

Livemeasurements Datastorage Management Settings

**Management**  
Protocols can be exported as CSV and PDF

Livemeasurements Datastorage Management Settings

**Management**  
Intuitive navigation between customers, sites and protocols

Livemeasurements Datastorage Management Settings

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Original user manual

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<b>1</b>	<b>License conditions.....</b>	<b>5</b>
1.1.	Installing MRU4win .....	5
1.2.	Unlocking 30-Day-Trailversion.....	6
1.3.	Unlocking full version.....	7
<b>2</b>	<b>Program description.....</b>	<b>9</b>
2.1.	Livemeasurements .....	9
2.2.	Datastorage.....	9
2.3.	Management .....	9
2.4.	Settings.....	9
<b>3</b>	<b>Connecting measuring device to MRU4win .....</b>	<b>10</b>
3.1.	Connecting measuring device via USB.....	10
3.2.	Connecting the measuring device via Bluetooth .....	11
3.3.	Connecting the Modbus Device .....	12
3.4.	Connect remote device.....	14
<b>4</b>	<b>Livemeasurements .....</b>	<b>19</b>
4.1.	Start measurement.....	19
4.2.	Configuring display format .....	20
4.3.	Selecting measured values .....	21
4.4.	Viewing Detail Information.....	23
4.5.	Assigning a measurement protocol .....	23
	Assigning measurement protocol to a site. ....	23
	Do not assign the measuring protocol to a site.....	25
<b>5</b>	<b>Datastorage .....</b>	<b>26</b>
5.1.	Transferring sites from measuring device to PC.....	26
5.2.	Transferring sites to measuring device .....	27
5.3.	Transferring all sites to the measuring device.....	29
<b>6</b>	<b>Management .....</b>	<b>30</b>
6.1.	Create new customer.....	30
6.2.	Assign and create new site .....	32
6.3.	Editing existing customer data.....	33
6.4.	Editing existing site data .....	34
6.5.	Creating employees .....	36
6.6.	Creating your own address .....	37
6.7.	Importing data via CSV .....	37
6.8.	Displaying list of all sites .....	39
	Displaying all sites .....	39
	Displaying not assigned sites .....	40
6.9.	Displaying measurement protocols .....	40

Displaying all measurement protocols.....	40
Displaying not assigned protocols.....	41
Assigning not assigned protocols to a site .....	41
Exporting measurement protocol via CSV.....	43
6.10. Measurement protocol - Create PDF by template.....	44
Creating a template file .....	44
Create PDF file from template file .....	46
6.11. Create PDFs for Usability Test .....	48
6.12. Create multiple PDFs (Batch) .....	50
Create all measurements of a site as PDF.....	50
Create all measurements of a customer as PDF .....	53
6.13. Capture signature with pen for PDF export.....	55
<b>7 Settings .....</b>	<b>57</b>
7.1. General Settings .....	57
Editing PDF Templates.....	57
Request Remote Support.....	59
7.2. Setting units.....	60
Setting pressure .....	60
Setting Temperature.....	61
Setting Energy related.....	61
7.3. Configuring measurement.....	61
Setting Sampling rate.....	61
Setting Default Graph Span .....	62
Setting Average (points).....	62
Setting Max protocol duration.....	62
Setting Timed measurement .....	63
7.4. Creating a backup of the database .....	63
7.5. Configuring CSV export.....	66
7.6. Setting language.....	66
7.7. Showing Help Function.....	67
7.8. Showing Licence Info.....	67
7.9. Showing version number .....	68

# 1 License conditions

MRU4Win is offered in a light version and a full version.

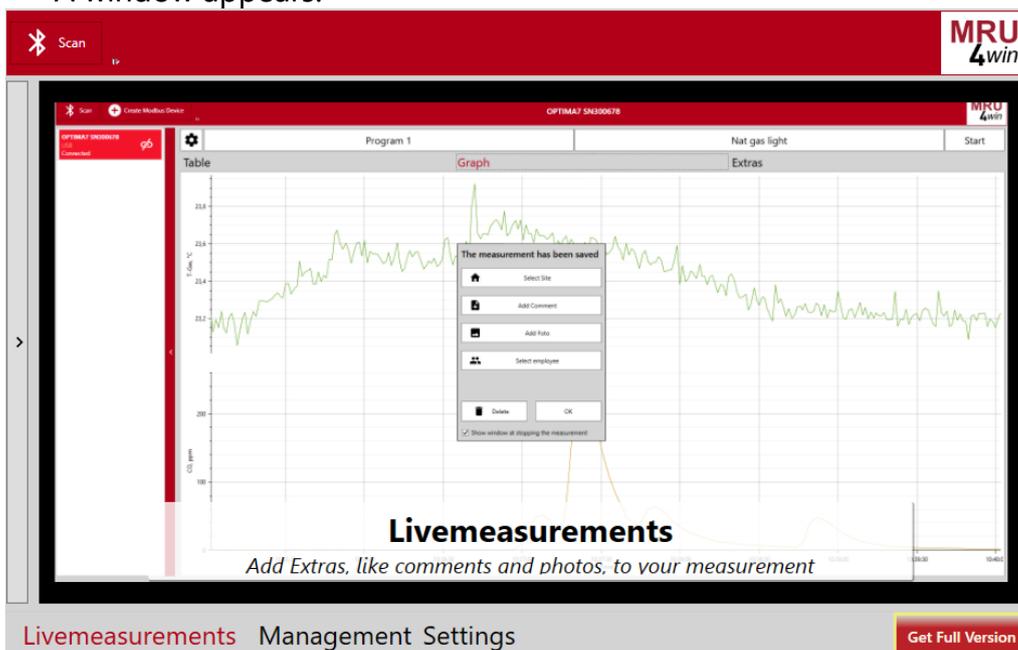
The light version of MRU4Win is freely available.

You can install the light version of MRU4Win as often as you like and use it for an unlimited period of time. But the light version has limitations.

You must unlock the full version of MRU4win to use the full range of functions.

## 1.1. Installing MRU4win

- ▶ Click on the setup file.
  - ⇒ A window appears.
- ▶ Select the setup language.
- ▶ Click "OK".
  - ⇒ A window appears.
- ▶ Select the desired destination folder.
- ▶ Click "Next".
- ▶ Select additional tasks if necessary.
- ▶ Click „Next“.
  - ⇒ A window appears.
- ▶ Click „Install“.
- ⇒ The light version of MRU4win is installed.
- ▶ Click „Finish“.
- ⇒ A window appears.



## 1.2. Unlocking 30-Day-Trialversion

As long as you have not unlocked the 30-day trial version, the Datastorage category is not active. Activate the 30-day trial version to import and export data.

- ▶ Click "Get Full Version".

⇒ A window appears.

MRU License Manager

Username

Company

License authorization code (if available) ⓘ

Product  
MRU4win, Version=1.0.7.0

Hardware Id  
20F1-A660-AC9A-BCD6-EA81-4C81-DAFA-669C

30-Days-Trial Request License (W/ costs) Load License file

- ▶ Click "30-Days-Trial".

⇒ The 30-Days-Trial is unlocked.  
 ⇒ The category Datastorage becomes active.  
 ⇒ The remaining duration of the 30-day trial version is displayed.

MRU License Manager

Username  
Mustermann

Company  
Mustermann GmbH

License authorization code (if available) ⓘ

Product  
MRU4win, Version=1.0.7.0

Hardware Id  
5CD4-670E-5217-B38C-F49C-BD62-F43F-A6A9

Trial  
29 Day(s)

Resume Trial Request License (W/ costs) Load License file

### 1.3. Unlocking full version

The full version of MRU4Win can only be installed on one computer.

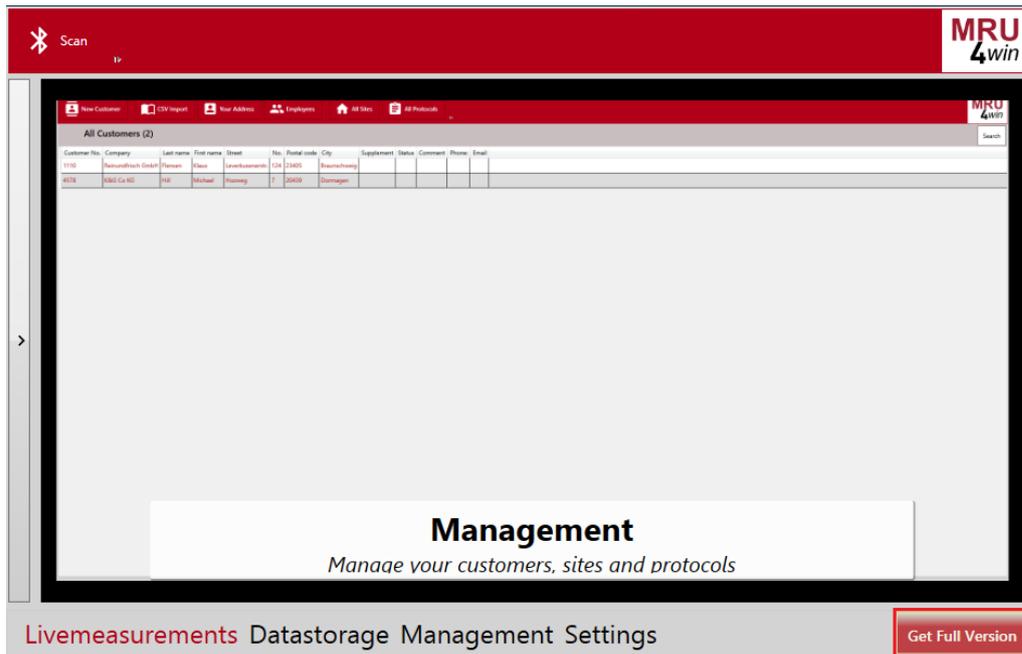
The full version is identified by a Hardware-ID.

Under Settings you can check the license information.

Here the status "light version" is displayed first.

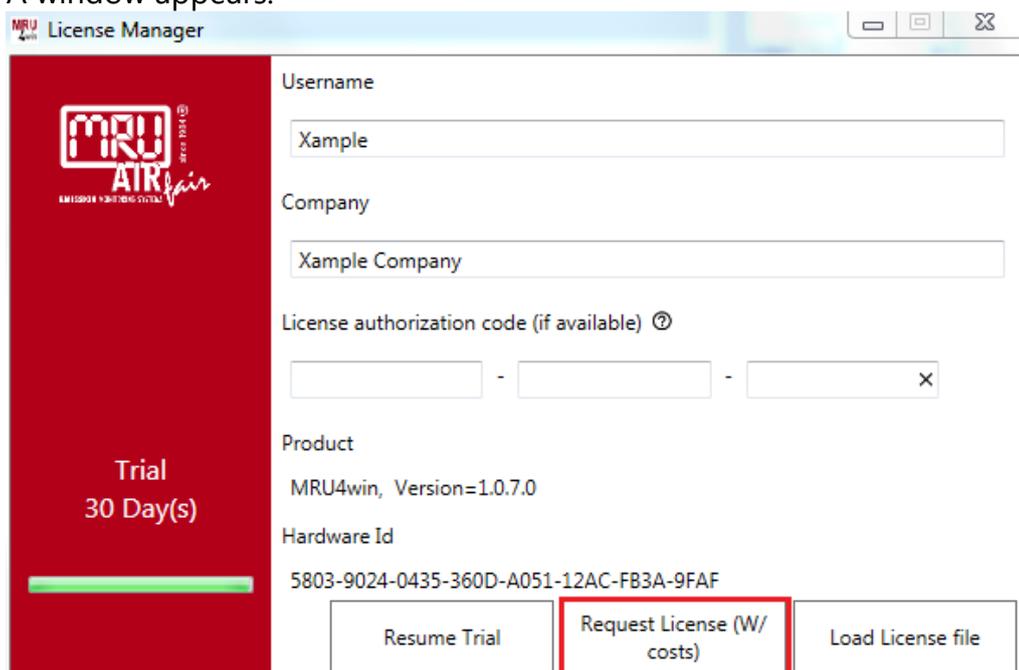
At the same time, a 30-day trial version is offered and the request for a fee-based license.

☞ See Chapter 7.8 Showing Licence Info, S.67.



► Click „Get Full Version“.

⇒ A window appears.



- ▶ Enter the name of the company.
  - ⇒ The button „Request License (W/costs)“ becomes active.
- ▶ Click „Request License (W/costs)“.
  - ⇒ A window appears.
- ▶ Click “Send Mail”.
  - ⇒ A mail to a predefined address is created.
- ▶ Send the mail with this data to MRU GmbH.
  - ⇒ The mail recipient at MRU generates a license authorization code for activating the full version (if necessary, after checking the receipt of payment).
- ▶ Wait until you receive the license authorization code.
- ▶ Enter the received the license authorization code.

## 2 Program description

MRU4win is an address and measurement data management program. MRU4win supports handheld devices that have implemented the DADEx protocol. DADEx is a proprietary MRU protocol. MRU4win also supports industrial devices via the Modbus Interface. MRU4Win supports the simultaneous connection and data recording of several connected devices.

MRU4win is divided into four categories:

### 2.1. Livemeasurements

In the category Livemeasurements, you can display all measured values provided by the measuring instrument. The representation of the measured values is freely configurable. You can display the measured values as text/table form or as a curve graphic. All measured values are stored regardless of the selected display format. The measured values are available at the end of the measurement.

☞ See Chapter 4 Livemeasurements, S. 19.

### 2.2. Datastorage

In the category Datastorage you can read out the data storage of the connected measuring device. Complex measuring sequences such as 4Pa test or leak tests can be read out and stored for further processing.

☞ See Chapter 5 Datastorage, S. 26.

### 2.3. Management

In the category Management you can create customer contacts and assign sites to the customer contacts. For the sites, in turn, you can save individual measurement logs. As soon as you end a live measurement, you can assign the recorded live measurement to a site.

☞ See Chapter 6 Management, S. 30.

### 2.4. Settings

You can make basic settings for MRU4win in the category Settings. For example, you can change the language or units and make a database backup.

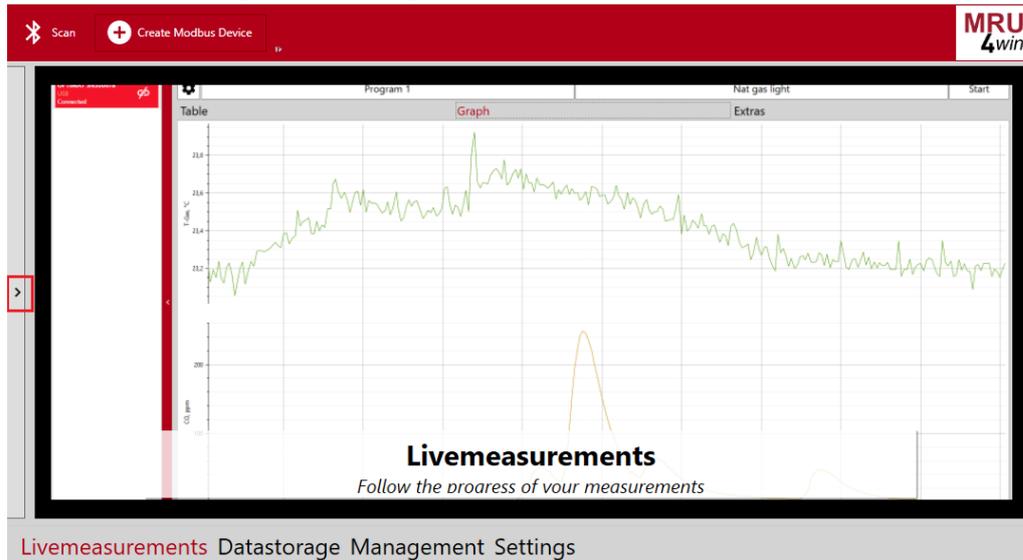
☞ See: Chapter 7 Settings, S 57.

### 3 Connecting measuring device to MRU4win

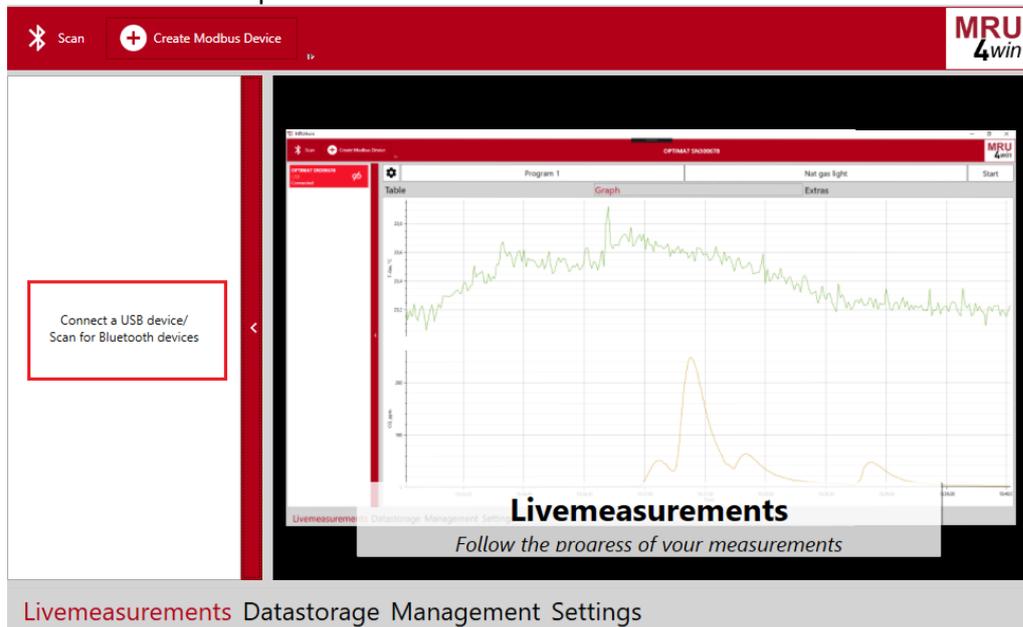
You can connect measuring devices that support the MRU protocol DADEX to MRU4win via USB or Bluetooth.

You can connect Modbus Devices to MRU4win via a Serial Interface or TCP/IP.

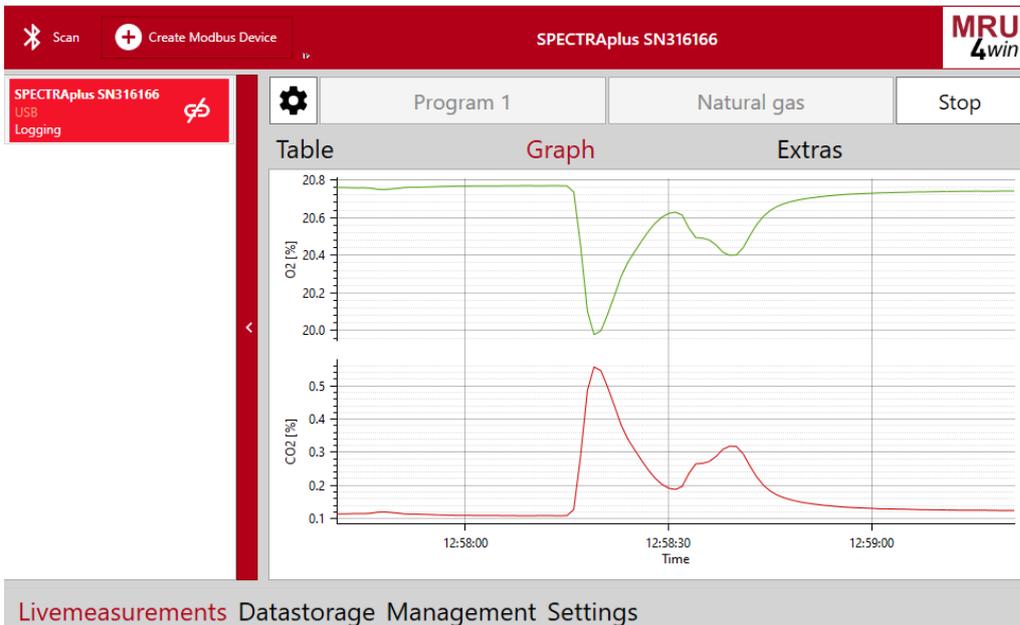
#### 3.1. Connecting measuring device via USB



- ▶ Click ">" on the left side of the interface.
- ⇒ A column opens.



- ▶ Connect the measuring device to the PC.
  - ⇒ The measuring device is automatically recognized.
- ▶ Click on the "Connect-Icon". 
- ⇒ The measuring device is connected.
- ▶ Click "Start".
- ▶ The Livemeasurement starts.



### 3.2. Connecting the measuring device via Bluetooth

- ▶ Note that the measuring device is not automatically recognized when connected via Bluetooth.
- ▶ Couple the measuring device with your operating system.
- ▶ Click ">" on the left side of the interface.
  - ⇒ A column opens.
- ▶ Click "Scan".
  - ⇒ The measuring device is recognized.
- ▶ Click on the "Connect-Icon". 
- ⇒ The measuring device is connected.
- ▶ Click "Start".
  - ⇒ The Livemeasurement starts.

### 3.3. Connecting the Modbus Device

- ▶ You can connect Modbus devices with MRU4win via a serial interface (RS 485).
- ▶ You can connect Modbus devices to MRU4win via a TCP/IP

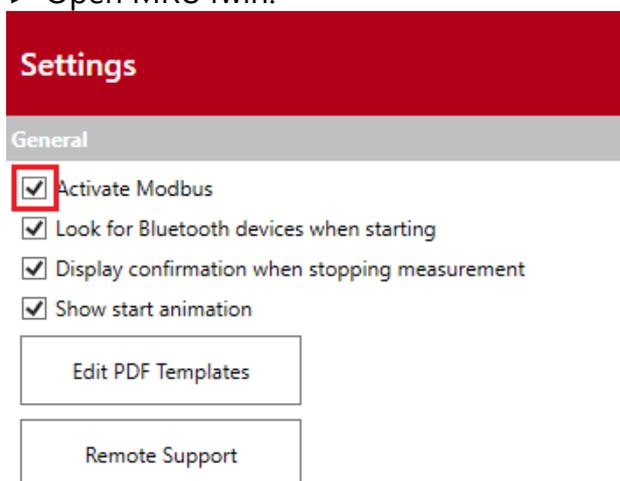
Connection. Before you can connect the Modbus Device with MRU4win via a TCP/IP connection, you have to read out the IP address in the Modbus Device.

⇒ The TCP/IP connection can be made by LAN or WLAN.

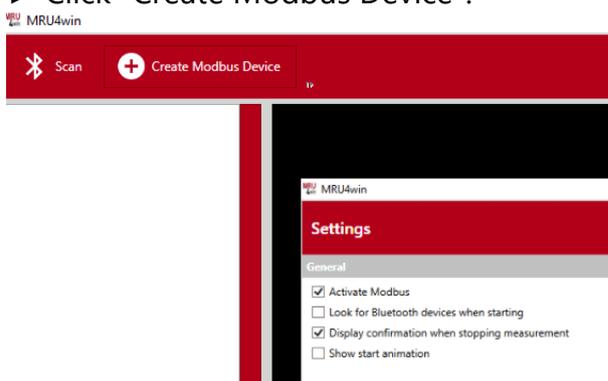
Modbus devices are not automatically identified in MRU4win.

Before you can connect the analyser with MRU4win, you have to create a Modbus device.

- ▶ Open MRU4win.



- ▶ Set under "General" a check mark at "Activate Modbus".
- ▶ Go to "Livemeasurements".
- ▶ Click "Create Modbus Device".

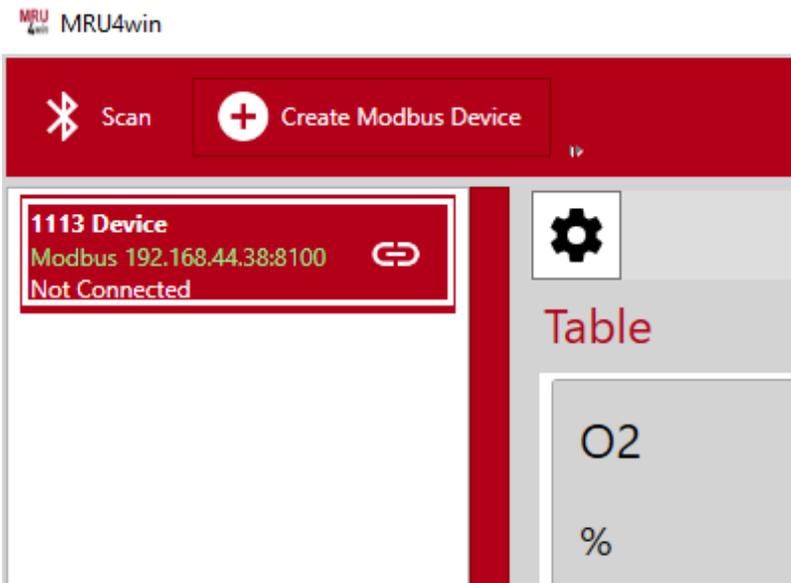


⇒ A window appears.

- ▶ You can connect the analyzer with MRU4win via a serial interface or via a TCP/IP connection.
- ▶ Select the desired connection type under " Serial/TCP".  
If you select the connection type "TCP", the input window changes.

- ▶ Choose "Name"  
⇒ A selection list appears.
- ▶ Choose your "Modbus Device".  
In this example a connection is established with a "1113 Device"
- ▶ Set "Slave ID" to 1.  
Note that the slave ID must match to the "Modbus Slave ID" of the analyzer.  
For example, if the analyzer has the "Modbus Slave ID" 2, the "Slave ID" in MRU4win must be set to 2.
- ▶ If necessary, enter your IP address, if you want to set up a TCP/IP connection.  
In this example the LAN address is 192.168.44.38.

- ▶ Click "OK".
- ▶ Go to the category "live measurement"  
⇒ The analyzer appears in the column of available analyzers.



- ▶ Click on the "Connect-Icon" 
- ⇒ The analyzer is connected.

### 3.4. Connect remote device

- ▶ You can connect devices with an installed remote maintenance solution to MRU4win.

#### NOTE

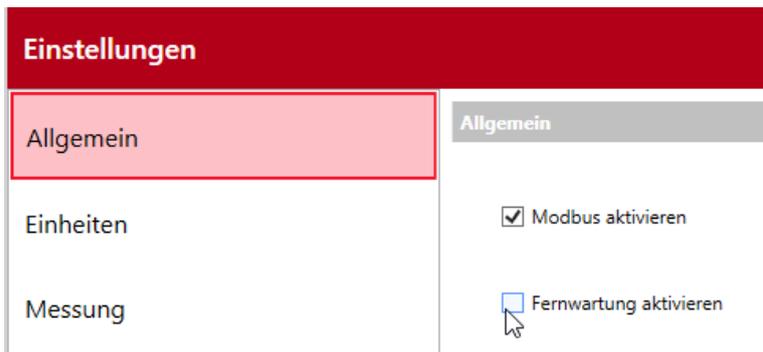


- ▶ Ensure that all systems of the remote maintenance solution have been successfully tested in advance and are functioning smoothly.
  - ☞ You can find more detailed information in the operating instructions for the remote maintenance solution.

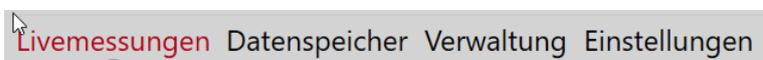
- ▶ Open MRU4win.
- ▶ Go to the 'Settings' tab.

Livemessungen Datenspeicher Verwaltung **Einstellungen**

- ▶ Tick the 'Activate remote maintenance' box.

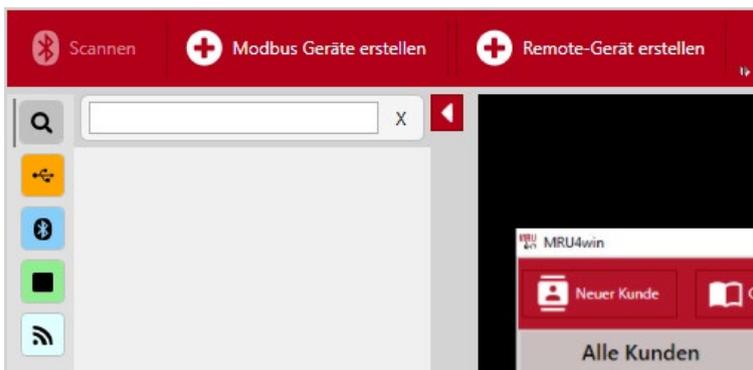


- ▶ Go to the 'Live measurements' tab.

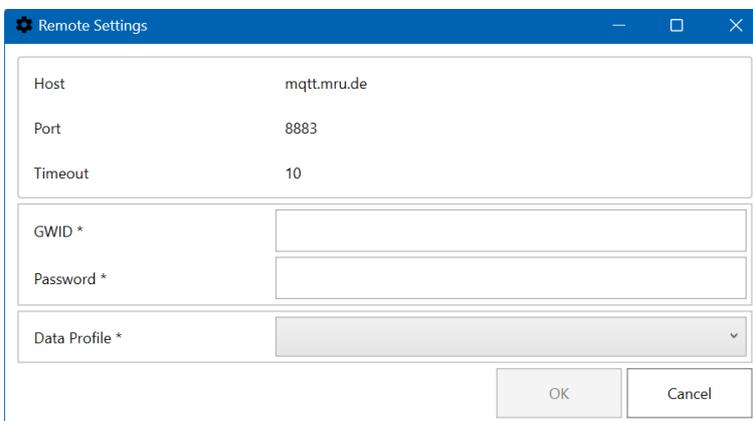


⇒ The 'Create remote devices' button appears, remote maintenance is activated.

- ▶ Click on the 'Create remote device' button.

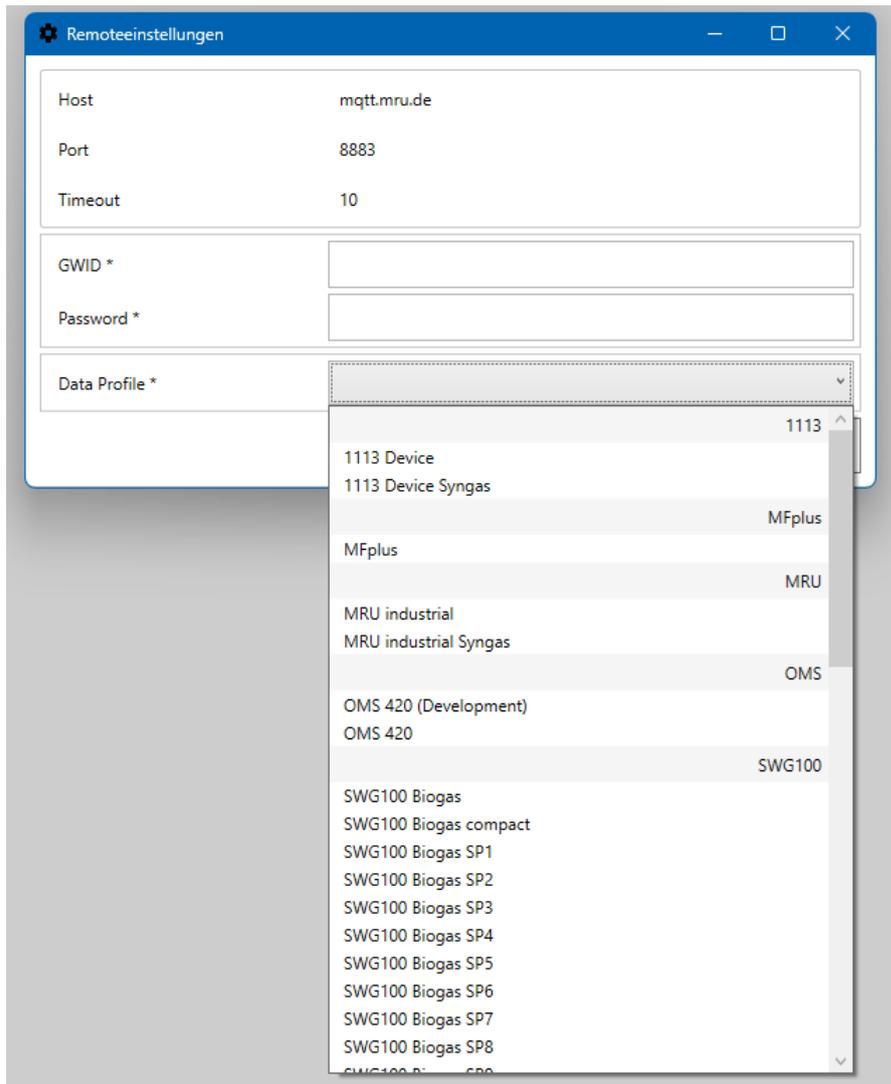


⇒ The following dialogue appears:

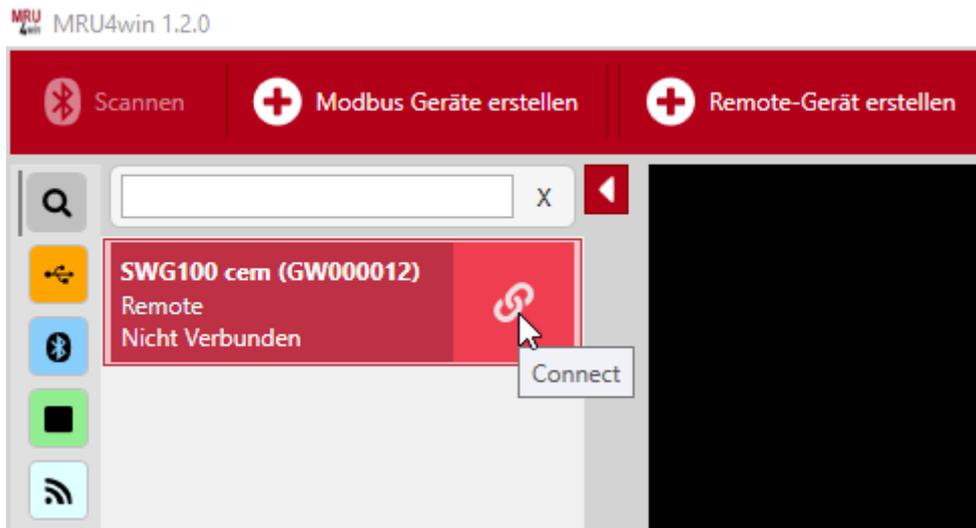


- ▶ Enter the password and the GWID witch you recieved with the remote control unit **13944**.

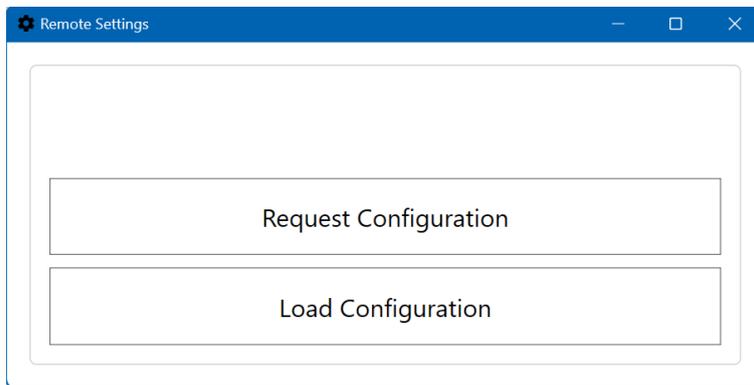
- ▶ Select your 'Data Profile', the specification of your device:



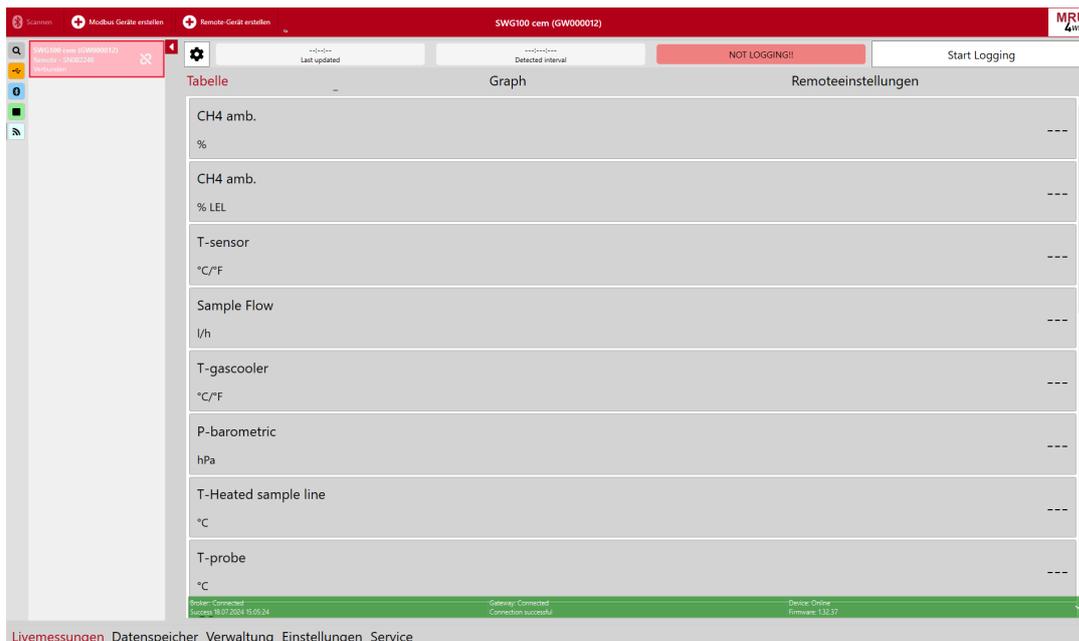
- ▶ When you add the device for the first time, a request is triggered. You will be emailed the ID.
- ▶ Select „OK“
  - ⇒ An e-mail is created with the request for a configuration file customised for your device.
- ▶ Either open a mail programme directly, or save the file and then send it to [lizenzen@mru.de](mailto:lizenzen@mru.de).
  - ⇒ You will receive a configuration file by e-mail from MRU.
- ▶ Save the file.
- ▶ Open MRU4win.
- ▶ Select the device you want to connect to wirelessly and click on the „connect-symbol“ 



⇒ The following dialogue appears



- ▶ Select 'Load Configuration' and select the configuration file that you have received and saved from MRU.
- ▶ Select „OK“
  - ⇒ You receive the message „Setup completed“
- ▶ Connect the system of your device with „OK“.
  - ⇒ The device has been created and can be operated with MRU4win.
  
- ▶ To confirm this, go to „Live measurements“
  - ⇒ The following view is created:



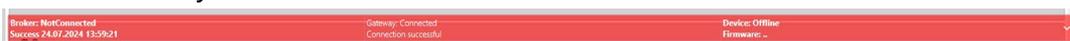
⇒ MRU4win is connected to the device. The green bar at the bottom confirms the connection.

⇒ The bar consists of the three stations of the remote connection:

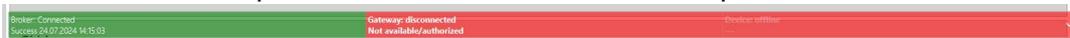
1. Connection to the broker
2. Connection to the gateway
3. Connection to the measuring device

► If an area of the bar turns red (see below), it is not possible to establish a connection from MRU4win to the measuring device. You can narrow down the troubleshooting using the areas marked in red.

- If you cannot connect to the broker, it is undergoing maintenance, or you are not connected to the Internet.



- If you cannot establish a connection to the gateway, it is not energised, the SIM card in the gateway has no network coverage, or the reception is not sufficient due to the position of the antenna.



If no connection to the device can be established, possible remedies are:

- Check whether the measuring device is switched off.
- Check whether the interface connection between the gateway and the measuring device is interrupted.

If the remote control unit is part of an Ex device, the gateway is installed in the switch-off box via its own power supply, which is independent of the device. It is therefore possible to establish a connection to the gateway, but not to the device.



## 4 Livemeasurements

With measuring devices that support DADEX (portable devices) you can manage different measuring programs and fuels and log the measured values. With Modbus devices (industrial devices) you can generally only log measured values. In principle, all data supplied by the measuring device are recorded. The display format of the measured values has no influence on the logging. Measured values that are not displayed are also logged. In the full version the logging duration is unlimited.

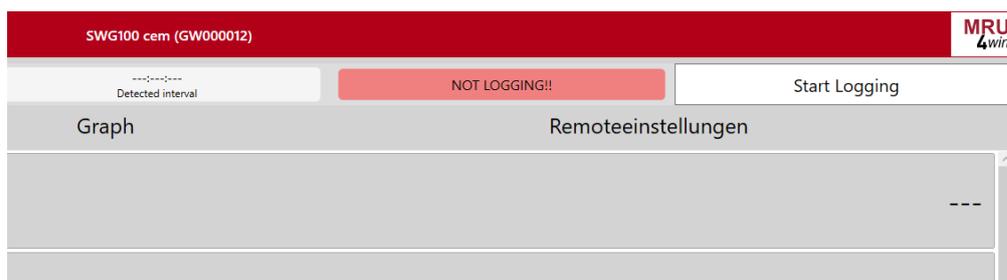
In the light version the logging duration is limited to one hour.

### 4.1. Start measurement

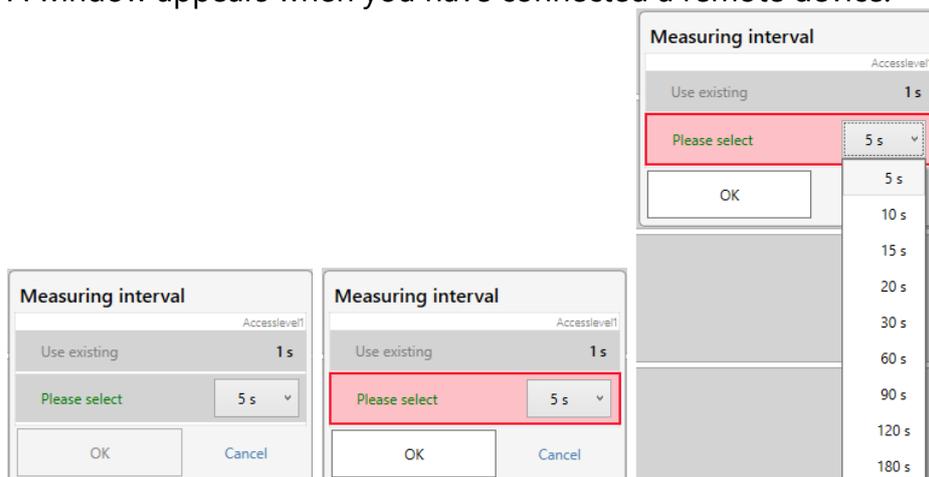
- ▶ Select 'Live measurements' (bottom left in the MRU4win view).

**Livemessungen** Datenspeicher Verwaltung Einstellungen Service

- ▶ You can start the measurement by pressing 'Start logging'.



A window appears when you have connected a remote device:



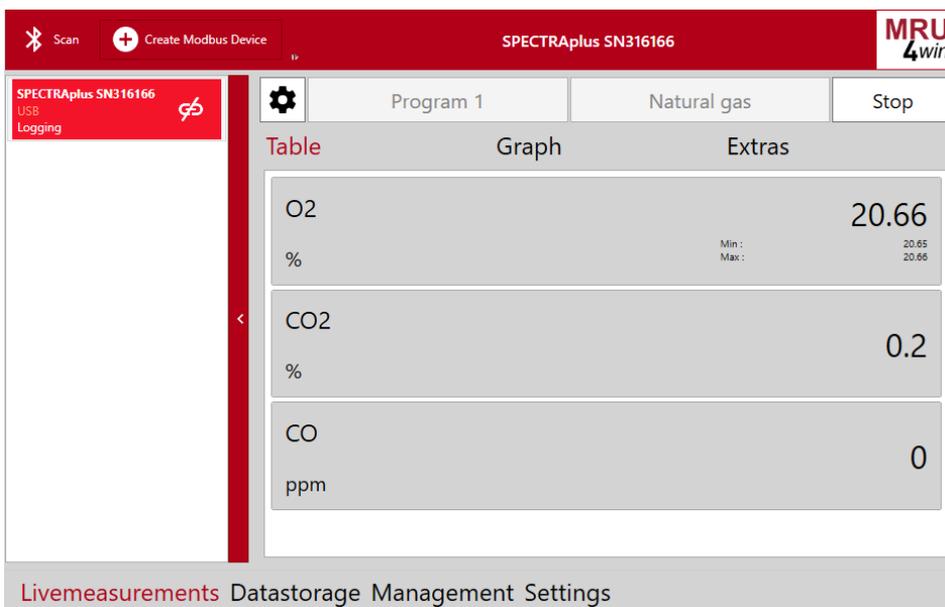
- ▶ Select your desired measuring interval. You can either use the existing interval or select an individual measuring interval. If the display of the measured values is incorrect, use the existing interval.
- ▶ Select „OK“.

⇒ The measurement starts.

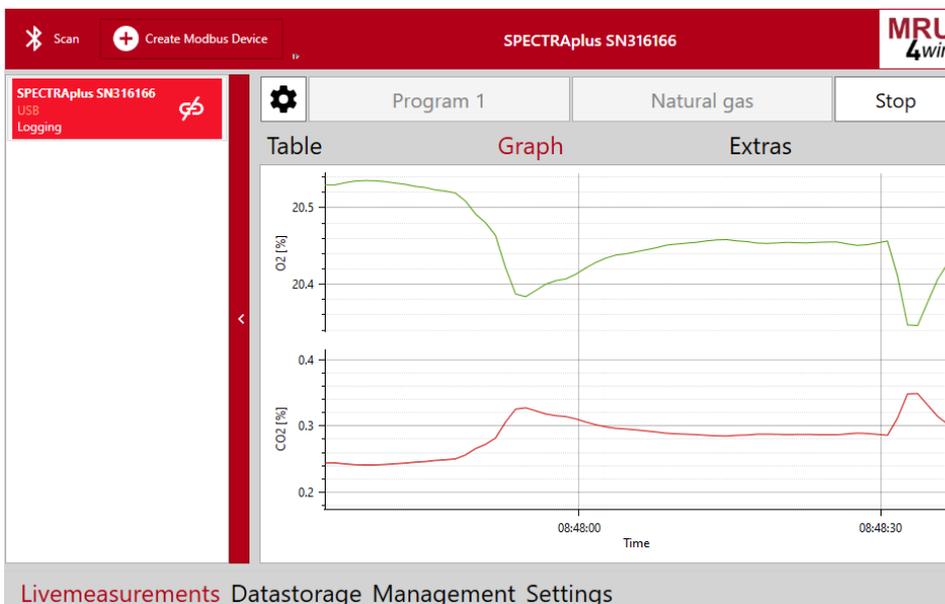
► Alternatively, you can cancel the start of the measurement by selecting "Cancel". You have successfully selected the measuring interval.

## 4.2. Configuring display format

You can display the measured values as a table or a graphic.



► Click „Graph”.



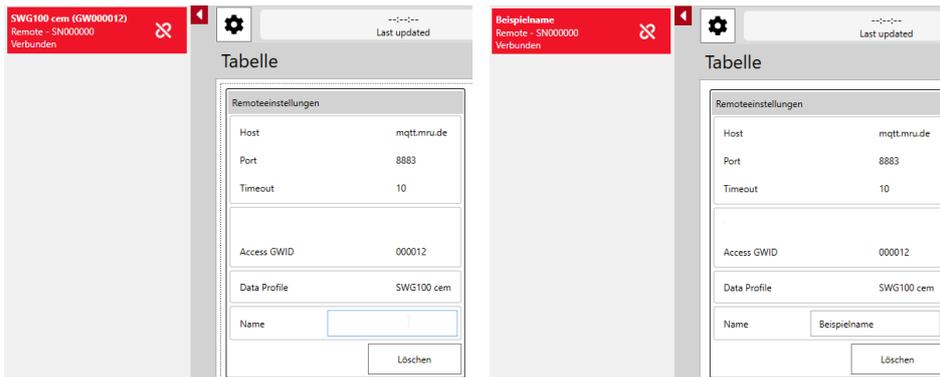
⇒ The display format changes.

In the graphical display you can zoom into the "graph" with the mouse wheel. With the left mouse button a cursor shows you the measured value.

- ▶ For devices that are operated via the remote maintenance solution, you can still make changes to the 'Remote settings'.



- ▶ You can change the name of the remote device.



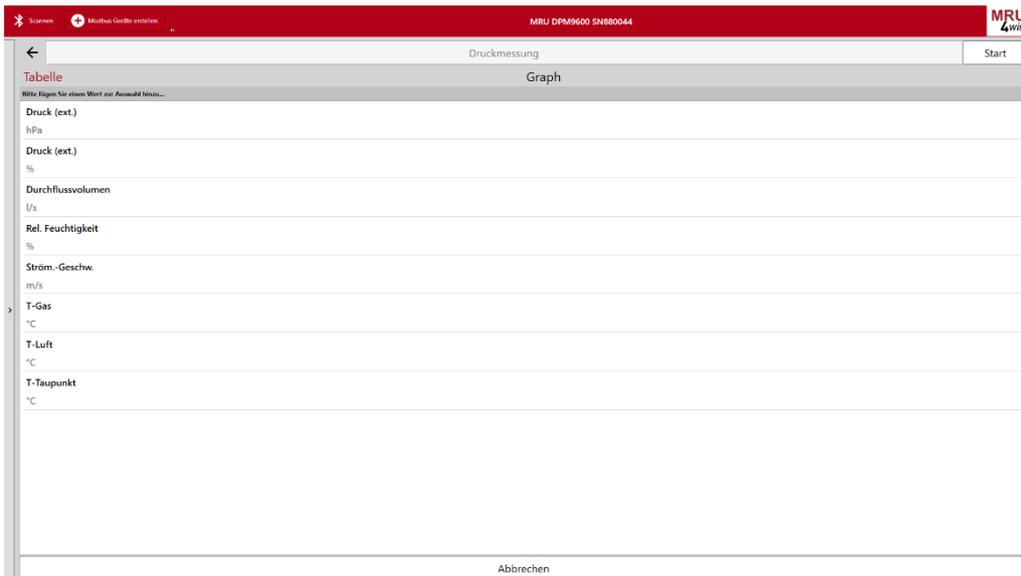
- ▶ As soon as you make an entry in the field after 'Name', the name of the device also changes. Click in the white area after you have typed the name. The other fields give you information about the stations of the remote connection. For example, the connection status of the gateway and the software version.

Gateway	Connected
Type	MRU GW100
Status	Connected
<i>Connection successful</i>	
Software	
Application Version	0.900.010
OEM Type	0001-1106-0000-0000
MQTT Version	3.1
Open WRT	2.0.9

### 4.3. Selecting measured values

You can select the measured values to be displayed as table or graph via a selection window.

- ▶ Click on the „gear wheel icon.“ 
  - ⇒ A window appears.
- ▶ Click „Add“ 
  - ⇒ A window appears.



- ▶ Add the desired value to the selection.
  - ⇒ A window appears.
- ▶ Click „OK“.
  - ⇒ The desired values appear in the measured value window.
- ▶ If you have created a remote device in MRU4win, a red or green bar appears at the bottom of the screen, depending on the status of the device.



- ▶ You can minimise the bar by clicking on it if you want to use the 'Add' and 'OK' fields, see below. You can collapse the bar again with another click if you want to see the status of the device.
  - ⇒ A window appears.

**NOTE**

Note that you have to add the desired values for tabular and graphical display separately.

There is no automatic update..

#### 4.4. Viewing Detail Information

You can display detailed information about the measuring device and the current measurement.

- ▶ Click „Extras“.

⇒ A window appears.

Messgerät	
Geräte Typ	DPM9600
Seriennummer	880044
Firmwareversion	1.02.06
Hardwareversion	1.00
Betriebsstunden	63
Herstelldatum	11.05.2017
Länderkennung	de_DE
Messgeräte-Identifikationsnummer	
	<a href="#">MRAV00880044NEU0517</a>
Protocolversion	v1.00.02

Messung	
Abtastrate	00:00:01
Mittelung (Punkte)	---

#### 4.5. Assigning a measurement protocol

After you have stopped the measurement, you can save a measurement protocol.

- ▶ You have two options for saving the measurement protocol.
- ▶ You can assign the measurement protocol directly to a site.
- ▶ You can save the measurement protocol and not assign it to a site.

##### Assigning measurement protocol to a site.

- ▶ Click „Stop“.
- ⇒ The measurement was saved.
- ⇒ A window appears.

**Die Messung wurde gespeichert**

 Einer Anlage zuordnen

 Kommentar hinzufügen

 Foto hinzufügen

 Mitarbeiter auswählen

 Löschen

Fenster beim Stoppen der Messung anzeigen

- ▶ Add a comment if necessary.
  - ▶ Add a photo if necessary.
  - ▶ Select an employee if necessary.
  - ▶ Click „Select Site“.
- ⇒ A window appears

 Bitte Protokoll einer Anlage zuordnen.

Kunde					Anlage						
Kundennr.	Firma	Nachname	Vorname	Straße	Anlagennr.	Anlagenname	Nachname	Vorname	Straße	Nr.	Postle
1	Testbetrieb	Muster	Max	Musterstraße	Anlage #2#						
					Anlage #1#						
					1		Muster	Max	Musterstraße	1	12345

Anlagen für alle Kunden

- ▶ Click on the desired customer.
  - ▶ Click on the desired site.
- ⇒ A window appears.
- ▶ Click „OK“.
- ⇒ The measurement protocol was assigned to the site.

**Do not assign the measuring protocol to a site**

- ▶ Click „Stop“.
  - ⇒ The measurement was saved.
  - ⇒ A window appears.
- ▶ Click „OK“.
  - ☞ See also Chapter Displaying not assigned protocols. ,S. 41.

## 5 Datastorage

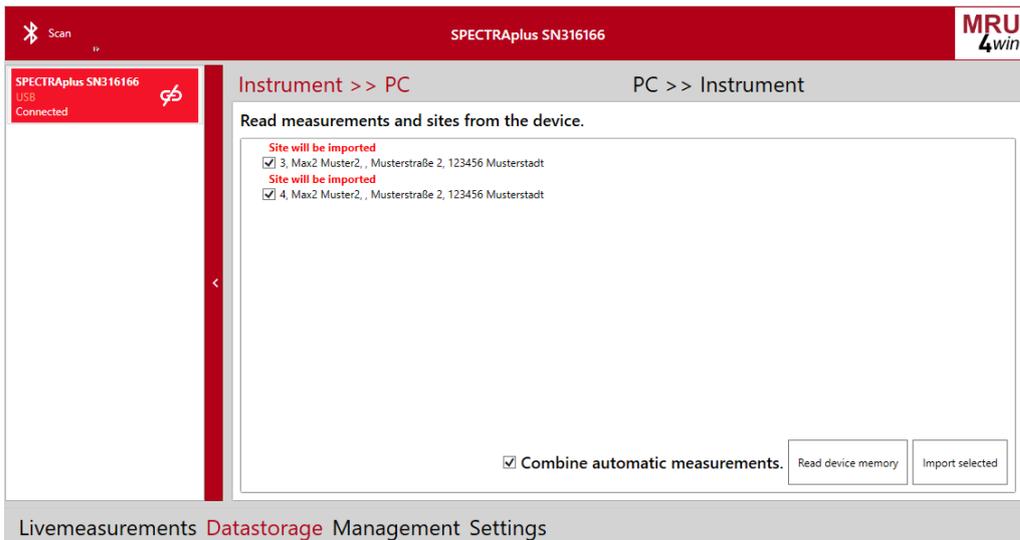
Under Data memory you have the possibility to import and export data. You can import measurements and sites from a measuring device. You can export sites to a measuring device.

### 5.1. Transferring sites from measuring device to PC

- ▶ Connect the measuring device to the PC.
- ▶ Connect the measuring device to MRU4win.
  - ☞ See Chapter: 3 Connecting measuring device to MRU4win, S. 10.
- ▶ Click „Datastorage“
  - ⇒ A window appears.

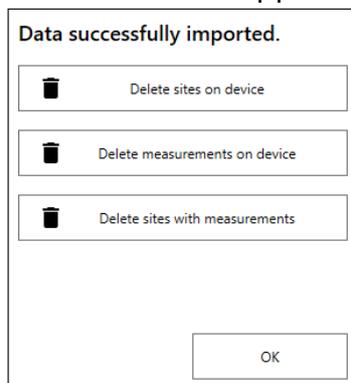


- ▶ Check whether the connected measuring device has a combined automatic measurement.
  - The automatic measuring stores the measurement continuously at a defined interval.
- ▶ Click „Combine automatic measurements“ if necessary.
- ▶ Click “Read device memory”.
  - ⇒ Measurements and sites from the measuring device are read in.
- ▶ Select the desired sites.



- ▶ Click „Import selected“.

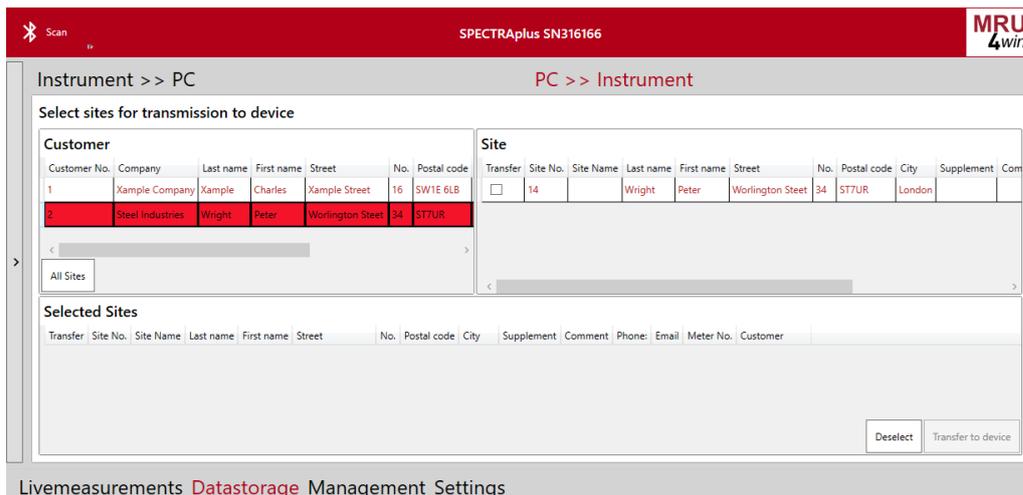
- ⇒ Data will be imported.
- ⇒ A window appears.



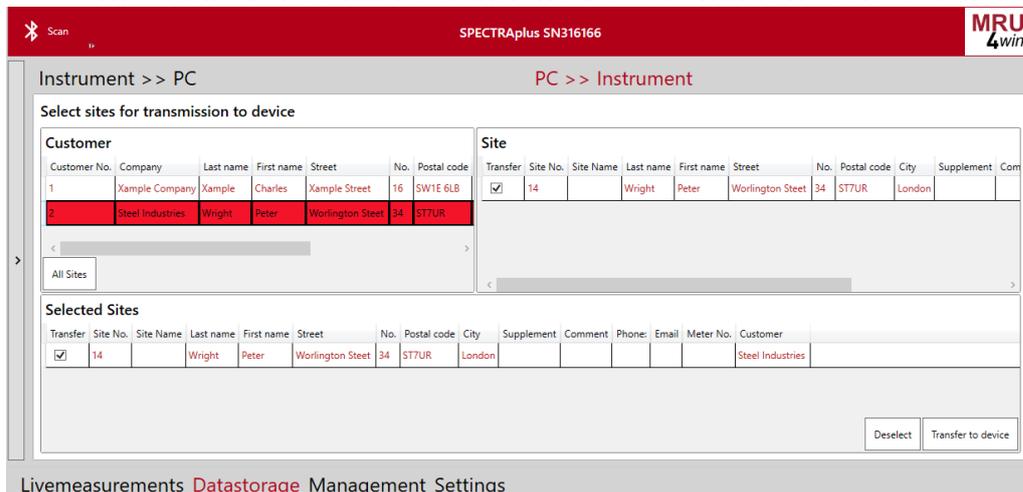
- ▶ You can select from several options.  
You can „Delete sites on device“, „Delete measurements on device“ or „Delete sites with measurements“.
- ▶ Click the desired option if necessary.  
⇒ The desired option is carried out.
- ▶ Press "OK" without selecting an option.  
⇒ Sites and measurements remain stored on the measuring device

## 5.2. Transferring sites to measuring device

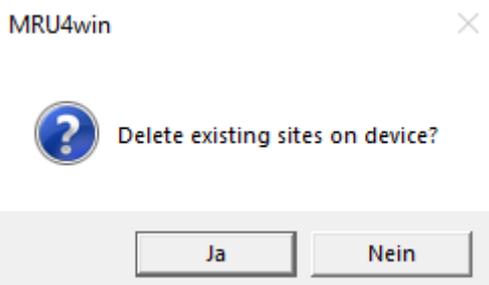
- ▶ Connect the measuring device to the PC.
- ▶ Connect the measuring device to MRU4win.  
☞ See Chapter: 3 Connecting measuring device to MRU4win, S. 10.
- ▶ Click „Datastorage“.
- ▶ Click „PC >> Instrument“.  
⇒ A window appears.



- ▶ Click on the desired customer.
  - ⇒ The sites of the customer appear.
- ▶ Click on the desired site.
  - ⇒ The desired sites will be transferred to the window "Selected sites".



- ▶ Click „Transfer to device“.
  - ⇒ A window appears.



- ▶ Click on the desired option.
  - ⇒ The sites are transferred to the measuring device.
  - ⇒ A window appears.

MRU4win



Sites have been successfully transferred to the device.

OK

- ▶ Click „OK“.

### 5.3. Transferring all sites to the measuring device

- ▶ Connect the measuring device to the PC.
- ▶ Connect the measuring device to MRU4win.
  - ⇒ See Chapter: 3 Connecting measuring device to MRU4win, S. 10.
- ▶ Click „Datastorage“.
- ▶ Click „PC >> Instrument“.
  - ⇒ A window appears.
- ▶ Click on the right mouse button.
  - ⇒ A window appears.

Instrument >> PC

PC >> Instrument

Select sites for transmission to device

Customer							Site									
Customer No.	Company	Last name	First name	Street	No.	Postal code	Transfer	Site No.	Site Name	Last name	First name	Street	No.	Postal code	City	Supplem
1	Xample Company	Xample	Charles	Xample Street	16	SW1E 6LB	<input checked="" type="checkbox"/>	1								
2	Steel Industries	Wright	Peter	Worlington Street	34	ST7UR	<input type="checkbox"/>	1								
							<input type="checkbox"/>	12		Wright	Peter	Worlington Street	34	ST 7UR	London	
							<input type="checkbox"/>	13		Xample				SW1E 6LB	London	
							<input type="checkbox"/>	14		Wright				ST7UR	London	
							<input type="checkbox"/>	3		Muster2	Max2	Musterstraße	2	123456	Musterstadt	
							<input type="checkbox"/>	4		Muster2	Max2	Musterstraße	2	123456	Musterstadt	

Selected Sites

Transfer	Site No.	Site Name	Last name	First name	Street	No.	Postal code	City	Supplement	Comment	Phone	Email	Meter No.	Customer
----------	----------	-----------	-----------	------------	--------	-----	-------------	------	------------	---------	-------	-------	-----------	----------

- ▶ Click „Select all“.
  - ⇒ All sites are selected.
- ▶ Click „Transfer to device“.
  - ⇒ All sites are transferred to the measuring device.

## 6 Management

The category Management is a Protocol-Database.  
The protocol database is divided into three sections.

- Data of the customer
- Sites for the customer
- Protocols for site

In the category Management you can:

- Create and edit a new customer
- Create and edit a new site
- Enter and edit employees
- Assign measurement protocols
- Create measurement protocols PDF by template
- Create several PDFs (Batch)

### 6.1. Create new customer

► Click „Management“.

⇒ A window appears.

Customer No.	Company	Last name	First name	Street	No.	Postal code	City	Supplement	Status	Comment	Phone	Email
1	Xample Company	Xample	Charles	Xample Street	16	SW1E 6LB	London					
2	Steel Industries	Wright	Peter	Worlington Steet	34	ST7UR	London					

Livemeasurements Datastorage **Management** Settings

► Click „New Customer“.

⇒ A window appears.

**Create new customer**

Customer No. 3 Supplement

Company Status

Last name Comment

First name Phone:

Street No. Email

City

Postal code

Delete Save Cancel

Site No.	Site Name	Last name	First name	Street	No.	Postal code	City	Supplement	Status	Comment	Phone:	Email	Meter No.	Customer

Livemeasurements Datastorage **Management** Settings

► Enter the customer data.

► Click „Save“.

⇒ New customer is saved.

⇒ The program opens the second section "Sites for the customer" of the protocol database.

⇒ You can assign a "New site" to the customer.

**Sites (0) for customer:**

Xample2 Company  
David Spencer  
Xample2 Street 28  
SF2D 6LB London  
Customer No. 3

New Site Protocols PDF Edit

Site No.	Site Name	Last name	First name	Street	No.	Postal code	City	Supplement	Status	Comment	Phone:	Email	Meter No.	Customer

Livemeasurements Datastorage **Management** Settings

☞ See also Chapter: 6.2Assign and create new site, Page 32.

## 6.2. Assign and create new site

Before you can create a new site, you have to select a customer to whom you assign the site.

You can also create a new customer and assign a site directly to the customer.

☞ See also Chapter 6.1 Create new customer, Page 30.

- ▶ Click „Management“.
- ⇒ A window appears.
- ▶ Click on the customer to whom you want to assign a site.
- ⇒ The program opens the second section "Sites for the customer" of the protocol database.

The screenshot shows the MRU4win software interface. At the top, there is a navigation bar with icons for 'New Customer', 'CSV Import', 'Your Address', 'Employees', 'All Sites', and 'All Protocols'. The main area is divided into two sections. On the left, there is a table titled 'All Custom' with columns 'Customer No.' and 'Company'. The table contains three rows: 1 (Xample Company), 2 (Steel Industries), and 3 (Xample2 Company). The third row is highlighted in red. On the right, there is a section titled 'Sites (0) for customer:' with a search bar. Below the title, there is a list of customer details: 'Xample2 Company', 'David Spencer', 'Xample2 Street 28', 'SF2D 6LB London', and 'Customer No. 3'. Below this list, there are buttons for 'New Site', 'Protocols', 'PDF', and 'Edit'. The 'New Site' button is highlighted with a red box. At the bottom of the interface, there is a navigation bar with 'Livemeasurements', 'Datastorage', 'Management', and 'Settings'.

- ▶ Click „New Site“.
- ⇒ A window appears.

The screenshot shows the MRU4win software interface with the 'Create New Site' form open. The form has a title bar 'Create New Site' and a search bar. The 'Address as customer' checkbox is checked and highlighted with a red box. The form contains several input fields: 'Site No.' (15), 'Site Name', 'Last name' (Spencer), 'First name' (David), 'Street' (Xample2 Street), 'No.' (28), 'City' (London), and 'Postal code' (SF2D 6LB). There are also fields for 'Supplement', 'Status', 'Comment', 'Phone', 'E-Mail', and 'Meter No.'. At the bottom right of the form, there are buttons for 'Delete', 'Save', and 'Cancel'. The 'Save' button is highlighted with a red box. At the bottom of the interface, there is a navigation bar with 'Livemeasurements', 'Datastorage', 'Management', and 'Settings'.

- ▶ Enter the site data.  
If necessary, mark the "Address as customer" checkbox, if Customer address and site address are identical.
- ▶ Click Save.  
⇒ The site is assigned to the desired customer.

The screenshot shows the MRU4win software interface. At the top, there is a navigation bar with icons for 'New Customer', 'CSV Import', 'Your Address', 'Employees', 'All Sites', and 'All Protocols'. The main content area is titled 'Sites (1) for customer:' and contains a search box and a list of customer details for 'Xample2 Company'. Below this, there is a table of sites with the following data:

Site No.	Site Name	Last name	First name	Street	No.	Postal code	City	Supplement	Status	Comment	Phone	Email	Meter No.
15		Spencer	David	Xample2 Street	28	SF2D 6LB	London						

At the bottom of the interface, there is a navigation bar with 'Livemeasurements', 'Datastorage', 'Management', and 'Settings'.

### 6.3. Editing existing customer data

- ▶ Click „Management“  
⇒ A window appears.
- ▶ Click on the desired customer  
⇒ A window appears.

This screenshot is identical to the one above, showing the 'Sites (1) for customer:' window in the MRU4win software. It displays the same customer information and table of sites.

- ▶ Click „[Edit](#)“.  
⇒ A window appears.
- ▶ Enter the desired changes.

**Sites (1) for customer:**

Customer No. 3 Supplement

Company Xample2 Company Status

Last name Spencer Comment

First name David Phone: 07131555888

Street Xample2 Street No. 28 Email: Xample2@company.com

City London

Postal code SF2D 6LB

Delete Save Cancel

Site No.	Site Name	Last name	First name	Street	No.	Postal code	City	Supplement	Status	Comment	Phone	Email	Meter No.
15		Spencer	David	Xample2 Street	28	SF2D 6LB	London						

Livemeasurements Datasstorage Management Settings

► Click „Save“.

⇒ The changes are saved.

**Sites (1) for customer:**

Xample2 Company  
David Spencer  
Xample2 Street 28  
SF2D 6LB London  
Customer No. 3

New Site Protocols PDF Edit

Site No.	Site Name	Last name	First name	Street	No.	Postal code	City	Supplement	Status	Comment	Phone	Email	Meter No.	Customer
15		Spencer	David	Xample2 Street	28	SF2D 6LB	London				07131555888	Xample2@company.com		Xample2 Company

Livemeasurements Datasstorage Management Settings

#### 6.4. Editing existing site data

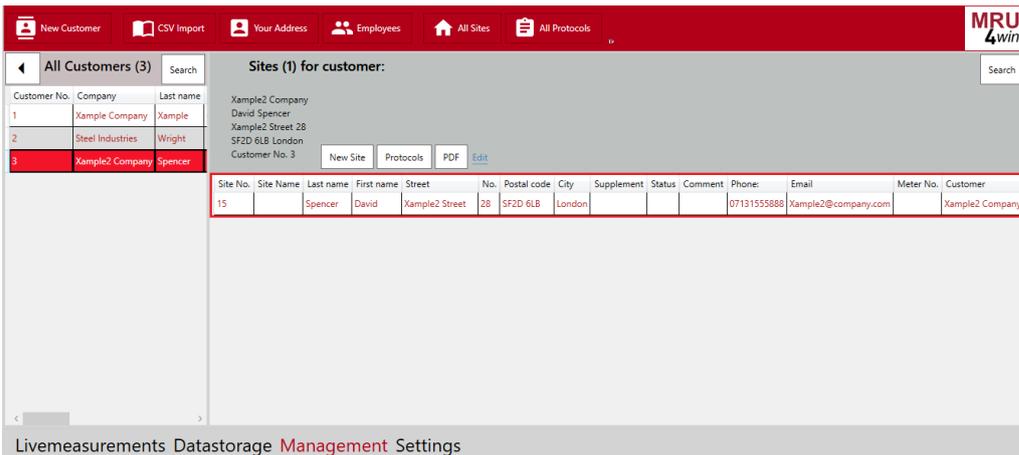
Before you can edit existing site data, you have to select the customer to whom the site is assigned.

► Click „Management“.

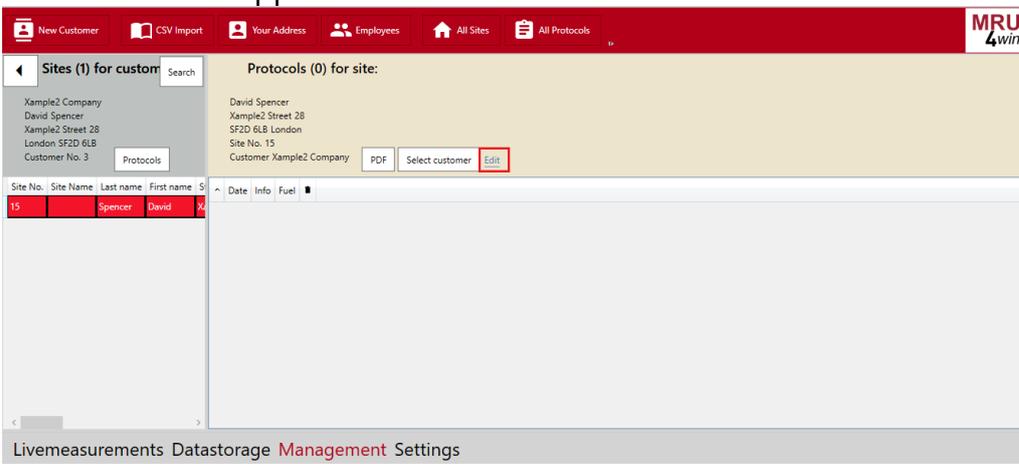
⇒ A window appears.

► Click on the desired customer.

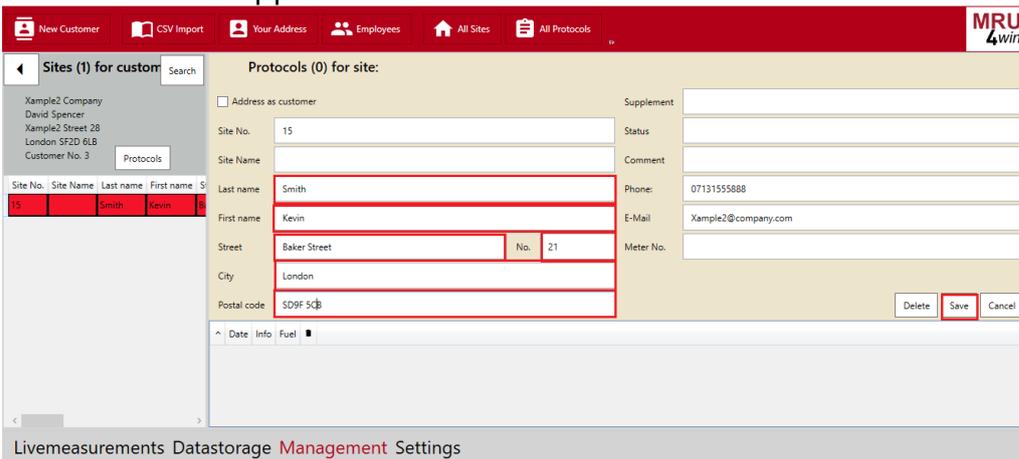
⇒ A window appears.



- ▶ Click on the desired site.
- ⇒ A window appears.



- ▶ Click „Edit“
- ⇒ A window appears.



- ▶ Enter the desired changes.
- ▶ Click „Save“.
- ⇒ The changes are saved.

## 6.5. Creating employees

- ▶ Click „Management“.
- ⇒ A window appears.
- ▶ Click „Employees“.
- ⇒ A window appears.

The screenshot shows a window titled "Employees" with a table at the top containing the following columns: Employee No., Last name, First name, Street, No., Postal code, and City. Below the table, there are two buttons: "New Employee" (highlighted with a red box) and "OK".

- ▶ Click „New Employee“.
- ⇒ A window appears.

The screenshot shows a window titled "Employees" with a form for entering employee data. The form fields are: Employee No. (1), Last name (Holden), First name (James), Street (Maple Street), No. (3), City (London), Postal code (SF2D 6LB), Supplement, Comment, Phone, and Email. Below the form, there are three buttons: "Save" (highlighted with a red box), "Delete", and "Cancel". At the bottom of the window, there is a table with the same columns as in the previous screenshot, and two buttons: "New Employee" and "OK".

- ▶ Enter the employee data.
- ▶ Click „Save“.
- ⇒ The employee appears in the window.

The screenshot shows a window titled "Employees" with a table containing the following data: Employee No. 1, Last name Holden, First name James, Street Maple Street, No. 3, Postal code SF2D 6LB, and City London. The table row is highlighted with a red box. Below the table, there are two buttons: "New Employee" and "OK".

## 6.6. Creating your own address

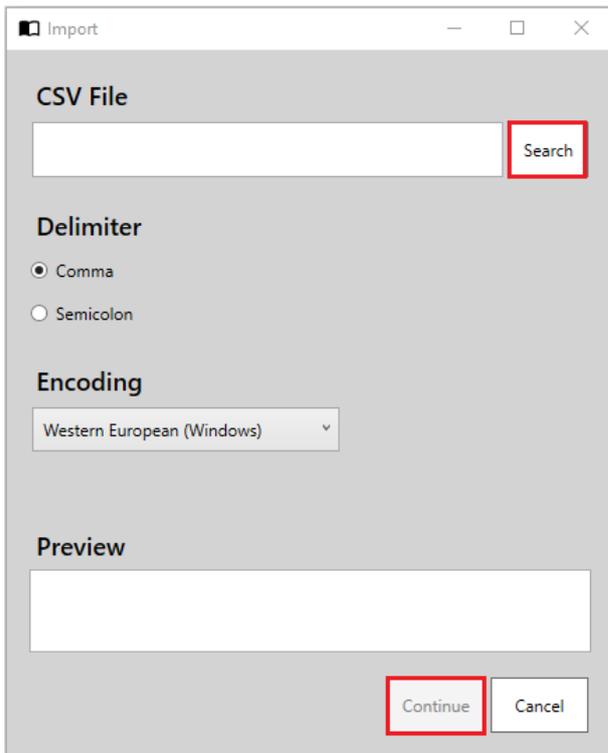
- ▶ Click „Management“.
- ⇒ A window appears.
- ▶ Click „Your Address“.
- ⇒ A window appears.

- ▶ Enter the address data.
- ▶ Click on "Load Icon", if you want to add your logo.
- ⇒ A window appears.
- ▶ Select your logo.
- ▶ Drücken Sie auf „Speichern“.
- ⇒ The address is saved.

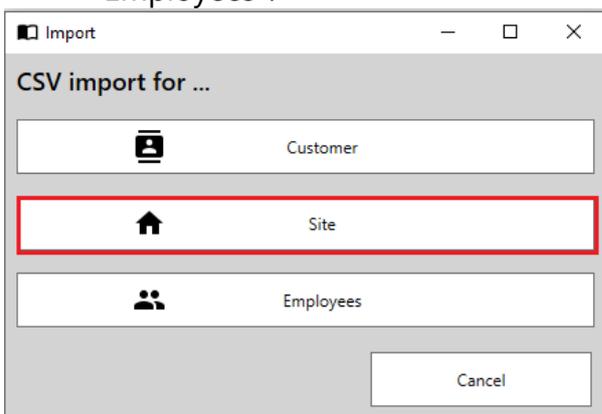
## 6.7. Importing data via CSV

You can create customers, sites and employees by hand or import from a CSV file.

- ▶ Click „Management“.
- ⇒ A window appears.
- ▶ Click „CSV Import“.
- ⇒ A window appears.



- ▶ Click „Search“.
- ▶ Select the desired CSV file.
  - ⇒ The Preview becomes active.
  - ⇒ The "Continue" button becomes active.
- ▶ Select the desired Delimiter.
- ▶ Select the desired Encoding.
- ▶ Click „Continue“.
- ⇒ A window appears.  
You can optionally import data for "Customer", "Site" or "Employees".



- ▶ Select the desired option.
  - ⇒ In this example "Site" was selected.
  - ⇒ A window appears.

- ▶ Select the desired contents.
- ▶ You can "Add" or "Replace" content.
- ▶ Select the desired option.
  - ⇒ The contents will be added or replaced.

## 6.8. Displaying list of all sites

### Displaying all sites

„All Sites“ shows a list of all stored sites.

- ▶ Click „Management“.
- ⇒ A window appears.
- ▶ Click „All Sites“.

Customer No.	Company	Last name	Site No.	Site Name	Last name	First name	Street	No.	Postal code	City	Supplement	Status	Comment	Phone	Email	Meter No.	Customer
1	Xample Company	Xample	12		Wright	Peter	Worlington Street	34	ST 7UR	London							Not assigned
2	Steel Industries	Wright	13		Xample	Charles	Xample Street	16	SW1E 6LB	London							Xample Company
3	Xample2 Company	Spencer	14		Wright	Peter	Worlington Street	34	ST7UR	London							Steel Industries
			3		Muster2	Max2	Musterstraße	2	123456	Musterstadt							Not assigned
			4		Muster	Max	Musterstraße	2	123456	Musterstadt							Not assigned
			15		Smith	Kevin	Baker Street	21	SD9F 5CB	London				07131555888	Xample2@company.com		Xample2 Company

## Displaying not assigned sites

It can happen that sites are not assigned to a customer.

This can happen, for example, if you delete a customer but not the site assigned to the customer.

You can display all "Not assigned sites".

Customer No.	Company	Last name	Site No.	Site Name	Last name	First name	Street	No.	Postal code	City	Supplement	Status	Comment	Phone	Email	Meter No.	Customer
1	Xample Company	Xample	12		Wright	Peter	Worlington Street	34	ST 7UR	London							Not assigned
2	Steel Industries	Wright	13		Xample	Charles	Xample Street	36	SW1E 6LB	London							Xample Company
3	Xample2 Company	Spencer	14		Wright	Peter	Worlington Street	34	ST7UR	London							Steel Industries
			3		Muster2	Max2	Musterstraße	2	123456	Musterstadt							Not assigned
			4		Muster	Max	Musterstraße	2	123456	Musterstadt							Not assigned
			15		Smith	Kevin	Baker Street	21	SD9F 5CB	London				07131555888	Xample2@company.com		Xample2 Company

Not assigned sites

Livemeasurements Datastorage Management Settings

- ▶ Click „Not assigned sites“.
- ⇒ A window appears.
- ⇒ The not assigned sites appear.

## 6.9. Displaying measurement protocols

You can display all protocols or display not assigned protocols.

### Displaying all measurement protocols

- ▶ Click „Management“.
- ⇒ A window appears.
- ▶ Click „All Protocols“.
- ⇒ All protocols are displayed.

Site No.	Site Name	Last name	First name	Date	Info	Fuel
15		Smith	Kevin	1/28/2020		
				28.01.2020 13:45:40	Program 1	Natural gas
				28.01.2020 13:45:15	Program 1	Natural gas
				28.01.2020 13:17:44	Program 1	Natural gas
				28.01.2020 12:30:58	Program 1	Natural gas
				28.01.2020 11:10:04	Program 1	Natural gas
				28.01.2020 08:47:34	Program 1	Natural gas
				28.01.2020 08:40:05	Program 1	Natural gas
				11/28/2019		

Not assigned protocols

Livemeasurements Datastorage Management Settings

## Displaying not assigned protocols.

You can display not assigned protocols and assign them to a site.

- ▶ Click „Management“.
- ⇒ A window appears.
- ▶ Click „All Protocols“.
- ▶ Click „Not assigned protocols“.
- ⇒ The not assigned protocols appear.

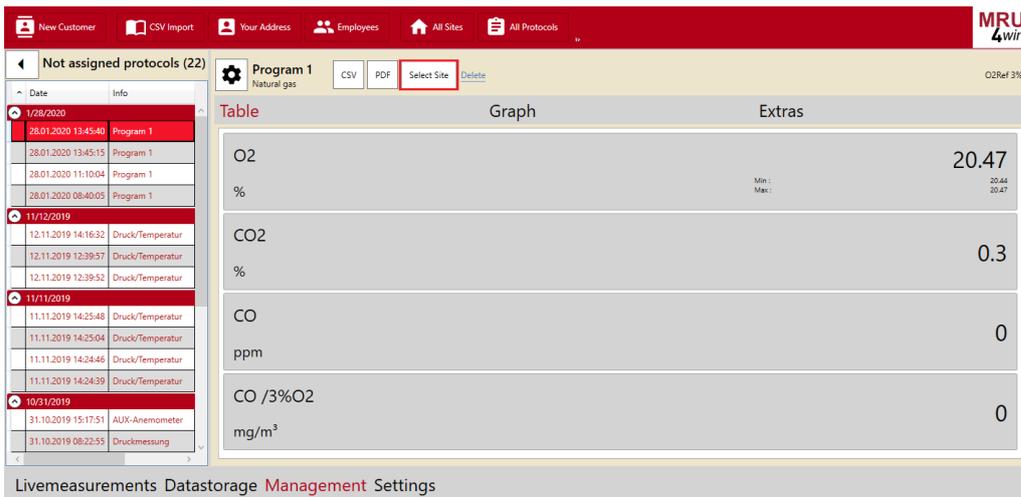
Site No.	Site Name	Last name	First name	Date	Info	Fuel	
15		Smith	Kevin	28.01.2020 13:45:40	Program 1	Natural gas	<input type="checkbox"/>
				28.01.2020 13:45:15	Program 1	Natural gas	<input type="checkbox"/>
				28.01.2020 11:10:04	Program 1	Natural gas	<input type="checkbox"/>
				28.01.2020 08:40:05	Program 1	Natural gas	<input type="checkbox"/>
				11/12/2019			
				12.11.2019 14:16:32	Druck/Temperatur	Messgas	<input type="checkbox"/>
				12.11.2019 12:39:57	Druck/Temperatur	Messgas	<input type="checkbox"/>
				12.11.2019 12:39:52	Druck/Temperatur	Messgas	<input type="checkbox"/>

Not assigned protocols

Livemeasurements Datastorage Management Settings

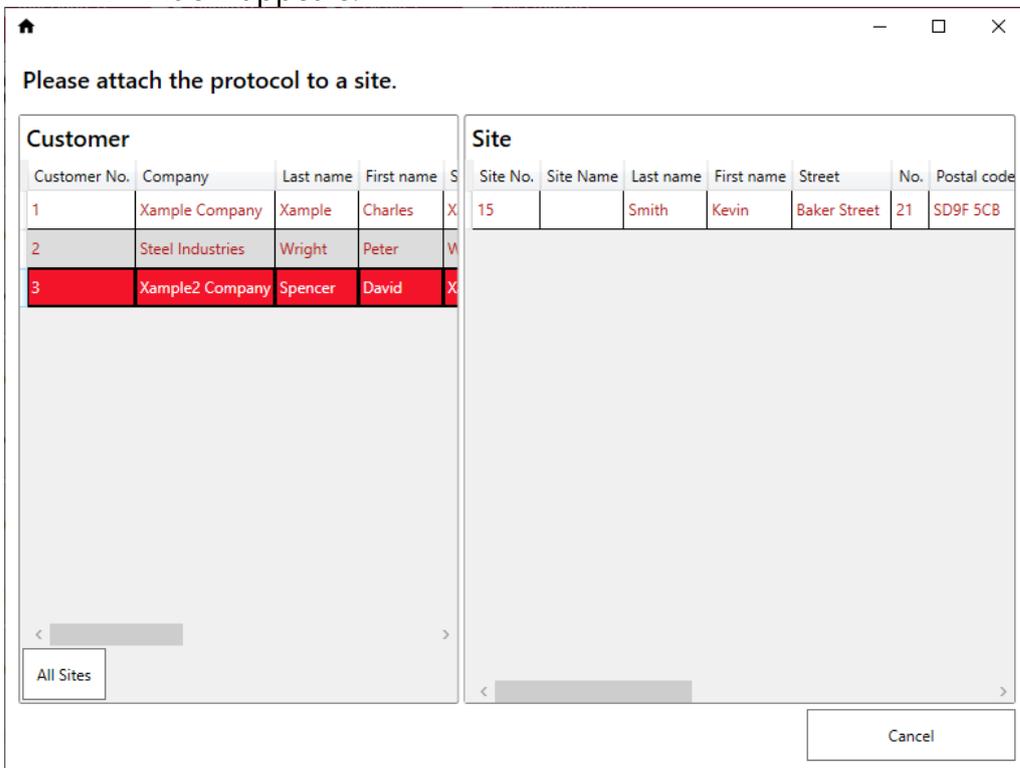
## Assigning not assigned protocols to a site

- ▶ Click „Management“.
- ⇒ A window appears.
- ▶ Click „All Protocols“.
- ▶ Click „Not assigned protocols“.
- ⇒ The not assigned protocols appear.
- ▶ Select the desired protocol.
- ⇒ A window appears.



► Click „Select Site“.

⇒ A window appears.



► Select the customer of the site.

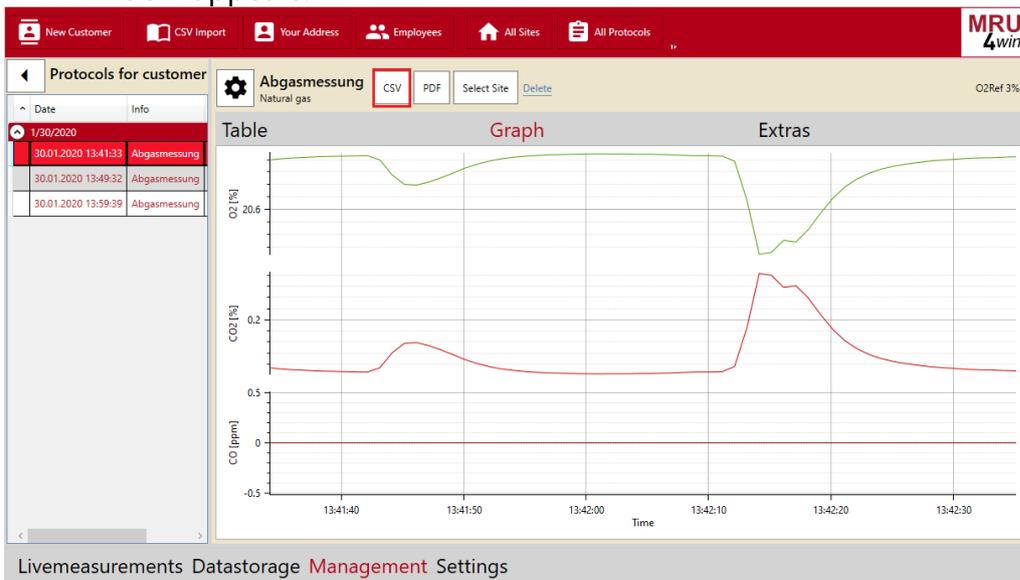
► Select the site.

⇒ The not assigned protocol is assigned to the site.

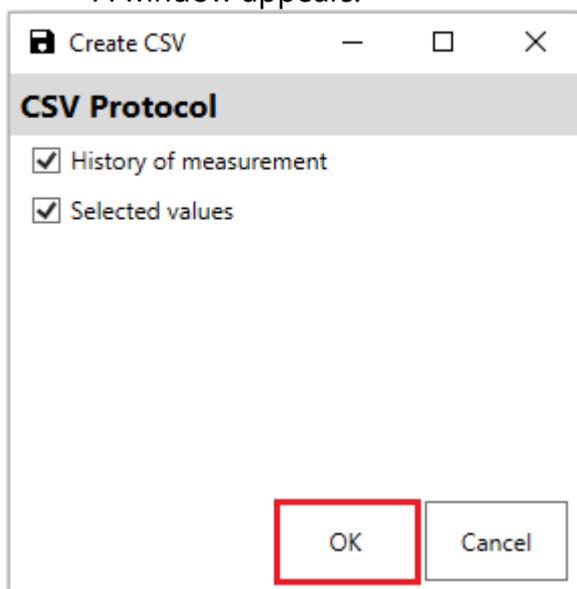
## Exporting measurement protocol via CSV

- ▶ Click „Management“.
- ⇒ A window appears.
- ▶ Select a customer.
- ⇒ The sites assigned to the customer appear.
- ▶ Select a site.
- ⇒ The measuring protocols assigned to the site appear.
- ▶ Select the desired measurement protocol.

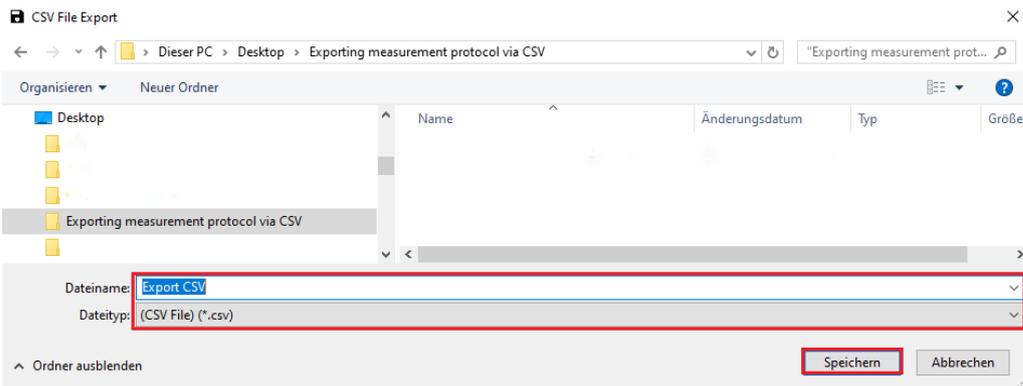
A window appears.



- ▶ Click „CSV“.
- ⇒ A window appears.



- ▶ Select the desired options.
- ▶ Click „OK“.
- ⇒ A window appears.



- ▶ Enter a name for the CSV file.
- ▶ Save the CSV file.
  - ⇒ The CSV file is saved.

## 6.10. Measurement protocol - Create PDF by template

### Creating a template file

With MRU4win you can design PDF files individually. Before you can customize your PDF files, you must create a template file.

You can create the template file with the programs MS Word or Libre-Office. You have to save the template file in .DOCX format.

In the template file, you have to enter placeholders for addresses and measured values in addition to fixed texts.

The placeholders are then replaced with the corresponding data from the measurement.

Placeholders begin with a dollar sign (\$).

Examples for placeholders:

Placeholders	Meaning	Display in PDF
\$DeviceType	Device type	DM9600
\$Serial-number	Serial-number	880000
\$Firmware-version	Firmware	1.00.22
\$Graph	Diagram of the measuring curve	
\$Signature	Signature by pen	
\$Sitephoto	Photo of site	

- ☞ You can display all placeholders in MRU4win.  
See chapter: Editing PDF Templates , Page 57.

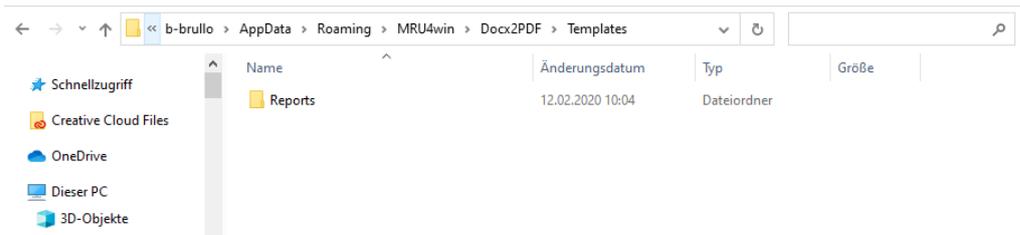
You do not need to install MS Word or Libre Office on the PC on which MRU4win was installed and PDF files are to be created.

You can create the .DOCX template files on any PC.

You can then copy the template files to the PC on which MRU4win is installed.

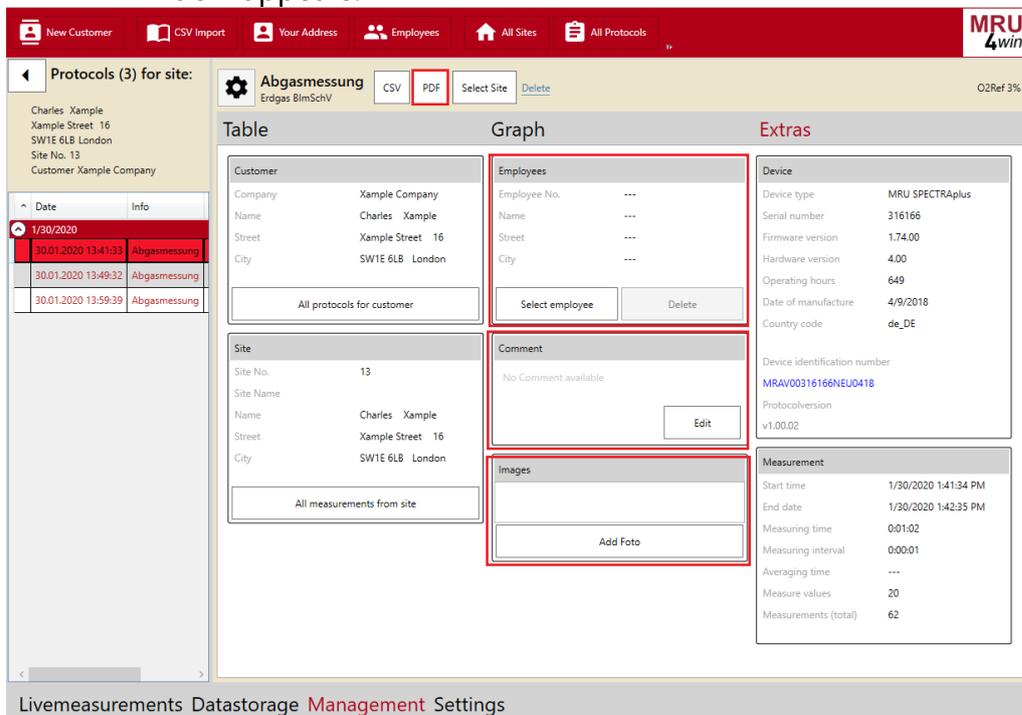
The template files must be saved in different directories according to the respective measuring application.

`%appdata% \MRU4win\DOCX2PDF\Templates`

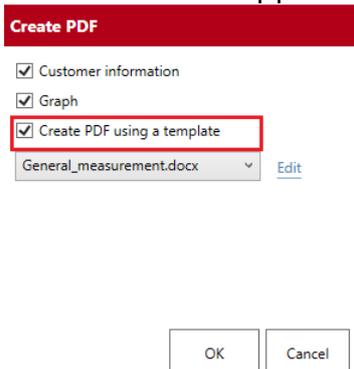


### Create PDF file from template file

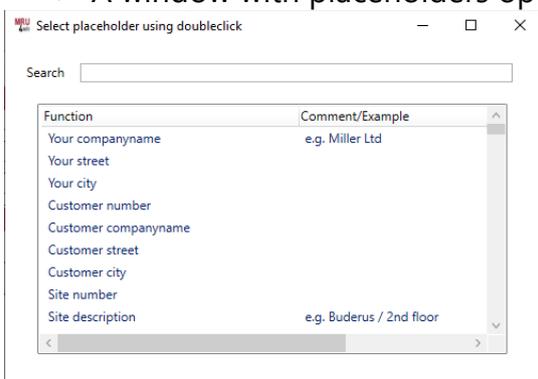
- ▶ Click „Management“.
- ⇒ A window appears.
- ▶ Select a customer.
- ▶ Select a site assigned to the customer.
- ▶ Click „Extras“.
- ⇒ A window appears.



- ▶ If necessary, add " Employees", "Comment" and "Images" to the measuring protocol under "Extras".
- ▶ Click „PDF“.
- ⇒ A window appears.



- ▶ Add the desired contents to the PDF file.  
If you have added "Create PDF using a template", all existing file templates for a measurement are displayed.  
Several file templates (.docx files) can be available for one PDF.  
For example, there are templates with and without graphics.  
The difference lies in the placeholders used in the template.  
This means whether the placeholder for e.g. graphic (\$Graph) is used in the file template or not.
- ▶ Select the desired template.
- ▶ If necessary, click "Edit" to edit a template.
  - ⇒ The template file opens in .DOCX.
  - ⇒ A window with placeholders opens.



- ▶ Select the desired placeholders.
  - ⇒ The placeholders are automatically transferred to the template file.
- ▶ Save the template file.
- ▶ Close the window with the placeholders.
- ▶ Click „OK“.
  - ⇒ A PDF file is created.
  - ⇒ The created PDF files are saved in the "Documents" directory under " MRU4Win Measurement protocols"

Name	Änderungsdatum	Typ	Größe
Messprotokoll_vom_2020-01-28-131744_...	12.02.2020 12:32	Adobe Acrobat-D...	7 KB
Messprotokoll_vom_2020-01-28-131744_...	12.02.2020 12:34	Adobe Acrobat-D...	8 KB
Messprotokoll_vom_2020-01-28-131744_...	12.02.2020 12:34	Adobe Acrobat-D...	7 KB
Messprotokoll_vom_2020-01-28-131744_...	12.02.2020 12:40	Adobe Acrobat-D...	5 KB
Messprotokoll_vom_2020-01-30-134133_...	12.02.2020 10:38	Adobe Acrobat-D...	39 KB
Messprotokoll_vom_2020-01-30-134133_...	12.02.2020 11:14	Adobe Acrobat-D...	11 KB
Messprotokoll_vom_2020-02-06-112751_...	12.02.2020 11:22	Adobe Acrobat-D...	7 KB
Messprotokoll_vom_2020-02-06-132417_...	12.02.2020 11:27	Adobe Acrobat-D...	8 KB

## 6.11. Create PDFs for Usability Test

You can create PDFs according to DVGW worksheet G600 / 2018.

- ▶ Click "Management".
  - ⇒ A window appears.
- ▶ Select a customer.
- ▶ Select a site assigned to the customer.
- ▶ Select a measuring protocol assigned to the site.

The screenshot shows the 'Protocols (22) for site:' window. The table lists various protocols with columns for Date, Info, Fuel, and a checkbox. The right-hand panel contains several sections: Customer (Company, Name, Street, City), Site (Site No., Name, Street, City), Employees (Employee No., Name, Street, City), Comment (No Comment available), Images (Add Foto), Device (Device type, Serial number, Firmware version, Hardware version, Operating hours, Date of manufacture, Country code, Device identification number, Protocolversion), and Measurement (Start time, End date, Measuring time, Measuring interval, Averaging time, Measure values, Measurements (total)).

- ▶ Click "Extras".
- ▶ If necessary, add "Employees", "Comment" and "Images" to the measuring protocol under "Extras".
- ▶ Click „PDF".
  - ⇒ A window appears.

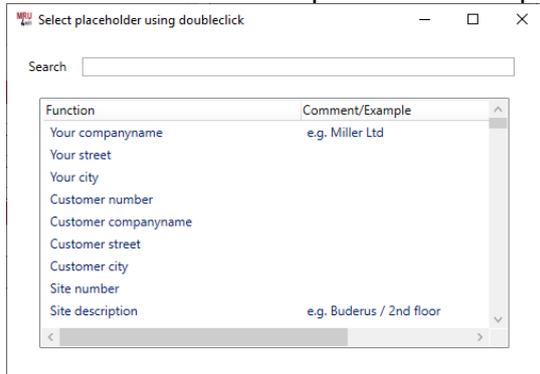
The 'Create PDF' dialog box shows the following options:
 

- Customer information
- Graph
- Create PDF using a template

 Below the options is a dropdown menu with 'Usability\_check.docx' selected and an 'Edit' button. At the bottom are 'OK' and 'Cancel' buttons.

- ▶ Add the desired contents to the PDF file.
- ▶ Click "Create PDF using a template"
  - ⇒ The template files appear.
- ▶ Select the template file "Usability\_check.docx".

- ▶ If necessary, click "Edit" to edit a template.
  - ⇒ The template file opens in .DOCX.
  - ⇒ A window with placeholders opens.



- ▶ Select the desired placeholders.
  - ⇒ The placeholders are automatically transferred to the template file.
- ▶ Save the template file.
- ▶ Close the window with the placeholders.
- ▶ Click "OK".
  - ⇒ A PDF file is created.
  - ⇒ The created PDF files are saved in the "Documents" directory under "MRU4Win Measurement protocols"

Name	Änderungsdatum	Typ	Größe
Messprotokoll_vom_2020-01-28-131744_...	12.02.2020 12:32	Adobe Acrobat-D...	7 KB
Messprotokoll_vom_2020-01-28-131744_...	12.02.2020 12:34	Adobe Acrobat-D...	8 KB
Messprotokoll_vom_2020-01-28-131744_...	12.02.2020 12:34	Adobe Acrobat-D...	7 KB
Messprotokoll_vom_2020-01-28-131744_...	12.02.2020 12:40	Adobe Acrobat-D...	5 KB
Messprotokoll_vom_2020-01-30-134133_...	12.02.2020 10:38	Adobe Acrobat-D...	39 KB
Messprotokoll_vom_2020-01-30-134133_...	12.02.2020 11:14	Adobe Acrobat-D...	11 KB
Messprotokoll_vom_2020-02-06-112751_...	12.02.2020 11:22	Adobe Acrobat-D...	7 KB
Messprotokoll_vom_2020-02-06-132417_...	12.02.2020 11:27	Adobe Acrobat-D...	8 KB

## 6.12. Create multiple PDFs (Batch)

With this function you can create multiple PDF files for measurement protocols. With this function you do not have the possibility to design and select a template file individually.

When you create PDF files, the predefined PDF template is used.

### Create all measurements of a site as PDF

You can create all existing measurements of a site as PDF files.

- ▶ Click „Management“.
- ⇒ A window appears.
- ▶ Click „All Sites“.



⇒ A list with all stored sites appears.

All Sites (6)								
Site No.	Site Name	Last name	First name	Street	No.	Postal code	City	Supplement
12		Wright	Peter	Worlington Street	34	ST 7UR	London	
13		Xample	Charles	Xample Street	16	SW1E 6LB	London	
14		Wright	Peter	Worlington Steet	34	ST7UR	London	
3		Muster2	Max2	Musterstraße	2	123456	Musterstadt	
4		Muster	Max	Musterstraße	2	123456	Musterstadt	
15		Smith	Kevin	Baker Street	21	SD9F 5CB	London	

- ▶ Select the desired site.
- ⇒ The measuring protocols assigned to the site appear.
- ⇒ In this example, 5 measurement protocols are assigned to the the site 13.

**Protocols (5) for site:**

Charles Xample  
 Xample Street 16  
 SW1E 6LB London  
 Site No. 13  
 Customer Xample Company

**PDF** Select customer [Edit](#)

^	Date	Info	Fuel		
▲	<b>1/30/2020</b>				
	30.01.2020 13:41:33	Abgasmessung	Natural gas	<input type="checkbox"/>	
	30.01.2020 13:49:32	Abgasmessung	Natural gas	<input type="checkbox"/>	
	30.01.2020 13:59:39	Abgasmessung	Natural gas	<input type="checkbox"/>	
▲	<b>2/6/2020</b>				
	06.02.2020 08:42:55	Program 1	Sample gas	<input type="checkbox"/>	
	06.02.2020 08:44:39	Program 1	Natural gas	<input type="checkbox"/>	

- ▶ Click „PDF“.
  - ⇒ A window appears.
- ▶ Set a check mark at „All Protocols“.
  - ⇒ The Option „Create individual PDF files“ appear.
- ▶ Set a check mark at „Create individual PDF files“.
  - ⇒ The options "Graph" and "Comment" appear.
- ▶ If necessary, set check marks at "Graph" and "Comment".

**Create PDF**

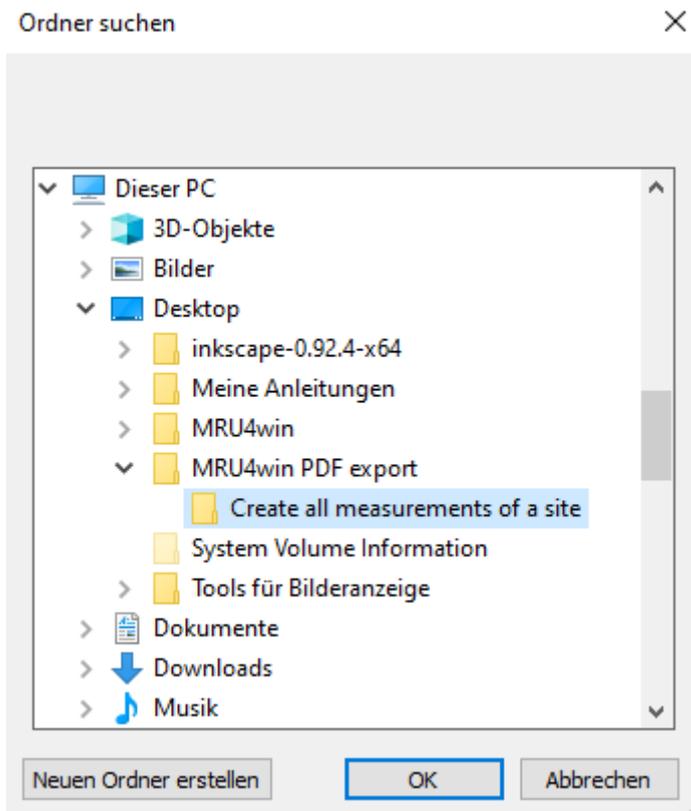
Customer information

All Protocols  Create individual PDF files

Graph

Comment

- ▶ Click „OK“.
- ⇒ A window appears.



- ▶ Select the directory where the PDF files should be saved.
- ▶ Click „OK“.
- ⇒ A subdirectory with the name of the sites is created.
- ⇒ The PDF files are saved in the subdirectory.

MRU4win PDF export > Create all measurements of a site > Site\_13\_---,London

Name	Änderungsdatum	Typ	Größe
 20200130_134133_Abgasmessung.pdf	06.02.2020 11:02	Adobe Acrobat-D...	39 KB
 20200130_134932_Abgasmessung.pdf	06.02.2020 11:02	Adobe Acrobat-D...	40 KB
 20200130_135939_Abgasmessung.pdf	06.02.2020 11:02	Adobe Acrobat-D...	40 KB
 20200206_084255_Program 1.pdf	06.02.2020 11:02	Adobe Acrobat-D...	38 KB
 20200206_084439_Program 1.pdf	06.02.2020 11:02	Adobe Acrobat-D...	40 KB

## Create all measurements of a customer as PDF

You can create all measurements for all sites of a customer as PDF files.

- ▶ Click „Management“.
- ⇒ A window appears.
- ▶ Select a customer.
- ⇒ A window appears.

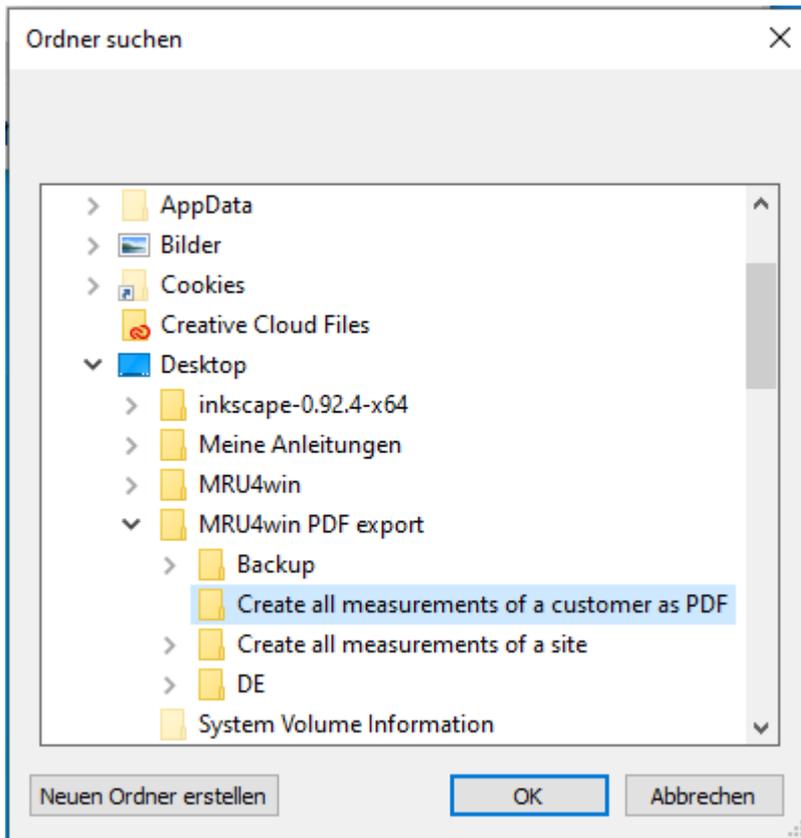
The screenshot shows a software interface for managing customers and sites. On the left, there's a table titled 'All Customers (3)' with columns for Customer No., Company, and Last name. The first row is highlighted in red. On the right, a section titled 'Sites (5) for customer:' is highlighted with a red box. Below this title, there's a text area showing customer details: 'Xample Company', 'Charles Xample', 'Xample Street 16', 'SW1E 6LB London', and 'Customer No. 1'. Below the text area are buttons for 'New Site', 'Protocols', 'PDF' (highlighted with a red box), and 'Edit'. At the bottom right, there's a table with 5 rows and 8 columns: Site No., Site Name, Last name, First name, Street, No., Postal code, and City. The rows contain data for sites 13 through 19.

Customer No.	Company	Last name	First name	Street	No.	Postal code	City
1	Xample Company	Xample	Charles	Xample Street	16	SW1E 6LB	London
2	Steel Industries	Wright	David	Xample Street2	16	SW1E 6LB	London
3	Xample2 Company	Spencer	James	Xample Street	16	SW1E 6LB	London
			Harry	Xample Street	16	SW1E 6LB	London
			Barry	Xample Street	16	SW1E 6LB	London

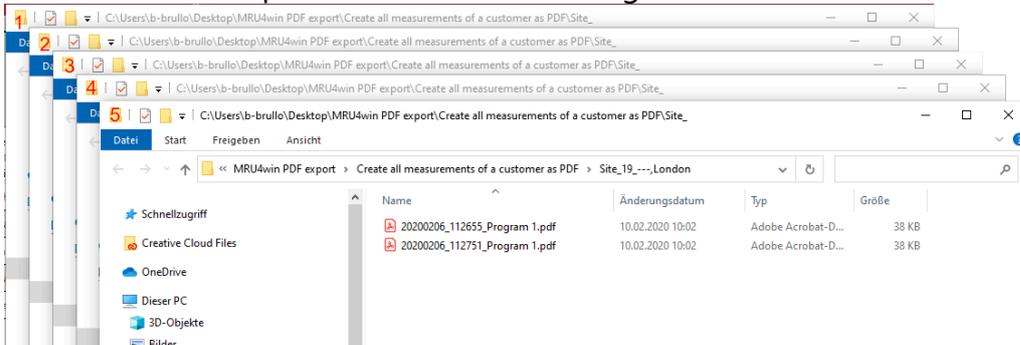
- ⇒ In this example 5 sites are assigned to the customer.
- ▶ Click „PDF“.
- ⇒ A window appears.
- ▶ Set a check mark at „All Protocols“.
- ⇒ The Option „Create individual PDF files“ appear.
- ▶ Set a check mark at „Create individual PDF files“.
- ⇒ The options "Graph" and "Comment" appear.
- ▶ If necessary, set check marks at "Graph" and "Comment".

The screenshot shows a dialog box titled 'Create PDF'. It has a red header. Below the header, there are several options with checkboxes: 'Customer information', 'All sites', 'All Protocols' (highlighted with a red box), 'Create individual PDF files' (highlighted with a red box), 'Graph', and 'Comment'. At the bottom of the dialog box, there are two buttons: 'OK' and 'Cancel'.

- ▶ Click „OK“.
- ⇒ A window appears.



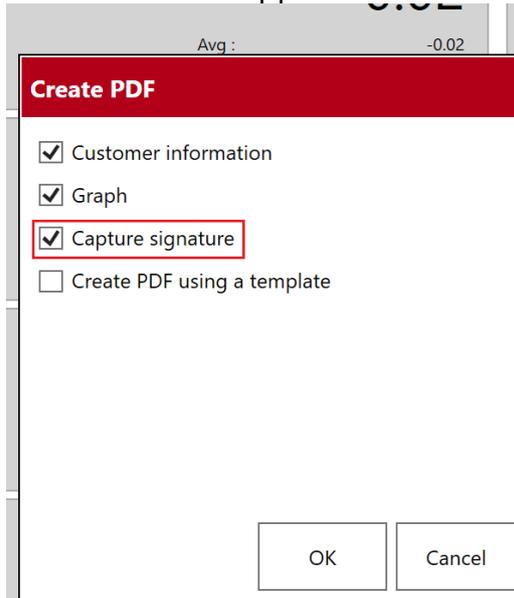
- ▶ Select the directory where the PDF files should be saved.
- ▶ Click „OK“.
- ⇒ For each site a subdirectory is created.
- ⇒ The PDF files are saved in the respective subdirectory.
- ⇒ In this example 5 installations are assigned to the customer.



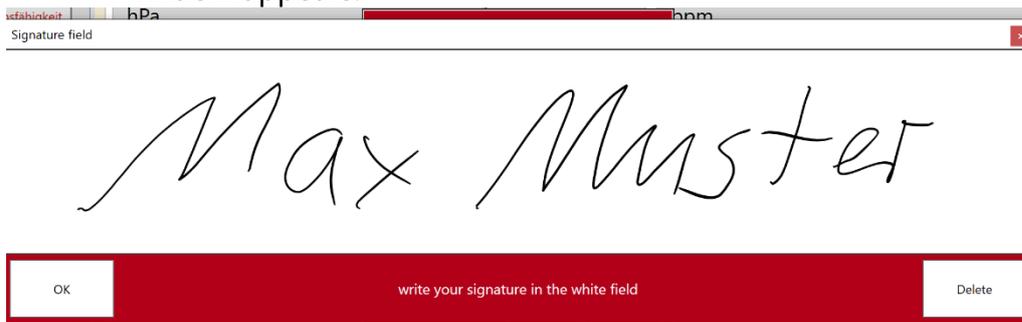
### 6.13. Capture signature with pen for PDF export

On devices that support pen input (tablets), you have the option of signing a measurement report with a pen.

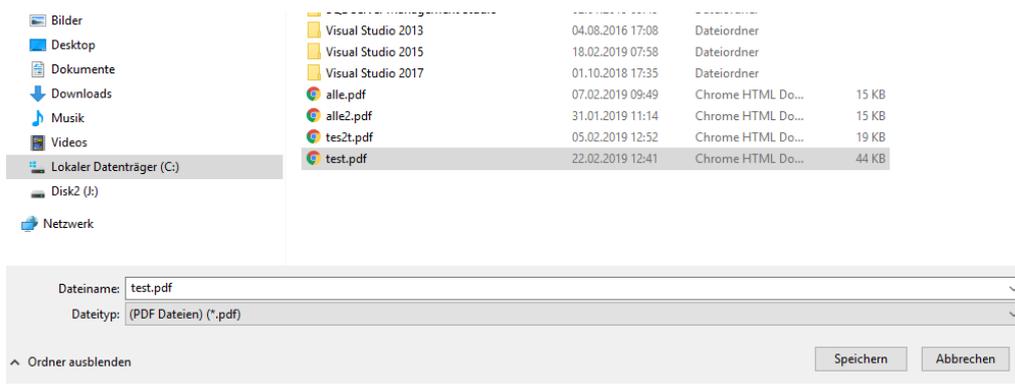
- ▶ Click „Management“.
- ⇒ A window appears.
- ▶ Select a customer.
- ▶ Click „PDF“.
- ⇒ A window appears.



- ▶ Click „Capture signature“.
- ▶ Click „OK“.
- ⇒ A window appears.

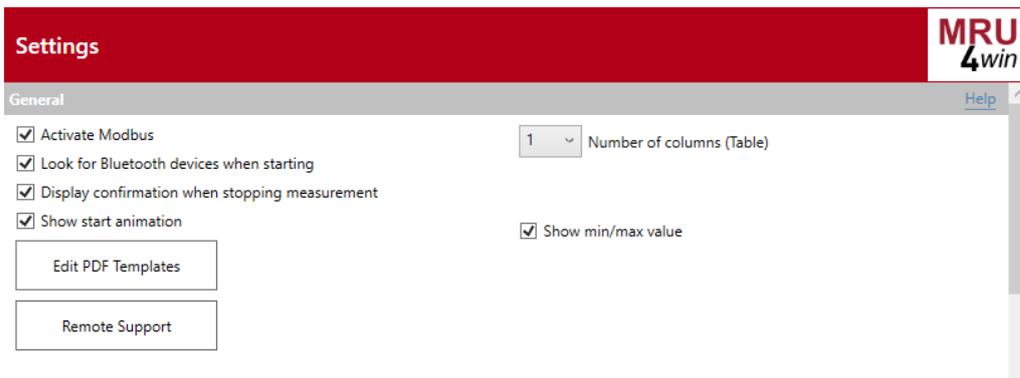


- ▶ Enter the signature using the pen.
- ▶ Click „OK“.
- ⇒ A window appears.



- ▶ Give the PDF file a name.
- ▶ Save the PDF file.
  - ⇒ The captured signature is inserted into the created PDF file.

## 7 Settings



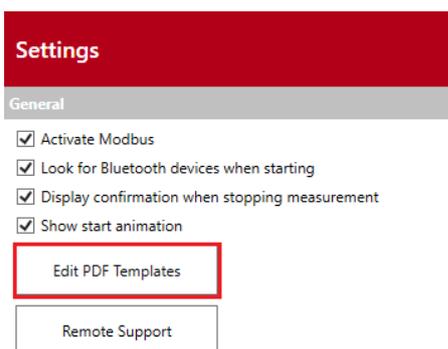
### 7.1. General Settings

Under General settings you can:

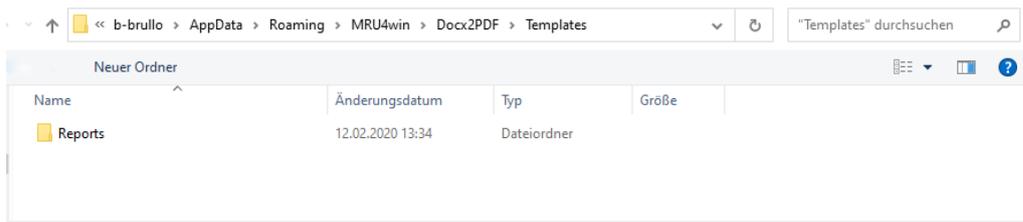
- Activate/Deactivate Modbus
- Look for Bluetooth devices when starting
- Display confirmation when stopping measurement.
- Show start animation.
- Set Number of columns (Table).
- Show min/max value.
- Edit PDF Templates
- Request Remote Support

### Editing PDF Templates

You can change PDF templates and add or remove placeholders.  
You can display a list with all available placeholders.

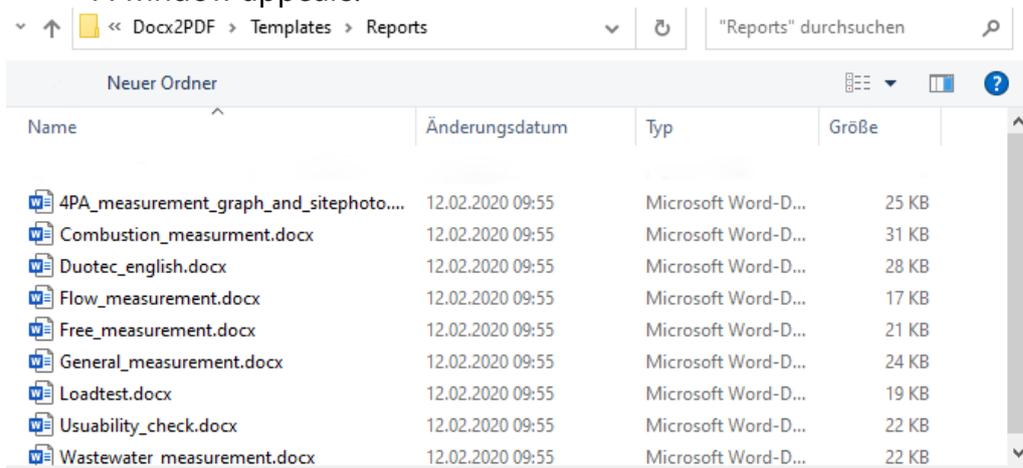


- ▶ Click „Edit PDF Templates“.
- ⇒ A window appears.



▶ Select the desired directory.

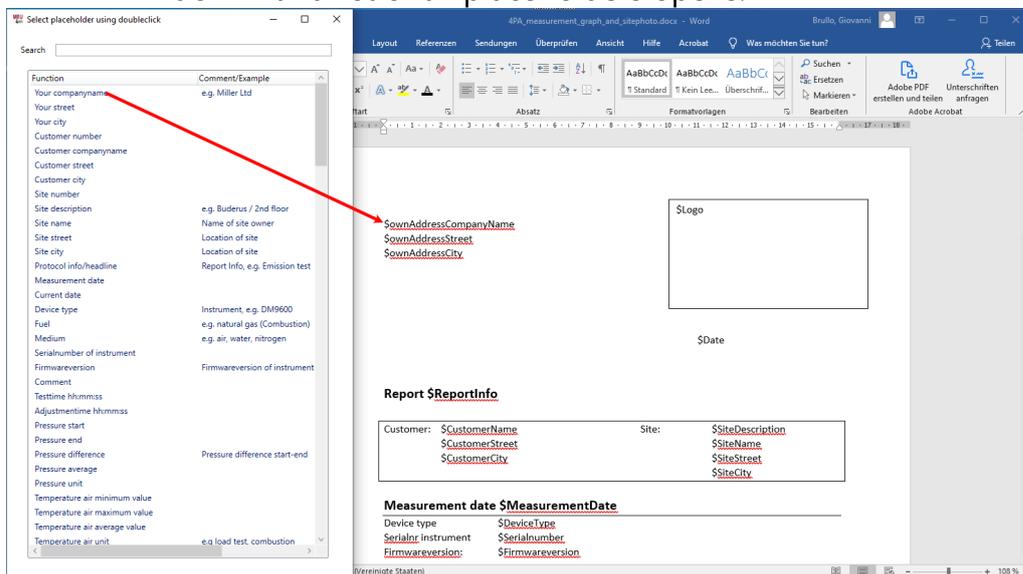
⇒ A window appears.



▶ Select the desired template file.

⇒ The template file opens.

⇒ A window with a list of all placeholders opens.



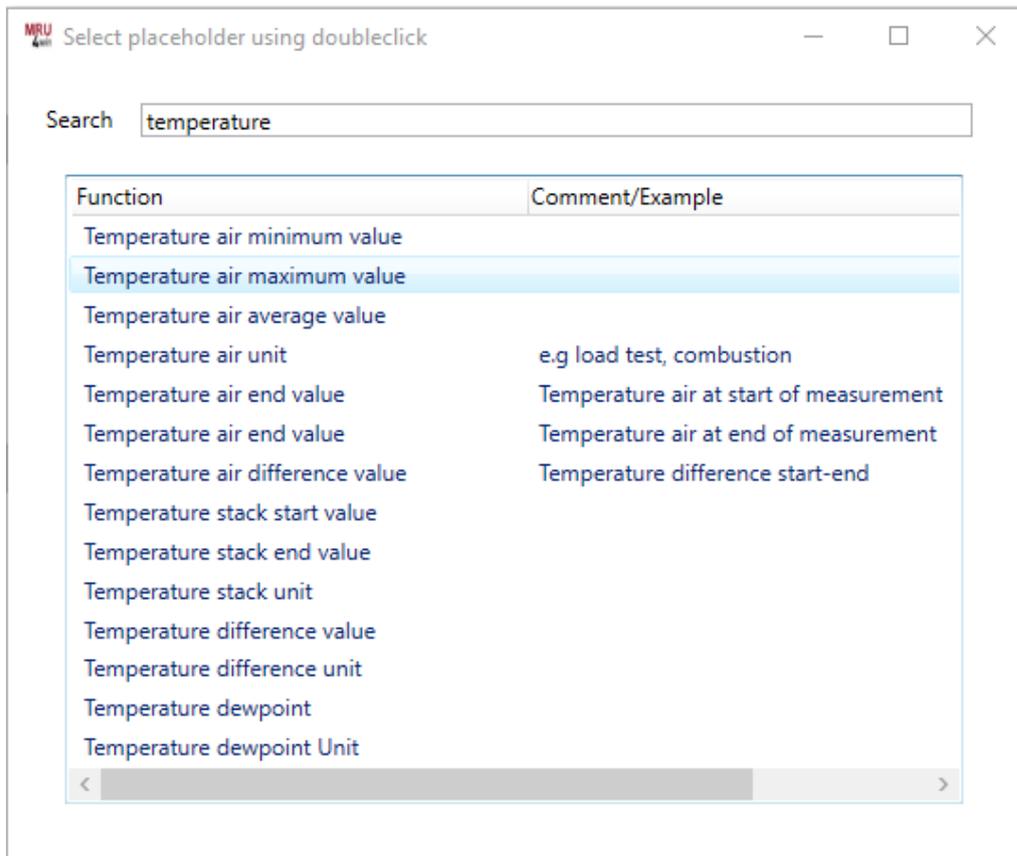
▶ Add the desired placeholders by double-clicking them in the template file.

▶ Save the template file.

The window with the list of all placeholders has a search function.

▶ Enter the desired search term in the search field.

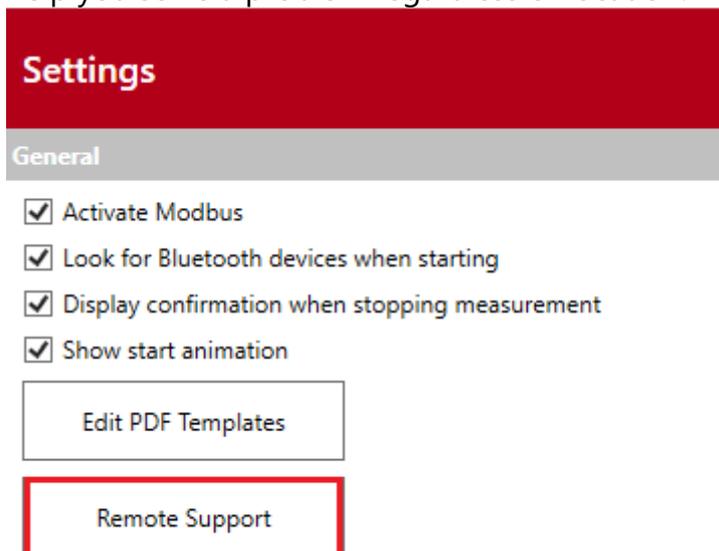
⇒ The relevant placeholders appear in the window.



## Request Remote Support

With Remote Support, you allow a trusted person to access your computer.

You have to enter a security code to unlock the screen. The trusted person can help you solve a problem regardless of location.



- ▶ Click „Remote Support“.
- ⇒ A window appears.

- ▶ Enter the 6-digit security code provided to you by the trusted person.
  - ⇒ A button becomes active.
- ▶ Click the button.
  - ⇒ The remote connection is established.
  - ⇒ The trusted person has access to your computer.

## 7.2. Setting units

Under Units you can set the pressure, temperature and energy related.

Units

Draft	hPa	->	<input type="text" value="hPa"/>	↻
Temperature			<input type="text" value="°C"/>	
Energy related			<input type="text" value="mg/kWh"/>	

### Setting pressure

- ▶ Click Settings.
- ▶ Select the desired unit.
- ▶ Click ↻ to set the default settings.

## Setting Temperature

- ▶ Click Settings.
- ▶ Select the desired unit.

## Setting Energy related

- ▶ Click Settings.
- ▶ Select the desired unit.

## 7.3. Configuring measurement

Measurement

<p>Sampling rate</p> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td style="width: 20px; height: 20px;">[dd]</td><td style="width: 20px; height: 20px;">[hh]</td><td style="width: 20px; height: 20px;">[mm]</td><td style="width: 20px; height: 20px;">[ss]</td></tr> <tr><td>00</td><td>00</td><td>00</td><td>01</td></tr> <tr><td style="border: none;">⌂</td><td style="border: none;">⌂</td><td style="border: none;">⌂</td><td style="border: none;">⌂</td></tr> </table> </div> <div style="text-align: center;">↻</div> </div>	[dd]	[hh]	[mm]	[ss]	00	00	00	01	⌂	⌂	⌂	⌂	<p>Default Graph Span</p> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td style="width: 20px; height: 20px;">[hh]</td><td style="width: 20px; height: 20px;">[mm]</td></tr> <tr><td>02</td><td>05</td></tr> <tr><td style="border: none;">⌂</td><td style="border: none;">⌂</td></tr> </table> </div> <div style="text-align: center;">↻</div> </div>	[hh]	[mm]	02	05	⌂	⌂	<p>Max protocol duration. After expiration a new protocol is created.</p> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td style="width: 20px; height: 20px;">[dd]</td><td style="width: 20px; height: 20px;">[hh]</td></tr> <tr><td>00</td><td>00</td></tr> <tr><td style="border: none;">⌂</td><td style="border: none;">⌂</td></tr> </table> </div> <div style="text-align: center;">↻</div> </div>	[dd]	[hh]	00	00	⌂	⌂
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[dd]	[hh]																									
00	00																									
⌂	⌂																									
<p>Average (points)</p> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="border: 1px solid #ccc; padding: 2px 5px; margin-right: 5px;">Off</div> <span style="color: red; font-size: small;">No Averaging.</span> </div>	<p>Timed measurement (Measurement stops after time has elapsed) <span style="color: red; font-size: small;">(not active)</span></p> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> <div style="text-align: center;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td style="width: 20px; height: 20px;">[dd]</td><td style="width: 20px; height: 20px;">[hh]</td><td style="width: 20px; height: 20px;">[mm]</td><td style="width: 20px; height: 20px;">[ss]</td></tr> <tr><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td style="border: none;">⌂</td><td style="border: none;">⌂</td><td style="border: none;">⌂</td><td style="border: none;">⌂</td></tr> </table> </div> <div style="text-align: center;">↻</div> </div>		[dd]	[hh]	[mm]	[ss]	00	00	00	00	⌂	⌂	⌂	⌂												
[dd]	[hh]	[mm]	[ss]																							
00	00	00	00																							
⌂	⌂	⌂	⌂																							

The following settings can be made under Measurement:

- Sampling rate
- Average (points)
- Default Graph Span
- Max. Protokolllänge
- Max protocol duration
- Timed measurement

## Setting Sampling rate

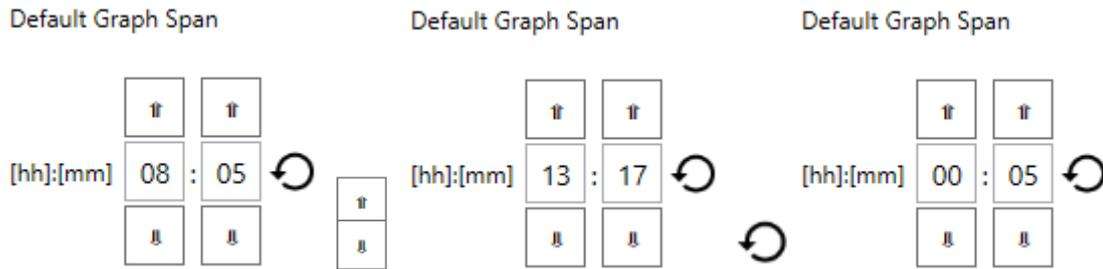
The "Sampling rate" is the interval at which new measured values are transmitted to MRU4Win from a connected measuring device.

<p>Sampling rate</p> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td style="width: 20px; height: 20px;">[dd]</td><td style="width: 20px; height: 20px;">[hh]</td><td style="width: 20px; height: 20px;">[mm]</td><td style="width: 20px; height: 20px;">[ss]</td></tr> <tr><td>01</td><td>22</td><td>00</td><td>01</td></tr> <tr><td style="border: none;">⌂</td><td style="border: none;">⌂</td><td style="border: none;">⌂</td><td style="border: none;">⌂</td></tr> </table> </div> <div style="text-align: center;">↻</div> </div>	[dd]	[hh]	[mm]	[ss]	01	22	00	01	⌂	⌂	⌂	⌂	<p>Sampling rate</p> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td style="width: 20px; height: 20px;">[dd]</td><td style="width: 20px; height: 20px;">[hh]</td><td style="width: 20px; height: 20px;">[mm]</td><td style="width: 20px; height: 20px;">[ss]</td></tr> <tr><td>02</td><td>13</td><td>52</td><td>14</td></tr> <tr><td style="border: none;">⌂</td><td style="border: none;">⌂</td><td style="border: none;">⌂</td><td style="border: none;">⌂</td></tr> </table> </div> <div style="text-align: center;">↻</div> </div>	[dd]	[hh]	[mm]	[ss]	02	13	52	14	⌂	⌂	⌂	⌂	<p>Sampling rate</p> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td style="width: 20px; height: 20px;">[dd]</td><td style="width: 20px; height: 20px;">[hh]</td><td style="width: 20px; height: 20px;">[mm]</td><td style="width: 20px; height: 20px;">[ss]</td></tr> <tr><td>00</td><td>00</td><td>00</td><td>01</td></tr> <tr><td style="border: none;">⌂</td><td style="border: none;">⌂</td><td style="border: none;">⌂</td><td style="border: none;">⌂</td></tr> </table> </div> <div style="text-align: center;">↻</div> </div>	[dd]	[hh]	[mm]	[ss]	00	00	00	01	⌂	⌂	⌂	⌂
[dd]	[hh]	[mm]	[ss]																																			
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[dd]	[hh]	[mm]	[ss]																																			
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- ▶ Click Settings.
- ▶ Set the desired sampling rate.
- ▶ Click ↻ to set the default settings.

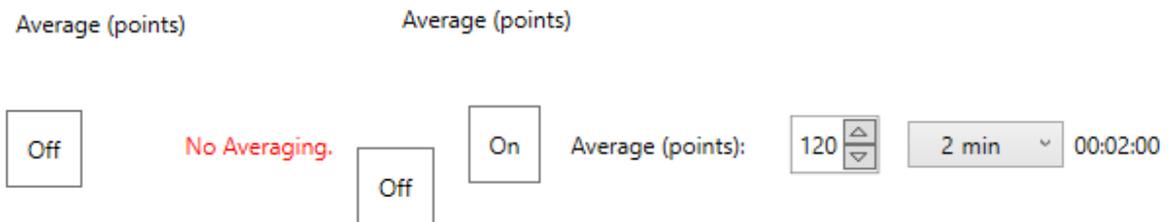
### Setting Default Graph Span

The "Default Graph Span" is the standard length of a graph in a live measurement.



- ▶ Click Settings.
- ▶ Set the desired Default Graph Span.
- ▶ Click ↻ to set the default settings.

### Setting Average (points)

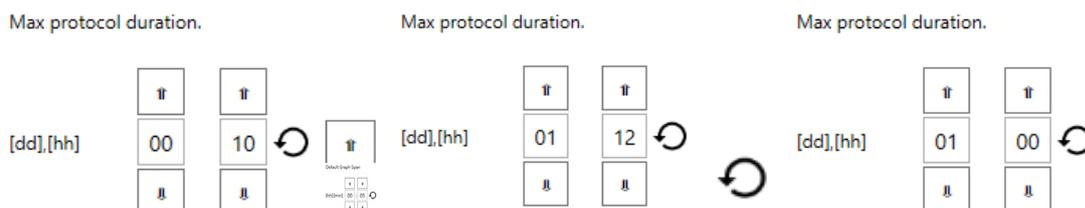


- ▶ Click Settings.
- ▶ Click „Off“.
- ⇒ Averaging becomes active.
- ▶ Set the desired values.

### Setting Max protocol duration

When the set "Max. protocol length" expires, a new protocol will be created automatically.

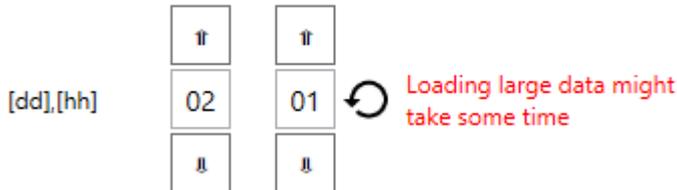
- ▶ When setting the "Max. protocol duration", ensure that the "Timed measurement" is not active.
- ▶ If the "Timed measurement" is active, set 0 days, 0 hours and 0 seconds.
- ⇒ The "Timed measurement" becomes inactive.



- ▶ Click Settings.
- ▶ Set the desired „Max protocol duration“.

- ▶ Set all values to 0 to create an "endless" measuring protocol.
  - ⇒ If you set a "Max. protocol duration" that is longer than 2 days and 1 hour, the message "Loading large data might some time" appears.

Max protocol duration. After expiration a new protocol is created.

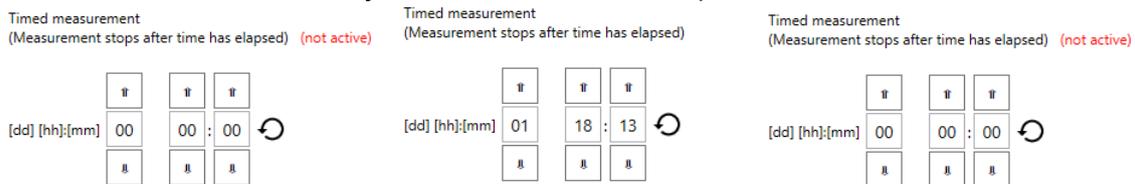


- ▶ Click ↺ to set the default settings.

### Setting Timed measurement

With a timed measurement you can set the time span after which a measurement is automatically stopped.

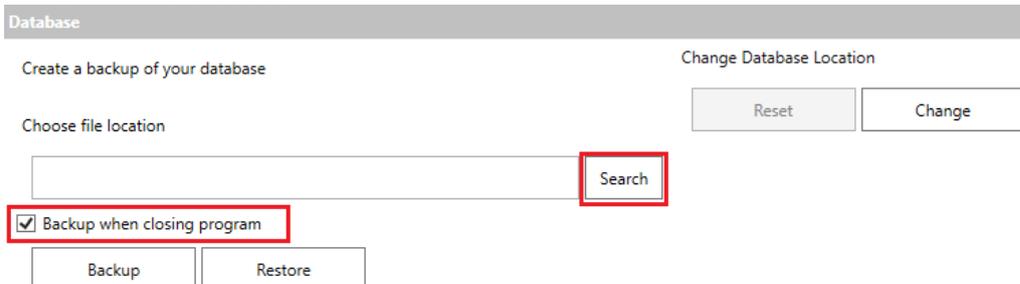
- ▶ Note that the "Timed measurement" is not active by default. If you activate the "Timed measurement" you cannot set a "Max. protocol duration".



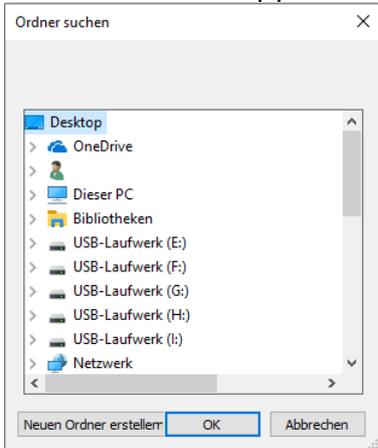
- ▶ Click Settings.
- ▶ Set the desired time period.
  - Note that the maximum settable time span can be 2 days, 23 hours and 59 minutes.
- ▶ Click ↺ to set the default settings.

## 7.4. Creating a backup of the database

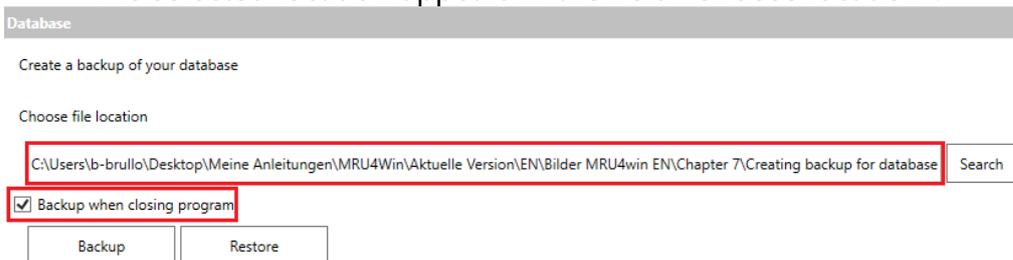
You can set whether the database should be saved to a location you specify when MRU4Win is closed.



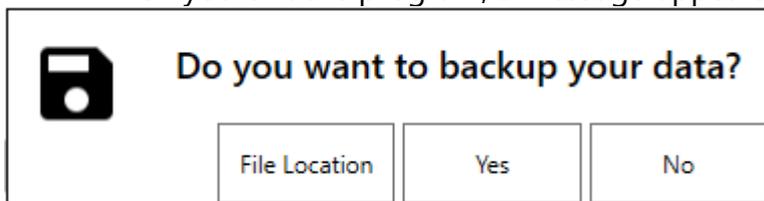
- ▶ Click Settings.
- ▶ Set a check mark at „Backup when closing program“.
  - ⇒ The search button becomes active.
- ▶ Click „Search“.
  - ⇒ A window appears.



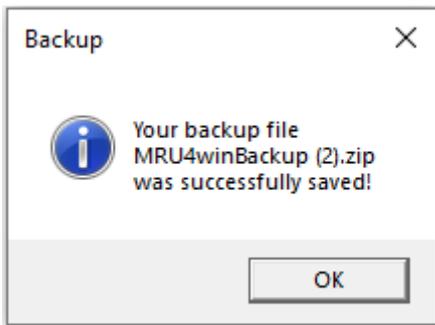
- ▶ Select the desired folder for the database backup.
- ▶ Click „OK“.
  - ⇒ The selected location appears in the field "Choose location".



- ▶ Set a check mark at "Backup when closing program, if a backup should be created after each closing of MRU4win.
  - ⇒ When you exit the program, a message appears.



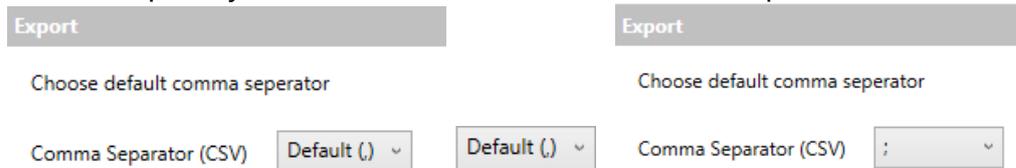
- ▶ Select the desired option.
- ▶ Click „Yes“.
  - ⇒ A window appears.
  - ⇒ The database is backed up to the chosen location.



- ▶ Click „OK“.
  - ⇒ The program is closed.
- ▶ Click „No“.
  - ⇒ The database is not saved.
  - ⇒ The program is closed.
- ▶ Click „File Location“.
  - ⇒ A window appears.
- ▶ Select the desired folder for the database backup.
- ▶ Click „OK“.
  - ⇒ A window appears.
- ▶ Click „Yes“.
  - ⇒ A window appears.
- ▶ Click „OK“.
  - ⇒ The backup is saved to the desired location.
  - ⇒ The program is closed.

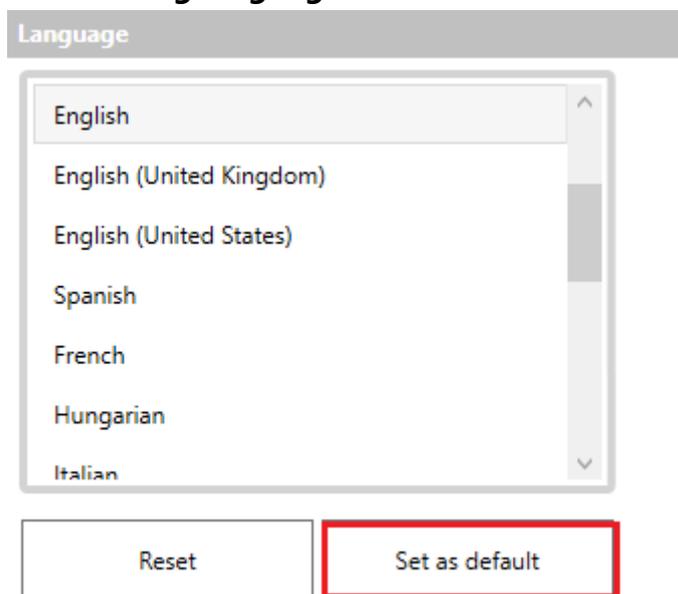
## 7.5. Configuring CSV export

Under „Export“ you can choose the default comma separator.



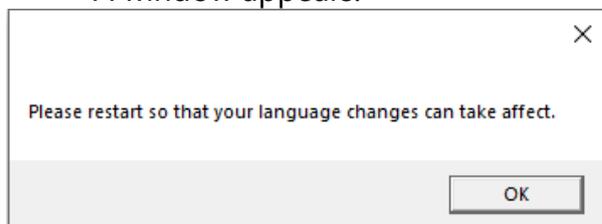
- ▶ Click Settings.
- ▶ Choose the default comma separator.

## 7.6. Setting language



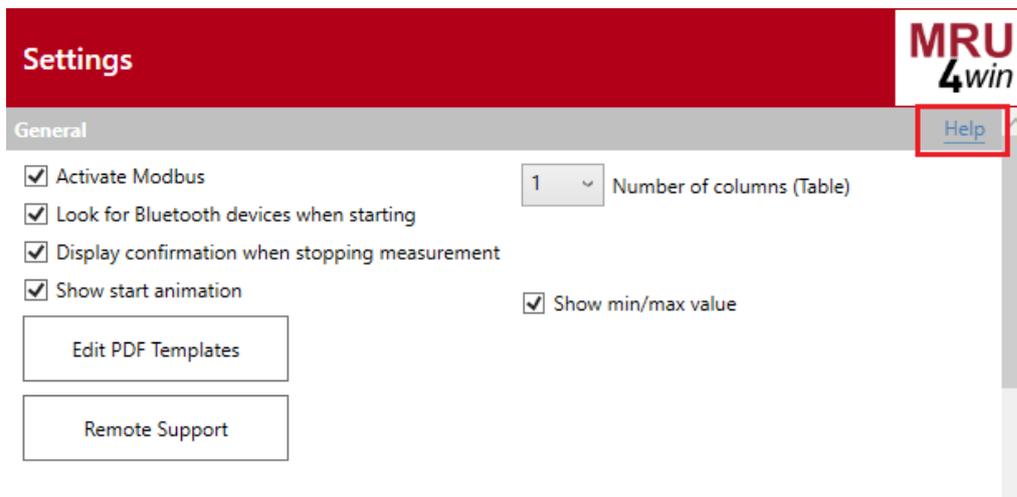
- ▶ Click Settings.
- ▶ Wählen Sie die gewünschte Sprache aus.
- ▶ Choose the desired language.
- ▶ Click „Set as default“.

⇒ A window appears.



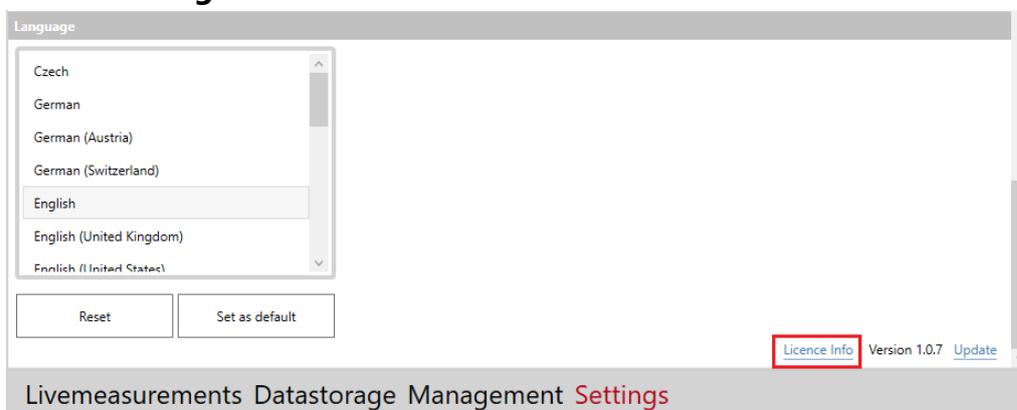
- ▶ Click „OK“.
  - ▶ Close MRU4Win.
  - ▶ Start MRU4Win.
- ⇒ The desired language has been set as default.

## 7.7. Showing Help Function

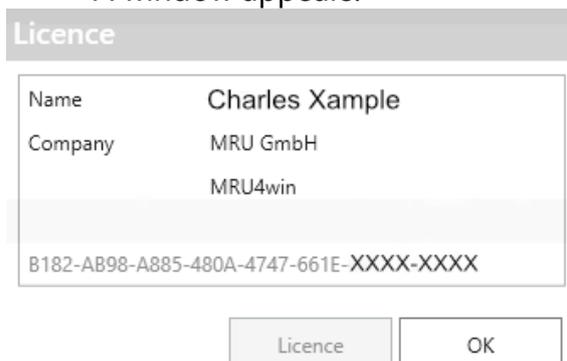


- ▶ Click Settings.
- ▶ Klicken Sie auf „[Help](#)“.
- ⇒ A window appears.

## 7.8. Showing Licence Info

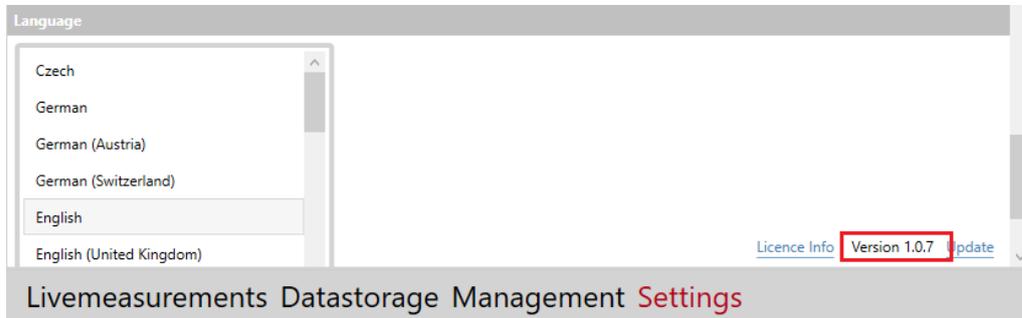


- ▶ Click Settings.
- ▶ Click „[Licence Info](#)“.
- ⇒ A window appears.



- ▶ Click „OK“.
- ⇒ The license info is closed.

## 7.9. Showing version number



- ▶ Click „Settings“.
- ⇒ The version number is located in the lower right margin.