

# SRM-3006 Tools PC Software

## For SRM-3006 Series Selective Radiation Meter

Operating Manual



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# Contents

## OPERATING INSTRUCTIONS

<b>1</b>	<b>About this Help</b>	<b>1</b>
	Screen designations . . . . .	1
	Terminology . . . . .	2
<b>2</b>	<b>Connecting the SRM-3006 to the PC</b>	<b>3</b>
<b>2.1</b>	<b>Using the USB connector on the PC.</b>	<b>3</b>
	Retroactive installation of the USB driver . . . . .	4
	Making the USB connection . . . . .	5
	If the connection does not work . . . . .	5
<b>2.2</b>	<b>Using the serial interface on the PC.</b>	<b>6</b>
	If the connection does not work . . . . .	6
<b>3</b>	<b>Changing the Settings and adjusting the user interface</b>	<b>7</b>
<b>3.1</b>	<b>Customizing the side windows</b>	<b>7</b>
	Showing / hiding the side windows . . . . .	7
	Moving the side windows to any position . . . . .	8
	Re-docking a window . . . . .	8
	Displaying the window contents . . . . .	8
	Restoring the default view . . . . .	9
<b>3.2</b>	<b>Changing the graphical display</b>	<b>9</b>
	Changing the scale . . . . .	9
	Changing the units and the curve style . . . . .	10
	Resetting all changes . . . . .	10
<b>4</b>	<b>Managing configuration data</b>	<b>11</b>
<b>4.1</b>	<b>Loading and saving configuration data</b>	<b>12</b>
	Exchanging configuration data between the SRM-3006 and the PC . . . . .	12
	Loading all configuration data from the PC or saving it to the PC . . . . .	13
	Importing individual configuration data . . . . .	13
	Copying contents to the clipboard . . . . .	14
<b>4.2</b>	<b>General information on editing configurations</b>	<b>15</b>
	Tips on editing data sets . . . . .	15
	Tips on editing values . . . . .	15

<b>4.3</b>	<b>Creating and editing antenna configurations</b>	<b>17</b>
	Recording a new antenna	17
	Deleting an antenna	17
	Copying an antenna configuration	17
	Entering a new calibration point	18
	Editing a calibration point	18
	Deleting a calibration point	18
<b>4.4</b>	<b>Creating and editing cable configurations</b>	<b>18</b>
	Recording a new cable	18
	Deleting a cable	19
	Copying a cable configuration	19
	Entering a new value	19
	Editing values	20
<b>4.5</b>	<b>Creating and editing measurement standards</b>	<b>20</b>
	Creating a new standard	20
	Deleting a standard	20
	Duplicating a standard	20
	Copying a standard	21
	Entering a new value	21
	Editing values	22
<b>4.6</b>	<b>Creating and editing service tables</b>	<b>22</b>
	Recording a new service table	22
	Deleting a service table	22
	Copying a service table	22
	Entering a new value	23
	Editing values	24
	Generating channel numbers	24
<b>4.7</b>	<b>Editing setups</b>	<b>25</b>
	Deleting a setup	25
	Copying a setup	25
<b>4.8</b>	<b>Creating and editing measurement routines</b>	<b>26</b>
	Recording a new measurement routine	26
	Deleting a measurement routine	26
	Copying a measurement routine	26
	Entering a new setup	27
	Editing routines	27
	Deleting a value	27

<b>5</b>	<b>Managing and evaluating measurement data</b>	<b>28</b>
5.1	Loading and saving measurement data	28
	Uploading measurement data from the measuring set.	28
	Copying contents to the clipboard	29
	Exporting data sets to a csv file	29
	Importing measurement data from a csv file.	30
5.2	Replaying a voice comment	30
<b>6</b>	<b>Updating the SRM-3006 firmware and activating options</b>	<b>31</b>
6.1	Updating the SRM-3006 firmware	31
6.2	Activating options	31

## FUNCTION OVERVIEW

<b>1</b>	<b>User interface overview</b>	<b>33</b>
<b>2</b>	<b>Menu bar</b>	<b>34</b>
2.1	File	34
2.2	Configuration	35
	Icon bar.	35
	Main windows.	35
	Pull-out menus	35
2.3	Database	36
	Icon bar.	36
	Main window.	36
	Pull-out menus	36
2.4	Options	36
	Icon bar.	36
<b>3</b>	<b>Icon bar</b>	<b>37</b>
3.1	Activate Options	37
3.2	Category Details	38
3.3	Communication	38
3.4	Device	38
3.5	Edit Library or Configuration.	39
3.6	Export	39
3.7	Firmware Update	39

3.8	Import/Export .....	40
3.9	Information .....	41
3.10	Reset Actual Window Layout .....	41
3.11	Reset All Window Layouts .....	41
3.12	Save Device Info .....	41
3.13	Selection .....	42
3.14	Settings .....	42
	Date / Time .....	42
	Directories .....	43
	Miscellaneous .....	43
	CSV Export .....	43
	GPS .....	43
3.15	SW Update .....	43
<b>4</b>	<b>The Configuration menu – Main window</b>	<b>45</b>
4.1	Antenna .....	45
4.2	Cable .....	47
4.3	Standard .....	48
4.4	Service Table .....	49
	Service Table Information .....	49
	Service Table .....	49
	Add new Item .....	49
	Create Channels .....	50
4.5	Setup .....	50
4.6	Measurement Routine .....	50
<b>5</b>	<b>The Database menu – Main window</b>	<b>52</b>
5.1	Values device memory .....	52
<b>6</b>	<b>Side window</b>	<b>53</b>
6.1	Configuration window .....	53
6.2	Library window .....	53
6.3	Graph view window .....	53
6.4	Data View Options window – Configuration .....	54
	Default .....	54
	Graphical Zoom .....	54
	Units .....	54
	Style .....	54

6.5	Device Memory window . . . . .	55
6.6	General information window . . . . .	55
<b>7</b>	<b>Status bar</b>	<b>56</b>
	<b>Index</b>	<b>57</b>





# OPERATING INSTRUCTIONS

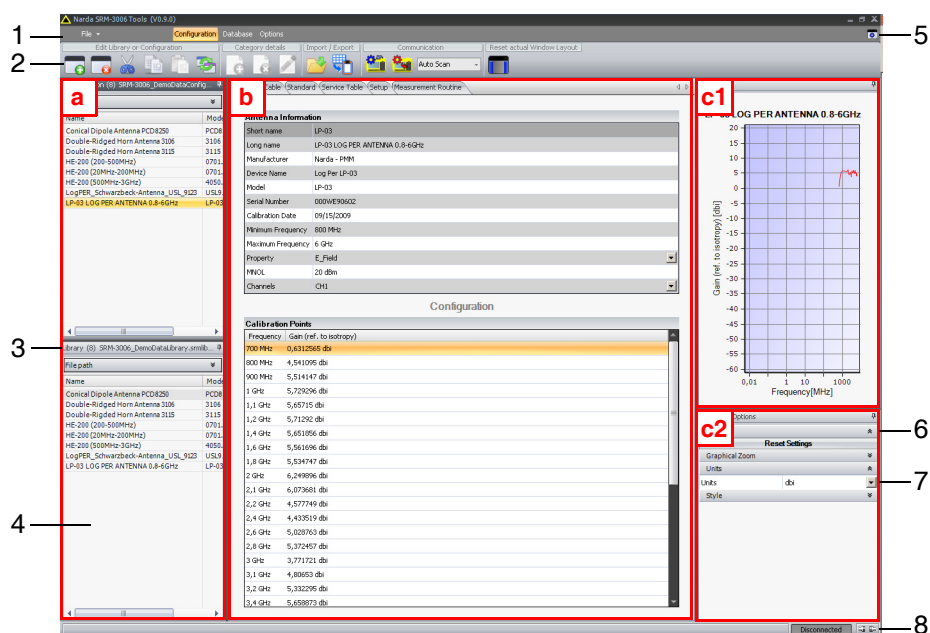
This chapter gives detailed information about using the PC software.  
For a full description of all menus, windows and functions, see the [Function Overview \(page 33\)](#).

## 1 About this Help

In this section of Help you will find information on how to operate the PC software. Many functions are self-explanatory. If you want to carry out a particular task, you will be able to find what you need quickly using the following instructions. Where necessary, links are provided to the particular function in the function overview.

The [Function Overview \(page 33\)](#) contains a complete description of all the possible functions of the PC software.

## Screen designations



No.	Function	No.	Function
1	Menu bar	5	Settings quick launch icon
2	Icon bar	6	Drop-down bar; click to open the drop-down menu
3	Window bar	7	Drop-down field
4	Window	8	Info bar

No.	Function
<b>a</b>	Left frame
<b>b</b>	Main frame with categories
<b>c</b>	Right frame; divided into two parts in some categories

## Terminology

The following terms are used in this online Help:

Term	Meaning
<b>Data set</b>	A selectable set of data within the measurement data, e.g.: <ul style="list-style-type: none"><li>• Antennas: 3-axis</li><li>• Cables: Environflex 400 5m</li></ul> A data set can contain measurement data as well as configuration data. If necessary, these terms will be used to distinguish between the two: measurement data set, configuration data set.
<b>Drop-down field</b>	Drop-down field for selecting values, parameters, units, etc.
<b>Drop-down bar</b>	The header part of a drop-down menu within a window.
<b>Window</b>	The window within the frame.
<b>Window bar</b>	The header part of a window. To move a window, drag the window bar to the desired position using the mouse.
<b>Category</b>	The selection window in the main frame, e.g. <b>Antenna</b>
<b>Metadata</b>	The information about a data set, e.g. Name, Calibration date, etc.
<b>Frame</b>	One of the three main sections of the screen (see <a href="#">Screen designations (page 1)</a> )
<b>Values</b>	The (editable) data within a data set, e.g. the calibration points of an antenna.

## 2 Connecting the SRM-3006 to the PC

The following types of connection are possible between the SRM-3006 and the PC.

### USB – USB

This is the fastest and most common type of connection. The electrical signal transmitted can affect the field being measured.

See [Using the USB connector on the PC \(page 3\)](#)

### Optical – USB

Slower data transfer rate than USB – USB. However, the field being measured is not affected by the optical signal transmission.

See [Using the USB connector on the PC \(page 3\)](#)

### Optical – Serial

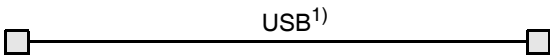
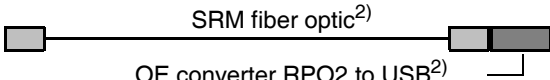
This is the only option if the system does not have a USB connection or if COM1 must be used on the PC.

See [Using the serial interface on the PC \(page 6\)](#)

### 2.1 Using the USB connector on the PC

The USB connector on the PC can be connected to either the USB or the optical connector on the SRM-3006.

The following cables and adapters are needed for these types of connection:

Connector on SRM-3006	Connection	Connector on PC
USB	 USB <sup>1)</sup>	USB
Optical	 SRM fiber optic <sup>2)</sup> OE converter RPO2 to USB <sup>2)</sup>	USB

1) Included with instrument

2) Available as an option

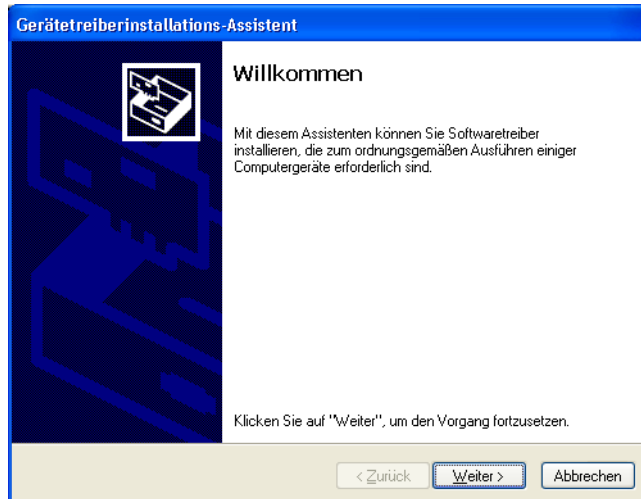
Operation via the USB port of a PC requires a driver that is automatically installed when the program is installed. This USB driver supplied by Narda can also be installed retrospectively if required. The driver is located in the installation path and in the **SRM3006USBDriver** directory on the CD-ROM.

Virtual COM ports are used for communication. Information about the PC COM port settings is found in the *Control Panel* menu of the PC operating system. If you need to change any settings but do not have Administrator privileges, please contact your IT support department.

## Retroactive installation of the USB driver

1. Start the **install.cmd** installation file. You will find this file in the ...\\SRM3006USBDriver folder on the CD-ROM or in a folder of the same name in the PC software installation path on the PC.

The Welcome screen is displayed.



2. Click on **Next**.

A warning message is displayed:



This message is displayed because the driver has not been subjected to the “Windows Logo Test” routine offered by Microsoft. It has, however, been thoroughly tested and is therefore quite safe to use.

3. Click on **Continue installation**.

The USB driver will be installed. The following message appears when installation has been completed successfully:



4. Click on **Finish** to end the installation.

## Making the USB connection

1. Select the **Optical** or **USB** setting under *Main Menu/Settings/Remote Interface* on the SRM-3006.
2. Connect the SRM-3006 and the PC together using a USB cable or an optical cable and adapter (see [Connecting the SRM-3006 to the PC \(page 3\)](#)).
3. Select the **Auto Scan** setting under *Communication* in the PC software.  
The connection between the SRM-3006 and the PC software will be set up.

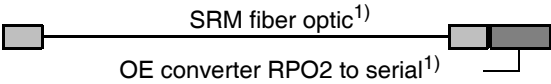
## If the connection does not work

- ⇒ If the measuring instrument was already connected to the PC before the configuration was set correctly, switch it off briefly and then switch it on again so that the PC detects it as a new USB device. Otherwise, it may be impossible to set up the connection.
- ⇒ Check whether a different program is using the COM ports and make sure that a free COM port is available.

## 2.2 Using the serial interface on the PC

The serial interface on the PC is connected to the optical connector of the SRM-3006.

The following cable and adapter are needed for this type of connection:

SRM-3006 connector	Connection	PC connector
Optical		Serial

1) Available as an option

Information about the PC COM port settings is found in the *Control Panel* menu of the PC operating system. If you need to change any settings but do not have Administrator privileges, please contact your IT support department.

### To make a serial connection:

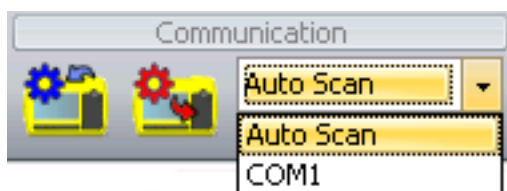
1. Select the **Optical** setting under *Main Menu/Settings/Remote Interface* on the SRM-3006.
2. Connect the SRM-3006 and the PC together using an optical cable and adapter.
3. Select the **Auto Scan** setting under *Communication* in the PC software.  
The connection between the SRM-3006 and the PC software will be set up.

### If the connection does not work

You will have to select the COM port manually if the PC software does not find it automatically.

### To select the COM port manually:


- ⇒ Open the drop-down field under *Communication* in the icon bar and select the COM port.  
This is usually COM 1.



## 3 Changing the Settings and adjusting the user interface

This section tells you how to change the basic settings of the PC software and how to customize the graphical user interface according to your requirements.

### To change the Settings:

1. Click on the upper right hand corner of the screen or click on  under *Options/Settings*. The Settings window opens.
2. Click on one of the tabs, change the settings you want and then click on **OK**. Information about the meanings of the settings is found under [Settings \(page 42\)](#).

### These sections tell you how to customize the graphical user interface:

⇒ [Customizing the side windows \(page 7\)](#)

⇒ [Changing the graphical display \(page 9\)](#)

### 3.1 Customizing the side windows


The settings and evaluation functions are accessed through separate windows which can be closed or moved temporarily to allow you to view the results as clearly as possible in the largest area available. You can thus customize the display to suit your own preferences.

By default, all the side windows are open and docked in position. The PC software saves the setting in use when you close the program.

#### Showing / hiding the side windows

To make more space for displaying the data content, you can minimize the side windows and open them only they are when needed.


#### To minimize a window:

- ⇒ Click on  at the right hand edge of the window bar.  
The window is minimized and shows as a button on the edge of the screen.

#### To re-open a minimized window:

- ⇒ Move the mouse pointer over the button.  
The window opens. You can then select a function in the window.  
The window minimizes again after a short time.

#### To re-open a minimized window permanently:

- ⇒ Open the window and click on  at the right hand edge of the window bar.  
The window remains open permanently.

## Moving the side windows to any position

⇒ Left click on the header bar of the window and drag the window to the position you want on the screen by keeping the mouse button pressed.

**Tip:** If you are using two independent monitors, you can also drag the window on to the second monitor to give you more space on the first monitor to display the data content.

Position marks appear while you are moving the window. You will need these when you want to re-dock the window (see [Re-docking a window \(page 8\)](#)).




## Re-docking a window

The complete display area is divided into three main frames (also see under [Screen designations \(page 1\)](#)). You can dock a window onto all four sides within these frames.

### To dock a window:

1. Left click on the header bar of the window and drag the window on the screen by keeping the mouse button pressed.

Position marks appear while you are moving the window. Keep the mouse button pressed.

	<p>Position cross-hair for docking the window in the <b>side frame</b>.</p> <p>Dragging the window bar on to one of the position elements docks the window to the selected side.</p>
	<p>Position crosshair for docking the window in the <b>main frame</b>.</p> <p>Dragging the window bar on to one of the position elements docks the window to the selected side.</p>
	<p>Position element (example shows the one for the left side)</p> <p>Dragging the window bar on to one of these position elements docks the window to the selected side (over its entire length).</p> <p>In contrast, dragging the window bar on to a position element in the position crosshair only docks the window to the side of the corresponding frame.</p>

2. Move the mouse pointer on to the desired position mark until the selected area is highlighted in blue.
3. Release the mouse button.  
The window is now docked to the new position.

## Displaying the window contents

Some windows contain menus that can be opened and closed as required.

⇒ Click on the double arrow symbol in the header bar of the menu to show or hide the menu contents.




## Restoring the default view

You can restore the default view either just for the menu that is currently open or for all the menus together.

### To restore the default view for the menu that is currently open:

⇒ Click on  in the icon bar.

### To restore the default view for all the menus:

⇒ Click on  in the *Options* menu.

## 3.2 Changing the graphical display

You can change the graphical display using the *Data View Options* window in the *Configuration* menu.

### Changing the scale

You can change the scale either by entering the axis limits or directly by zooming in the diagram.

#### To change the numerical values of the axis limits:

- ✓ The *Data View Options* side window is open.
- 1. Open the *Graphical Zoom* menu and click on the desired editing field to the far right.
- 2. Enter the new value and click on **OK**.  
The curve display will be adjusted to the new value.

#### To zoom directly in the diagram:

- ⇒ Click with the mouse pointer directly in the graph area and drag the mouse from top left to bottom right to outline the area of interest, keeping the mouse button pressed.  
When you release the mouse button, the area outlined will fill the screen format. The measurement data set is not changed by this.

#### To reset the zoom:

There are several ways to reset the display that you changed by using the zoom function:

- **Mouse:** Left click on the graphics area and with the button held down move the mouse pointer from lower right to upper left of the area.  
When you release the button the display will be reset to 100%.
- **Undo\_Zoom:** Each time you click on this command, the last zoom action is undone.
- **Zoom 100%:** Sets the scale back to the original display of 100%.
- **Reset Settings:** Resets all changes, including the zoom settings.

## Changing the units and the curve style

✓ The *Data View Options* side window is open.

### To change the units:

⇒ Open the *Units* menu, then open the drop-down field and select the desired units.  
The curve display will be adjusted to the new units.

### To change the curve style in the Configuration menu:

1. Open the *Style* menu.
2. To change the color: Open the drop-down field and select the desired color.  
To change the line width: Open the drop-down field and select the desired width.  
The curve display will be adjusted.

## Resetting all changes

✓ The *Data View Options* side window is open.

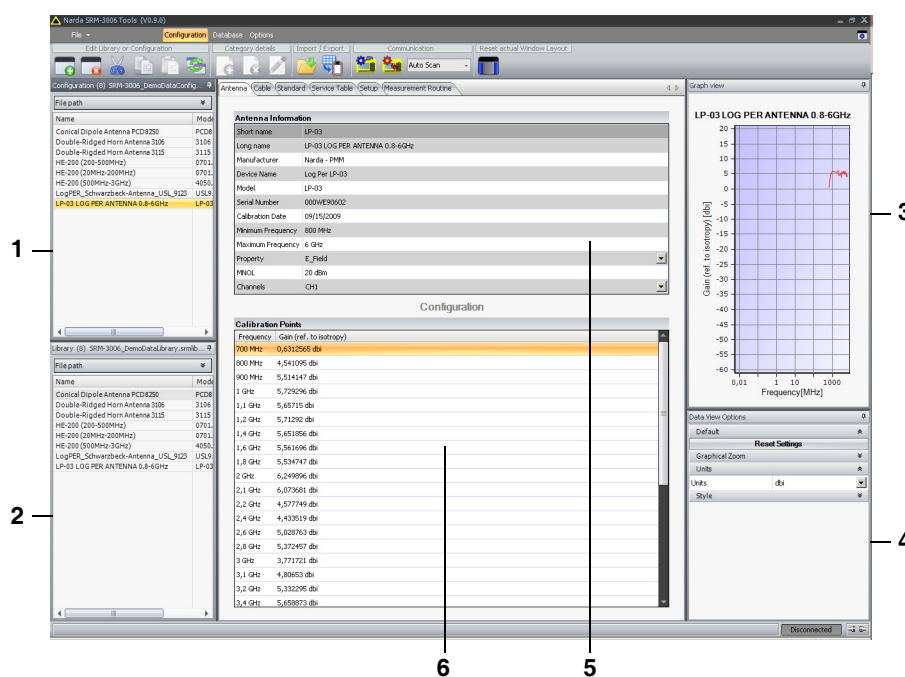
⇒ Open the *Default Settings* menu and click on **Reset Settings**.  
All settings will be reset to their initial states.

## 4 Managing configuration data

Example configurations are provided on the CD-ROM and in the PC software installation folder for test purposes. The table below lists the folders and their contents:

Folder / File name	Contents
Test data / SRM-3006_DemoDataConfiguration.srmcfcg	Example configuration for all categories. The contents are displayed in the <i>Configuration</i> window when you open the file.
Test data / SRM-3006_DemoDataLibrary.srmlib	Example library for all categories. The contents are displayed in the <i>Library</i> window when you open the file.
Test data / Import / Antenna / ... Test data / Import / Cable / ... Test data / Import / Service Table / ... Test data / Import / Standard / ...	Example configurations for individual antennas, cables, service tables, and measurement standards. The contents are transferred into the corresponding category on import. Assignment to the <i>Configuration</i> and <i>Library</i> windows takes place on import.

The configuration data is managed using the *Configuration* menu. The following windows are used in this menu for selecting and editing the data:



Window section	Window		Description
<b>Side window</b>	<b>1</b>	<b>Configuration</b>	Displays the data uploaded from the SRM-3006. The data shown in this window can be downloaded to the SRM-3006.
	<b>2</b>	<b>Library</b>	Displays the data saved on the PC.
	<b>3</b>	<b>Graph view</b>	Only available in the categories Antenna, Cable, and Standard. Shows the parameters of the selected item as a graph.
	<b>4</b>	<b>Data View Options</b>	Allows you to edit the graphical display.
<b>Main window</b>	<b>5</b>	<b>... Information</b>	Shows information about the selected item.
	<b>6</b>	<b>Configuration / Library</b>	Shows the saved parameters of the selected item.

**Also refer to:**

- ↗ [Loading and saving configuration data \(page 12\)](#)
- ↗ [General information on editing configurations \(page 15\)](#)
- ↗ [Creating and editing antenna configurations \(page 17\)](#)
- ↗ [Creating and editing cable configurations \(page 18\)](#)
- ↗ [Creating and editing measurement standards \(page 20\)](#)
- ↗ [Creating and editing service tables \(page 22\)](#)
- ↗ [Creating and editing measurement routines \(page 26\)](#)

## 4.1 Loading and saving configuration data

This section describes how to load and save configuration data.


### Exchanging configuration data between the SRM-3006 and the PC

You can only ever transfer all the configuration data stored in the SRM-3006 to the PC or all the data shown in the *Configuration* window from the PC to the SRM-3006. You cannot transfer individual data sets.

#### To transfer the data from the SRM-3006 to the PC:

**WARNING:** All the data for Antennas, Cables, Standards, Services, and Setups in the Configuration window will be overwritten when the data is transferred!


⇒ For this reason, you should save any existing items first in a configuration file (see [Loading all configuration data from the PC or saving it to the PC \(page 13\)](#)) or copy it into the Library file (see [General information on editing configurations \(page 15\)](#)).

⇒ Click on .

The data are transferred to the PC and displayed in the *Configuration* window.

**To transfer the data from the PC to the SRM-3006:**

**WARNING:** All the data for Antennas, Cables, Standards, Services, and Setups in the SRM-3006 will be overwritten when the data is transferred! Only the measurement data is retained!

⇒ Click on .

The data shown in the *Configuration* window is transferred from the PC.

**Loading all configuration data from the PC or saving it to the PC**

This process loads or saves all the configuration data for all categories. You can select whether the data is **Configuration** data or **Library** data.

**To load all configuration data:**

1. Open the *File* menu in the menu bar and select the **Open** command.
2. Click on **Configuration** or **Library**.
3. Select the desired configuration file
  - **Configuration** files end in “.srmcfg”
  - **Library** files end in “.srmlib”
 The complete configuration is loaded.

**To save all configuration data:**


1. Open the *File* menu in the menu bar.
  - Select **Save** if you want to overwrite an existing configuration
  - or –
  - Select **Save As** if you want to save a configuration under a new name.
2. Click on **Configuration** or **Library**.
3. If you selected **Save**, the data will be saved immediately.
  - If you selected **Save As**, you must specify a target and a file name.

**Importing individual configuration data**

Manufacturers often provide antenna and cable configuration data in the form of Word or Excel files. These configuration data can be imported using the **Import Wizard** and are then available for further applications. Some files in the **Antenna**, **Cable**, **Service Table** and **Standard** categories are already provided for test purposes. These files are found in the installation path in corresponding folders under *Test data/Import*.

**Note:** You cannot export individual configurations.

**To import individual configuration data:**

1. Click on .
  - The *Import Wizard* window opens.
2. Follow the instructions in the dialog. Lastly, specify the file to be imported and complete the import.


## Copying contents to the clipboard

You can copy the contents of a window to the clipboard and make use of this (e.g. by pasting into a Word document) as a quick way to display a numerical or graphical view.

### To copy the contents of a window to the clipboard:

1. Activate the window to be copied by clicking on the content area of the window.  
Active windows are indicated by the window bar being highlighted in dark gray.

**Note:** You must select any item in the window. Clicking on the window header bar is not enough. Similarly, you must select any item in one of the windows in the main frame.

2. Click on .

The window contents are now copied to the clipboard and you can paste them into another application from there.

### Information about editing configuration data is found in the following sections:

- ↗ [General information on editing configurations \(page 15\)](#)
- ↗ [Creating and editing antenna configurations \(page 17\)](#)
- ↗ [Creating and editing cable configurations \(page 18\)](#)
- ↗ [Creating and editing measurement standards \(page 20\)](#)
- ↗ [Creating and editing service tables \(page 22\)](#)
- ↗ [Creating and editing measurement routines \(page 26\)](#)

## 4.2 General information on editing configurations

There are usually several ways to edit data contents:







- Using the icons in the icon bar
- Right clicking with the mouse and selecting a function
- Using the PC keyboard

These are described in this section.

### Tips on editing data sets

The table below shows the various ways that you can use the icons, mouse, or keyboard to edit data sets.




Table: Ways of editing data sets

Function	Icon in icon bar or by right clicking	Windows keyboard shortcut	Meaning
Create		–	Creates a new item.
Delete		Del. key	Deletes the highlighted item.
Cut		Ctrl + X	Deletes the highlighted item and copies it on to the clipboard. <sup>1)</sup>
Copy		Ctrl + C	Copies the data content on to the clipboard. <sup>1)</sup>
Paste		Ctrl + V	Pastes in the contents of the clipboard.
Direct copy		–	Copies the highlighted item directly from one window to another.
1) The clipboard contents can then be pasted for example into an Office application or moved or copied between the Configuration and Library side windows.			

### Tips on editing values

The table below shows the various ways that you can use the icons, mouse, or keyboard to edit values.

Table: Ways of editing values

Function	Icon in icon bar or by right clicking	Windows keyboard shortcut	Meaning
Create		–	Creates a new item.
Delete		Del. key	Deletes the highlighted item.
Edit		–	Opens the Edit window.

You can enter values in the following ways:

### Entering values using the Entry window:

1. Open the Entry window by double clicking on the desired field (the image below shows the Entry window for the *Antenna* category as an example).

2. Enter the values required in the window and close the entry by clicking on **Accept**.

### Direct editing in the value field:

You can enter individual values quickly using this method.

1. **Left click** once on the desired entry field.  
The field is highlighted in color and enclosed by a dotted line.
2. Click again on the field or use the **keyboard** immediately to enter the desired numbers (the image below shows the Entry window for the *Antenna* category as an example).

Calibration Points	
Frequency	Gain (ref. to isotropy)
500 MHz	5,208696 dbi
600 MHz	4,792321 dbi
700 MHz	4,131257 dbi
800 MHz	4,291095 dbi

3. To enter the units, press the **spacebar** on the keyboard and select the desired units using the **up arrow** or **down arrow** keys on the keyboard.
4. Press the **Tab** key on the keyboard.  
The next field is highlighted.
5. Enter further values and units in the same way.

### Information on how to edit the categories is found in the following sections:

- ↗ [Creating and editing antenna configurations \(page 17\)](#)
- ↗ [Creating and editing cable configurations \(page 18\)](#)
- ↗ [Creating and editing measurement standards \(page 20\)](#)
- ↗ [Creating and editing service tables \(page 22\)](#)
- ↗ [Creating and editing measurement routines \(page 26\)](#)



### 4.3 Creating and editing antenna configurations

- ✓ You have selected the category *Antenna*.

#### Recording a new antenna

1. Mark any item in the *Configuration* or *Library* window.  
This activates the desired window.
2. Select one of the Create functions (see [Tips on editing data sets \(page 15\)](#)).  
A new (empty) antenna data set is created ("New Antenna"). You can now enter new values (see [Entering a new calibration point \(page 18\)](#)).

#### Deleting an antenna

1. Select an item in the *Configuration* or *Library* window.
2. Select one of the Delete functions (see [Tips on editing data sets \(page 15\)](#)) and confirm that you want to delete the item by clicking on **OK**.  
The item is deleted from the window.

#### Copying an antenna configuration

**Note:** When you copy a configuration, any existing configuration with the same name will not be overwritten, but the configuration will be recorded again and the name extended by the addition of a consecutive number in brackets (duplicate indication).

There are several ways to copy a configuration:

##### Dragging into the other window using the mouse:


⇒ Mark the item in the *Configuration* or *Library* window, hold down the mouse button, and drag the item into the other window.

**Tip:** Using this method, you can very quickly assemble configurations in the *Configuration* window and then load them into the SRM-3006 (see [Exchanging configuration data between the SRM-3006 and the PC \(page 12\)](#)).

##### Directly copying into the other window:

1. Mark the item in the *Configuration* or *Library* window and copy it directly into the other window using the Direct copy function .

##### Copying using the clipboard:

1. Mark the item in the *Configuration* or *Library* window and copy it on to the clipboard using the Copy function .
2. You can now paste the configuration copied on to the clipboard into the same window or into the other window. To do this, click in the desired window and then use one of the Paste functions to paste in the configuration.

## Entering a new calibration point

1. Select the desired antenna.
2. If you have recorded a new antenna, no contents will be present. First of all, then, fill in the contents of the *Antenna Information* field by marking a line and entering the information using the keyboard. Information about the fields is found under [Antenna \(page 45\)](#) in the [Function Overview \(page 33\)](#).
3. To enter calibration points:
  - ⇒ If you have recorded a new antenna, the *Calibration Points* window will still be empty. In this case, double click in the window or right click and select the Paste function.
  - ⇒ If values are already present and you want to add a new value, right click and select the Paste function.The Entry window opens. Information about the fields is found under [Antenna \(page 45\)](#) in the [Function Overview \(page 33\)](#).
4. Enter the values and click on **Add to List**.

The Entry window remains open, so you can add further values without having to open the Entry window each time.

The entry you make will be shown immediately in the graph view.
5. Enter all the values you want and click on **Accept** after you have entered the last value or close the window by clicking on **Close**.

## Editing a calibration point

1. Select a calibration point.
2. Directly overwrite the displayed values or open the Edit window and edit the values there (see [Tips on editing values \(page 15\)](#)).
3. Click on **Accept** when you have finished making the entries in the window, or close the window without making any changes by clicking on **Close**.

## Deleting a calibration point

1. Select a calibration point.
2. Select one of the Delete functions (see [Tips on editing values \(page 15\)](#)) and confirm that you want to delete the calibration point by clicking on **OK**.

The calibration point is deleted from the window.

## 4.4 Creating and editing cable configurations

- ✓ You have selected the category *Cable*.

### Recording a new cable

1. Mark any item in the *Configuration* or *Library* window.

This activates the desired window.
2. Select one of the Create functions (see [Tips on editing data sets \(page 15\)](#)).

A new (empty) data set is created ("New Cable"). You can now enter new values (see [Entering a new value \(page 19\)](#)).

## Deleting a cable

1. Select an item in the *Configuration* or *Library* window.
2. Select one of the Delete functions (see [Tips on editing data sets \(page 15\)](#)) and confirm that you want to delete the item by clicking on **OK**.  
The item is deleted from the window.

## Copying a cable configuration

**Note:** When you copy a configuration, any existing configuration with the same name will not be overwritten, but the configuration will be recorded again and the name extended by the addition of a consecutive number in brackets.


There are several ways to copy a configuration:

### Dragging into the other window using the mouse:


⇒ Mark the item in the *Configuration* or *Library* window, hold down the mouse button, and drag the item into the other window.

**Tip:** Using this method, you can very quickly assemble configurations in the *Configuration* window and then load them into the SRM-3006 (see [Exchanging configuration data between the SRM-3006 and the PC \(page 12\)](#)).

### Directly copying into the other window:

1. Mark the item in the *Configuration* or *Library* window and copy it directly into the other window using the Direct copy function .

### Copying using the clipboard:

1. Mark the item in the *Configuration* or *Library* window and copy it on to the clipboard using the Copy function .
2. You can now paste the configuration copied on to the clipboard into the same window or into the other window. To do this, click in the desired window and then use one of the Paste functions to paste in the configuration.

## Entering a new value

1. Select the desired cable.
2. If you have recorded a new cable, no contents will be present. First of all, then, fill in the contents of the *Cable Information* field by marking a line and entering the information using the keyboard. Information about the fields is found under [Cable \(page 47\)](#) in the [Function Overview \(page 33\)](#).
3. To enter calibration points:
  - ⇒ If you have recorded a new cable, the *Calibration Points* window will still be empty. In this case, double click in the window or right click and select the Paste function.
  - ⇒ If values are already present and you want to add a new value, right click and select the Paste function.

The Entry window opens. Information about the fields is found under [Cable \(page 47\)](#) in the [Function Overview \(page 33\)](#).

4. Enter the values and click on **Add to List**.  
The Entry window remains open, so you can add further values without having to open the Entry window each time.  
The entry you make will be shown immediately in the graph view.
5. Enter all the values you want and click on **Accept** after you have entered the last value or close the window by clicking on **Close**.

### Editing values

1. Select the desired cable.
2. Directly overwrite the displayed values or open the Edit window and edit the values there (see [Tips on editing values \(page 15\)](#)).
3. Click on **Accept** when you have finished making the entries in the window, or close the window without making any changes by clicking on **Close**.

## 4.5 Creating and editing measurement standards

- ✓ You have selected the category *Standard*.

### Creating a new standard

1. Mark any item in the *Configuration* or *Library* window.  
This activates the desired window.
2. Select one of the Create functions (see [Tips on editing data sets \(page 15\)](#)).  
A new (empty) standard is created ("USR\_New Standard"). You can now enter new values (see [Entering a new value \(page 21\)](#)).


**Note:** The names of the measurement standards you create always start with "USR\_" (= user).  
You can change the name but the prefix "USR\_" cannot be removed.

### Deleting a standard

1. Select an item in the *Configuration* or *Library* window.
2. Select one of the Delete functions (see [Tips on editing data sets \(page 15\)](#)) and confirm that you want to delete the item by clicking on **OK**.  
The item is deleted from the window.

### Duplicating a standard

Pre-defined standards cannot be edited. You can only edit the standards you create yourself. The *Standard* category therefore includes an extra function that allows you to generate a new standard on the basis of an existing one.

1. Mark an item in the *Standard* category and click on .  
A copy of the standard is generated. The name of this copy is prefixed by "USR\_".
2. If required, you can change the name of the copy in the *Standard Information* window, but the prefix "USR\_" cannot be removed.

## Copying a standard

**Note:** When you copy a standard, any existing standard with the same name will not be overwritten, but the standard will be recorded again and the name extended by the addition of a consecutive number in brackets.


There are several ways to copy a standard:

### Dragging into the other window using the mouse:


⇒ Mark the item in the *Configuration* or *Library* window, hold down the mouse button, and drag the item into the other window.

**Tip:** Using this method, you can very quickly assemble standards in the *Configuration* window and then load them into the SRM-3006 (see [Exchanging configuration data between the SRM-3006 and the PC \(page 12\)](#)).

### Directly copying into the other window:

1. Mark the item in the *Configuration* or *Library* window and copy it directly into the other window using the Direct copy function .

### Copying using the clipboard:

1. Mark the item in the *Configuration* or *Library* window and copy it on to the clipboard using the Copy function .
2. You can now paste the standard copied on to the clipboard into the same window or into the other window. To do this, click in the desired window and then use one of the Paste functions to paste in the standard.

**Note:** A standard created by copying is not a “USR\_” standard, so it cannot be edited. If you want to create a standard that can be edited, you must either create a new standard (see [Creating a new standard \(page 20\)](#)) or use the Duplicate function to generate it (see [Duplicating a standard \(page 20\)](#)).

## Entering a new value

**Note:** Pre-defined standards cannot be edited. You must either first create a new (empty) standard (see [Creating a new standard \(page 20\)](#)) or use the Duplicate function to generate one (see [Duplicating a standard \(page 20\)](#)) and then edit this copy.

1. Select the desired standard.
2. If you have recorded a new standard, no contents will be present. First of all, then, fill in the contents of the *Standard Information* field by marking a line and entering the information using the keyboard. Information about the fields is found under [Standard \(page 48\)](#) in the [Function Overview \(page 33\)](#).
3. To enter values:
  - ⇒ If you have recorded a new standard, the *E-Field* and *H-Field* windows will still be empty. In this case, double click in one of the windows or right click and select the Paste function.
  - ⇒ If values are already present and you want to add a new value, right click and select the Paste function.

The Entry window opens.

4. Enter the values and click on **Add to List**.

Information about the fields (and in particular about entering the formulas) is found under [Standard \(page 48\)](#) in the [Function Overview \(page 33\)](#).

The Entry window remains open, so you can add further values without having to open the Entry window each time.

The entry you make will be shown immediately in the graph view.

5. Enter all the values you want and click on **Accept** after you have entered the last value or close the window by clicking on **Close**.

## Editing values

**Note:** Pre-defined standards cannot be edited. You must either first create a new (empty) standard (see [Creating a new standard \(page 20\)](#)) or use the Duplicate function to generate one (see [Duplicating a standard \(page 20\)](#)) and then edit this copy.

1. Select the desired standard.
2. Directly overwrite the displayed values or open the Edit window and edit the values there. Information about the fields (and in particular about entering the formulas) is found under [Standard \(page 48\)](#) in the [Function Overview \(page 33\)](#).
3. Click on **Accept** when you have finished making the entries in the window, or close the window without making any changes by clicking on **Close**.

## 4.6 Creating and editing service tables

- ✓ You have selected the category *Service Table*.

### Recording a new service table

1. Mark any item in the *Configuration* or *Library* window.  
This activates the desired window.
2. Select one of the Create functions (see [Tips on editing data sets \(page 15\)](#)).  
A new (empty) service table is created (e.g. "New Table"). You can now enter new values (see [Entering a new value \(page 23\)](#)).

### Deleting a service table

1. Select an item in the *Configuration* or *Library* window.
2. Select one of the Delete functions (see [Tips on editing data sets \(page 15\)](#)) and confirm that you want to delete the item by clicking on **OK**.  
The item is deleted from the window.

### Copying a service table

**Note:** When you copy a service table, any existing item with the same name will not be overwritten, but the item will be recorded again and the name extended by the addition of a consecutive number in brackets.

There are several ways to copy a service table:

#### Dragging into the other window using the mouse:


⇒ Mark the item in the *Configuration* or *Library* window, hold down the mouse button, and drag the item into the other window.

**Tip:** Using this method, you can very quickly assemble service tables in the *Configuration* window and then load them into the SRM-3006 (see [Exchanging configuration data between the SRM-3006 and the PC \(page 12\)](#)).

#### Directly copying into the other window:

⇒ Mark the item in the *Configuration* or *Library* window and copy it directly into the other window using the Direct copy function .

#### Copying using the clipboard:

1. Mark the item in the *Configuration* or *Library* window and copy it on to the clipboard using the Copy function .
2. You can now paste the service table copied on to the clipboard into the same window or into the other window. To do this, click in the desired window and then use one of the Paste functions to paste in the service table.

### Entering a new value

1. Select the desired service table.
2. If you have recorded a new service table, no contents will be present. First of all, then, fill in the contents of the *Service Table Information* field by marking a line and entering the information using the keyboard.
3. To enter values:
  - ⇒ If you have recorded a new service table, the service table will still be empty. In this case, double click in the window or right click and select the Paste function.
  - ⇒ If values are already present and you want to add a new value, right click and select the Paste function.

The Entry window opens. You can now enter values in two different ways:

#### Entering the lower and upper frequency manually

1. Enter the lower and upper frequency as well as the service name of your choice.
2. If you want to let the device calculate the RBW: Activate the **Calculate RBW** check box.  
– or –  
If you want to set the RBW yourself: Deactivate the **Calculate RBW** check box and select a value from the drop-down list.
3. Click on **Add to List** if you want to add further items to the list, or click on **Add and Close** if you do not want to add any further items to the list. If you click on **Close**, the window closes without the entry being added.

#### Generating a channel number automatically

1. Select a band from the **Band** drop-down list, enter a channel number in the **Channel** box and click on **Assign**.  
The lower and upper frequencies are determined automatically and the service name is formed from the channel number and the name of the selected band.

2. If you want to let the device calculate the RBW: Activate the **Calculate RBW** check box.  
– or –  
If you want to set the RBW yourself: Deactivate the **Calculate RBW** check box and select a value from the drop-down list.
3. Click on **Add to List** if you want to add further items to the list, or click on **Add and Close** if you do not want to add any further items to the list. If you click on **Close**, the window closes without the entry being added.

See under [Generating channel numbers \(page 24\)](#) for more information on generating channel numbers.

## Editing values


1. Select the desired service table.
2. Directly overwrite the displayed values or open the Edit window and edit the values there. Information about the fields is found under [Service Table \(page 49\)](#) in the [Function Overview \(page 33\)](#).
3. Click on **Accept** when you have finished making the entries in the window, or close the window without making any changes by clicking on **Close**.

## Generating channel numbers


You can generate channel numbers in two different ways:

- In the **Edit window**:  
The selected item in the window is overwritten with the new band / channel number combination.
- Using the **Create Channels** function:  
New items are generated by entering channel limits and a step width.

### To generate a single channel number:

1. Select an item in the **Service Table** window and open the Edit window using the Edit function .
2. Select a band from the drop-down list in the *Generate channel numbers* field, enter a channel number and click on **Assign**.  
A warning message is displayed if the channel number is not valid.  
The item is entered in the list if the channel number is valid. The name of the item is formed from the channel number and the band.

### To generate a series of channel numbers:

1. Right click on any item in the **Service Table** window and select the **Create Channels**  function.  
The window for generating channel numbers opens.
2. Select a band from the drop-down list and enter the First channel, Last channel, and Step width information and click on **Add to List**.  
A warning message is displayed if any of the information entered is not valid.  
All the channel numbers are generated in the list according to the limits and step width entered if the information is valid.



## 4.7 Editing setups

- ✓ You have selected the category *Setup*.

You cannot create or edit instrument setups with the SRM-3006 Tools PC software. All the other functions are nevertheless available.

### Deleting a setup

1. Select an item in the *Configuration* or *Library* window.
2. Select one of the Delete functions (see [Tips on editing data sets \(page 15\)](#)) and confirm that you want to delete the item by clicking on **OK**.  
The item is deleted from the window.

**Note:** If the setup is part of a measurement routine, it will also be deleted from the measurement routine.

### Copying a setup

**Note:** When you copy a setup, any existing item with the same name will not be overwritten, but the setup will be recorded again and the name extended by the addition of a consecutive number in brackets.

There are several ways to copy a setup:

#### Dragging into the other window using the mouse:


⇒ Mark the item in the *Configuration* or *Library* window, hold down the mouse button, and drag the item into the other window.

**Tip:** Using this method, you can very quickly assemble setups in the *Configuration* window and then load them into the SRM-3006 (see [Exchanging configuration data between the SRM-3006 and the PC \(page 12\)](#)).

#### Directly copying into the other window:

1. Mark the item in the *Configuration* or *Library* window and copy it directly into the other window using the Direct copy function .

#### Copying using the clipboard:

1. Mark the item in the *Configuration* or *Library* window and copy it on to the clipboard using the Copy function .
2. You can now paste the setup copied on to the clipboard into the same window or into the other window. To do this, click in the desired window and then use one of the Paste functions to paste in the setup.

## 4.8 Creating and editing measurement routines

- ✓ You have selected the category *Measurement Routine*.

### Recording a new measurement routine

1. Mark any item in the *Configuration* or *Library* window.  
This activates the desired window.
2. Select one of the Create functions (see [Tips on editing data sets \(page 15\)](#)).  
A new (empty) data set is created ("New Measurement routine"). You can now enter new Setups in the routine.

### Deleting a measurement routine

1. Select an item in the *Configuration* or *Library* window.
2. Select one of the Delete functions (see [Tips on editing data sets \(page 15\)](#)) and confirm that you want to delete the item by clicking on **OK**.  
The item is deleted from the window.

### Copying a measurement routine

**Note:** When you copy a measurement routine, any existing item with the same name will not be overwritten, but the measurement routine will be recorded again and the name extended by the addition of a consecutive number in brackets.

There are several ways to copy a measurement routine:

#### Dragging into the other window using the mouse:


⇒ Mark the item in the *Configuration* or *Library* window, hold down the mouse button, and drag the item into the other window.

**Tip:** Using this method, you can very quickly assemble measurement routines in the *Configuration* window and then load them into the SRM-3006 (see [Exchanging configuration data between the SRM-3006 and the PC \(page 12\)](#)).

#### Directly copying into the other window:

⇒ Mark the item in the *Configuration* or *Library* window and copy it directly into the other window using the Direct copy function .

#### Copying using the clipboard:

1. Mark the item in the *Configuration* or *Library* window and copy it on to the clipboard using the Copy function .
2. You can now paste the measurement routine copied on to the clipboard into the same window or into the other window. To do this, click in the desired window and then use one of the Paste functions to paste in the measurement routine.

## Entering a new setup

1. Select the desired measurement routine.
2. If you have recorded a new measurement routine, no contents will be present. First of all, then, enter a name in the *Measurement Routine Information* field.
3. To enter setups:
  - ⇒ If you have recorded a new measurement routine, the *Measurement Routine* window will still be empty. In this case, double click in the window or right click and select the Paste function.
  - ⇒ If values are already present and you want to add a new value, right click and select the Paste function.The Entry window opens.
4. Enter the values and click on **Add to List**.

Information about the fields is found under [Measurement Routine \(page 50\)](#) in the [Function Overview \(page 33\)](#).

The Entry window remains open, so you can add further values without having to open the Entry window each time.

The entry you make will be shown immediately in the graph view.
5. Enter all the desired values and then click on **Add and Close** after entering the last value or close the window by clicking on **Close**.

## Editing routines

1. Select the desired measurement routine.
2. Directly overwrite the field contents or use the drop-down lists to select preset values, or open the Edit window and edit the values there. Information about the fields is found under [Measurement Routine \(page 50\)](#) in the [Function Overview \(page 33\)](#).
3. Click on **Accept** when you have finished making the entries in the window, or close the window without making any changes by clicking on **Close**.

## Deleting a value

1. Select the desired value in a data set.
2. Select one of the Delete functions (see [Tips on editing data sets \(page 15\)](#)) and confirm that you want to delete the item by clicking on **OK**.



The item is deleted from the window.

## 5 Managing and evaluating measurement data

The *Database* menu allows you to load measurement data from the SRM-3006, display it on the screen, and save it to your PC.

### Notes on selecting data sets

Depending on the desired function, a data set is selected either by **marking** or **selecting** or a combination of both.

- **Marking:** Click on an item, but not in the check box. A marked item is highlighted in color. You can mark several data sets by holding down the Shift or Ctrl keys when you click on the items.
- **Selecting:** Click in the check box in the Index column to select a data set. You can also select a marked data set by clicking on  or select all data sets by clicking on .


➤ [Loading and saving measurement data \(page 28\)](#)

➤ [Replaying a voice comment \(page 30\)](#)

### 5.1 Loading and saving measurement data

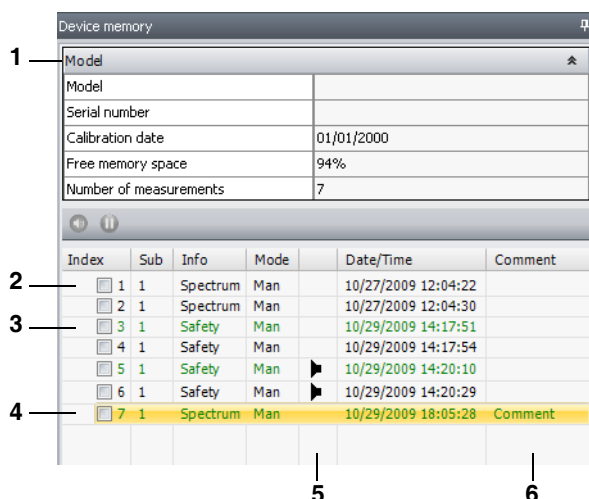
Measurement data can be loaded from the SRM-3006 and displayed on the screen. You cannot process this data, however. The data sets that you loaded can be saved for further use.

### Uploading measurement data from the measuring set

1. Click on  in the *Database* view.

All the data sets saved in the SRM-3006 are displayed in the **Device Memory** window (left).

⇒ Click on the **Model** bar to display some information about the measuring set and memory.




No.	Function
1	Drop-down menu with instrument and memory specific information.
2	Data set in black type: You have not clicked on this data set yet.
3	Data set in green type: You have clicked on this data set at least once.
4	Currently selected data set.
5	Column for voice comments: The loudspeaker icon indicates that a voice comment is available.
6	Column for text comments.

## Copying contents to the clipboard

The following conditions apply when copying contents to the clipboard:

- You can only copy the contents of the window that is currently active.  
⇒ Click on the contents section of a window to activate it.
- You can only copy the contents of values windows to the clipboard. You cannot copy the contents of the *Device Memory* window.
- Screenshots can also be copied.
- When you paste the contents of the clipboard into a word processing application, the values arranged in columns will be separated line by line by tab characters.



### To copy contents to the clipboard:

1. Click on the data contents section of the window you want (but not on the window bar).  
The window bar appears darker.
2. Click on .
3. Open the target application and paste in the contents from the clipboard.

## Exporting data sets to a csv file

You can also export screenshots and voice comments as well as data sets.

### To export data sets:

1. Display the data sets that are stored in the SRM-3006 (see [Uploading measurement data from the measuring set \(page 28\)](#)).
2. Select individual data sets by clicking on the check box or select all the data sets by clicking on .
- Clicking a second time cancels the selection.
3. Click on  in the icon bar of the *Export* menu and follow the instructions in the dialog.

Following the export you will find the following files at the location for saving them:

**For measured values and voice comments:**

- **\_<Index>\_HEADER.csv**  
The header file is generated for each exported data set and contains the information describing which data belong to this data set.
- **\_<Index>\_<Subset>.csv**  
These files contain the numerical measurement values.
- **\_<Index>\_Voice.wav**  
Exported voice comments for the corresponding data set.

**For screenshots:**

- **\_<Index>\_ScreenshotHeader.png**  
An associated header file containing information about the screenshot is generated for each exported screenshot.
- **\_<Index>\_Screenshot.png**  
Exported screenshot for the corresponding data set

**Meanings:**

Term	Meaning
<b>Index</b>	Consecutive numbering of data sets as shown in the <i>Device Memory</i> window.
<b>Subset</b>	Consecutive number for individual data packets within a data set.
<b>.csv</b>	CSV (comma separated values) is a simple format for saving data in which the values are listed and separated from each other by a comma, semicolon, or tab character. CSV files can be easily imported into spreadsheet programs such as EXCEL.
<b>.png</b>	PNG is an image format that combines the advantages of the GIF and JPEG image formats.
<b>.wav</b>	WAV is a format used by Windows for saving audio data. WAV files can be replayed using the Windows Media Player, for example.




**Importing measurement data from a csv file**

You can re-import individual data sets that were exported to a csv file (see [Exporting data sets to a csv file \(page 29\)](#)). The selected measurement data are imported into the currently opened database when you do this.

**To import measurement data:**

⇒ Click on  in the icon bar in the *Export* menu and follow the dialog instructions.

## 5.2 Replaying a voice comment

1. Select a data set.  
The loudspeaker icon  is shown in the appropriate column if the data set includes a voice comment.
2. Click on  to start playback.
3. Click on  to stop playback.

## 6 Updating the SRM-3006 firmware and activating options

### 6.1 Updating the SRM-3006 firmware

**WARNING:** Data loss during firmware update


The firmware update process can take up to **30 minutes**. If the process is interrupted, data loss may occur that will make the SRM-3006 inoperable.

- ⇒ Finish all measurements before starting the update.
- ⇒ Ensure that the power supply is not interrupted during the update. For this reason, you should connect the AC adapter / charger unit.
- ⇒ Wait until the firmware update has been completed successfully before making any settings on the SRM-3006.

You can update the firmware via the USB port or the optical port.

**To update the firmware:**

- ✓ You have connected the AC adapter / charger unit to the measuring set.
- ✓ You have made the connection between the PC and the measuring set.
- ✓ The new firmware release is stored on the PC.

1. Click on  in the **Options** view.  
The *Firmware Update* window opens.
2. Follow the instructions displayed on the screen.


You can use all the functions of the SRM-3006 after successfully updating the firmware.

### 6.2 Activating options

Options are delivered together with new firmware releases. To activate the options, you will need an Option Key which you can find in the **SRM-3006 Options Passport**. This document is provided along with the purchase documents for the option.

**To activate options:**

- ✓ You have connected the AC adapter / charger unit to the measuring set. This ensures that the process is not interrupted if the batteries run low.
- ✓ The new firmware release is stored on the PC.

1. Click on the  icon in the **Options** view.  
The connection to the instrument is checked and the *Activate Options* window opens.
2. Select the desired option. Options that have already been activated are marked with a check.
3. Enter the Option Code.
4. Click on **Activate**.  
The selected option is activated (shown by the check mark).
5. Click on **Close**.

You can now use all the functions of the option.

You can deactivate options as described above but using the **Deactivate** function instead of the **Activate** function.

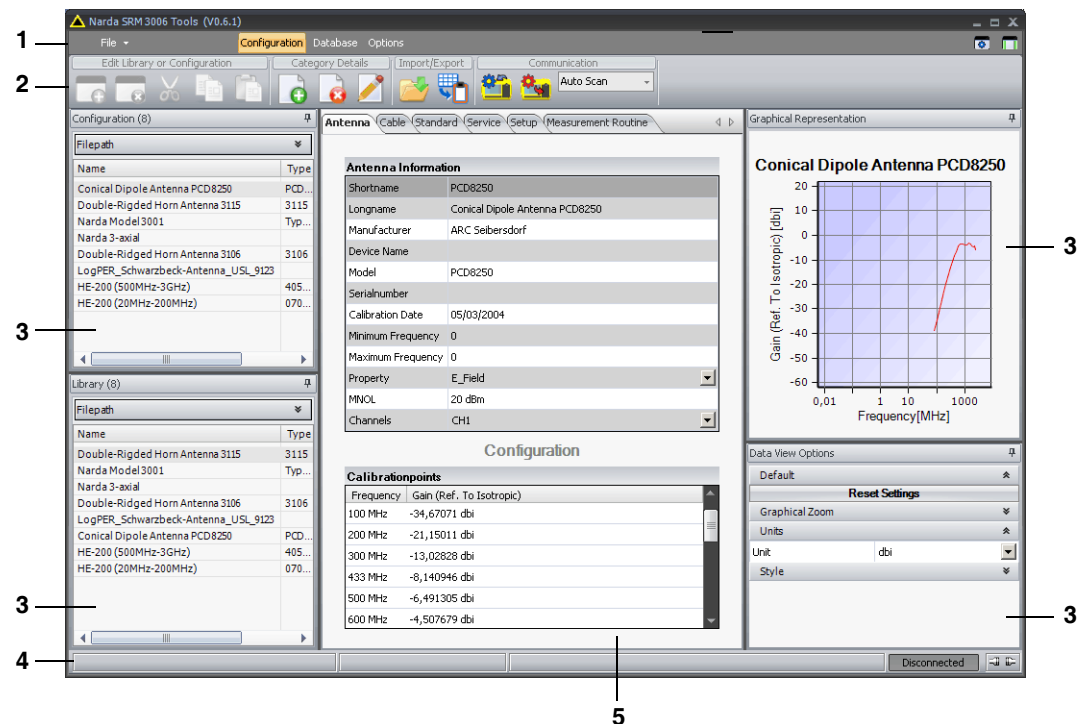




# FUNCTION OVERVIEW

The Function Overview contains descriptions of all the menus, windows and functions. Detailed information on how to operate the PC software is found in the [Operating Instructions](#).

## 1 User interface overview



No.	Name	Function
1	Menu bar	The commands in the <a href="#">Menu bar</a> are used to select the view that you want to use.
2	Icon bar	The <a href="#">Icon bar</a> provides you with various commands depending on the current view.
3	Side window	You can keep a <a href="#">Side window</a> open all the time, or hide it temporarily, or arrange it differently as required.
4	Status bar	The <a href="#">Status bar</a> gives information about the current status of the program.
5	Main window	<a href="#">The Configuration menu – Main window</a> display depends on the tab that you have selected.


## 2 Menu bar

The Menu bar contains the following items:

- ↗ [File \(page 34\)](#)
- ↗ [Configuration \(page 35\)](#)
- ↗ [Database \(page 36\)](#)
- ↗ [Options \(page 36\)](#)






⇒ Click on one of the items to display it.

The following function is also found at the right hand end of the Menu bar:

Icon	Name	Explanation
	<b>Show Settings Dialog</b>	Opens a dialog for setting: <ul style="list-style-type: none"> <li>• data formats</li> <li>• export options</li> <li>• default directories</li> <li>• various measurement options</li> </ul>

### 2.1 File

The *File* menu contains the following commands:

Icon	Command	Explanation
	<b>New</b>	<b>Configuration:</b> Creates a new configuration file. <b>Library:</b> Creates a new library file.
	<b>Open</b>	Opens the default Windows dialog for opening an existing file: <ul style="list-style-type: none"> <li>• Configuration: File name extension <i>.srmcfg</i></li> <li>• Library: File name extension <i>.srmlib</i></li> </ul>
	<b>Save</b>	Saves the file currently active in the <b>Configuration</b> side window or the <b>Library</b> side window.
	<b>Save As</b>	Opens the standard Windows dialog for saving a file. You can save the configuration data or library data under a selectable file name and in a selectable folder.
	<b>Save All</b>	Saves all the currently active files under their existing names.
	<b>Exit</b>	Closes the operating software. The program asks you if you want to save any changed data before closing.

## 2.2 Configuration

The *Configuration* view contains the following sections:

### Icon bar

The Icon bar in the *Configuration* view contains the following groups:

- ✚ [Edit Library or Configuration \(page 39\)](#)
- ✚ [Category Details \(page 38\)](#)
- ✚ [Import/Export \(page 40\)](#)
- ✚ [Communication \(page 38\)](#)
- ✚ [Reset Actual Window Layout \(page 41\)](#)

⇒ Click on one of the items to display it.

### Main windows

- ✚ [Antenna \(page 45\)](#)
- ✚ [Cable \(page 47\)](#)
- ✚ [Standard \(page 48\)](#)
- ✚ [Service Table \(page 49\)](#)
- ✚ [Setup \(page 50\)](#)
- ✚ [Measurement Routine \(page 50\)](#)

⇒ Click on one of the items to display it.

### Pull-out menus

- ✚ [Configuration window \(page 53\)](#)
- ✚ [Library window \(page 53\)](#)
- ✚ [Graph view window \(page 53\)](#)
- ✚ [Data View Options window – Configuration \(page 54\)](#)

⇒ Click on one of the items to display it.

## 2.3 Database

The *Database* view contains the following sections:

### Icon bar

- ↗ [Selection \(page 42\)](#)
- ↗ [Export \(page 39\)](#)
- ↗ [Device \(page 38\)](#)
- ↗ [Reset Actual Window Layout \(page 41\)](#)

⇒ Click on one of the items to display it.

### Main window

- ↗ [Values device memory \(page 52\)](#)

⇒ Click on one of the items to display it.

### Pull-out menus

- ↗ [Device Memory window \(page 55\)](#)
- ↗ [General information window \(page 55\)](#)

⇒ Click on one of the items to display it.

## 2.4 Options

The *Options* view contains the following sections:

### Icon bar

- ↗ [Settings \(page 42\)](#)
- ↗ [Communication \(page 38\)](#)
- ↗ [Firmware Update \(page 39\)](#)
- ↗ [Information \(page 41\)](#)
- ↗ [Activate Options \(page 37\)](#)
- ↗ [Reset All Window Layouts \(page 41\)](#)
- ↗ [Save Device Info \(page 41\)](#)
- ↗ [SW Update \(page 43\)](#)

⇒ Click on one of the items to display it.

## 3 Icon bar

The Icon bar contains the following icon groups:


- ↗ [Activate Options \(page 37\)](#)
- ↗ [Category Details \(page 38\)](#)
- ↗ [Communication \(page 38\)](#)
- ↗ [Device \(page 38\)](#)
- ↗ [Edit Library or Configuration \(page 39\)](#)
- ↗ [Export \(page 39\)](#)
- ↗ [Firmware Update \(page 39\)](#)
- ↗ [Import/Export \(page 40\)](#)
- ↗ [Information \(page 41\)](#)
- ↗ [Reset Actual Window Layout \(page 41\)](#)
- ↗ [Reset All Window Layouts \(page 41\)](#)
- ↗ [Save Device Info \(page 41\)](#)
- ↗ [Selection \(page 42\)](#)
- ↗ [Settings \(page 42\)](#)
- ↗ [SW Update \(page 43\)](#)

The corresponding menu command is shown in plain text when you move the mouse pointer over the icon.

⇒ Click on one of the items to display it.




### 3.1 Activate Options

This group of icons is only used in the [Options](#) view.

Icon	Explanation
	Enables the activation of options. See <a href="#">Activating options (page 31)</a>

### 3.2 Category Details

This group of icons is only used in the [Configuration](#) view.



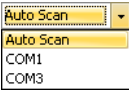
Icon	Explanation
	Adds a new value. You can add various values, depending on the selected tab: <ul style="list-style-type: none"> <li>• <b>Antenna</b> or <b>Cable</b>: Calibration points</li> <li>• <b>Standard</b>: Field values for E-field / H-field</li> <li>• <b>Service Table</b>: Service table items</li> </ul>
	Deletes a value.
	Edits a value.

### 3.3 Communication

This group of icons is used in the following views:

↗ [Configuration](#) (page 35)


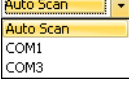
↗ [Options](#) (page 36)

Icon	Explanation
	Transfers all configuration data from the SRM-3006 to the PC. This button is only available in <b>Configuration</b> view. Configuration data does not have to be saved on the PC. If the data has not been saved yet, * is shown in the title bar of the side window. A configuration file with the file name extension .srmcfg is not formed until you save the configuration data on the PC.
	Transfers all data from the PC to the SRM-3006. This button is only available in <b>Configuration</b> view. You can download configuration files or libraries from the PC to the instrument.
	<b>Interface selection</b> Selects the PC interface connected to the SRM-3006. <b>Auto Scan</b> is selected by default. This automatically detects and recognizes the interface used.

### 3.4 Device








This group of icons is used in the following views:

↗ [Database](#)

Icon	Explanation
	Reads out the measurement data from the SRM-3006.
	<b>Interface selection</b> Selects the PC interface connected to the SRM-3006. <b>Auto Scan</b> is selected by default. This automatically detects and recognizes the interface used.



### 3.5 Edit Library or Configuration

This group of icons is only used in the [Configuration](#) view.

Icon	Explanation
	Adds an element in the <i>Configuration</i> or <i>Library</i> side windows.
	Deletes an element in the <i>Configuration</i> or <i>Library</i> side windows.
	Creates a new standard based on an existing one. This icon is only available if you have selected the <b>Standard</b> tab.
	Cuts an element out from the <i>Configuration</i> or <i>Library</i> side windows. The element that was cut out is placed on the clipboard and can be pasted into the other side window.
	Copies an element in the <i>Configuration</i> or <i>Library</i> side windows. The element that was copied is placed on the clipboard and can be pasted into the other side window.
	Pastes an element into the <i>Configuration</i> or <i>Library</i> side windows. A previously copied element is pasted from the clipboard.
	Directly copies an element from one side window to the other.


### 3.6 Export

This group of icons is only used in the [Database](#) view.

Icon	Explanation
	Exports data as a csv file. This button is only available in <b>Database</b> view. See also: <a href="#">Exporting data sets to a csv file (page 29)</a>
	Copies the view of the active window on to the clipboard. The view can then be pasted into another location (e.g. in a word processing or spreadsheet application). See also: <a href="#">Exporting data sets to a csv file (page 29)</a>



### 3.7 Firmware Update

This group of icons is only used in the [Options](#) view.


Icon	Explanation
	Transfers the firmware to the SRM-3006. See also: <a href="#">Updating the SRM-3006 firmware (page 31)</a> .


### 3.8 Import/Export

This group of icons is used in the [Configuration](#) view.

Icon	Explanation
	Imports values for a category from a file. See also: <a href="#">Loading and saving configuration data (page 12)</a> and <a href="#">Import Wizard dialog (page 40)</a>
	Copies the view of the active window on to the clipboard. The view can then be pasted into another location (e.g. in a word processing or spreadsheet application). See also: <a href="#">Loading and saving configuration data (page 12)</a>

#### Import Wizard dialog

When you click on the Import icon  the *Import Wizard* dialog opens. The following selections are available:

Designation	Possible selections
<b>Select Configuration or Library</b>	Data set type: <ul style="list-style-type: none"> <li>• Configuration</li> <li>• Library</li> </ul>
<b>Import type</b>	Category into which the data are to be imported: <ul style="list-style-type: none"> <li>• Antenna</li> <li>• Cable</li> <li>• Service Table</li> <li>• Standard</li> </ul>
<b>CSV column separator</b>	Character used to separate columns in the CSV file: <ul style="list-style-type: none"> <li>• Semicolon</li> <li>• Tabulator</li> <li>• Comma</li> </ul>
<b>Decimal separator</b>	Decimal point character: <ul style="list-style-type: none"> <li>• Dot</li> <li>• Comma</li> </ul>
<b>Select folder</b>	Click on the  button to open the default Windows dialog for selecting a file. Click on the <b>Finish</b> button to load the file.

If the settings are correct, the values in the file will be shown in the lower part of the window as a table, i.e. arranged in columns.





If the import file is not valid, an error message is displayed and a log file (updatefix.log) containing details of the error is generated.

All the imported values are appended to the items that already exist; existing items are neither deleted nor overwritten.



### 3.9 Information

This group of icons is only used in the [Options](#) view.


Icon	Explanation
	Displays information about the software version.
	Opens the online Help.
	Opens the read me file containing important information about the software.
	Opens the document containing the license agreements.

### 3.10 Reset Actual Window Layout

This icon is used in the following views:


↗ [Configuration \(page 35\)](#)

↗ [Database \(page 36\)](#)

Icon	Explanation
	Resets all the window settings of the current menu to their original states.


### 3.11 Reset All Window Layouts

This icon is only used in the [Options](#) view.

Icon	Explanation
	Resets all the window settings of all the menus to their original states.



### 3.12 Save Device Info

This icon is only used in the [Options](#) view.

Icon	Explanation
	Saves information about the SRM-3006 in a file, such as the serial number, firmware version and date of last calibration.


### 3.13 Selection

This group of icons is only used in the [Database](#) view.

Icon	Explanation
	Selects a single, marked data set. Click again to deselect.
	Selects all the data sets. Click again to deselect.

### 3.14 Settings

This group of icons is only used in the [Options](#) view.

Icon	Explanation
	<b>Language</b> Selects the language used for the user interface.
	Changes the basic settings. Opens the <i>Settings</i> dialog for setting: <ul style="list-style-type: none"> <li>• data formats</li> <li>• export options</li> <li>• default directories</li> <li>• GPS settings</li> <li>• various measurement options</li> </ul>

The dialog contains the following tabs:

#### Date / Time

Section	Explanation
<b>Date Format</b>	Selects the date format used: <ul style="list-style-type: none"> <li>• <b>DD</b>: day</li> <li>• <b>MM</b>: month</li> <li>• <b>YYYY</b>: year</li> </ul>
<b>Time Format</b>	Selects the format for time information. If you select <b>12h</b> format, <b>am</b> or <b>pm</b> is added to the time indicated.
<b>Synchronization</b>	<ul style="list-style-type: none"> <li>• <b>Check deviation automatically:</b> The PC software constantly compares the instrument time and the PC time. If the difference exceeds a certain value, a window opens where you can adjust the instrument time to match the PC time.</li> <li>• <b>Request for confirmation:</b> If this is activated, you will be asked to confirm the time correction if a difference is detected by the automatic check. Otherwise, the correction is made without confirmation.</li> </ul>

## Directories

Designation	Explanation
<b>Database</b>	Default directory that is displayed when you open existing databases or generate new databases.
<b>Configuration / Library</b>	Default directory that is displayed when you open and save configuration files or library files.
<b>Export to</b>	Default directory in which files are saved when you export data.
<b>Import from</b>	Default directory that is used when you import data.
<b>Report</b>	Default directory in which reports are saved.

## Miscellaneous

Section	Explanation
<b>Calibration Reminder</b>	Information indicating if and when a message should be displayed in the PC software about a calibration that is due.

## CSV Export


Section	Explanation
<b>Decimal Separator</b>	Selects the decimal separator character to be used in the exported csv files.
<b>Format Separator</b>	Selects the character to be used to separate individual values from each other in the csv file. <b>You must select a character that is not the same as the decimal separator.</b>

## GPS

Section	Explanation
<b>GPS Format</b>	Selects the format to be used to display the GPS data. The setting you choose here is applied regardless of the setting on the measuring set.
<b>GPS Altitude</b>	Selects the units used for indicating heights. Heights are only shown when the satellite constellation is suitable.

### 3.15 SW Update

This icon is only used in the [Options](#) view.

Icon	Explanation
	Checks whether a newer version of the software is available. The corresponding selection page on the Narda website opens. Internet access is required for this.



## 4 The Configuration menu – Main window

This section contains six tabs which correspond to the six classes of configuration data. Most of these elements can only be selected but not edited in the SRM-3006.

The display depends on the tab selected.

Tab	Explanation
<b>Antenna</b>	Create and manage antenna factor lists for non-Narda antennas (only applies to the <b>Antenna</b> , <b>Cable</b> , <b>Service</b> and <b>Setup</b> tabs). You do not need to enter antenna factors for Narda antennas because the SRM-3006 detects them automatically.
<b>Cable</b>	Create and manage cable attenuation lists for non-Narda cables. You do not need to enter cable attenuations for Narda cables because the SRM-3006 detects them automatically.
<b>Standard</b>	Manage human safety standards. Create user defined evaluation curves (names always prefixed by USR_).
<b>Service Table</b>	Create and manage service tables.
<b>Setup</b>	Manage measurement profiles (setups).
<b>Measurement Routine</b>	Run several setups consecutively.

⇒ Click on one of the items to display it:

- ⇒ [Antenna \(page 45\)](#)
- ⇒ [Cable \(page 47\)](#)
- ⇒ [Standard \(page 48\)](#)
- ⇒ [Service Table \(page 49\)](#)
- ⇒ [Setup \(page 50\)](#)
- ⇒ [Measurement Routine \(page 50\)](#)

### 4.1 Antenna

This data defines an antenna or a sensor and can be imported.

All the values in the SRM-3006 can be displayed in terms of field strength units by applying the antenna factors, which describe the relationship between the field strength present and the voltage generated by it at the base of the antenna. Antenna factor lists are provided by the antenna manufacturers and are usually found in the calibration report.

You do not need to enter antenna factors for Narda antennas because the SRM-3006 detects them automatically.

Information in the **Antenna Information** and **Configuration** or **Library** sections can be selected and then edited directly by simply clicking on the corresponding fields.

The **Antenna Information** section contains the following data:

Title	Explanation
<b>Short name</b>	Abbreviated name for the antenna
<b>Long name</b>	Long name of the antenna
<b>Manufacturer</b>	Manufacturer's name
<b>Device Name</b>	Antenna name
<b>Model</b>	Model
<b>Serial Number</b>	Antenna serial number
<b>Calibration Date</b>	Date of the last calibration
<b>Minimum Frequency</b>	Lower / upper frequency limits from the list of calibration points. The smallest and largest frequency values from the list are entered automatically.
<b>Maximum Frequency</b>	
<b>Property</b>	Antenna measurement property: "E-Field", "H-Field" or "Current"
<b>MNOL</b>	Maximum nominal output level of the antenna. Entering this parameter prevents the SRM-3006 from being overdriven, avoiding the resulting measurement error. The SRM-3006 restricts the Measurement Range selection accordingly. If you do not enter a value in this field, a default value that is suitable for most antennas will be set.
<b>Channels</b>	CH1 (single axis) or CH3 (three axis antenna)

The **Configuration** and **Library** sections contain the following data:

Title	Explanation
<b>Calibration Points</b>	<p>List of antenna calibration points.</p> <p>The left hand column (<b>Frequency</b>) contains the calibration frequency. The right hand column (<b>Gain</b>) shows the antenna factor or the antenna gain that was determined during the calibration.</p> <p>The SRM-3006 uses antenna factors internally. Entries of antenna gain will be converted automatically to antenna factors depending on the antenna type (E-field or H-field). Two calibration points are required in order to define the antenna.</p> <p>Some manufacturers provide text files (file name extension .txt) with their antennas, which list the calibration points. These files can be imported (see <a href="#">Import Wizard dialog (page 40)</a>).</p>

**Note:** The PC software always uses units of electric field strength internally. If necessary the software automatically converts the results for display from electric field strength (V/m) into magnetic field strength (A/m). Magnetic calibration data must therefore be entered as electric antenna factors (or as antenna gain).

## 4.2 Cable

These data define a RF cable.

The effects of the connecting cable can be taken into account when determining the measurement value by applying the cable attenuation factors. The SRM-3006 then displays the corrected measurement value.

**Note:** You do not need to enter cable attenuations for Narda cables because the SRM-3006 detects them automatically.

Information in the **Cable Information** and **Configuration** or **Library** sections can be selected and then edited directly by simply clicking on the corresponding fields.

The **Cable Information** section contains the following data:

Title	Explanation
<b>Short name</b>	Abbreviated name for the cable
<b>Long name</b>	Long name of the cable
<b>Manufacturer</b>	Manufacturer's name
<b>Device Name</b>	Cable name
<b>Model</b>	Model
<b>Serial Number</b>	Cable serial number
<b>Calibration Date</b>	Date of the last calibration
<b>Minimum Frequency</b>	Lower / upper frequency limits from the list of calibration points. The smallest and largest frequency values from the list are entered automatically.
<b>Maximum Frequency</b>	

The **Configuration** and **Library** sections contain the following data:

Title	Explanation
<b>Calibration Points</b>	<p>List of cable calibration points.</p> <p>The left hand column (<b>Frequency</b>) contains the calibration frequency. The right hand column (<b>Attenuation Factor</b>) contains the cable attenuation factor that was determined during the calibration.</p> <p>New calibration points can be recorded using the <b>Add new Item</b> command in the context menu (right mouse click).</p> <p>Some manufacturers provide text files (file name extension .txt) with their cables, which list the calibration points. These files can be imported (see <a href="#">Import Wizard dialog (page 40)</a>).</p>

### 4.3 Standard

Using this data, the limit value curve can be defined to correspond with a human safety standard. This allows the results from the SRM-3006 to be displayed relative to permitted limit values.

A human safety standard is defined by a frequency-dependent limit value curve for the E-field and the H-field. The curve is defined by the parameters Lower Frequency / Upper Frequency / Value For Frequency Range.

**Note:** Human safety standards generally describe statutory requirements. For this reason, you cannot edit the original data, only the copies.

New or edited human safety standards can be loaded from a library (file name extension .srmlib) and transferred to the SRM-3006. You can also define your own entries as standards.

Information in the **Standard Information** and **Configuration** or **Library** sections can be selected and then edited directly by simply clicking on the corresponding fields.

The **Standard Information** section contains the following data:

Title	Explanation
<b>Short name</b>	Abbreviated name for the human safety standard
<b>Long name</b>	Long name for the human safety standard
<b>Start Frequency E-Field</b>	Lowest frequency for entering a standard in the E-field
<b>Start Frequency H-Field</b>	Lowest frequency for entering a standard in the H-field

The **Configuration** and **Library** sections contain the following data:

Title	Explanation
<b>E-Field</b>	Window for displaying the electric field parameters
<b>H-Field</b>	Window for displaying the magnetic field parameters
<b>Lower Frequency</b>	Lower limit of a frequency range section
<b>Upper Frequency</b>	Upper limit of a frequency range section
<b>Value For Frequency Range</b>	The curve shape is defined by the function: $\text{Value [V/m]} = (\text{Value for Frequency Range}) \times \text{Frequency}^{\text{Value}}$ Where: <ul style="list-style-type: none"> <li>Value for Frequency Range: constant (if the curve is horizontal (Value = 0) this is the limit value)</li> <li>Formula: Type <math>*f^{\wedge} = x f</math>, <math>/f^{\wedge} = 1/f</math></li> <li>Value: Direction and height of gradient</li> </ul> <b>Examples:</b> <ul style="list-style-type: none"> <li>1 MHz / 10 MHz / 60 / <math>*f^{\wedge} / 0</math>: Flat from 1 MHz to 10 MHz with the value 60 V/m</li> <li>1 MHz / 10 MHz / 60 / <math>*f^{\wedge} / -1</math>: Straight line falling from 60 V/m at 1 MHz to 6 V/m at 10 MHz</li> <li>1 MHz / 10 MHz / 60 / <math>*f^{\wedge} / 0,5</math>: Straight line rising from 60 V/m at 1 MHz to 189.74 V/m at 10 MHz (<math>60 \times 10^{0,5}</math>)</li> </ul>
<b>Formula</b>	
<b>Value</b>	



## 4.4 Service Table

A service table contains up to 50 frequency ranges, each of which are assigned to particular services or service providers. Evaluation in the SRM-3006 selectively measures the field exposure level in the frequency ranges of the services defined by them.

Information in the **Service Table Information** and **Configuration** or **Library** sections can be selected and then edited directly by simply clicking on the corresponding fields.

### Service Table Information

Title	Explanation
Short name	Abbreviated name for the service table
Long name	Long name of the service table

### Service Table

Title	Explanation
Service Table	You can also use the data from text files that contain a list of frequency bands. These files can be imported (see <a href="#">Import Wizard dialog (page 40)</a> ).
Lower Frequency	Lower limit of a frequency band
Upper Frequency	Upper limit of a frequency band
Service Name	Name for the service band
RBW (resolution bandwidth)	Possible settings: <ul style="list-style-type: none"> <li>• manual (by selection from the drop-down list)</li> <li>• automatic (by activating the <b>Calculate RBW</b> check box)</li> </ul> The RBW is needed so that individual services are measured correctly.

### Add new Item

Right click in a line and select **Add new Item** to open the *Add new Service Table Entry* window.

Also see: [Entering a new value \(page 23\)](#)

Title	Explanation
Lower Frequency	Lower limit of a frequency band
Upper Frequency	Upper limit of a frequency band
Service Name	Name for the service band
RBW	Manual selection of RBW (only active if Calculate RBW is inactive)
Calculate RBW	Activates the RBW calculation function
Generate channel numbers	<ul style="list-style-type: none"> <li>• <b>Band:</b> Drop-down list for selecting a band</li> <li>• <b>Channel:</b> Box for entering a channel number</li> <li>• <b>Assign:</b> Identifies the channels according to the settings in the <b>Band</b> and <b>Channel</b> boxes.</li> </ul>

Title	Explanation
<b>Add to List</b>	Adds the new item to the list but leaves the entry window open.
<b>Add and Close</b>	Adds the new item to the list and closes the entry window.
<b>Close</b>	Closes the entry window without adding the item to the list.

## Create Channels

Right clicking in a line and selecting **Create Channels** opens the *Add new Service Table Entry* window.

See also: [Generating channel numbers \(page 24\)](#)

Title	Explanation
<b>Band</b>	Selects the band from a drop-down list.
<b>First Channel</b>	Entry of the first channel
<b>Last Channel</b>	Entry of the last channel
<b>Increment</b>	Channel spacing

The channels resulting from the information entered for First Channel, Last Channel and Increment are calculated and added to the selected band when you click on **Add to List**.

## 4.5 Setup

A setup describes a complete measurement setting for the SRM-3006, which can only be edited on the SRM-3006 itself.

The **Configuration** and **Library** sections contain the available setups.

The **Setup** section contains the following data:

Detail	Explanation
<b>Long name</b>	Long name of the measurement routine (maximum 35 characters)

The **Detail** section contains the settings saved in the selected setups. The elements displayed can vary depending on the setup.

## 4.6 Measurement Routine

A measurement routine is a set of setups that are run in a particular order.

Information in the **Measurement Routine Information** and **Configuration** or **Library** sections can be selected and then edited directly by simply clicking on the corresponding fields.

The **Measurement Routine Information** section contains the following data:

Detail	Explanation
<b>Long name</b>	Long name of the measurement routine

The **Configuration** and **Library** sections contain the following data:

Title	Explanation
<b>Setup Name</b>	Name of the setup Only setups saved in the <b>Setup</b> category are shown in the drop-down list.
<b>Storing Condition</b>	Condition for storing: <ul style="list-style-type: none"><li>• Time: Controlled by the time period</li><li>• No. of Runs: Controlled by the number of measurement runs</li><li>• User: Controlled by the user manually</li></ul>
<b>Measurement Time</b>	For Storing Condition = Time: Entry of the time period
<b>No. of Runs</b>	For Storing Condition = No. of Runs: Entry of the number of measurement runs.
<b>Automatic Next Step</b>	Specifies whether the next setup is started automatically or manually: <ul style="list-style-type: none"><li>• ON = automatic start</li><li>• OFF = manual start</li></ul>
<b>Text</b>	Entry of explanatory text

## 5 The Database menu – Main window

The **Values device memory** window shows the content of the selected measurement data set.

↩ [Values device memory \(page 52\)](#)

### 5.1 Values device memory

The content displayed depends on the selected measurement data set. Possible content:

- In Safety Evaluation mode: Fmin, Fmax, Service Name, RBW, measurement values, ...
- In Spectrum Analysis mode: Frequency, measurement values, ...
- Screenshots


## 6 Side window

The side windows and their contents depend on the selected menu and the category.

### 6.1 Configuration window

Available in the **Configuration** menu.

This side window contains the configuration data of the SRM-3006. It is used as a buffer for data that have been uploaded from the SRM-3006 or which are to be downloaded to the SRM-3006. These intermediate stages can be saved as configuration files or as libraries (see [Communication](#) icon group). The configuration data does not need to be saved on the PC. An asterisk \* is shown in the side window title if the data has not been saved yet.

Configuration files or libraries can be downloaded to the instrument by clicking on the  icon. A configuration file with the file name extension .srmcfg is not formed until you save the configuration data on the PC.

**Note:** You do not need to connect the SRM-3006 to the PC to edit the configuration data on the PC. The connection is only needed when you want to transfer data.

### 6.2 Library window

Available in the **Configuration** menu.

This window displays all the configurations saved in a library. As many configurations as you like can be managed and saved. Existing configurations can be edited, moved, imported or deleted. New configurations can be created, edited, moved or saved.

A library file with the file name extension .srmlib is not formed until you save the library data on the PC.

**Note:** You do not need to connect the SRM-3006 to the PC to edit the configuration data on the PC. The connection is only needed when you want to transfer data.

The library data does not need to be saved on the PC. An asterisk \* is shown in the window title if the data has not been saved yet.

### 6.3 Graph view window

Available in the **Configuration** menu.

The data entered in the main window is shown in the side window as a graph (for the **Antenna**, **Cable**, **Standard** and **Service Table** tabs).

An additional marker function is available for the **Antenna**, **Cable** and **Standard** tabs.

You can set the view properties in the [Data View Options window – Configuration](#) side window.

⇒ To change the graphical display, see [Changing the graphical display \(page 9\)](#).

## 6.4 Data View Options window – Configuration

Available in the **Configuration** menu.

Here you can set the properties of the graph display in the [Graph view window](#) side window.

**Note:** Changes to view parameters are temporary and are only applied to the data set being viewed at the moment.


All parameters except the color settings are reset when the next data set is displayed.

The *Data View Options* side window contains the following sections:

### Default

Click on the **Reset Settings** button to reset all changed display settings to the original default settings stored in the instrument.

### Graphical Zoom

Click on the  button to enter the values you want to form the limits of the section displayed in the graph area.

### Units

Item	Explanation
Unit	Selects the units for the measured field strength. The units used to make the measurement are selected by default. Standard weighted measurements only give results in %; other units cannot be selected.


### Style

Item	Explanation
Line Color	Selects the color used to display the line in the graph area.
Line Width	Selects the thickness of the line displayed in the graph area.

## 6.5 Device Memory window

Available in the **Database** menu.

This window displays the data stored in the SRM-3006:

Item	Explanation
<b>Index</b>	Consecutive index number. Data sets are selected for export using the check box. The index is followed by an apostrophe for screenshots (e.g. 1')
<b>Sub</b>	Consecutive index number for sub data sets. Sub data sets occur with timer- or conditionally-controlled measurement sequences.
<b>Info</b>	Measurement type information
<b>Mode</b>	Information about the type of measurement or data: <ul style="list-style-type: none"> <li>• Man = manual measurement</li> <li>• Auto = automatic measurement</li> <li>• Image = screenshot</li> </ul>
	Indicates that a voice comment is available.
<b>Date / Time</b>	Date of recording
<b>Comment</b>	Voice comment

## 6.6 General information window

Available in the **Configuration** menu.

This window shows all the parameters for the displayed data set.

Available in the menu.



You can set the integration limits as follows:

1. Drag the red limiting lines to the desired positions in the diagram by holding down the left mouse button.
2. Enter the smallest and largest integration frequencies numerically.
3. Enter the center frequency and the bandwidth numerically.

The other displays are adjusted accordingly when you use one of these methods of entry.

## 7 Status bar

This section indicates the current status of the program as follows:

Item	Explanation
<b>Disconnected</b> 	No connection is active at the moment.
<b>Transferring</b> 	Data are being transferred e.e. when uploading measurement data.



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# Index

## A

Activating options 31  
Antenna, creating and editing configurations 17

## C

Cable configurations, Creating and editing 18  
Calibration point, entering/editing/deleting 18  
Category, definition 2  
Channel numbers, generating 24  
Clipboard  
    Copying contents to 29  
    Using in configuration 14  
Comment, replaying voice 30  
Configuration  
    Creating and editing for antennas 17  
    Creating and editing for cables 18  
    Creating and editing for measurement standards 20  
    Creating and editing measurement routines 26  
    Creating and editing service tables 22  
    Editing setups 25  
    Entering, editing, deleting a calibration point 18  
    Example data 11  
    Import Wizard 13  
    Importing individual data 13  
    Loading and saving data 12  
    Tips on editing 15  
    Using the clipboard 14  
Configuration test data 11  
Connection  
    serial 6  
    USB 3  
CSV, exporting data sets to 29  
Curve style, changing 10

## D

Data set, definition 2  
Default view, restoring 9  
Definition  
    Category 2  
    Data set 2  
    Drop-down bar 2  
    Drop-down field 2  
    Frame 2  
    Metadata 2  
    Values 2  
    Window 2  
    Window bar 2  
Display, changing graphical 9  
Displaying measurement data 28  
Drop-down bar, definition 2  
Drop-down field, definition 2

## E

Editing, tips on editing configurations 15  
Example configuration data 11  
Exporting data sets to csv 29

## F

Firmware, updating 31  
Frame, definition 2

## G

Generating channel numbers 24  
Graphical display, changing 9

## I

Import Wizard 13  
Installing the USB driver 4

## L

Loading measurement data 28

## M

Measurement data  
    displaying 28  
    loading 28  
Measurement routines, creating and editing 26  
Measurement standards, creating and editing 20  
Metadata, definition 2

## O

Options, activating 31

## R

Replaying a voice comment 30  
Restoring the default view 9

## S

Screen designations 1  
Serial connection 6  
Service tables, creating and editing 22  
Settings, changing 7  
Setups, editing 25  
Side window  
    Editing the view 7  
    Restoring the default view 9  
Standards, creating and editing 20  
Style, changing 10

## U

Units, changing 10  
Updating the firmware 31  
USB  
    Connection 3  
    Installing the driver 4

**V**

Values, definition 2

View, restoring default 9

**W**

Window bar, definition 2

Window, definition 2

**Z**

Zooming 9



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