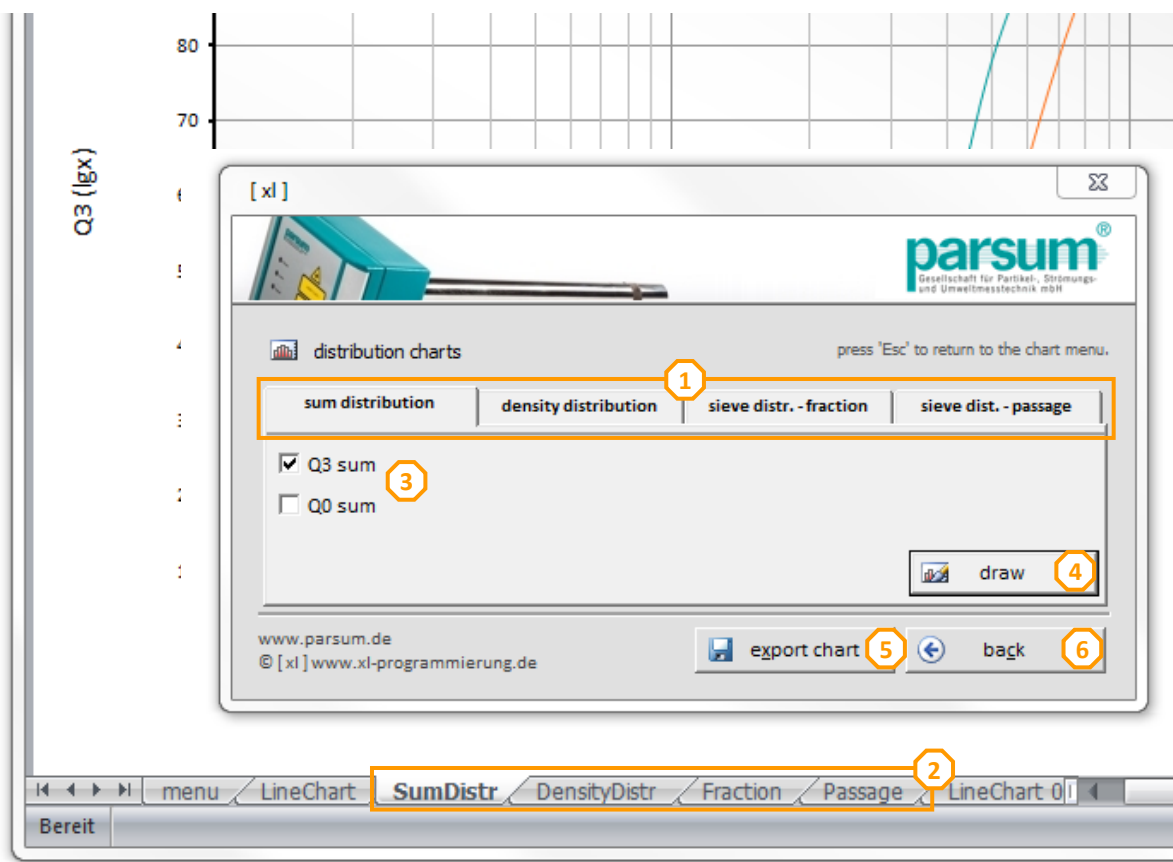
Press the „back“ button or [Esc] to return to the main linechart menu without causing further actions (page 11).

purpose of points-in-time



While the [LineChart] illustrates values over time, another major view of analyzing the logfiles is to review „distribution charts“. these charts are illustrating selected values (usually distributions) at distinct points in time. within the LogAnalyzer, you can select and review up to 5 points in time.

sum distribution



sum distribution.

By pressing the „distributions“ button within the main linechart menu, you are entering the „distribution charts menu“. You will find four distribution charts accessible through the chart tabs on top of the menu (1).

By navigating through the tabs (1), the corresponding chart will be activated (2).

The distribution chart illustrates all currently defined points-in-time.

[> learn more about setting points-in-time on page 17.](#)

(3) chart selection

Per default, the „Q3 summary distribution“ will be illustrated when entering the chart at first.

You can select between the „Q3“ and/or the „Q0“ summary distribution (3).

Press the „draw“ button (4) to reflect your selection in the current chart.

(5) export chart

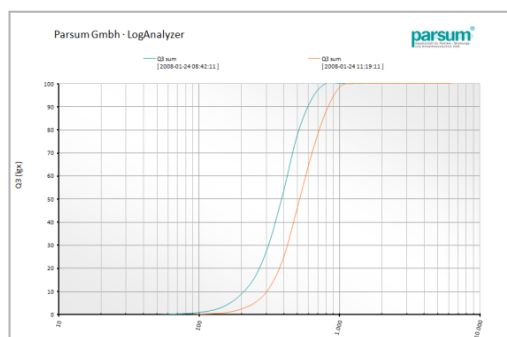
Press the „export chart“ button (5) to create a copy of the currently activated chart within the LogAnalyzer.

[> learn more about „export charts“ on page 16.](#)

(6) return to main linechart menu

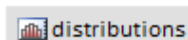
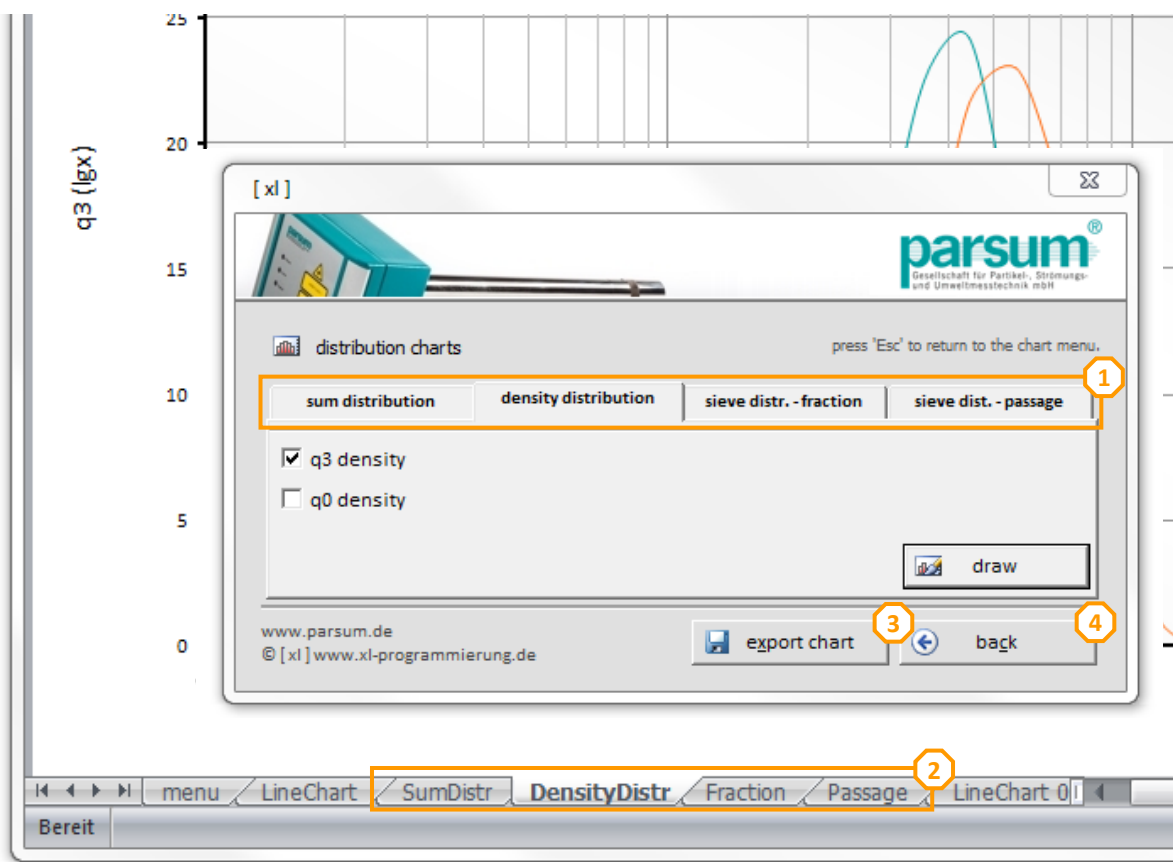
Press the „back“ button or [Esc] to return to the main linechart menu without causing further actions (page 11).

example:



logarithmic illustration of the volume sum distribution for the particle size with constant class width in [µm].

density distribution



density distribution.

By pressing the „distributions“ button within the main linechart menu, you are entering the „distribution charts menu“. You will find four distribution charts accessible through the chart tabs on top of the menu (1).

By navigating through the tabs (1), the corresponding chart will be activated (4).

The distribution chart illustrates all currently defined points-in-time.

[> learn more about setting points-in-time on page 17.](#)

(3) chart selection

Per default, the „q3 density distribution“ will be illustrated when entering the chart at first.

You can select between the „q3“ and/or the „q0“ density distribution (3).

Press the „draw“ button (4) to reflect your selection in the current chart.

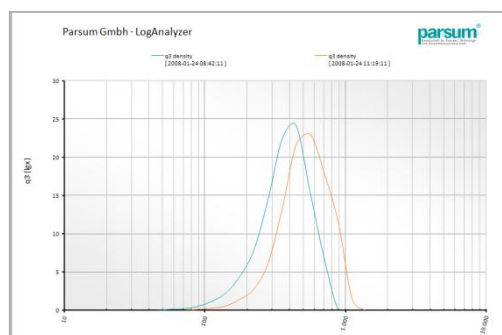
(5) export chart

Press the „export chart“ button (5) to create a copy of the currently activated chart within the LogAnalyzer.

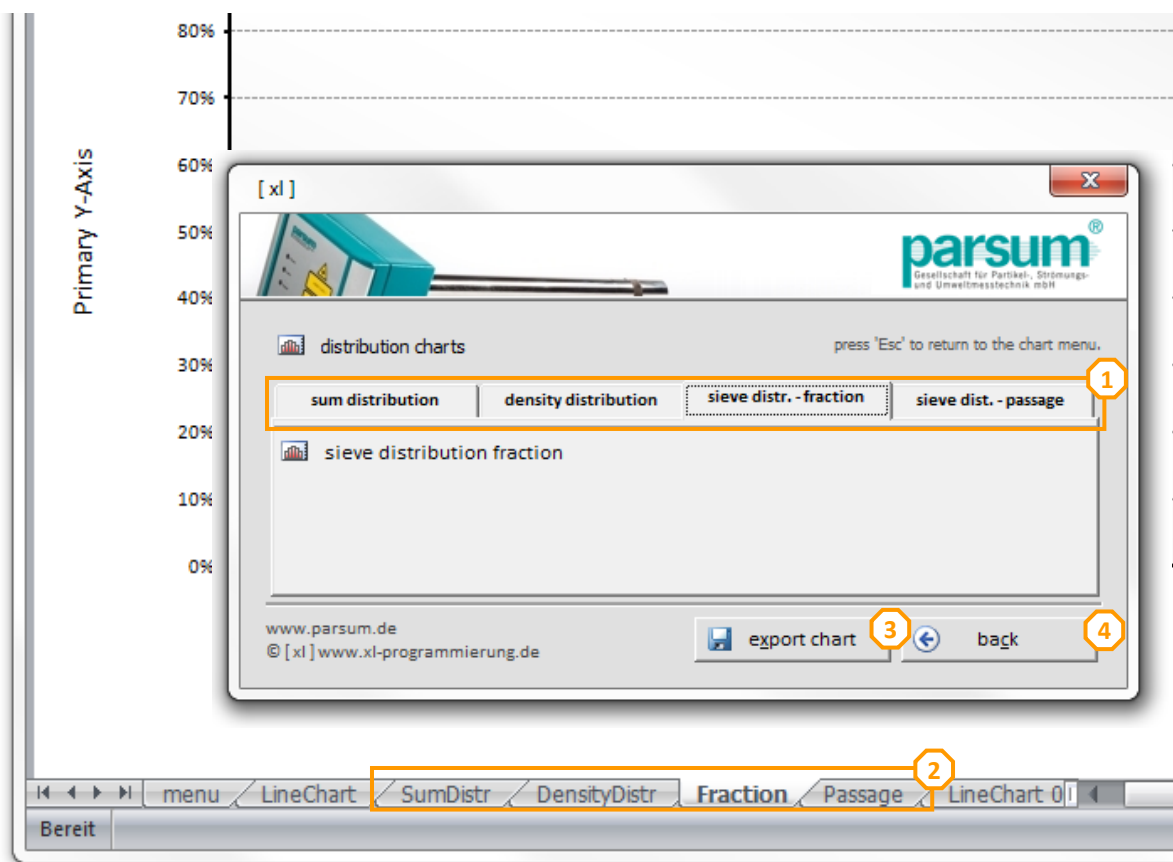
[> learn more about „export charts“ on page 16.](#)

(6) return to main linechart menu

Press the „back“ button or [Esc] to return to the main linechart menu without causing further actions (page 11).

example:

logarithmic illustration of the volume density distribution for the particle size with constant class width in [µm].



distributions sieve distribution- fraction.

By pressing the „distributions“ button within the main linechart menu, you are entering the „distribution charts menu“. You will find four distribution charts accessible through the chart tabs on top of the menu (1).

By navigating through the tabs (1), the corresponding chart will be activated (4).

The distribution chart illustrates all currently defined points-in-time.

[> learn more about setting points-in-time on page 17.](#)

(3) export chart

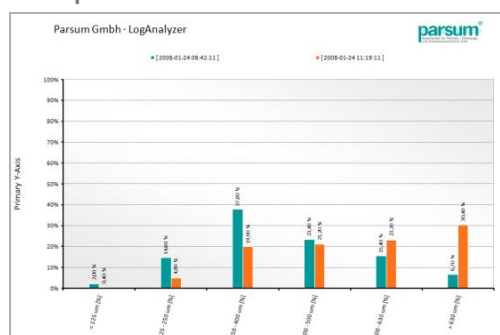
Press the „export chart“ button (3) to create a copy of the currently activated chart within the LogAnalyzer.

[> learn more about „export charts“ on page 16.](#)

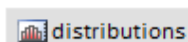
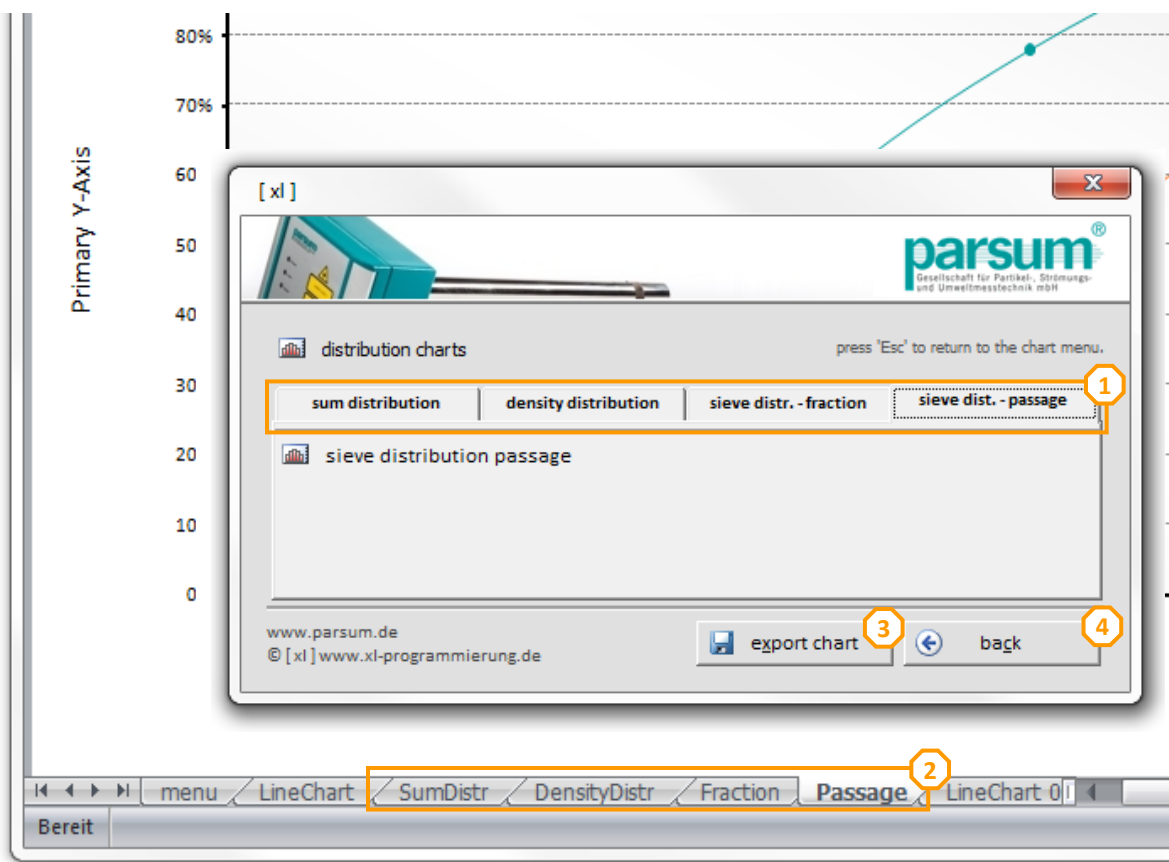
(4) return to main linechart menu

Press the „back“ button or [Esc] to return to the main linechart menu without causing further actions (page 11).

example:



illustrates the fractions of the set sieve series as a histogram.



sieve distribution- passage.

By pressing the „distributions“ button within the main linechart menu, you are entering the „distribution charts menu“. You will find four distrubution charts accessible through the chart tabs on top of the menu (1).

By navigating through the tabs (1), the corresponding chart will be activated (4).

The distribution chart illustrates all currently defined points-in-time.

[> learn more about setting points-in-time on page 17.](#)

(3) export chart

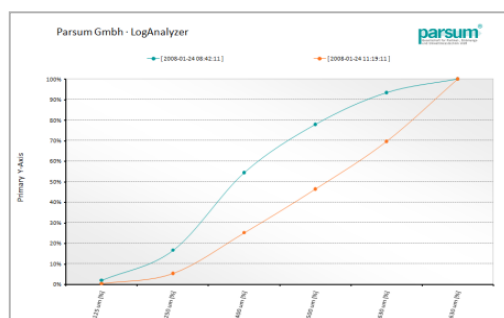
Press the „export chart“ button (3) to create a copy of the currently activated chart within the LogAnalyzer.

[> learn more about „export charts“ on page 16.](#)

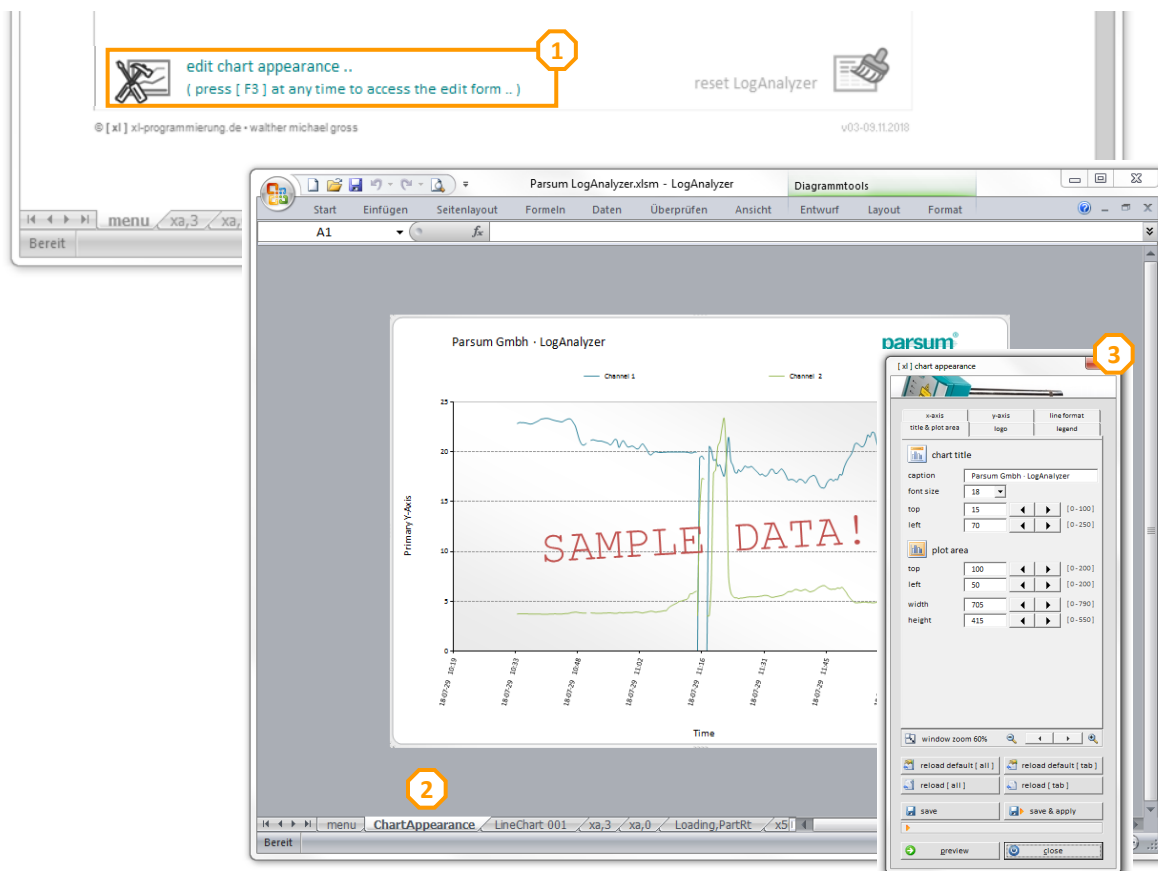
(4) return to main linechart menu

Press the „back“ button or [Esc] to return to the main linechart menu without causing further actions (page 11).

example:



illustrates the passage of the set sieve series.



edit chart appearance

The „chart appearance ..“ functionality allows you to customise all charts within the Parsum LogAnalyzer to your preferred look-and-feel. You will be able to adjust almost any chart elements and save them as your default chart design or reloading the LogAnalyzer default settings.

Once completed, the current chart appearance will be applied to all existing charts, including already exported charts within the LogAnalyzer file - if applicable.

F3

The main line-chart menu is available at any time and from any location within the LogAnalyzer file by pressing [F3] on your keyboard.

(1) Edit chart appearance...

Click on „edit chart appearance“ (1) within the menu tab or F3 on your keyboard to start.

The „chart appearance“ menu (3) as well as the „ChartAppearance“ tab (2) will appear .

The „ChartAppearance“ tab (2) is prefilled with static SAMPLE DATS only. This data will not be updated by any imported log information. With this, you can already change the default appearance to your preferred settings within your template file.

[> learn more about the chart appearance menu \(3\) on the pages 23 - 26](#)

please note:

The „ChartAppearance“ tab also displays the secondary y-axis for the purpose of allowing you to adjust its appearance. When applying the chart settings to all existing charts, the secondary y-axis design will only be applied if present.



chart appearance

chart appearance menu

The menu chart appearance is separated into three sections:

(1) tab selection:

All editable chart elements are grouped into various tabs. Please navigate to the different tabs while editing.

(2) data edit:

This is the edit section which offers you the single input elements based on the current tab selection **(1)**.

(3) reload, save and apply options:

Within this section you can apply or reload your custom settings. The window zoom helps you to zoom into the ChartAppearance sample chart.

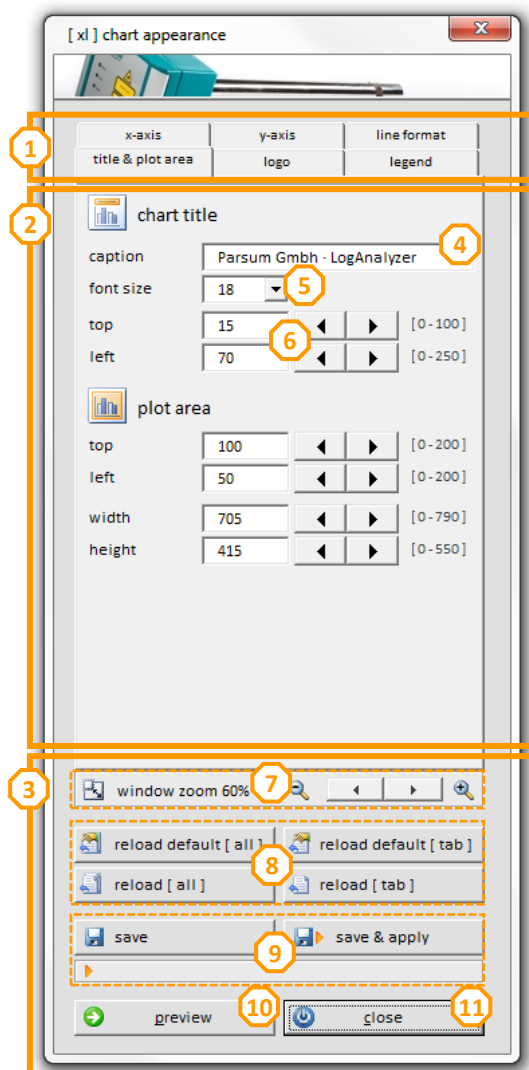


chart appearance

chart appearance menu

The menu chart appearance is separated into three sections:

(1) tab selection:

All editable chart elements are grouped into various tabs. Please navigate to the different tabs while editing.

(2) data edit:

This is the edit section which offers you the single input elements based on the current tab selection (1).

(3) reload, save and apply options:

Within this section you can apply or reload your custom settings.
The windows zoom helps you to zoom into the ChartAppearance sample chart

edit chart appearance - data edit

(2) edit fields

The edit section has three different edit modes and will usually take immediate effect within the „Chart Appearance“ tab:

(4) text fields:

A text field will only be updated once you leave (move on) to the next input field.
(e.g. chart title)

(5) pulldown lists:

These fields are predefined and will only accept the values listed in the pulldown menu.

(6) „input field“ and „spin button“ combination:

You can either type in the desired value directly into the input field
or increase / decrease the value by using the spin buttons.



If an adjustment is not automatically reflected within the sample chart, you may manually refresh the chart appearance by pressing the „preview“ button (10).

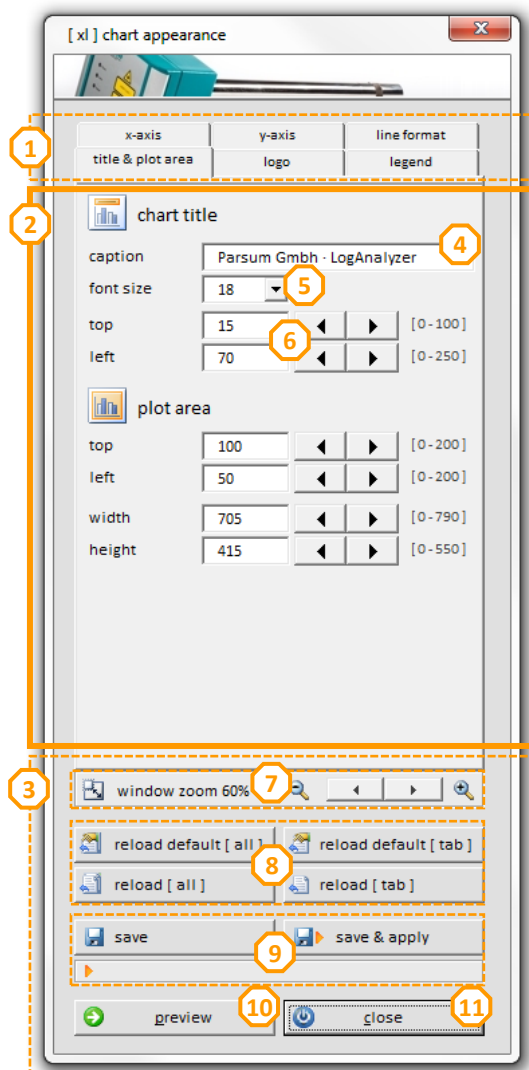


chart appearance

chart appearance menu

The menu chart appearance is separated into three sections:

(1) tab selection:

All editable chart elements are grouped into various tabs. Please navigate to the different tabs while editing.

(2) data edit:

This is the edit section which offers you the single input elements based on the current tab selection (1).

(3) reload, save and apply options:

Within this section you can apply or reload your custom settings.

The windows zoom helps you to zoom into the ChartAppearance sample chart

edit chart appearance - adding you custom logo

(2) logo adjustments

You can either use the preset „parsum“ logo (12) and set its size and position or you can add your own logo to all charts by importing your custom image (13).

Click on „import custom image ..“ in order to select and add your custom image. Once you have selected your file, it will appear in the custom preview of this form.

Press „preview image in chart ..“ (14) to review your logo within the sample chart.

please note:

Custom files can not be loaded from the windows clipboard, please select a file from a local or a network drive.

Only the following image file formats are accepted:

- BMP Bitmap File (*.bmp)
- GIF Graphics Interchange Format (*.gif)
- JPEG File Interchange Format (*.jpg;*.jpeg)

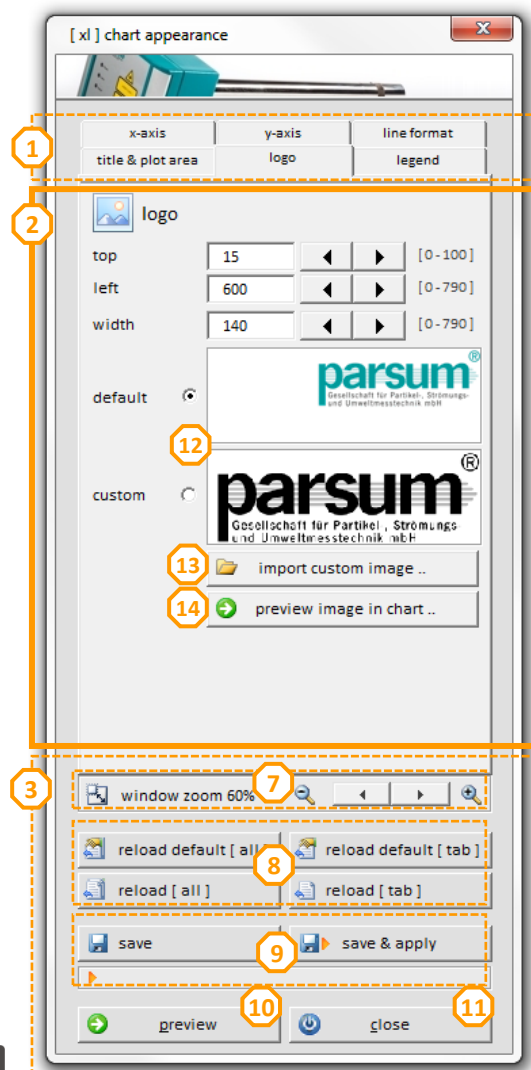


chart appearance

chart appearance menu

The menu chart appearance is separated into three sections:

(1) tab selection:

All editable chart elements are grouped into various tabs. Please navigate to the different tabs while editing.

(2) data edit:

This is the edit section which offers you the single input elements based on the current tab selection (1).

(3) reload, save and apply options:

Within this section you can apply or reload your custom settings.
The windows zoom helps you to zoom into the ChartAppearance sample chart

edit chart appearance - reload, save and apply options

(7) window zoom

Please use the window zoom to scale the entire worksheet „ChartAppearance“ for your convenience in case you want to set individual elements more precisely (7).

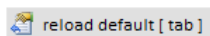
(8) reload options

Whenever you start the „chart appearance“ menu, you will always see your „personal settings“.

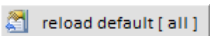
Starting the LogAnalyzer for the first time, your personal settings will match the „parsum default settings“.

To get a better understanding, let's assume you changed some of the settings within the „title & plot area“ tab as displayed above and did not save your changes or closed the form.

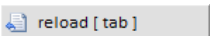
You have multiple options to reload settings in this form (8):



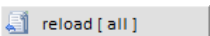
The „**reload default [tab]**“ function reloads the „parsum default settings“ into the selected settings tab only (here: „title & plot area“). Any setting changes within this tab will be overwritten and can't be undone.



The „**reload default [all]**“ function reloads the „parsum default settings“ into all settings tabs (1). Any setting changes within this form will be overwritten and can't be undone.



The „**reload [tab]**“ function reloads your „personal settings“ into the selected settings tab only (here: „title & plot area“). Any setting changes within this tab will be overwritten and can't be undone.



The „**reload [all]**“ function reloads your „personal settings“ into all settings tabs (1). Any setting changes within this form will be overwritten and can't be undone.

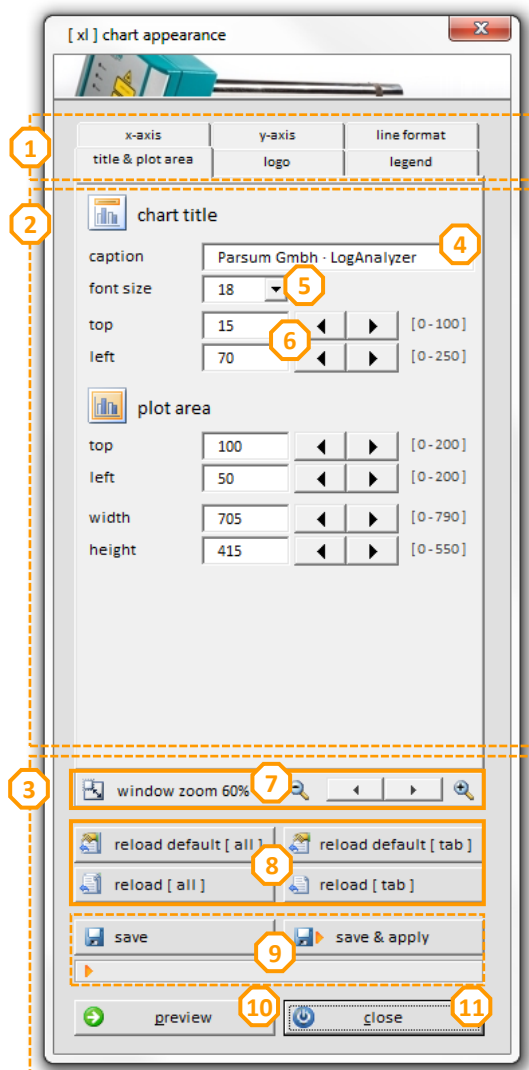


chart appearance

chart appearance menu

The menu chart appearance is separated into three sections:

(1) tab selection:

All editable chart elements are grouped into various tabs. Please navigate to the different tabs while editing.

(2) data edit:

This is the edit section which offers you the single input elements based on the current tab selection (1).

(3) reload, save and apply options:

Within this section you can apply or reload your custom settings.
The windows zoom helps you to zoom into the ChartAppearance sample chart

edit chart appearance - save and apply changes

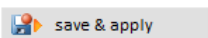
(9) save settings

Whenever you start the „chart appearance“ menu, you will always see your „personal settings“.

In order to save and apply your settings you have two options (9):



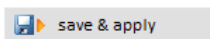
The „**save**“ function saves the settings of all settings tabs (1) as your „personal settings“.



While editing the chart appearance, the floppy icons on the save buttons will be highlighted to indicate that there are changes present which have not been saved yet.

(9) apply settings

In order to reflect your „personal settings“ to all existing charts within the LogAnalyzer, you need to apply the current chart appearance. If you preset and apply the chart appearance within a blank template file, the default charts will appear with your „personal chart settings“ while importing a new log file.



The „**save & apply**“ function saves the settings of all settings tabs (1) as your „personal settings“ and applies them to all existing charts within the LogAnalyzer.

please note:

The chart appearance also applies to exported charts but only for available elements !
Let's assume, you deleted the chart title in one of your exported charts – when applying the chart settings, this „chart title“ will not be restated.

