

User manual:

SoundTest-Master Reader

Management software for SoundTest-Master
soundlevel meter



Table of contents

.	0
Part I Installation	2
1 Basic installation procedure	2
Start install menu from DVD	2
Start the driver and software installation	2
Connect the instrument to the PC	2
Start the application and select the desired COM port	3
2 Installation Driver CP211x USB-Adapter	3
Installation with Driver Installer	3
Update from older driver	3
Plug in the USB-adapter	3
Install from Windows hardware dialog	4
Check COM port after successful installation	5
3 Installation of application software (SetupXXX.exe)	6
Part II First run	7
1 Registration procedure	7
Enter name and valid E-Mail address	7
Receive a registration E-Mail from Laserliner server	8
Part III Basic application concepts	9
1 Overview	9
2 Connecting the instrument	9
3 Data views	10
Life view	10
Table view	11
Navigator	11
Chart view	11
4 Load and save files	12
File manipulation	12
Export document	12
5 Filter data	13
Open and edit a data filter	13
6 Print table and chart reports	14
Overview	14
Report options	15
Index	16

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

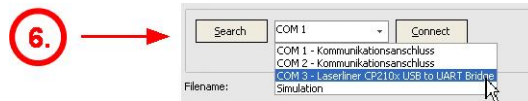
Version with direct RS232-cable:



Version with Laserliner USB-adapter cable (082.071):



1.1.4 Start the application and select the desired COM port



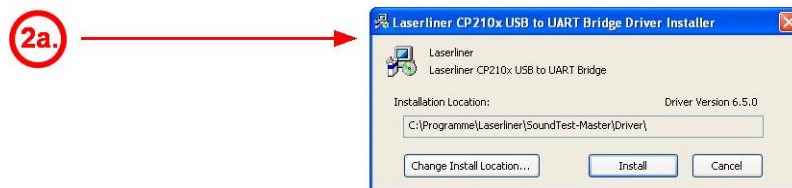
6.) After correct driver installation and connected and powered instrument, the new COM port should appear in the COM ports list.

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

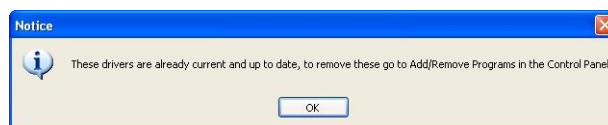


2a.) Press "Install" button to proceed with the driver installation process



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.



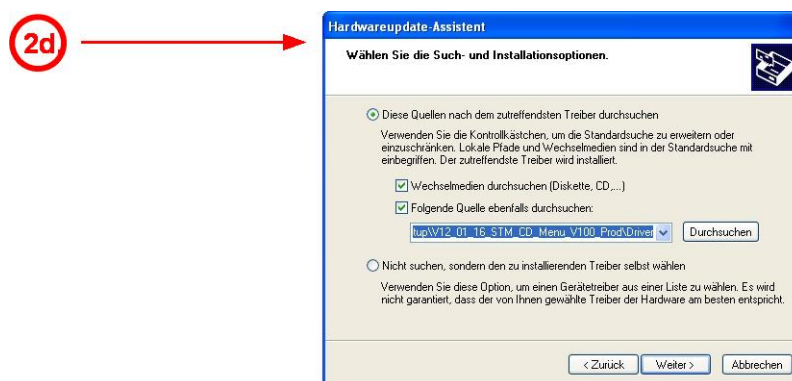
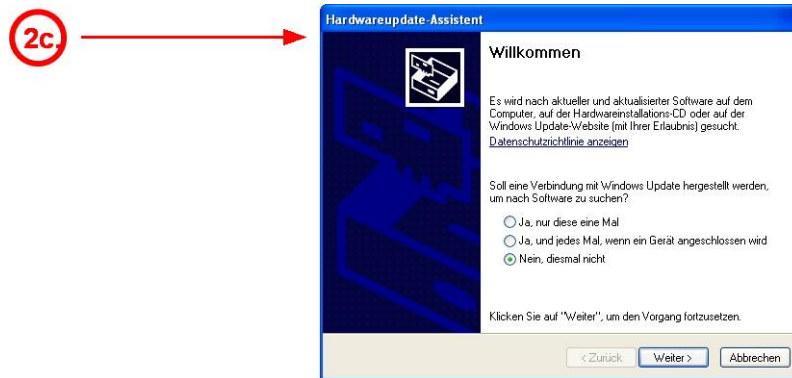
1.2.3 Plug in the USB-adapter



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

1.2.4 Install from Windows hardware dialog

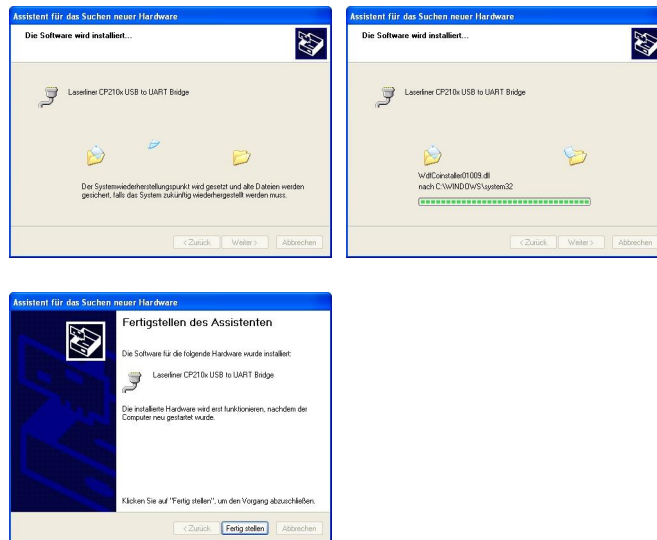
On some PC you need to proceed the hardware installation dialog after plug in the USB Adapter.



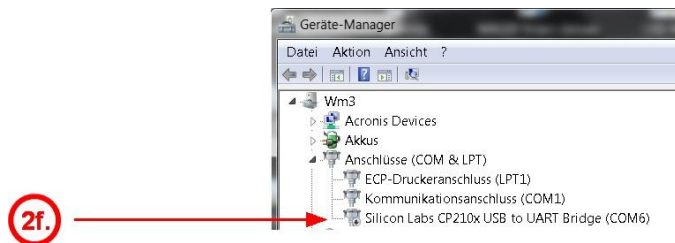
2d.) Select the path of the driver (on DVD \Driver subfolder), and proceed.



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



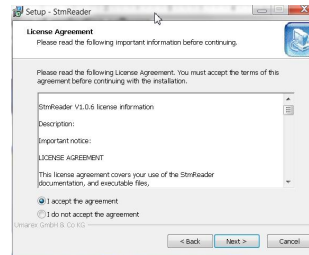
1.2.5 Check COM port after successful installation



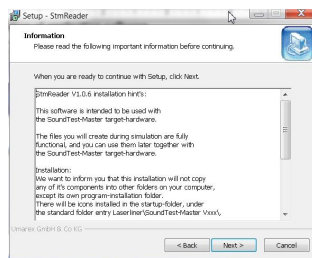
2f.) After install the new COM port must be available in the System\Hardware dialog.

1.3 Installation of application software (SetupXXX.exe)

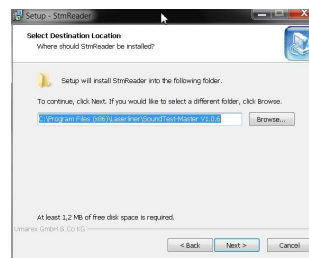
The SetupXXX.exe file includes all necessary application files, also a copy of the driver files and the manual.



Read the license agreement.



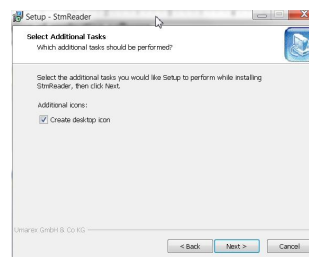
Short product information



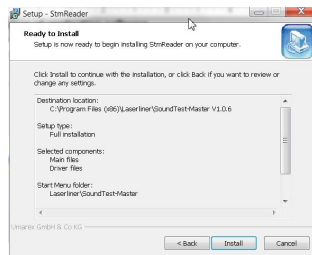
Program installation folder



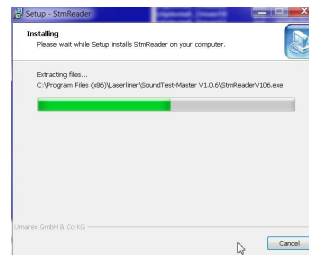
Program components



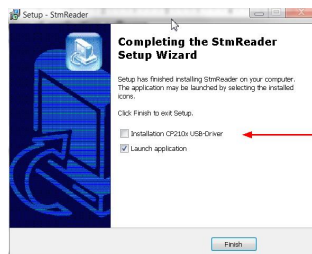
Check if a desktop icon is desired



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 screenshot shows the registration dialog box with the following fields and options:

- Registration Status:** Not registered
- Install Code:** 426A5CP575D9 (Remember this code for any further assistance)
- User name:** John Tester (Callout 1)
- Company:** Umarex GmbH & Co KG
- Email:** tester@press-and-test.de
- Postal Address:** Donnerfeld 2, 59757 Arnsberg, Germa
- Registration options:**
 - REQUEST REGISTRATION KEY:** After input of the user data in the fields above, the registration key for this application will be passed to your Email address. (Callout 2) **1. Request Key**
 - REGISTER WITH A REGISTRATION KEY:** Enter Registration Key: (Callout 4) **2. Register key**
 - REMOVE REGISTRATION:** The Registration will be removed from this computer, this is useful if the registration needs to be proceeded a second time. If the registration cannot be re-activated, e.g. after hardware changes, please contact our support team. **Remove**
 - SYNCHRONIZE REGISTRATION:** Synchronize registration data online with server. **Synchronize**
- Buttons:** Send help request, Help, Continue >> (Callout 5)

! 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 address

User name:	John Tester
Company:	Umarex GmbH & Co KG
Email:	tester@press-and-test.de
Postal Address:	Donnerfeld 2, 59757 Arnsberg, Germa

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

REQUEST REGISTRATION KEY
After input of the user data in the fields above, the registration key for this application will be passed to your Email address.

1. Request Key

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

Information

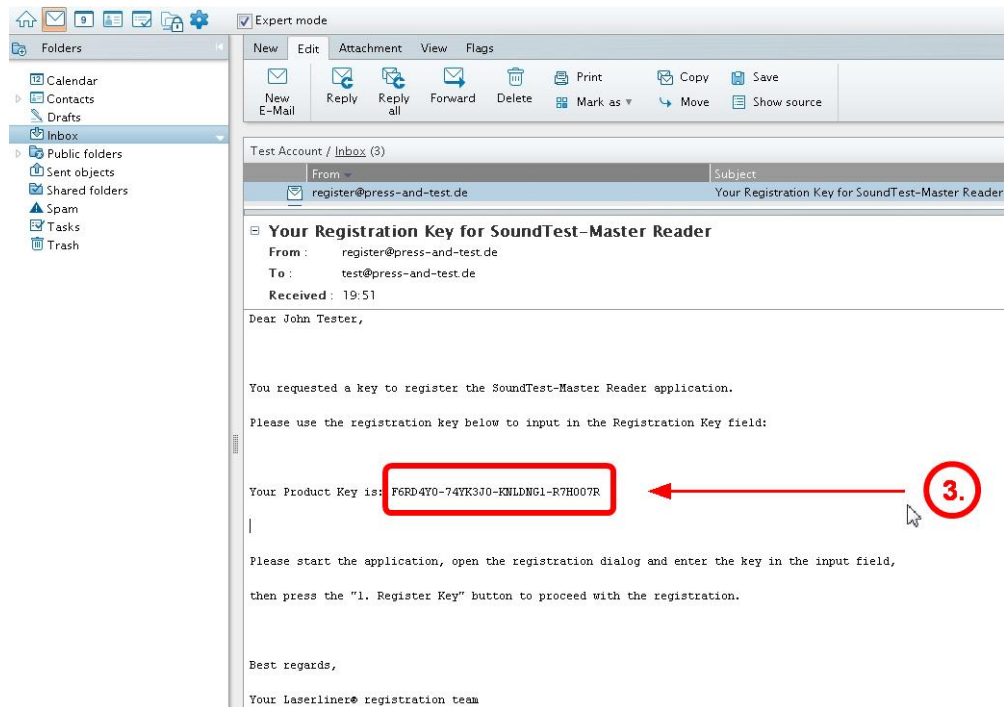
Thank you very much.
Your registration is beeing processed.

You will receive an email with your Registration Key soon.
Please use this registration key to register your application.

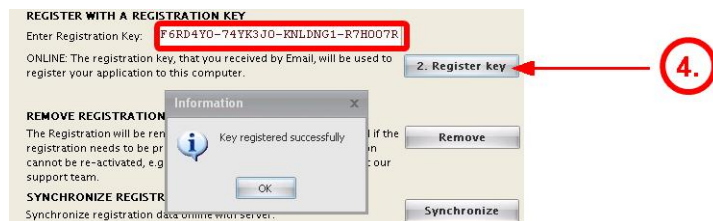
OK

This dialog notes that the registration was successful.

2.1.2 Receive a registration E-Mail from Laserliner server

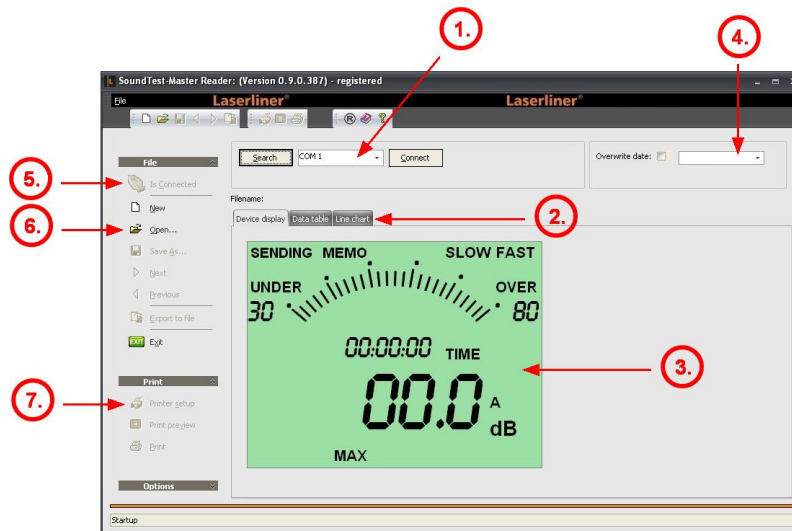


Copy and paste the "Registration key" into the Registration dialog, then press Register.



3 Basic application concepts

3.1 Overview

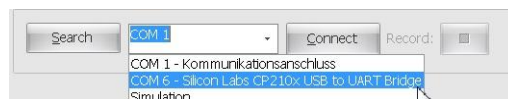


- 1.) Select the desired COM port and connect to a plugged instrument
- 2.) Select between the different views "[Life view](#)^[10]", "[Table view](#)^[11]", "[Chart view](#)^[11]"
- 3.) The "[Life view](#)^[10]" displays the actual status and values of the instrument (if instrument is connected and sending data)
- 4.) Additional parameter for data transfer
- 5.) Indicator of connected and sending instrument
- 6.) [File management](#)^[12] for recorded data
- 7.) [Print management](#)^[14] for the recorded data

3.2 Connecting the instrument

The SoundTest-Master has an unidirectional dataflow.

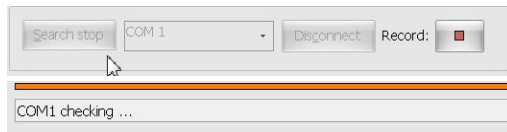
That means the software cannot control the dataflow from the instrument, but the user has to enable sending lifedata at the instrument (SENDING mode) before recording data.



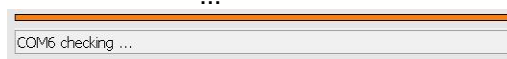
- | | |
|----------|--|
| Search | - Try to auto-search all ports and listen for incoming life data.
The instrument must be connected and in SENDING mode. |
| COM port | - The COM port can either be searched or manually selected |
| Connect | - Connect or disconnect the selected COM port.
If the instrument is not sending the Connect button will be marked red and the IsConnected symbol 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)

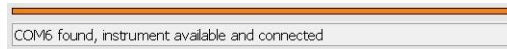
Press Search



Start the search process ...



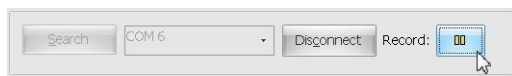
Search all available COM ports ...



If COM port with correct signature found



Instrument connected & data receiving



Incoming data is recorded to table & chart



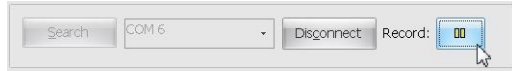
If no COM port found or no data received (no SENDING mode)

Process manual 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 ?)

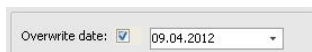
3.3 Data views

3.3.1 Life view



SENDING: if actual life data is received from the instrument
 MEMO: if recorded 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

Timestamp	Level [dB]	Freq	Time	Underflow	Overflow	RangeMin	RangeMax
09.04.2012 21:04:03	41,1 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:04:02	42,6 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:04:01	43,0 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:04:00	43,7 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:03:59	70,6 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:03:58	70,6 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:03:57	70,2 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:03:56	73,2 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:03:55	74,4 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:03:54	74,8 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:03:53	74,5 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:03:52	71,3 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:03:51	74,2 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80

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

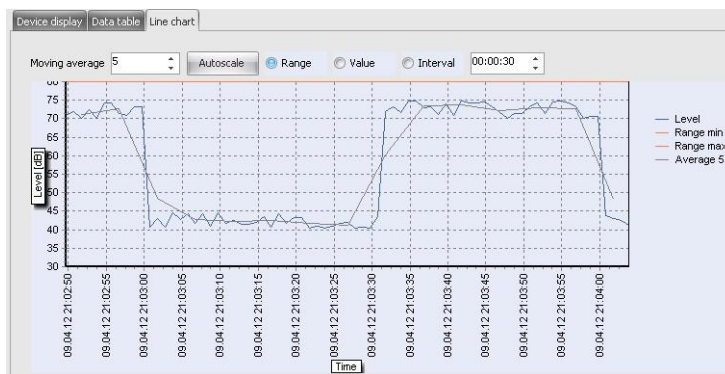
3.3.2.1 Navigator

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)
- Value - Scales over the full data range (only the level curve)
- Interval - Scales over a defined time-range from the last value

3.4 Load and save files

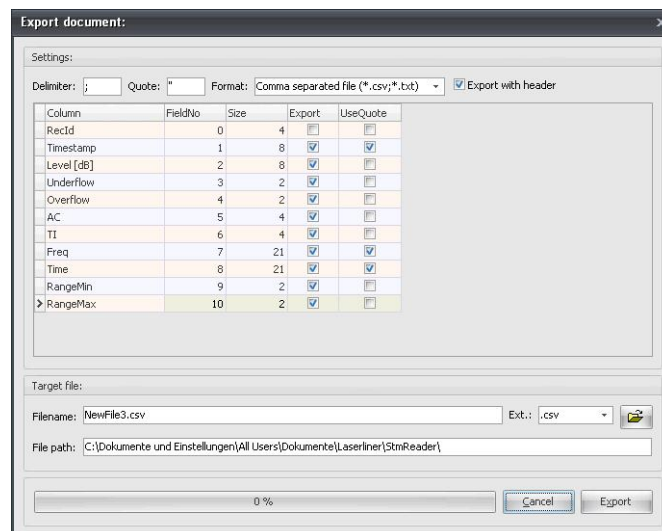
3.4.1 File manipulation



- 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](#)^[12] the actual document to CSV or XML format

3.4.2 Export document

Configuration of the export parameters.

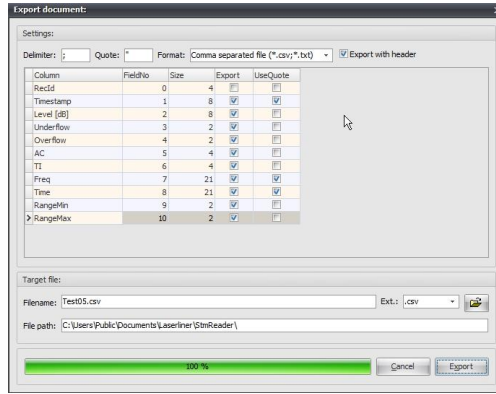


- Delimiter - Defines the actual column delimiter character in the output CSV file
- Quote - Defines the actual column quote character in the output CSV file
- Format - Selectes the available export foirmats (CSV, XML, ...)

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

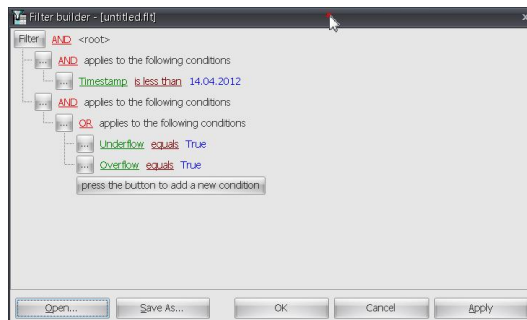
3.5.1 Open and edit a data filter

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

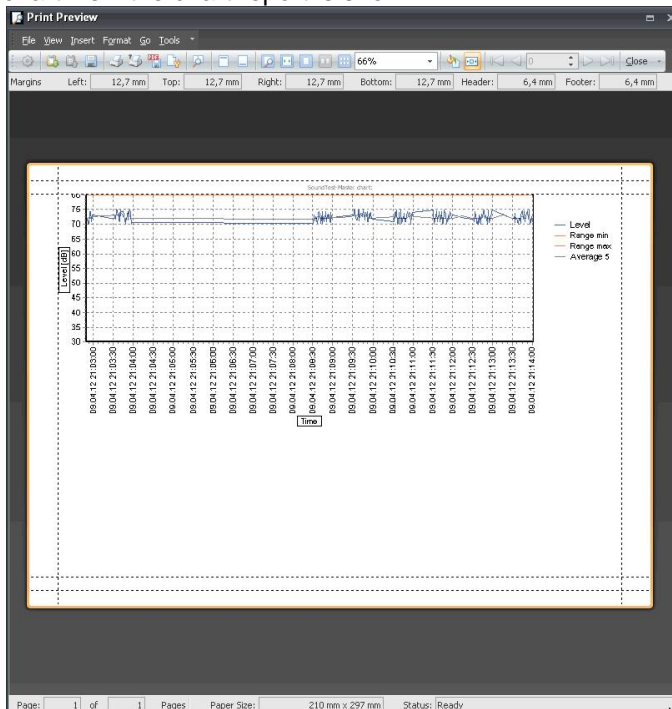


The print system activates the right report type according to the selected view. The reports can be previewd and set up with the Print preview function.

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		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:58	71,8 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:57	72,8 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:56	70,7 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:55	70,1 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:54	74,8 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:53	71,6 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:52	74,6 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:51	73,7 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:49	72,9 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:48	71,0 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:47	72,6 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:46	74,5 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:45	71,7 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:44	74,5 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:43	74,4 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:42	72,6 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:41	70,4 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:40	71,9 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:39	72,3 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:38	70,1 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:37	71,1 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80
09.04.2012 21:13:36	71,8 A	SLOW		<input type="checkbox"/>	<input type="checkbox"/>	30	80

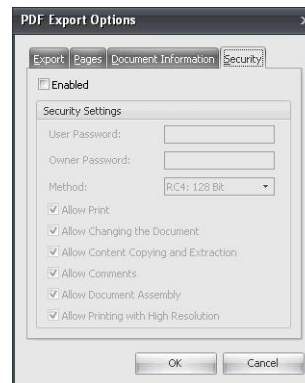
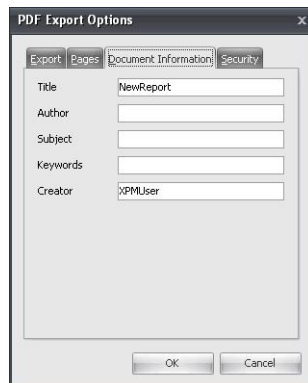
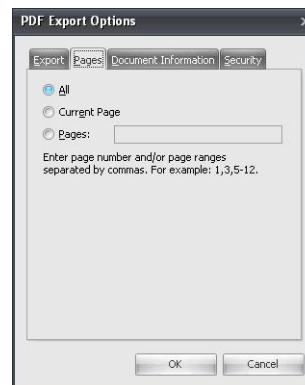
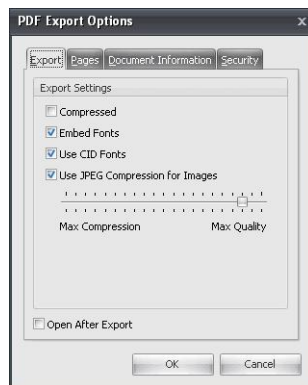
For the chart view the chart report is shown:



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

Index

- A -

Application 6, 9
Apply filter 13
Autoscale 11
Auto-Search 9

- B -

Basic concepts 9
Basic procedures 2

- C -

Chart report 14, 15
Chart view 11
Check COM port 5
Column 12
Connect 3
Connect instrument 2
Connecting 9
Connector 2, 3

- D -

Dataset 13
Delete 11
Delimiter 12
Desktop icon 7
Document 12, 13
Driver Installer 3
DVD 2
DVD contents 2

- E -

Edit 11
Export document 12
Export to PDF 15

- F -

Field no 12
File management 12
Filter 11, 13
First run 7
Footnote 15
Format 12

- H -

Hardware dialog 4
Hardware panel 5

- I -

Install menu 2
Installation 2, 3
Installation software 6
Installation USB 3, 4, 5
Internet connection 7
Interval scale 11

- L -

Life data 10
Life view 10
Load 12
Logo Test 4

- N -

Navigator 11

- O -

Old driver 3

- P -

Parameters 12
PDF export 15
Plug connector 3
Print management 14, 15
Print preview 14, 15

- Q -

Quote 12

- R -

Range scale 11
Recorded data 10
Register key 8
Registration mail 7, 8
Registration procedure 7, 8
Reports 14, 15
Request key 7
RS232 Adapter 2

- S -

Save 12
Search COM port 9
Select COM port 3
Send data 9
Sending life data 10
SENDING mode 9
Sending recorded data 10
Size 12
Start install menu 2
Start menu 7

- T -

Table report 14, 15

Table view 11

Title 15

- U -

Uninstall driver 3

USB 3, 4, 5

USB Adapter 2

UseQuote 12

User data 7

- V -

Value scale 11

Views 10, 11

- W -

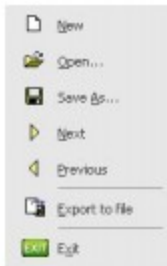
Windows hardware dialog 4

Windows Logo Test 4

- Z -

Zoom 15

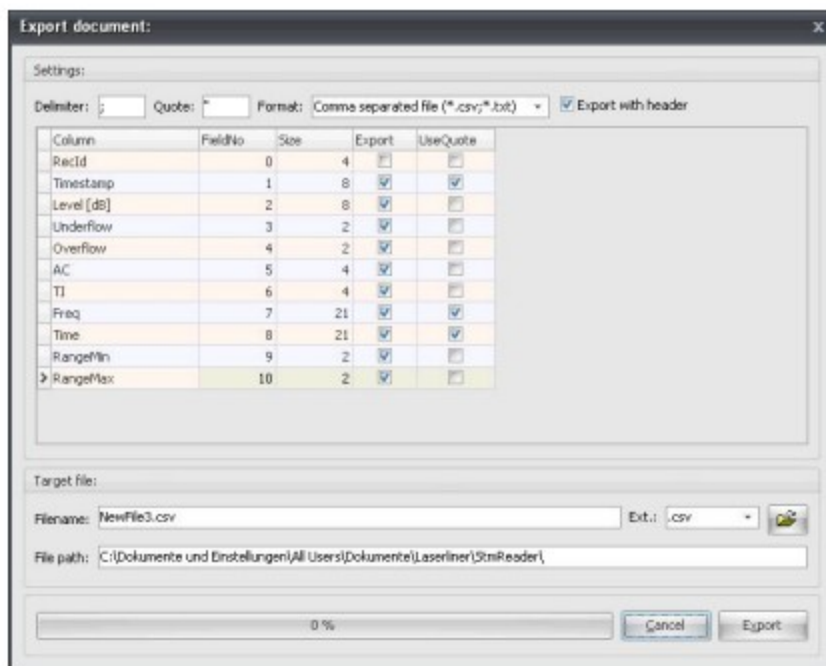
3.4.1 File manipulation



- 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^[12] 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)