Laserliner® Innovation in Tools

User manual:

AirflowTest-Master Reader

Management software for AirflowTest-Master wind speed and airflow meter

Table of contents

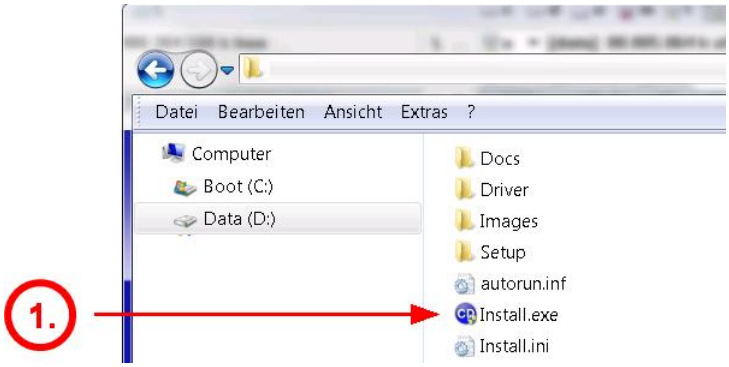
1 Installation

1.1 Basic installation procedure

The installation DVD contains all necessary files for installation:

- Special drivers setup (if necessary)
- Application setup
- Software manual

1.1.1 Start install menu from DVD



1.) Insert setup DVD and start the "Install.exe" file with Windows explorer

1.1.2 Start the driver and software installation

2.) Install the hardware drivers for USB devices BEFORE you plug the connector to the PC

3.) Install the application software

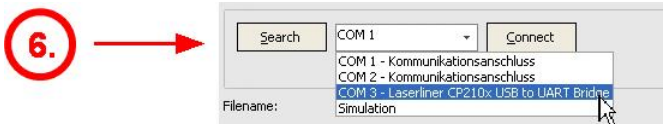
4.) Open the software user manual and study the instructions carefully and/or printout

1.1.3 Connect the instrument to the PC

Version with direct RS232-cable:

Version with Laserliner USB-adapter cable (082.071):

1.1.4 Start the application and select the desired COM port



6.) After correct driver installation and connected and powered instrument, the new COM port should appear in the COM ports list.

1.2 Installation Driver CP211x USB-Adapter

Only the Laserliner USB-adapter 082.071 needs a driver installation.
After starting the driver installation, the driver setup dialog is shown.

1.2.1 Installation with Driver Installer

2a.) Press "Install" button to proceed with the driver installation process

1.2.2 Update from older driver

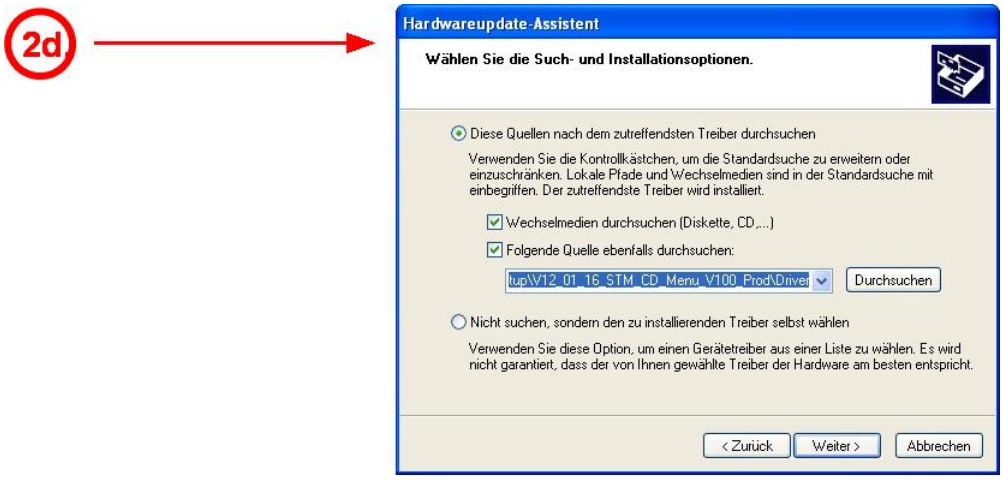
If you received the following message you have to uninstall the old driver version first. Please follow the instructions of the uninstall procedure in the control panel.

1.2.3 Plug in the USB-adapter

2b.) Plug in the USB-Adapter and power on the instrument.

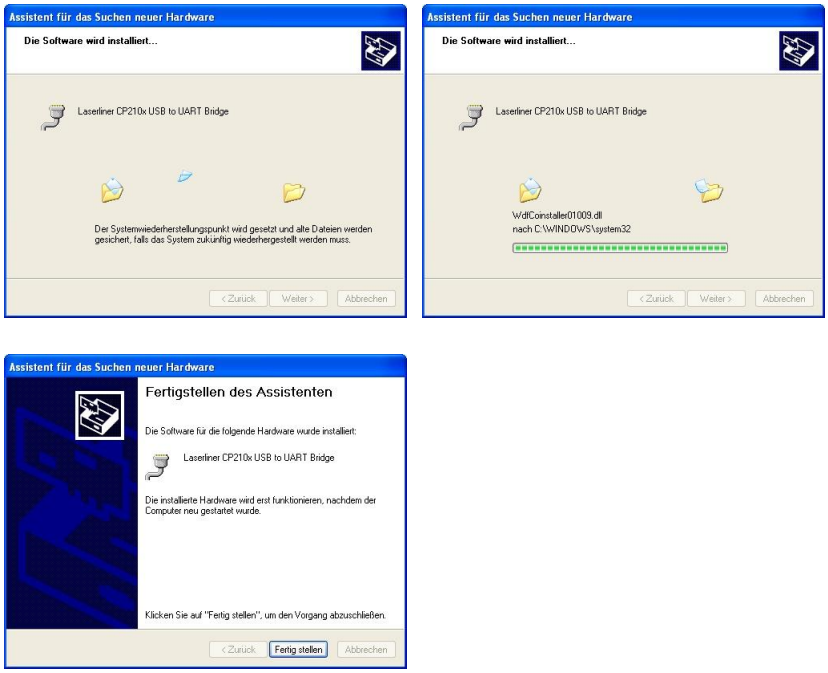
1.2.4 Install from Windows hardware dialog

On some PC you need to proceed the hardware installation dialog after plug in the USB Adapter.

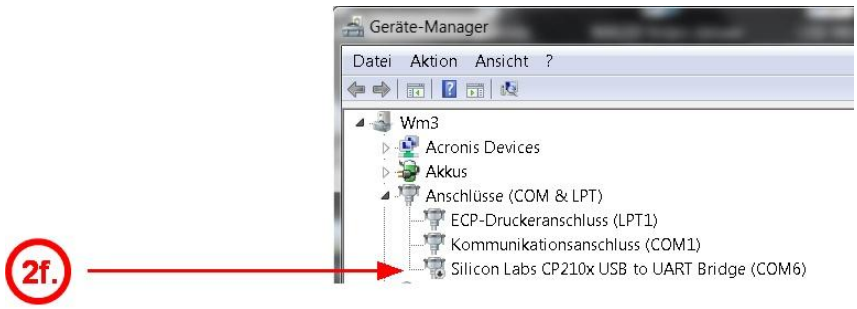


2d.) Select the path of the driver (on DVD \Driver subfolder), and proceed.

2e.) Confirm and proceed the request for security.



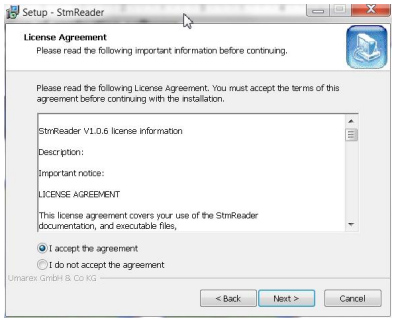
1.2.5 Check COM port after successful installation



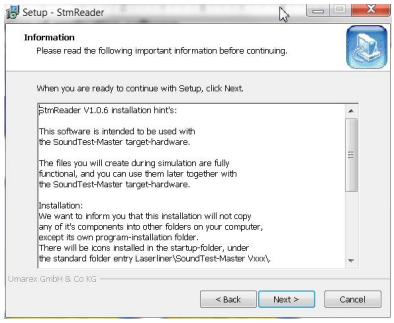
2f.) After install the new COM port must be available in the System\Hardware dialog.

1.3 Installation of application software (SetupXXX.exe)

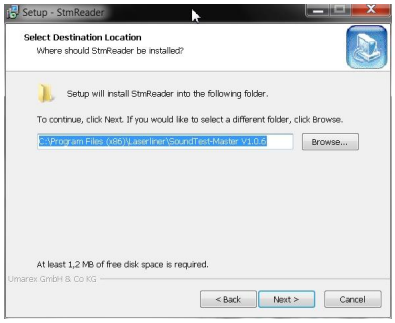
The SetupXXX.exe file includes all necessary application files, also a copy of the driver files and the manual.



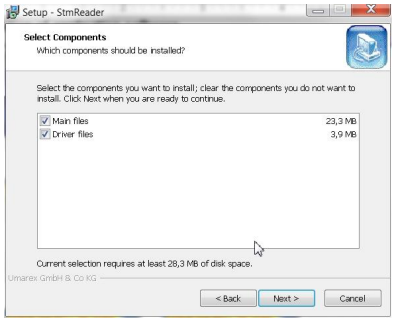
Read the license agreement.



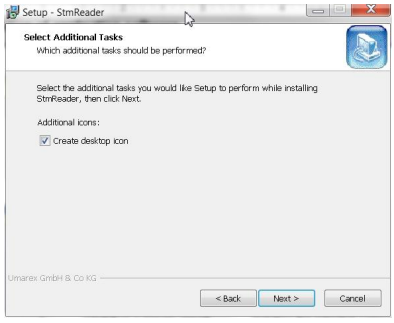
Short product information



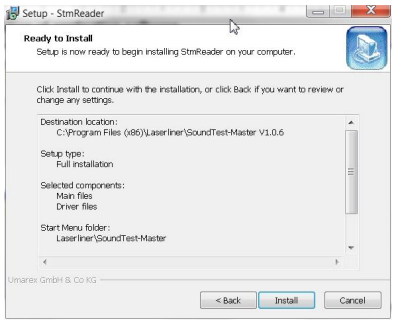
Program installation folder



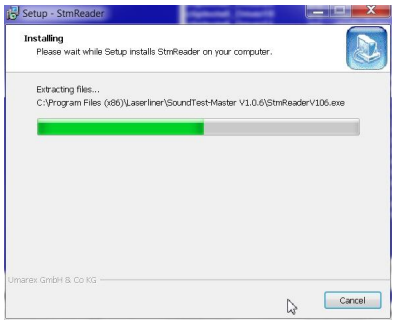
Program components



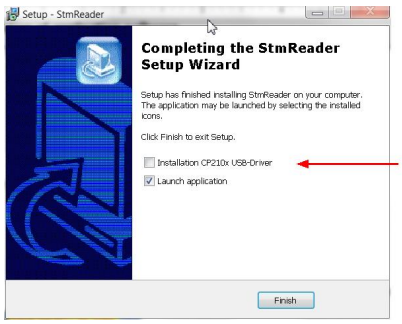
Check if a desktop icon is desired



Installation summary report



Installing the selected components ...



If driver not already pre-installed, it can be launched from here.

Launch the driver and application before exit

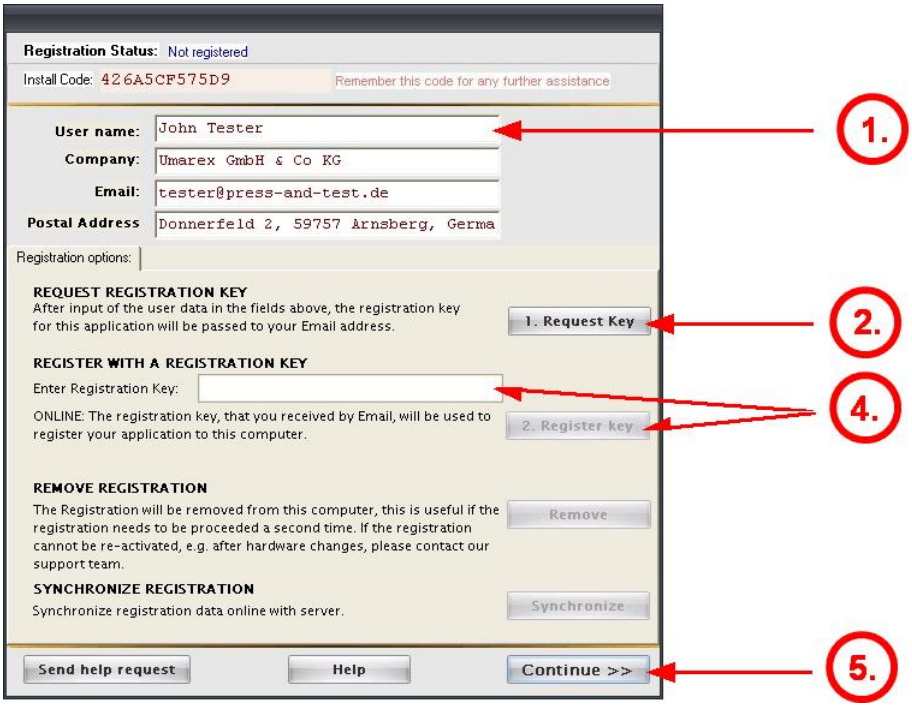
2 First run

After successful installation, the application configures at first run.

You can start the program either from the Start-menu of the OS, or from the desktop-icon is you selected to create one on the user desktop.

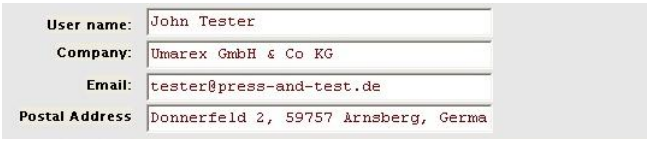
2.1 Registration procedure

After first run the registration dialog appears.
The registration can be edited with user data and a key can be requested to receive important notifications on the application or updates.
If you don't want to register you can skip this dialog by pressing the "Continue" button.



! The registration dialog needs a valid internet connection, if this is not available you can also send the registration data with the Install Code (top left) by standard mail.

2.1.1 Enter name and valid E-Mail adress



Enter a valid E-Mail adress to receive the registration key.

Then press "Request key", to send the registration data to our server.

This dialog notes that the registration was successful.

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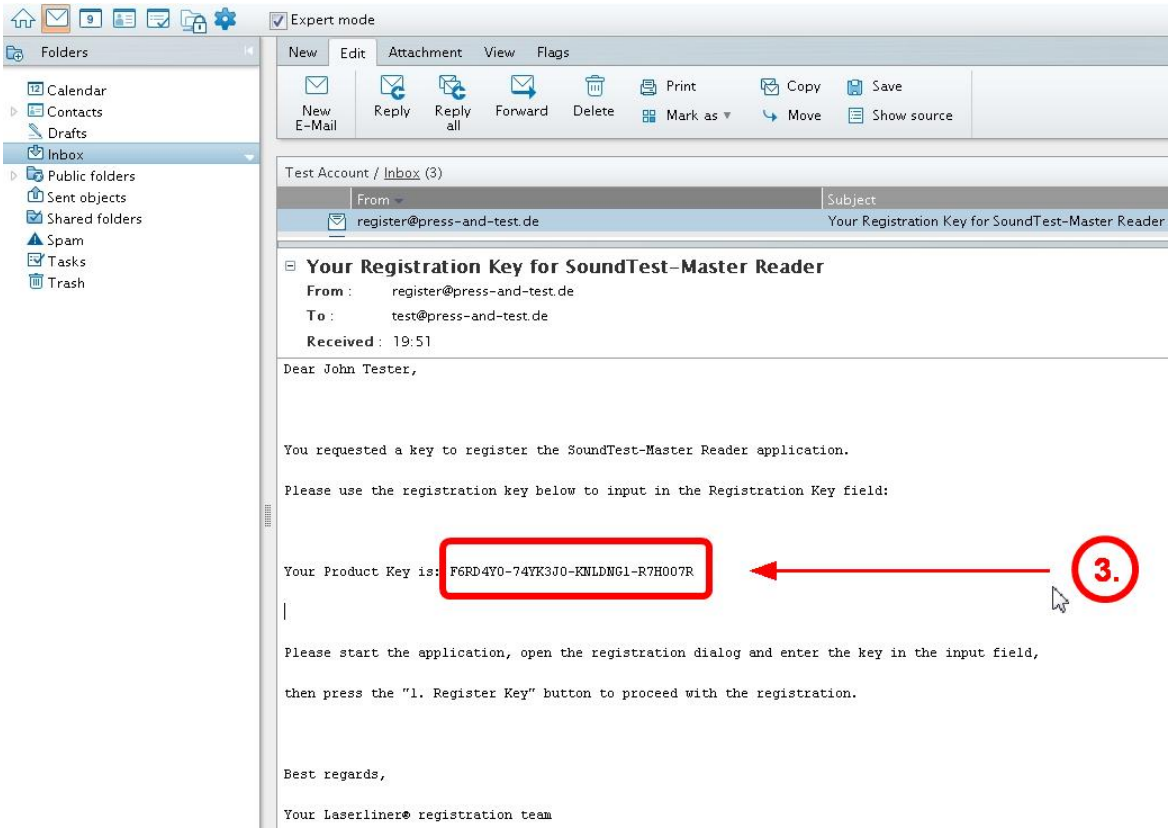
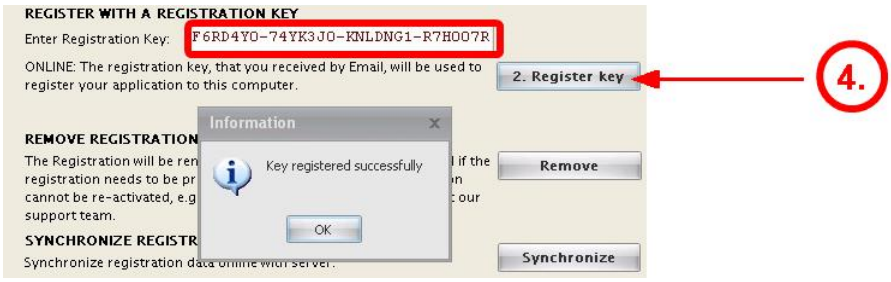
2.1.2 Receive a registration E-Mail from Laserliner server

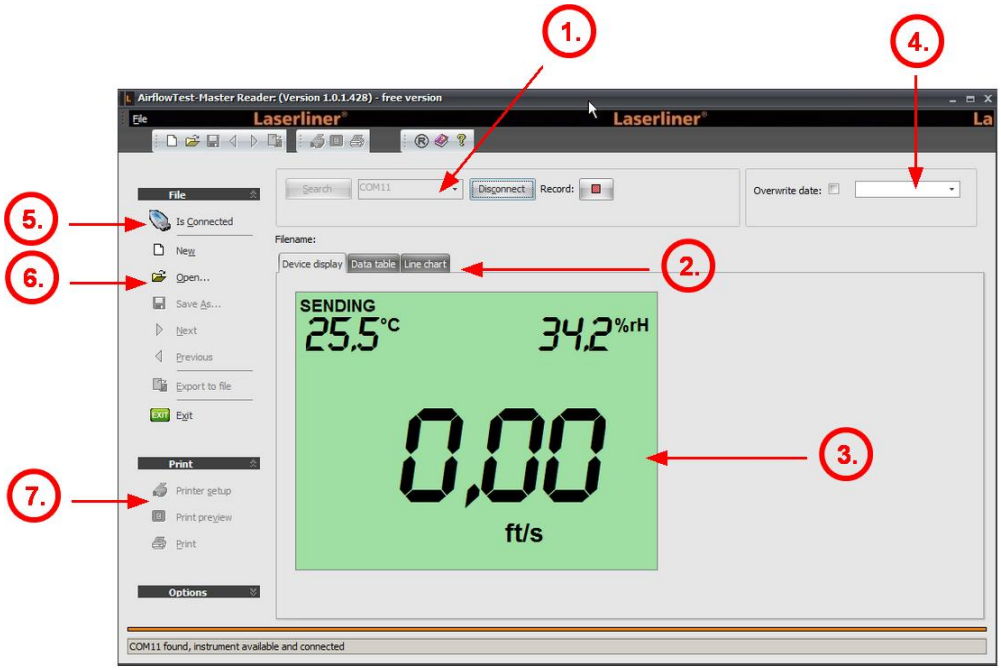


Copy and paste the "Registration key" into the Registration dialog, then press Register.



3 Basic application concepts

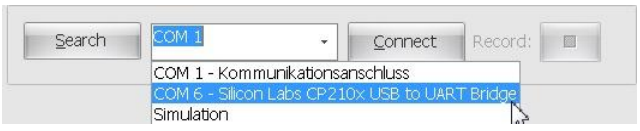
3.1 Overview



1.) Select the desired COM port and connect to a plugged instrument, record key to store.
2.) Select between the different views "Life view 11 ", "Table view 12", "Chart view 13"
3.) The "Life view 11" displays the actual status and values of the instrument
(if instrument is connected and sending data)
4.) Additional parameter for data transfer
5.) Indicator of connected and sending instrument
6.) File management 13 for recorded data
7.) Print management 16 for the recorded data

3.2 Connecting the instrument

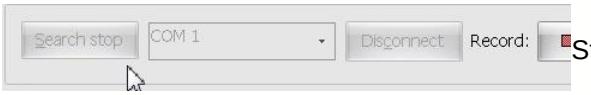
The SoundTest-Master has an unidirectional dataflow.
That means the software cannot control the dataflow from the instrument, but the user has to enable sending lifedata at the instrument (SENDING mode) before recording data.



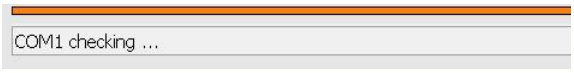
Seach	- Try to auto-search all ports and listen for incoming life data. The instrument must be connected and in SENDING mode.
COM port	- The COM port can either be searched or manually selected
Connect	- Connect or disconnect the selected COM port. If the instrument is not sending the Connect button will be marked red and the IsConnected sysmbol is greyed out. In this case the COM port might be connected, but no dataflow from the instrument was initialized.
Record	- Enable / disable recording of incoming data to table and chart

Process Auto-Search: (example)

Press Search



Start the search process ...



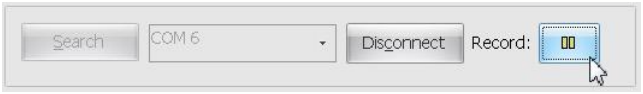
Search all available COM ports ...

...

If COM port with correct signature found

Instrument connected & data receiving

Incoming data is recorded to table & chart

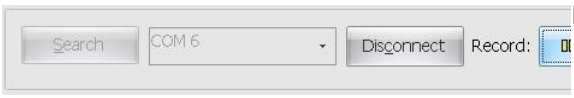


If no COM port found or
no data received (no SENDING mode)

Process maunal connection: (example)

Select a COM port and press Connect

If instrument connected and data receiving

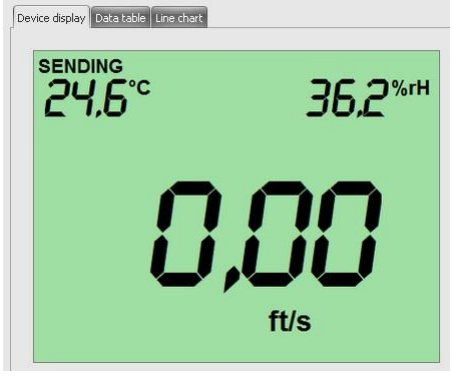


Incoming data is recorded to table & chart

COM port available but no data received
(no SENDING mode ?)

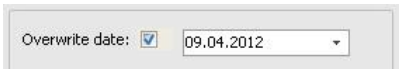
3.3 Data views

3.3.1 Life view

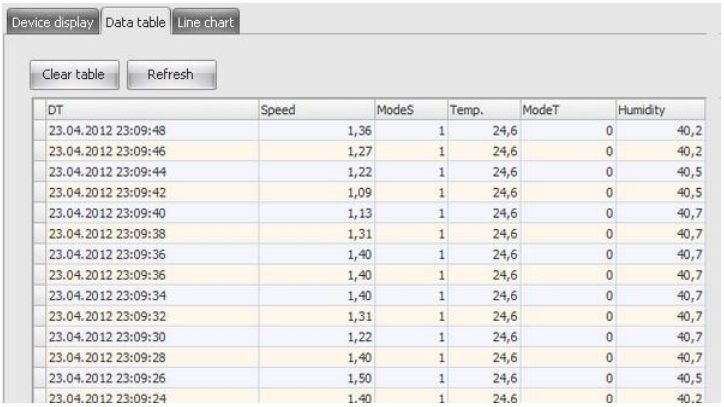


SENDING: if actual life data is received from the instrument

Use the date selection to overwrite the timestamp of the recorded data with the selected date.



3.3.2 Table view

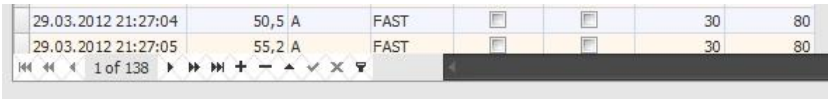


DT	Speed	ModeS	Temp.	ModeT	Humidity
23.04.2012 23:09:48	1,36	1	24,6	0	40,2
23.04.2012 23:09:46	1,27	1	24,6	0	40,2
23.04.2012 23:09:44	1,22	1	24,6	0	40,5
23.04.2012 23:09:42	1,09	1	24,6	0	40,5
23.04.2012 23:09:40	1,13	1	24,6	0	40,7
23.04.2012 23:09:38	1,31	1	24,6	0	40,7
23.04.2012 23:09:36	1,40	1	24,6	0	40,7
23.04.2012 23:09:36	1,40	1	24,6	0	40,7
23.04.2012 23:09:34	1,40	1	24,6	0	40,7
23.04.2012 23:09:32	1,31	1	24,6	0	40,7
23.04.2012 23:09:30	1,22	1	24,6	0	40,7
23.04.2012 23:09:28	1,40	1	24,6	0	40,7
23.04.2012 23:09:26	1,50	1	24,6	0	40,5
23.04.2012 23:09:24	1,40	1	24,6	0	40,2

Clear table: Clears the complete data memory for table and chart.
Refresh: Refreshes the display.

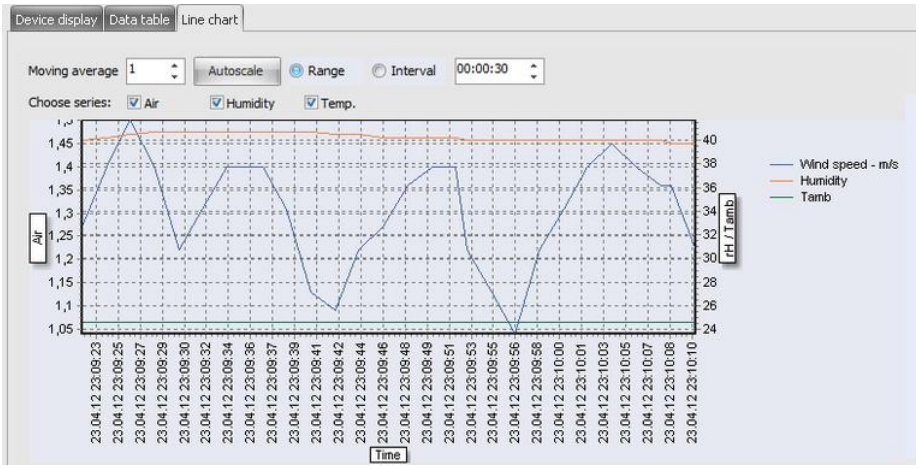
3.3.2.1 Navigator

The Navigator at the table bottom is used for data manipulation and filtering:



- Move data cursor to first data record
- Move data cursor to the previous page
- Move data cursor to the previous data record
- Move data cursor to the next data record
- Move data cursor to the next page
- Move data cursor to last data record
- Add a data record to the table manually
- Delete a data record from the table
- Edit the selected data record
- Confirm the edited changes
- Cancel the edited changes
- Apply a user filter to the table

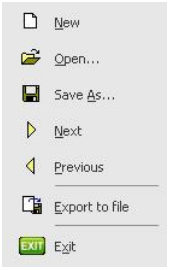
3.3.3 Chart view



Moving average - Adds an additional averaging trendline to the chart (when set to 1 the average line is removed)
Autoscale - Forces a redraw of the following scaling options
Range - Scales over the full data range (including Min/Max levels)
Interval - Scales over a defined time-range from the last value
Choose series - Select which curves to be shown in the chart

3.4 Load and save files

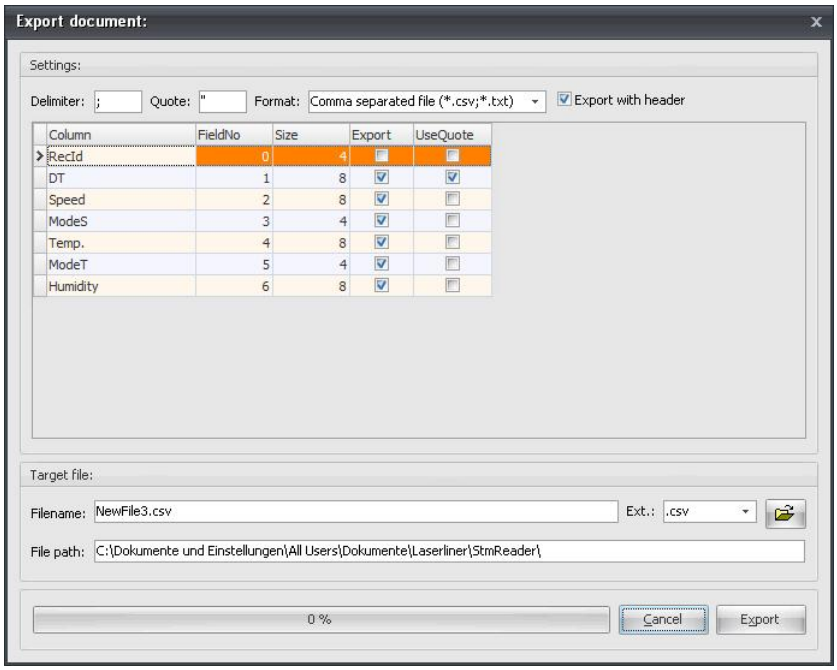
3.4.1 File manipulation



- New (file): Clear the actual document and prepare for a new data file
- Load (file): Selects and loads an existing data file from local drive
- Save as (file) Saves the actual document to the local drive
- Next (file) Selects and loads the next file in the actual folder
- Previous (file) Selects and loads the previous file in the actual folder
- Export to file Exports 14 the actual document to CSV or XML format

3.4.2 Export document

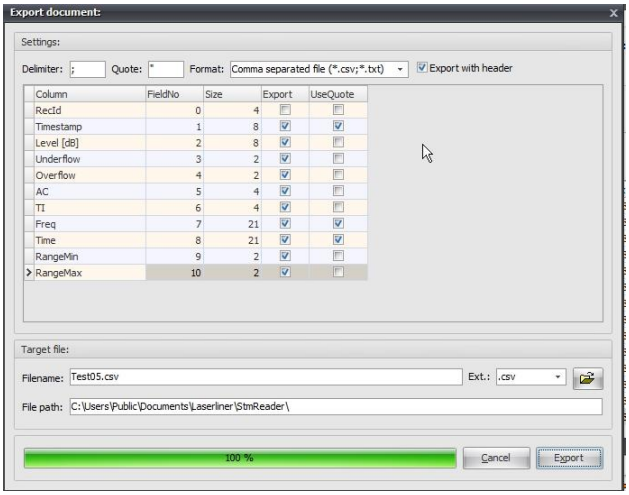
Configuration of the export parameters.



Delimiter - Defines the actual column delimiter character in the output CSV file
Quote - Defines the actual column quote character in the output CSV file
Format - Selectes the available export foirmats (CSV, XML, ...)

Column parameters:
Column - Name of the underlying dataset columns
Field no - The index of the underlying dataset columns
Size - Size of the columns datatype
Export - Choose which selection of columns should be exported
UseQuote - Choose which selection of columns should be quoted
(In the header all columns are quoted)

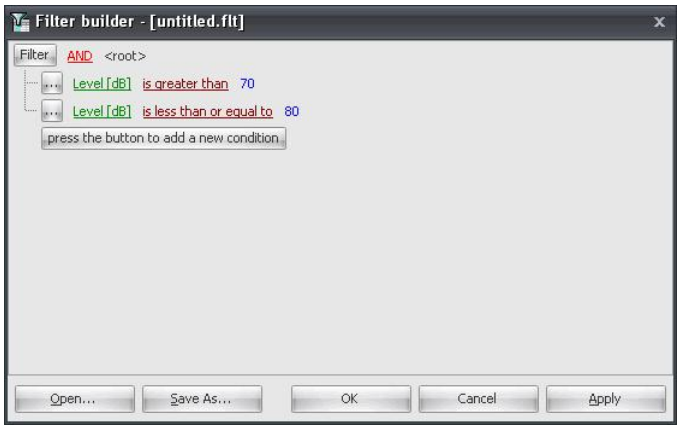
Select filename with file extension and press the Export button to export the whole dataset:



3.5 Filter data

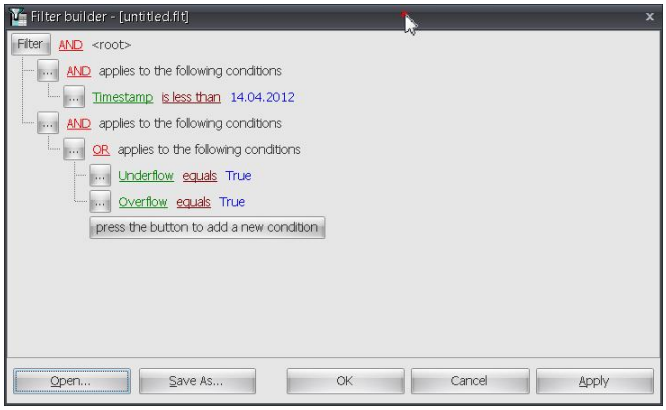
3.5.1 Open and edit a data filter

In the table view the filter symbol [ ] is used to open a custom filter.



Add new ... - to add and edit a new filter condition
Open - to open previously saved filter definitions
Save as - to save the actual filter definition to the local drive
Apply; OK - to apply the filter to the dataset and finish the dialog

A complex filter term can be constructed by adding group terms:

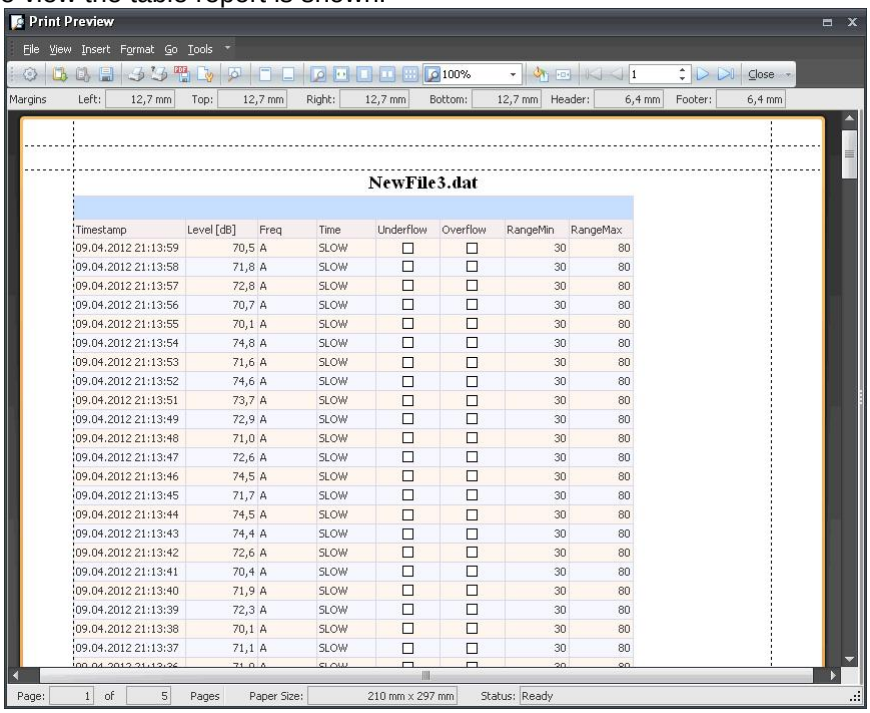


3.6 Print table and chart reports

3.6.1 Overview

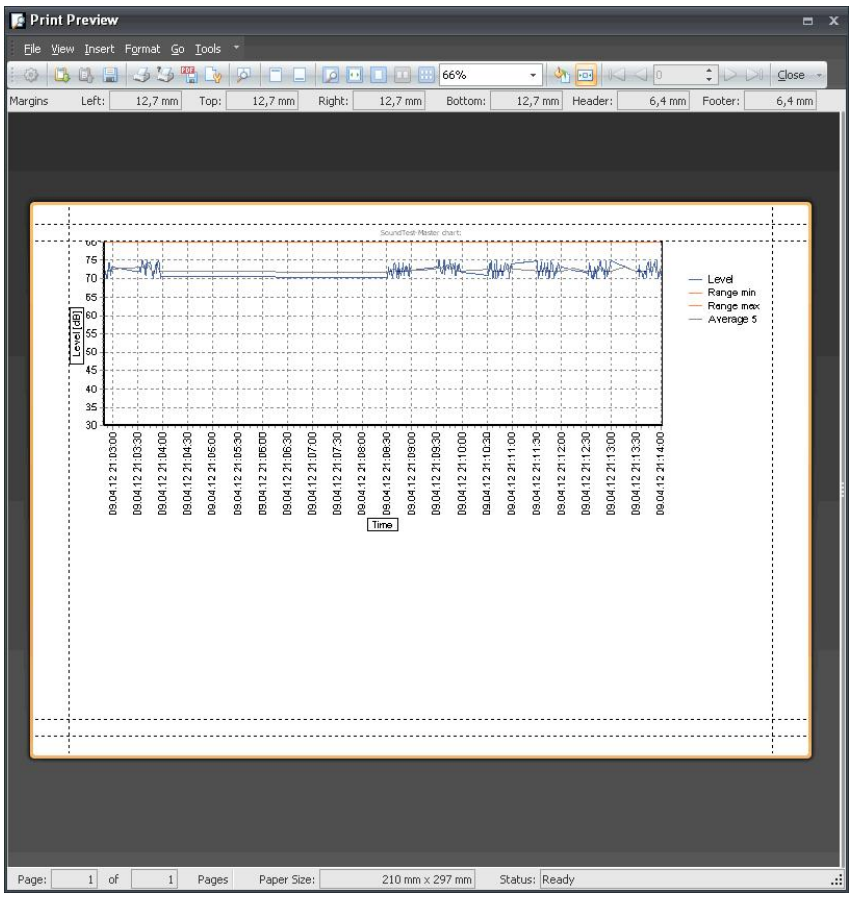
The print system activates the right report type according to the selected view. The reports can be previewd and set up with the Print preview function.

For table view the table report is shown:



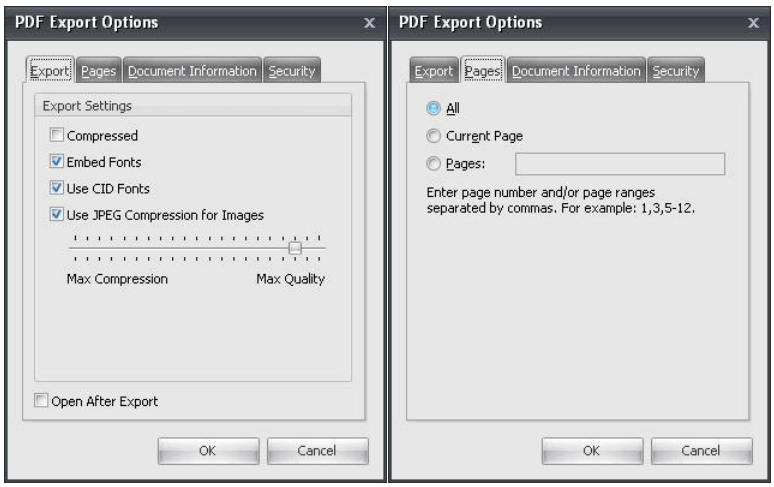
Timestamp	Level [dB]	Freq	Time	Underflow	Overflow	RangeMin	RangeMax
09.04.2012 21:13:59	70,5	A	SLOW	☐	☐	30	80
09.04.2012 21:13:58	71,8	A	SLOW	☐	☐	30	80
09.04.2012 21:13:57	72,8	A	SLOW	☐	☐	30	80
09.04.2012 21:13:56	70,7	A	SLOW	☐	☐	30	80
09.04.2012 21:13:55	70,1	A	SLOW	☐	☐	30	80
09.04.2012 21:13:54	74,8	A	SLOW	☐	☐	30	80
09.04.2012 21:13:53	71,6	A	SLOW	☐	☐	30	80
09.04.2012 21:13:52	74,6	A	SLOW	☐	☐	30	80
09.04.2012 21:13:51	73,7	A	SLOW	☐	☐	30	80
09.04.2012 21:13:49	72,9	A	SLOW	☐	☐	30	80
09.04.2012 21:13:48	71,0	A	SLOW	☐	☐	30	80
09.04.2012 21:13:47	72,6	A	SLOW	☐	☐	30	80
09.04.2012 21:13:46	74,5	A	SLOW	☐	☐	30	80
09.04.2012 21:13:45	71,7	A	SLOW	☐	☐	30	80
09.04.2012 21:13:44	74,5	A	SLOW	☐	☐	30	80
09.04.2012 21:13:43	74,4	A	SLOW	☐	☐	30	80
09.04.2012 21:13:42	72,6	A	SLOW	☐	☐	30	80
09.04.2012 21:13:41	70,4	A	SLOW	☐	☐	30	80
09.04.2012 21:13:40	71,9	A	SLOW	☐	☐	30	80
09.04.2012 21:13:39	72,3	A	SLOW	☐	☐	30	80
09.04.2012 21:13:38	70,1	A	SLOW	☐	☐	30	80
09.04.2012 21:13:37	71,1	A	SLOW	☐	☐	30	80

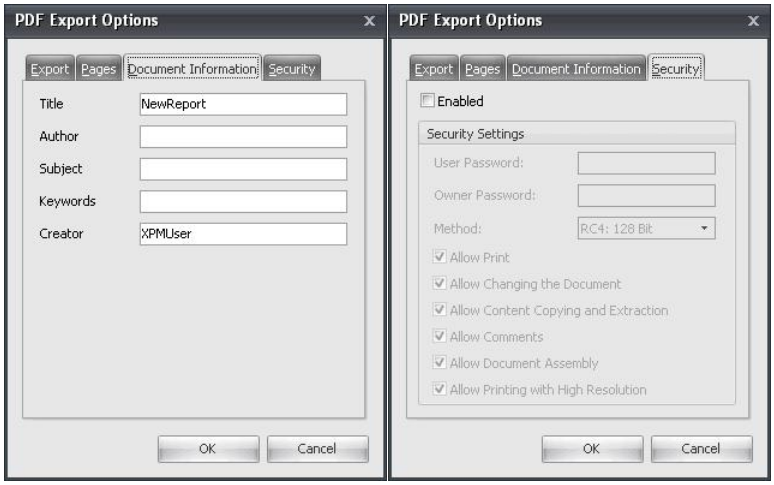
For the chart view the chart report is shown:



3.6.2 Report options

Load/Save:	Active report can be stored and re-loaded from local harddrive
Print	Active report can be printed from the report print preview
Export to PDF	Active report can be exported as PDF file, with additional PDF options:





Zoom options To fit document to paper, to print and view on one or several pages.
Title option Allows adding a report title
Footnote option Allows adding report footnotes

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