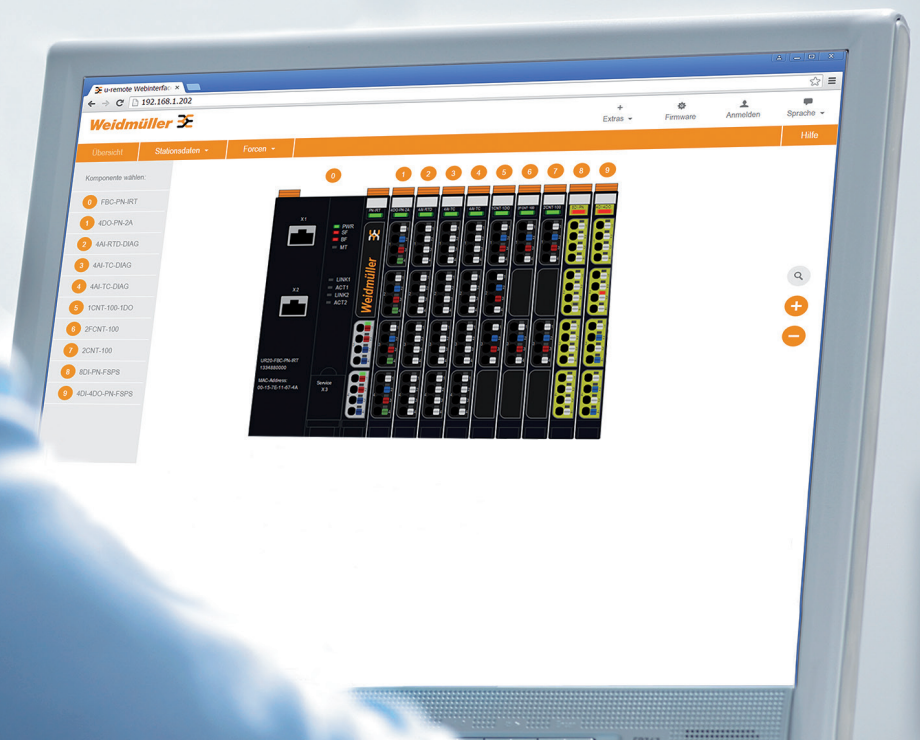


Remote-I/O-System u-remote

Web server manual

Let's connect.



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Manufacturer

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
32758 Detmold, Germany
T +49 5231 14-0
F +49 5231 14-292083
www.weidmueller.com

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1 Introduction

With the web server, the u-remote station is displayed on a connected PC. This allows you to carry out the following tasks e.g. for testing purposes, during commissioning or service:

- Simulate the operation of the u-remote station
- Query the status of each coupler and module
- Display the parameters of couplers and modules, and change them for testing purposes
- Access diagnostic information
- Save the current configuration of a station and load a saved configuration (UR20-FBC-MOD-TCP and UR20-FBC-EIP only)
- Operate the station in force mode for testing purposes

1.1 About this documentation

The safety notices may contain the following warning symbols:

Symbol	Meaning
	Warning against explosive atmospheres
	Observe the documentation



Text next to this arrow are notes which are not relevant to safety, but provide important information about proper and effective work procedures.

- All instructions can be identified by the black triangle next to the text.
- Lists are marked with a tick.

1.2 Complete documentation



This manual describes how to use the web server application (Release 2.0 or higher). When using the u-remote station please also observe the manuals "u-remote I/O-system" and "Modules for Functional Safety".
All documents are available to download from the [u-remote website](#).

1.3 General safety notice

	WARNING
	Explosion risk! ► Prior to starting work, make sure that there is not a potentially explosive atmosphere!

	WARNING
	Manipulation of the control unit! In Force mode, the system may be manipulated to such an extent that can result in life-threatening personal injury and damage to materials. Only use force mode if you are very familiar with the connected system and know at all times the consequences that your actions will have!

ATTENTION
Risk of severe damage! ► Prior to connecting a PC, make sure that the u-remote station has been earthed properly!

2 Connecting the web server and getting started

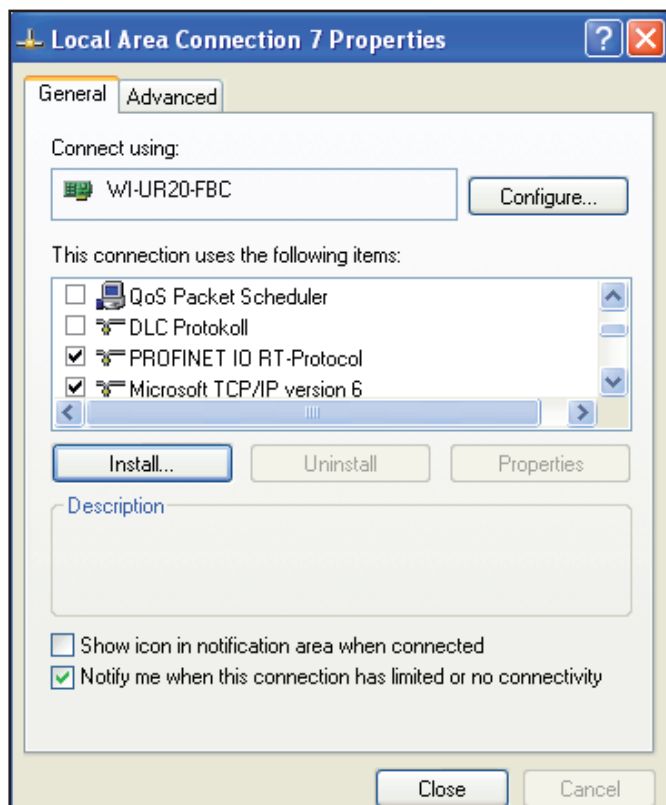
2.1 Requirements

Operating system

The u-remote web server is designed for operation with the Windows XP®, Windows 7® and Windows Vista® operating systems.



For **operation with Windows XP**: if you installed the Siemens Primary Setup Tool, the DLC (data link control) protocol was also installed. To access the web server, you must deactivate the DLC protocol on the USB interface (LAN connection with WI-UR20-FBC).



Deactivating the DLC protocol

Webbrowser

The u-remote web server can be used with the following browsers:

- Mozilla Firefox 4.0 or higher
- Google Chrome 9.0 or higher
- Opera 10.61 or higher
- Microsoft Internet Explorer 9, 10, 11

Screen resolution

When using the web server we recommend a screen resolution 1280 x 800 or higher, at least 1024 x 768. The user interface is displayed optimally with the browser window maximised.

2.2 Installing the web server via USB

First access to the web server has to be via the USB interface of the coupler (see section 2.3). With couplers designed for the use with ethernet based bus systems – recognisable by the RJ45 sockets – the web server can be accessed alternatively via Ethernet (see section 3.7).



The USB port acts as an virtual DHCP Server. Please do not assign any IP addresses to other devices within the same subnet of the USB port (default 192.168.1.202, UR20-FBC-EIP: 192.168.5.202), otherwise network failure might occur.



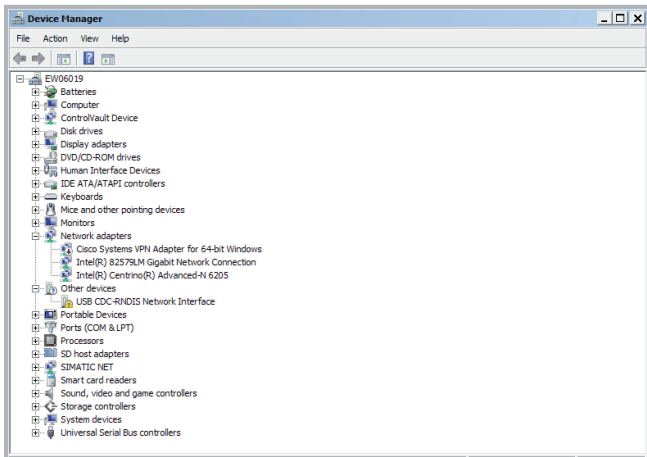
The USB cable can be a maximum of 2 m in length (Type USB-A to USB Micro-B e.g. Weidmüller Order No. 1487980000). Extension cables must not be used.

Installing device drivers

- Download the driver files „usb8023.inf“ and „wmmrndis.inf“ from the [Weidmüller website](#).

You receive the message that Windows cannot install the driver.

- To install the driver manually, open the Device Manager. Under “Other devices” the interface “USB CDC-RNDIS Network Interface” appears.

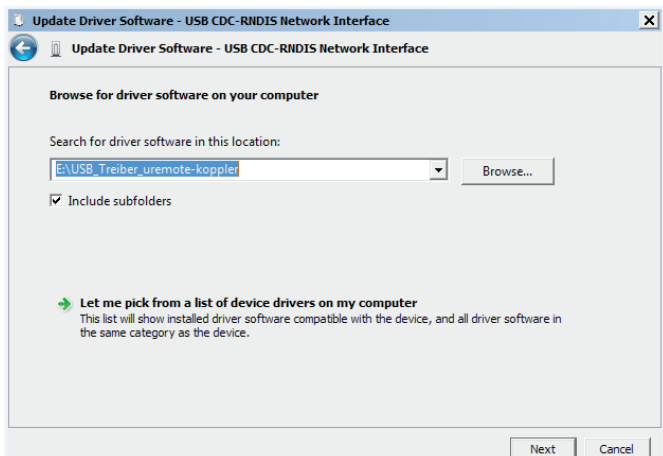


New USB interface in the Device Manager

- Using the mouse, right-click on the interface and select "Update driver software".

You will be asked if you would like to search for the driver software.

- Select the option "Search for driver software on this computer".



Searching for installation files on the computer

- Click on "Browse" and select the folder in which you have stored both .inf files.

There could possibly be a security enquiry because the driver software does not have a signature. Nonetheless, continue with the installation.

- Follow the rest of the steps in the installation routine until the successful installation is confirmed.

The driver will now appear in the Device Manager under "Network adapters".

- Close the Device Manager.

2.3 Starting the web server

The u-remote station must be completely assembled and supplied with voltage.

- Connect the PC to the coupler using a USB cable. The USB socket at the coupler can be found behind the service flap on the front side.
- Open one of the browsers listed in section 2.1
- In the address line, enter the IP address of the coupler (default: 192.168.1.202, UR20-FBC-EIP: 192.168.5.202).

The web server is started. The connected station is displayed with all of its active modules. In the event that the web server will not start, please check the IP address (see section 9.2).

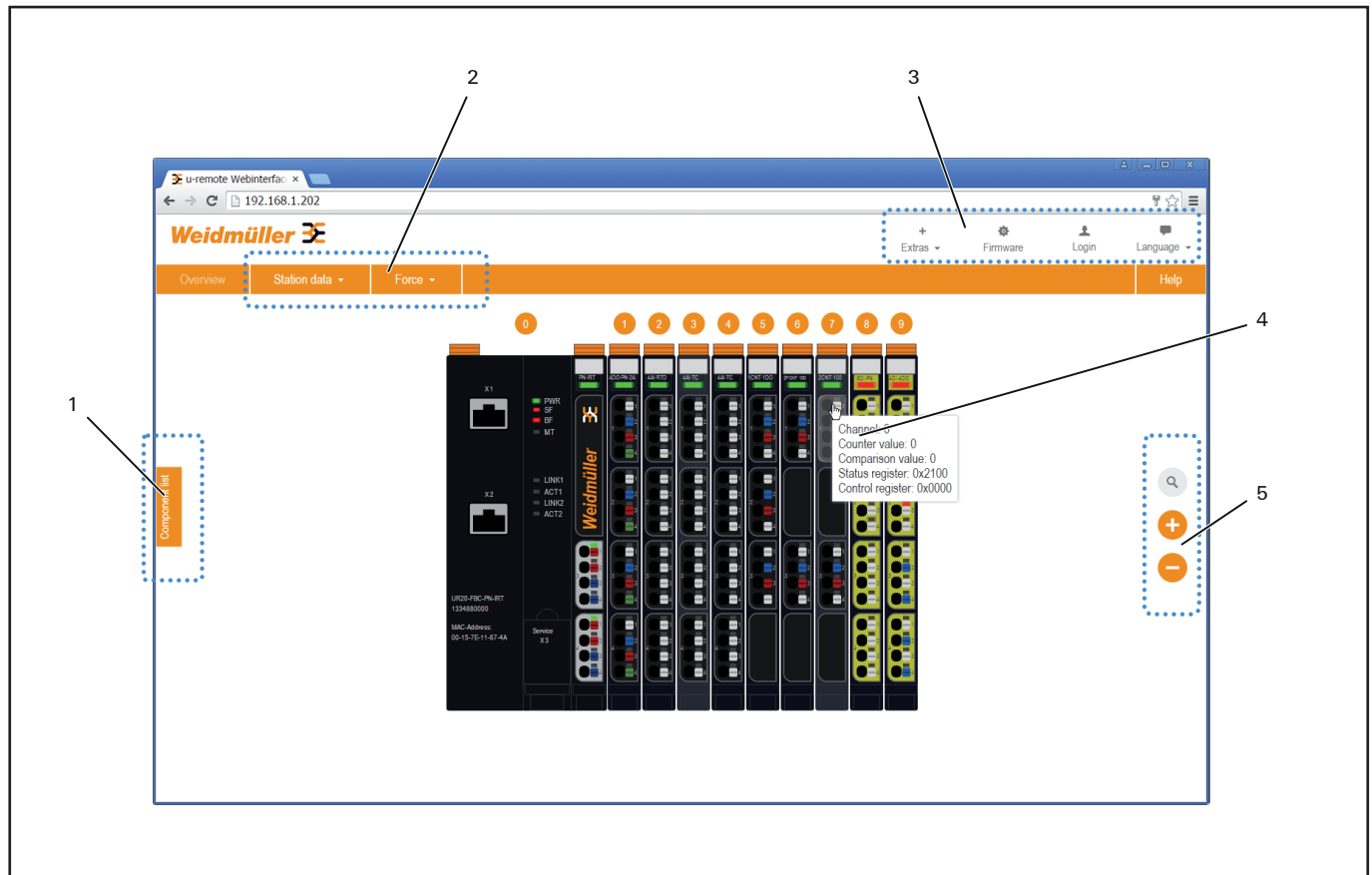


You can also call up the web server via HTTPS (see section 3.8).

3 Getting to know and arranging the web server

3.1 Station view

The station view is displayed on every start up of the web server.

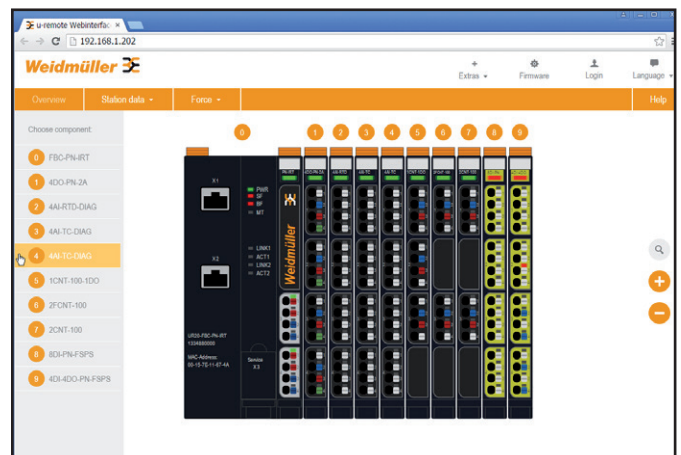


Station view with operating elements

- 1 Switch over to the component list (by mouseover)
- 2 Access to the web server functions
- 3 Menu bar
- 4 Detail view of module/channel (by mouseover)
Switch over to the component view (by mouse click)
- 5 Scaling the view up or down



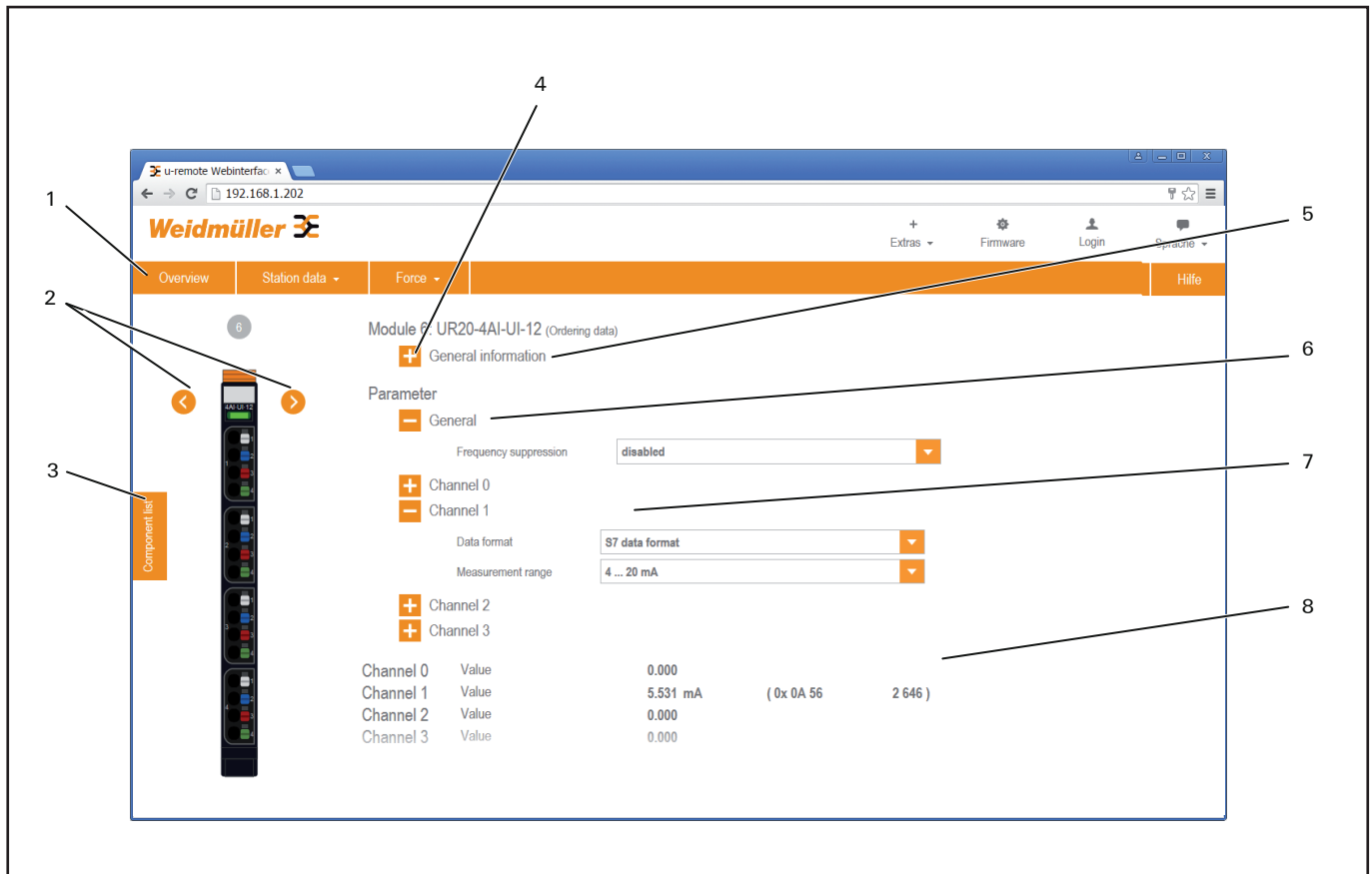
The web server only registers modules that can communicate on the system bus. Empty slot modules and other passive modules (e.g. AUX modules) are not registered by the web server and thus are not displayed in the screen view. The numbering of the modules in the web server view may therefore deviate from the count in the actual station!



Component list faded in

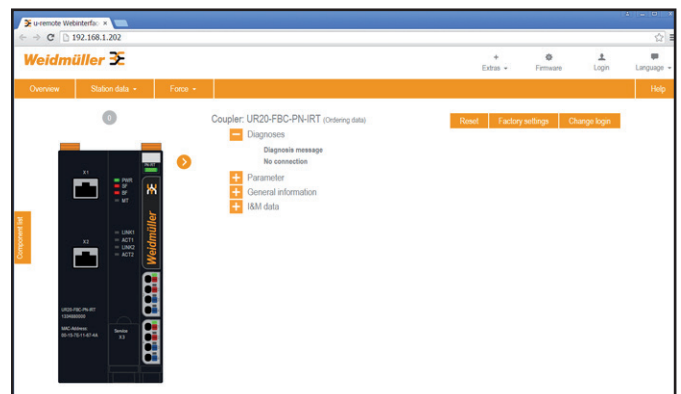
3.2 Component view

The component view is opened after clicking on a component or the component list.



Component view of a module with operating elements

- 1 Switch over to the station view
- 2 Select the next component left/right (by mouse click)
- 3 Fade in the component list (by mouseover)
- 4 Show/hide details (by mouse click)
- 5 Component-related information
- 6 Component-related parameters
- 7 Channel-related parameters
- 8 Channel-related information



Component view of a coupler

3.3 Navigation

There are several options how to display the station or certain components (coupler or modules):

Station view

This view shows all components and you can display details via mouseover. You can open the station view with a click on "Overview".

Component view

Here you see a single component (coupler or module) with its information and parameter settings. Using the arrow keys you can navigate to the subsequent components in the station. You can open the component view by clicking on the component – either in the station view or the component list.

Station data

The current process data and diagnostic data of the entire station are displayed here. Both views are accessible at any time.

3.4 Operation notes

Single mouse clicks (left mouse key) are sufficient when using the web server. Some areas of the user interface are mouse sensitive, which means, they will change whenever you move the cursor in this area without clicking.



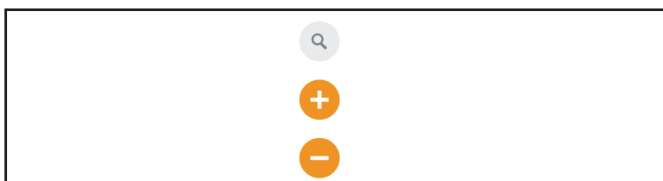
A mouse click is expected whenever the cursor changes to this shape.



You can move the surface while pressing the left mouse key whenever the cursor changes to this shape.

Scaling the station view up and down

- You can resize the view by clicking on the symbols right beside the station view.



Scaling the view

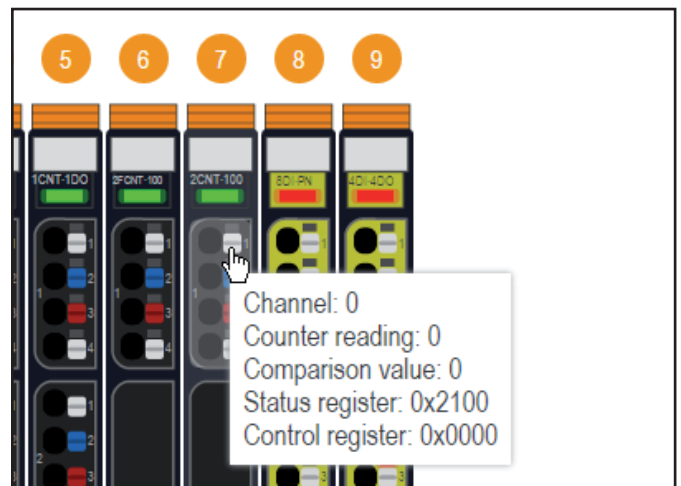
When using a smaller view you can scale up single components by a mouseover.



Scaling up details

Quick view of detailed values

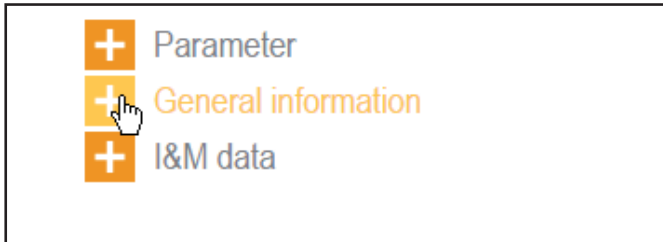
- Move the cursor slowly over the station without clicking. The detailed values of the channel above which the cursor is presently situated are displayed.



Display of channel values

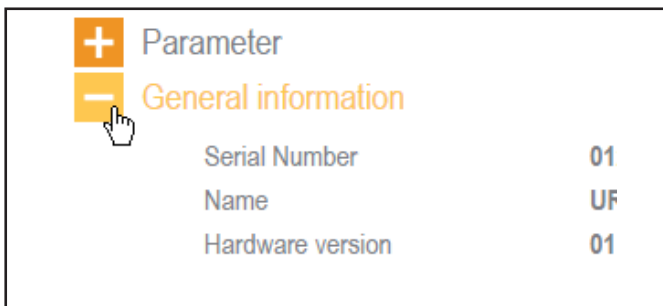
Showing/hiding content

You can open all entries marked with a plus symbol by a single mouse click so that the content will be displayed.



Showing content

Vice versa you can hide content by clicking on the minus symbol.



Hiding content

Tracing changes

If you change an entry it will be marked with a green symbol.



Changes marked

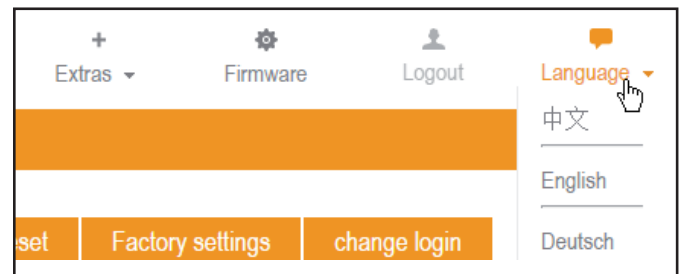
In this state you can withdraw every single change. All changes will be withdrawn simultaneously by clicking on "Restore". The markings will be eliminated as soon as you apply the changes or click on "Restore".

3.5 Setting the language

Changing the language

When the program is started, the web server attempts to start with the language set in your web browser. If this language is not supported by the web server, the program starts with the "English" setting.

- To change the language, click on "Language" in the menu bar and choose the desired setting.

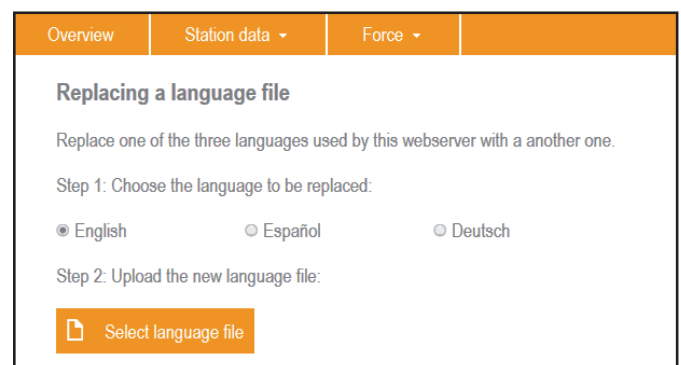


Changing the language

Replacing a language

Three languages can be stored in the coupler at the same time. By default these are German, English and Chinese. Every language may be replaced by another.

- Download the language files from the [Weidmüller website](#) and unpack the desired languages to your PC.
- Click "Language/More..." in the menu bar.
- Select the language, you want to replace.



Replacing a language

- Click "Select language file".
- Select the language file from the storage location on your PC and click on "Open".

The new language is loaded onto the coupler. After a restart of the coupler, you can change the language setting to the new language.

3.6 Setting up login data and password protection

Password protection restricts the access to the following functions:

- Change parameters
- Operate the station in force mode
- Load firmware updates

Users without a user ID will only have read-only rights. Write access is blocked for them, which means that they cannot use the listed functions. If you deactivate password protection („No login information“), all web server functions are accessible to every user at all times!



In order to prevent unauthorised access you should change the login data when setting up the web server. Moreover the individual regulations regarding data security have to be observed.

Change login data

- Open the coupler component view.
- Click on “Change login”.

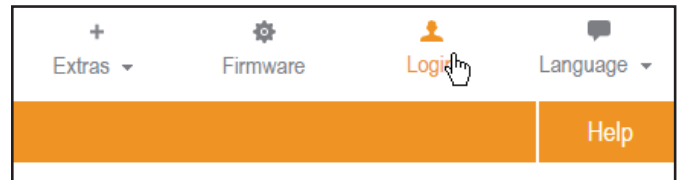
Changing login data

The factory settings of the login data are:

User name: admin
Password: Detmold

- Enter the user name and password.
- To change the login data, enter the new user name and the new password twice, then click on “Change login”. User name and password both require at least three characters being case sensitive.

- If you have changed the login data, you must log in again afterwards.
- Click on “Login” in the menu bar.



Opening the login dialogue

Deactivating password protection/No login information

- Open the coupler component view.
- Click on “Change login”.

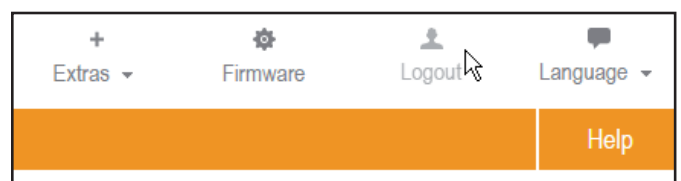
Deactivating password protection

The factory settings of the login data are:

User name: admin
Password: Detmold

- Enter the user name and password.
- To deactivate password protection, click on “No login information”.

The login/logout button in the menu bar gets inactive now. This indicates that there is no password protection set for the web server.



Login/logout button inactive

3.7 Setting up the Ethernet socket

If you want to use the web server via Ethernet you have to set up the ethernet connection first.

- Connect the PC with the coupler (or a switch within the network) using a LAN cable.
- Click on the coupler in the station view and then on "Parameter".
- Define the IP address, subnet mask and gateway to be used.
- Make sure, that the parameter "Webserver over Ethernet" is enabled.

The screenshot shows the 'Parameter' configuration page for a 'Coupler: UR20-FBC-MOD (Ordering data)'. The 'Webserver over Ethernet' parameter is set to 'enabled'. Other visible parameters include IP Address (192.168.0.222), Subnetmask (255.255.255.0), Gateway (192.168.0.1), and IP Configuration (Static).

Setting up the ethernet socket

- Click on "Apply changes".
- Remove the USB cable between coupler and PC.
- Restart the coupler.

Any change of IP settings of USB or Ethernet port will only be effective after restarting the coupler.

3.8 HTTPS

With HTTPS, the web server and client communicate encrypted on the transport layer. This ensures the authenticity of the server as well as the integrity and confidentiality of the data transmitted.

The following u-remote couplers support HTTPS:

Best.-Nr.	Coupler	Firmware version	Hardware version
1334910000	UR20-FBC-EC	00.06.01	02.00.00 or higher
2476450000	UR20-FBC-MOD-TCP-V2	00.03.02	-
1334920000	UR20-FBC-EIP	00.03.02	02.00.00 or higher
1334940000	UR20-FBC-PL	01.03.00	-



The couplers require FSBL version 01.02.00 or later. You can download the latest FSBL version from the [Weidmüller website](#).

You can view the FSBL version in the coupler component view under "General data / Firmware version / FSBL version". You can update the FSBL just like the firmware. The FSBL can be updated independently of the firmware.

These couplers have a u-remote standard certificate. The certificate is self-signed and valid until 2038. The certificate cannot be deleted and is always active if no user-defined certificate is used.

The "HTTPS setting" coupler parameter determines whether the web server can be addressed via HTTPS and HTTP or only via HTTPS.

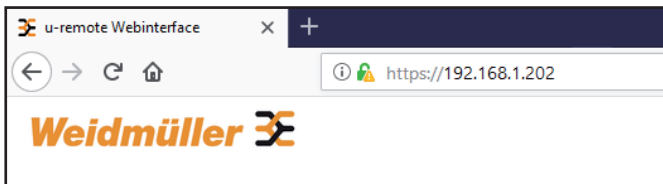
The screenshot shows the 'HTTPS setting' dropdown menu with three options: 'only HTTPS; no HTTP' (selected), 'HTTP & HTTPS concurrent operation', and 'only HTTPS; no HTTP'.

"HTTPS setting" parameter

Call up the web server via HTTPS

The computer must be connected with the u-remote station. The u-remote station must be assembled in full and powered up.

- Open one of the browsers listed in section 2.1.
- In the address line, enter "https://" and the IP address of the coupler (default: 192.168.1.202, UR20-FBC-EIP: 192.168.5.202).



Call up the web server via HTTPS

As your browser does not know the self-signed u-remote standard certificate, it warns you that the connection is not trustworthy.

This warning also appears:

- after changing the IP address of the coupler
- after changing the certificate

- Add an exception rule for this IP address in order to start the web server application.



Only add the exception rule once you are sure that you are connected with the right coupler. Also observe the local data security regulations. We recommend addressing the coupler via the USB port if you add the exception rule.



You can avoid this warning by using a user-defined certificate that has been signed by a trusted certificate authority.

Exchange TLS/SSL certificate

You can replace the u-remote standard certificate with your own certificate. Optionally, you can have your certificate signed by a trusted certificate authority (CA) and also load the CA certificate to the coupler.



Only transmit certificates and private keys via trusted connections.

We recommend transmitting certificates and private keys via the USB port of the coupler.

The web server supports:

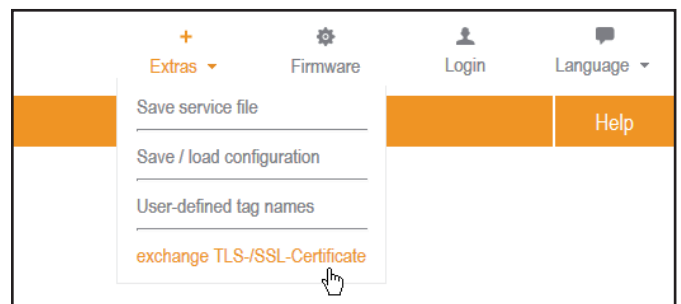
- encryption with TLS 1.1 and TLS 1.2.
- key lengths up to 2048 bit.
- PEM-coded keys and certificates (.pem).

- Generate a private key and an appropriate certificate for it, e.g. with OpenSSL.

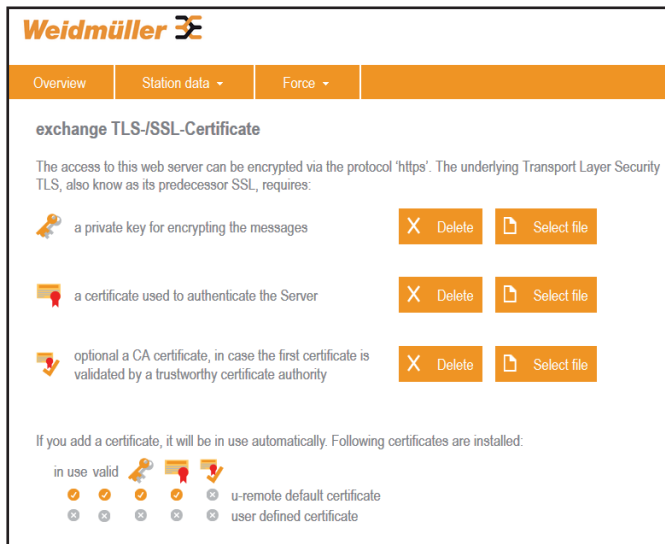


Do not encrypt the private key with a pass phrase. The web server cannot read the key in this case and identifies it as invalid.

- Start the web server
- Log on with your user name and password.
- In the menu bar, click on "Extras" and then on "exchange TLS/SSL certificate".



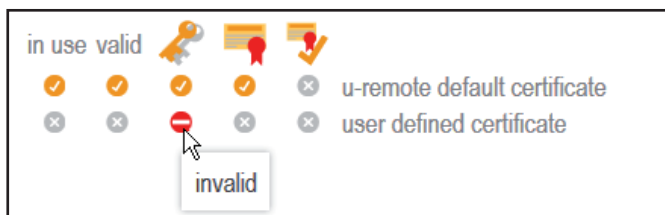
Exchange TLS/SSL certificate menu



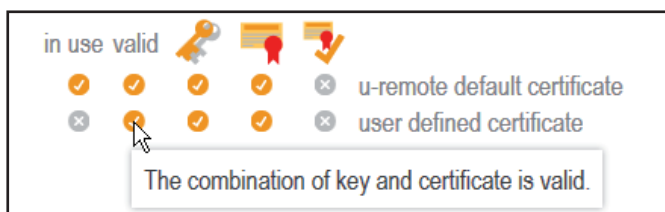
Exchange TLS/SSL certificate

- Delete any old keys and certificates by clicking on "Delete".
- Load the key and the certificates onto the coupler by clicking on "Select file" and then select the relevant file from your computer.

Keys and certificates are automatically checked. The result is displayed in the web server. You can move the mouse over the icons to display the results as text.



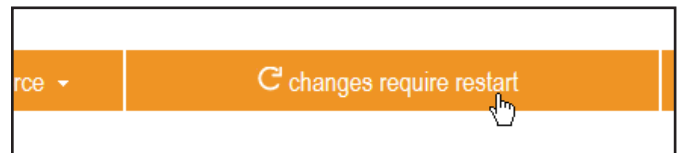
Automatic check: Key invalid



Automatic checking successful

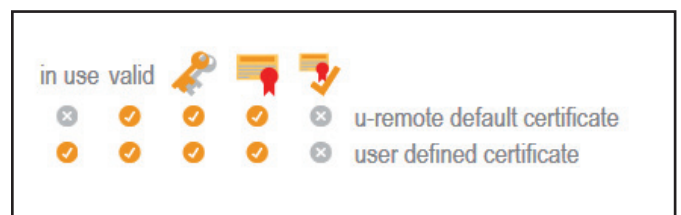
After successful checking, the web server has to be restarted to activate the user-defined certificate.

- Click on "Changes require restart".



Restart the web server

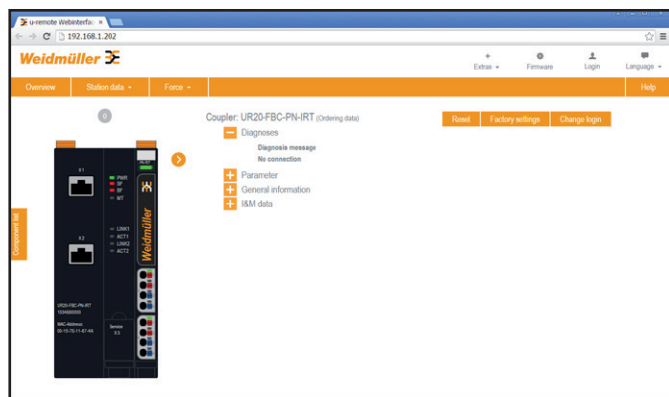
The web server is restarted. After the restart, the user-defined certificate is activated.



User-defined certificate successfully activated

4 Coupler settings

- Open the coupler component view.



Coupler component view

Here you can:

- Access and change the coupler parameters
- Query diagnoses
- Query general information about the coupler
- Type in I&M data (Identification & Maintenance)
- Change the login data and set up password protection (see section 3.6).
- Reset any changes that have been made (Reset)
- Reset the coupler to factory settings
- Access the datasheet of the coupler (link "Ordering data")



The coupler settings are only accessible when force mode is not active.

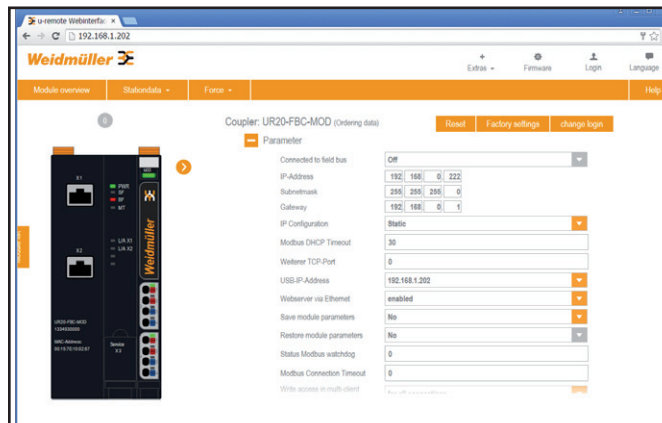


The status data can be displayed at all time, regardless of the state of the field bus connection. Setup changes can only be stored while the field bus is not active.

4.1 Displaying and editing parameters

- Open the coupler component view.
 - Click on the plus symbol besides "Parameter".
- The parameters are displayed.

For parameters that can be edited, you can enter the changes in the entry fields or choose alternative settings from a dropdown menu.



Displaying and changing the coupler settings

- Make the desired modifications.

Each change is marked with a green symbol until it will be applied. All changes will only be saved after you click on „Apply changes“. All changes will be undone after you click on „Restore“

- After making your modifications click on "Apply changes". Changes will be transferred to the coupler, the green markings will be removed.

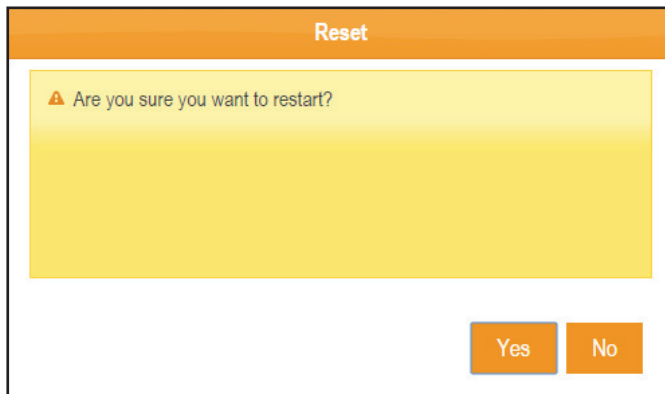
4.2 Resetting the web server

You can undo all the changes that have been made since the last time that the web server was started with a reset.



After a reset, the coupler is restarted! All data which is not protected against power failure is reset.

- Open the coupler component view.
- Click on "Reset" and then "Yes".



Restarting web server and coupler

The coupler as well as the web server are restarted.

4.3 Resetting the coupler to factory settings

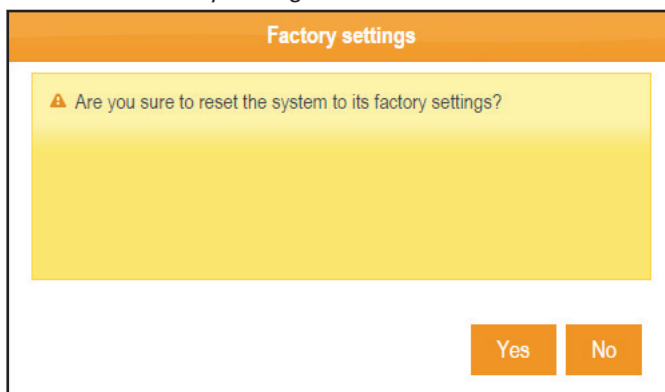
This function allows you to set up the coupler in its original state as at delivery. This includes the reset of the following data:

- All coupler parameters
- Login data and password protection
- I&M data
- Modified module parameters that are saved in the coupler.



During a reset, the coupler is restarted!

- Open the coupler component view.
- Click on „Factory settings“ and then on „Yes“.



Resetting the coupler to factory settings

The coupler as well as the web server are restarted. The coupler is in the state as at delivery.

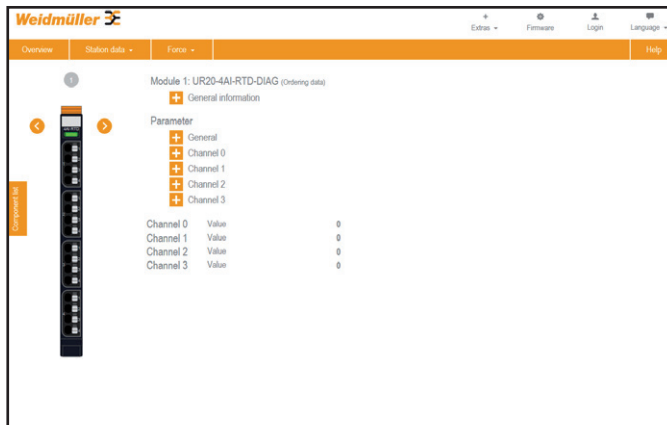
4.4 Calling up the data sheet

- Click on “Ordering data” to open the data sheet of the coupler.

A connection to the Weidmüller website is established in a new window and the data sheet will be shown in a PDF file.

5 Module settings

- Open the module component view.



Module component view

Here you can:

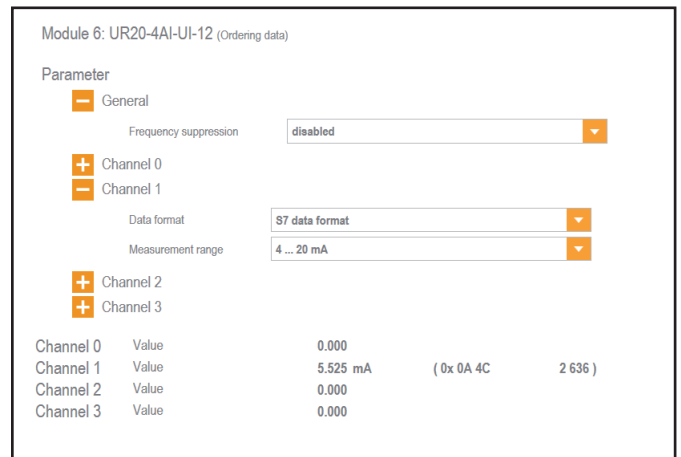
- Query general information about the module
- Access and change the module parameters
- Query information about certain channels
- Access the data sheet of the module (link "Ordering data")



The module settings are only accessible when force mode is not active.



Parameters can only be written when the field bus is not active.



Displaying and editing module parameters

- Enter the desired modifications.

Each change is marked with a green symbol until it will be applied. All changes will only be saved after you click on "Apply changes". All changes will be undone after you click on "Restore"

- After making your modifications click on "Apply changes". Changes will be transferred to the coupler, the green markings will be removed.

5.1 Displaying and editing parameters

- Open the module component view.
- Click on "Parameter" (for the module and/or for certain channels).

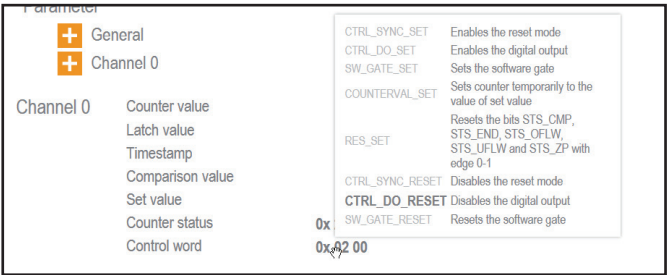
The parameters are displayed.

For parameters that can be edited, you can enter the changes in the entry fields or choose alternative settings from a dropdown menu.

5.2 Displaying register settings

For modules with registers (e.g. counter modules and PWM modules), the register settings can be displayed in a tool tip.

- Open the module component view.
- Move the cursor over the value of the register you want to see.



Displaying the register settings

The registers displayed in bold are set, all of the others are not set.

5.3 Calling up the data sheet

- Click on "Ordering data" to open the data sheet of the module.

A connection to the Weidmüller website is established in a new window and the data sheet will be shown in a PDF file.

6 Configuration and station data

6.1 Save/load configuration

You can save the current configuration of the u-remote station or load an existing configuration into the coupler. This makes arranging several stations of identical setup very easy.



A saved configuration can only be load into the coupler, if the u-remote stations are physically identical (number, sequence and type of modules that are registered by the web server, see section 3.1)



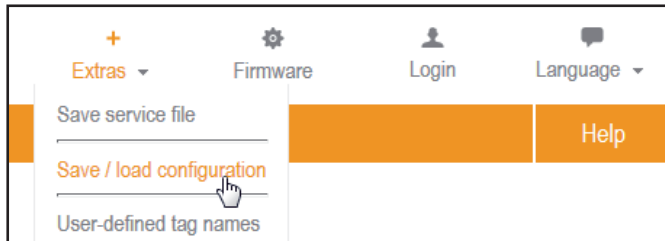
The following information will **not** be saved by the function "save configguration":

- IP address
- Gateway
- Subnet mask

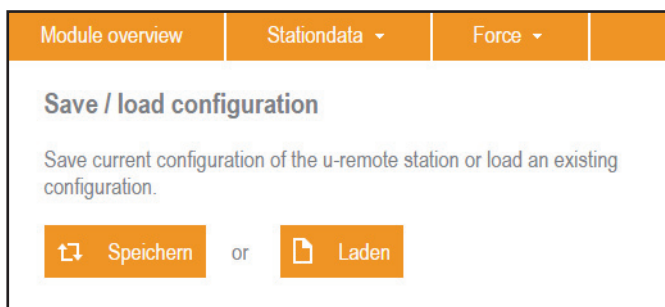


For Modbus-TCP coupler only: The IP address will be set to 0.0.0.0 when loading a configuration into the coupler.

- Click on "Extras" on the menu bar an then on "Save/load configuration".



Menue Save/load configuration



Saving or loading configuration

- Click on "Save " to save the configuration. Subsequently chose the memory location for the file „parameter.bin“.
- Close the download window.
- Or:
- Click on "Load" to load an existing configuration. Subsequently chose the file you want to load into the coupler.



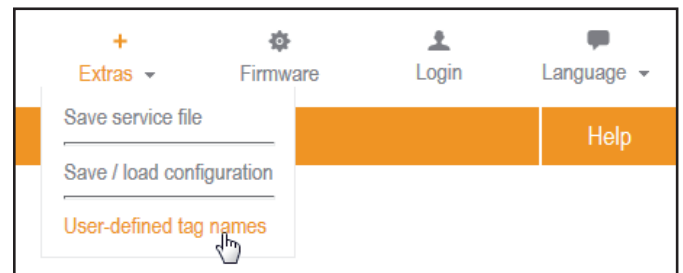
When using PROFINET or PROFIBUS you can continue working.

- With all other fieldbus protocols you have to restart the coupler.

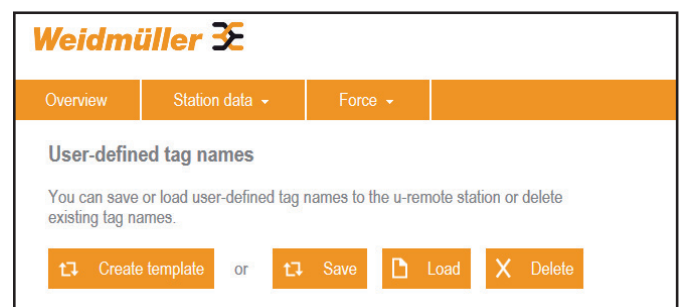
6.2 User-defined tag names

You can define individual names for the channels of each module. The tag names of the entire station are saved in a csv file. You can transfer this file to other stations of identical structure to use the same tag names on all stations. The user-defined tag names can be deleted and reset to default at any time.

- Click on "Extras" on the menu bar an then on "User defined tag names".



Menue User-defined tag names



Menue User-defined tag names

Creating a template

First you need to create a template file which represents the entire station with all modules and channels.

- Click on "Create template".

The file "channelnames_template.csv" is generated.

- You can open the file immediately or save it on your computer to open it there.



- Never use mutated vowel, commas or semicolons for tag names. The structure of modules and channels may not be changed in this file, otherwise it will no longer be compatible with the station.
- In the event that you use special characters make sure to save the CSV-file UTF-8-encoded.

Editing the CSV-file using Microsoft® Office Excel®

	A	B	C	D	E	F	G	H
1		1 ch0	ch1	ch2	ch3			
2		2 ch0	ch1	ch2	ch3			
3		3 ch0	ch1	ch2	ch3			
4		4 ch0	ch1	ch2	ch3	ch4	ch5	ch6
5		5 ch0	ch1	ch2	ch3	ch4	ch5	ch6
6		6 ch0	ch1	ch2	ch3			
7		7 ch0	ch1	ch2	ch3			

Template file with placeholders for tag names (view in Excel)

- Never change the layout of columns and rows.

Editing the CSV-file using a text editor

```
1, ch1, ch1, ch2, ch3, .....
2, ch2, ch1, ch2, ch3, .....
3, ch3, ch1, ch2, ch3, .....
4, ch0, ch1, ch2, ch3, ch4, ch5, ch6, ch7, ch8, ch9, ch10, ch11, ch12, ch13, ch14, ch15
5, ch0, ch1, ch2, ch3, ch4, ch5, ch6, ch7, ch8, ch9, ch10, ch11, ch12, ch13, ch14, ch15
6, ch0, ch1, ch2, ch3, .....
7, ch0, ch1, ch2, ch3, .....
8, ch0
```

Template file with placeholders for tag names (view in a text editor)

- Make sure not to change the separating characters (commas in the figure above).
 - Overwrite the place holders with the desired channel names.
 - If you want no tag name for a certain channel, delete the respective place holder.
 - After you have changed all names as desired please save the file on the computer using a proper file name.
- The new channel names will be displayed in the webserver after the file has been loaded into the coupler.

Loading tag names into the coupler



This function is password protected!

- To load a file into the coupler, click on "Load".
- Enter the user name and password.
- Chose the file and click on "Open".

The file will be loaded into the coupler and the current channel names will be displayed in the web server.

Downloading the current tag names

- To download the station's tag names from the coupler click on "Save".

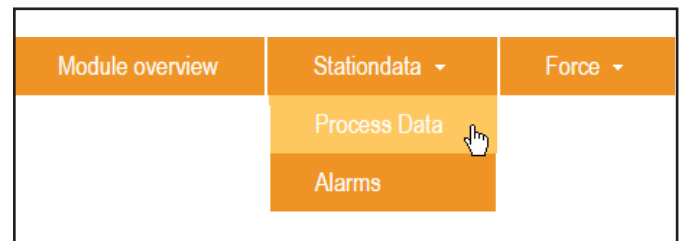
The file "channelnames.csv" is generated. In this file the entire station with all channels and their names are recorded.

Deleting user defined tag names

- To delete all user defined tag names, click on "Delete".
- All channel names will be reset to default.

6.3 Displaying process data

- Click on "Station data" and then on "Process data".



Opening process data

The overview displays the channels of all modules each with its first value.

Weidmüller

Extras

Firmware

Login

Language

Module overview

Stationdata

Force

Process data

Channel details

Show all

Hide all

Channels	1	2	3	4	5	6	
	4DO-PW-2A	4AI-RTD-DIAG	4AI-TC-DIAG	4AI-TC-DIAG	1CNT-100-100	2PCNT-100	
0	0	0	0	0	Counter reading: 0	Current 16777.217 ms period.	Count
1	0	0	0	0		Current 16777.217 ms period.	Count
2	0	0	0	0			
3	0	0	0	0			
4							
5							
6							
7							

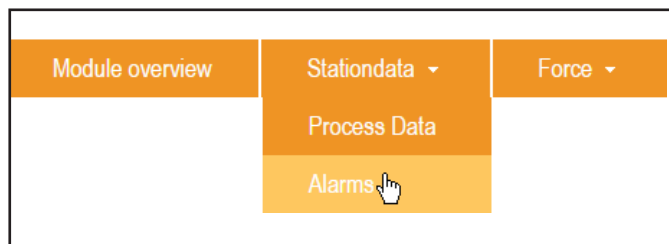
Display of process data

- Click on "Show all" to see the entire overview with all values.

The values are continuously updated.

6.4 Displaying diagnostic data (alarms)

► Click on "Station data" and then on "Alarms".



Opening diagnostic data

The overview displays all current alarms. Components without diagnostic message are not displayed.



Display of diagnostic data

7 Web server in force mode

7.1 Activating the force mode

	WARNING!
	Manipulation of the control unit! In force mode, the system may be manipulated to such an extent that can result in life-threatening personal injury and damage to materials. Only use force if you are very familiar with the connected system and know at all times the consequences that your actions will have!



If the force mode is activated during an established field bus connection a diagnose alarm is generated. Depending on parametrised alarm behaviour the PLC can continue to transmit output process data and the u-remote station will process them for all unforced output channels. However, forced output channels will ignore any process data and behave according to forced values.

Input process data are transferred all the time, independently whether they are simulated by forcing or read via the physical inputs.



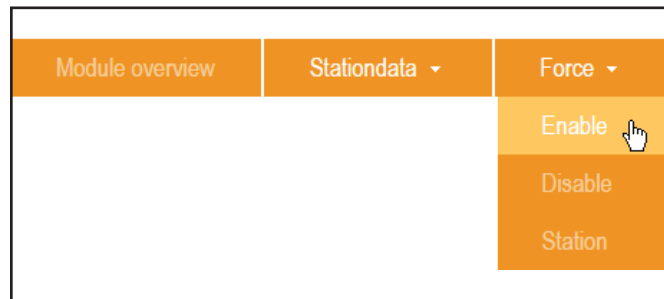
If the force mode is activated without an established field bus connection the fieldbus interface will be deactivated for the duration of forcing. Another fieldbus connection can only be established after the force mode has been deactivated.



Safety related modules (safe I/O modules and safe power-feed modules) can not be forced.

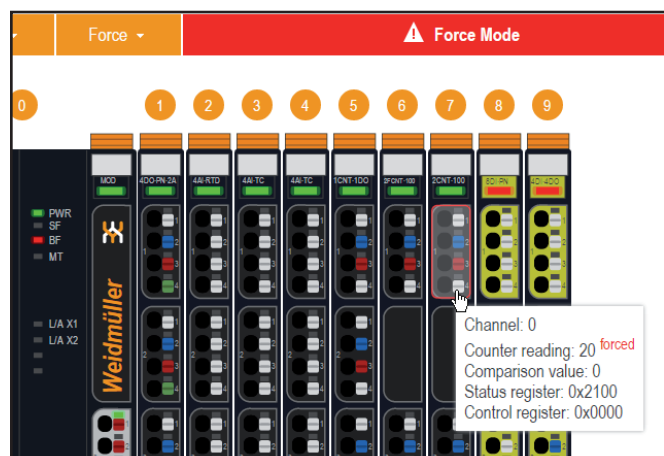
The force mode allows you to carry out functional tests or preconfigure the station prior to commissioning, even if sensors have not yet been connected. To do so, you must change the operating mode of the web server.

- Click on "Force" and "Enable".



Switching over to force mode

The web server is now in force mode, recognisable by the signal red bar above the station view. Forced channels are marked with a red border line.



Display of the station in force mode



If the connection between web server and coupler is interrupted, the force mode is stopped immediately.

7.2 Forcing via the station view

- Click on the channel to be forced.

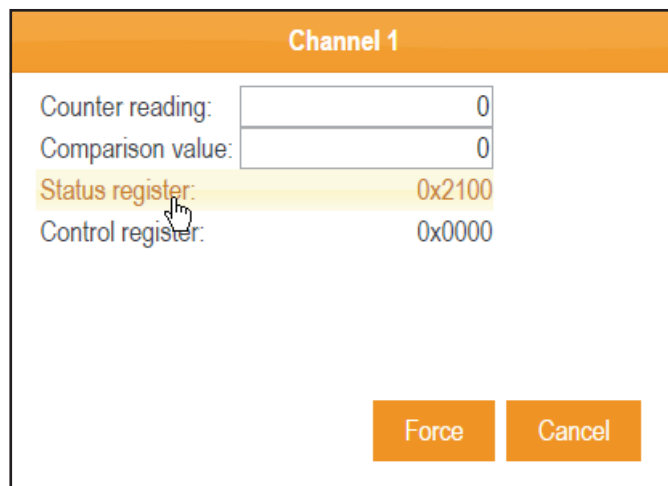
Dependent on the module type there are different options:

- To switch an output, click on the switch and then on "Force".



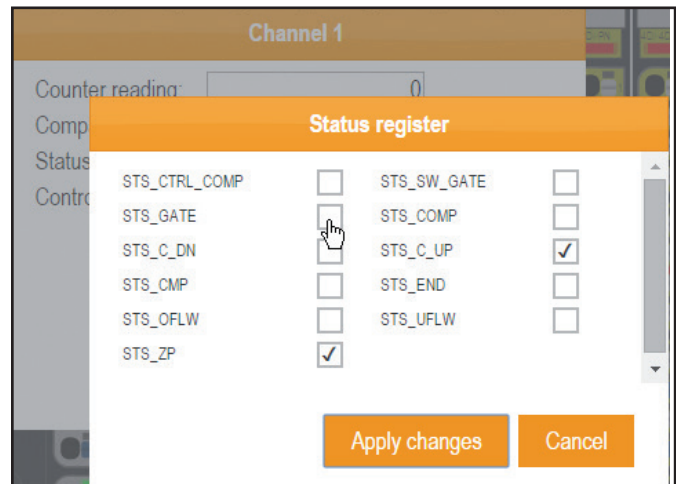
Forcing an output

- To force counter values, type in the force values and click on "Force".



Forcing of modules with registers

- To force status or control registers (e.g. with counter modules or PWM modules), click on the corresponding entry.



Forcing registers

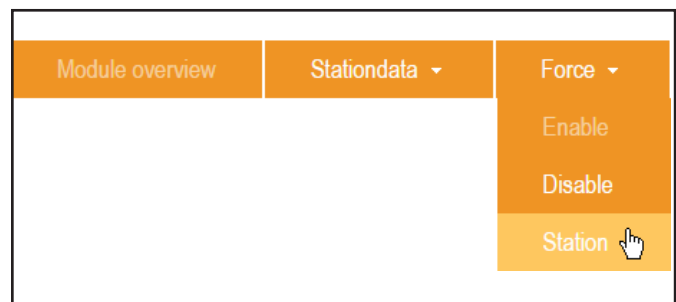
- Set or remove the arrow for each register to be forced and click on "Apply changes".
- Click on "Force".

The changes are transferred to the coupler.

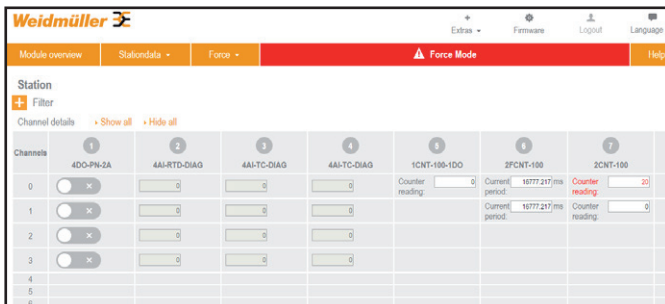
7.3 Forcing via the detail view

For a better survey change to the detail view. In this view modules can be faded out and in, which is helpful, especially when working with larger stations.

- Click on "Force" and "Station".



Switching to detail view in force mode



Detail view of the station in force mode

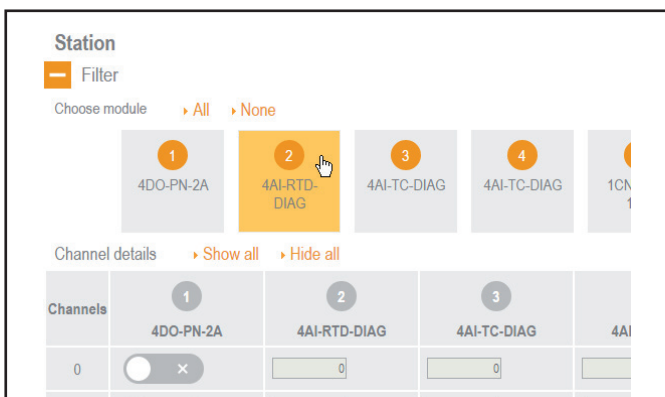
All active modules are displayed in the overview. The switchable channels are provided with a changeover switch.

- To see all channel details, click on "Show all".
- To see only the first value of each channel, click on "Hide all".

Filtering the module view

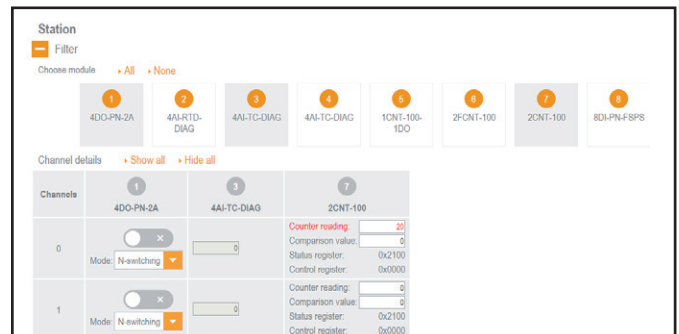
If you only want to see the modules that you would like to force, use the filter function.

- Click on the plus symbol besides "Filter".
- By clicking on a module in the filter bar, the respective module is displayed or removed from the overview beneath.



Filtering the displayed modules

Displayed modules are highlighted grey in the filter bar, while hidden modules are displayed in white.



Display with filter set

Resetting filters

- To display all modules again, click "All".
- To hide all modules, click "None".

Forcing channels

Depending on the module type you can force channels directly either by clicking on the switch or typing in a value.

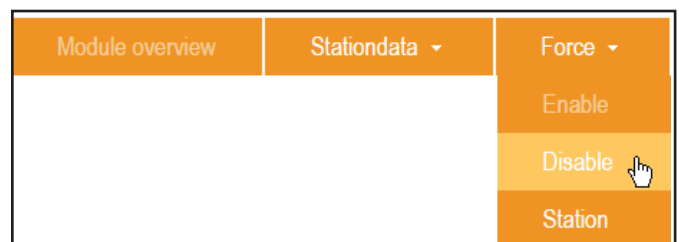
- Enter the desired modifications.

Each change is marked with a green symbol until it will be applied. All changes will only be saved after you click on "Apply changes". All changes will be undone after you click on "Restore".

- After making your modifications click on "Apply changes" to start forcing.
- Changes will be transferred to the coupler, the green markings will be removed.

7.4 Ending/deactivating force mode

- To cancel a forced operation, click on "Force" and "Disable".



Deactivating force mode

The station is reset to the state it had before the force mode has been started.

8 Updating firmware

- Download the latest firmware file for each component you want to update from the [Weidmüller website](#) to your local PC.

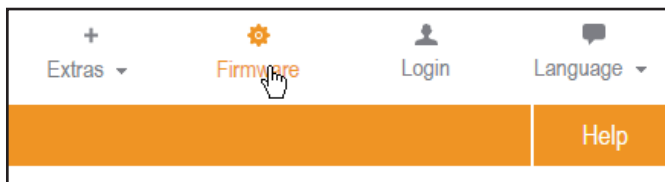
Firmware files for fieldbus couplers have the extension “.bsc”. For PROFINET couplers, for instance, the file might be named FBC-PN-IRT-00XX.bsc. The compatibility is checked during uploading the coupler firmware. Thus it is not possible to load a incompatible coupler firmware.

Firmware files for modules have the extension “.bsm”. You can determine for each module separately whether an update shall be proceed.



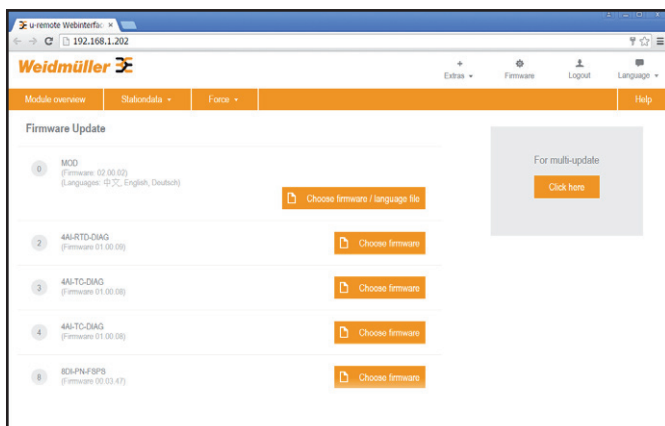
- A firmware update cannot be undone. The old firmware in the coupler/module is overwritten.
- While uploading the firmware files you cannot access to the station via the web server.
- Make sure, that while uploading the firmware files
 - the power supply will not be interrupted,
 - no modifications are carried out on the u-remote station!

- To carry out a firmware update, click on “Firmware” on the menu bar.



Menu firmware update

All components having their own firmware are displayed with a release information.



Updating firmware

Single update

- If you want to update the firmware of a single component (e.g. only the coupler), click on “Select firmware” beside this component.
- Select the firmware file from the storage location on your PC and click on “Open”
- Click on “Update now”.

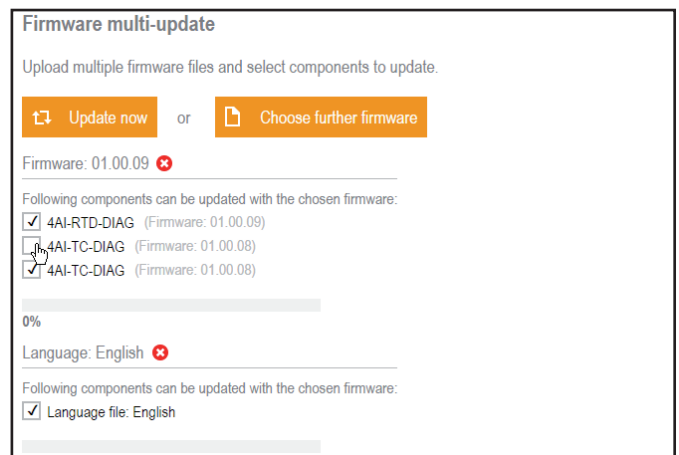
The firmware is updated. Once the data has been transferred, you are asked to restart the coupler.

- Click on “Reset”.
- Wait until the coupler has been restarted and the station view is displayed in the web server.

Multiple update

If you want to update several components, use the multiple update.

- Click on “Multiple update” and then on “Select firmware”.
- Choose subsequently all files you want to update.



Firmware files for multiple update

- You can deselect single components by clicking on the checkmark. These components will not be updated.
- You can delete each single file in the overview by clicking on the red and white cross.
- After selecting all desired files and choosing the components where required click on “Update now”.

The firmware is updated. Once the data has been transferred, you are asked to restart the coupler

- ▶ Click on "Reset".
- ▶ Wait until the coupler has been restarted and the station view is displayed in the web server.



In case the web server does not restart, please act as follows:

- ▶ Clear the temporary browser data (cache).
Deleting the browser protocol is not sufficient.
- ▶ Start the web server again.

9 Help and FAQ

9.1 The web server cannot be loaded

- Are coupler and PC connected via an USB cable in a proper way?
- Is the correct IP address set for the USB port (see section 9.2)
- Clear the temporary browser data (empty cache, deleting the browser protocol is not sufficient) and reload the web server.
- If you call up the web server via HTTP, try calling up the web server via HTTPS.
- Check whether your IT security guidelines allow access via HTTPS if the server certificate has not been signed by a trusted certificate authority.

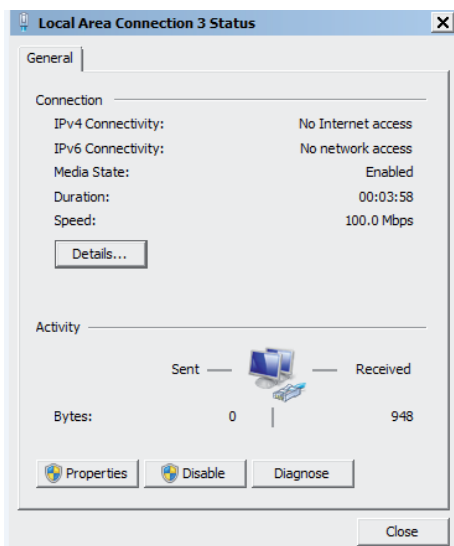
9.2 Review of the IP address of the USB port

The following addresses can be used for the USB port: 192.168.1.202 (default); 192.168.2.202, 192.168.3.202, 192.168.4.202, 192.168.5.202 (default with UR20-FBC-EIP).

You can check the IP address in the “Network and Sharing Center” which is found in the Windows control panel.

- Under “Unidentified network”, click on “LAN connection”.

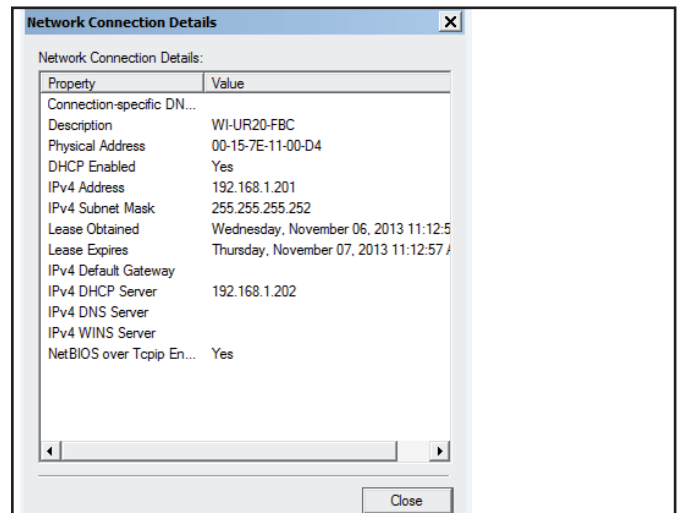
The “LAN connection status” window opens.



LAN connection status

- Click on “Details”.

The “Network connection details” window opens.



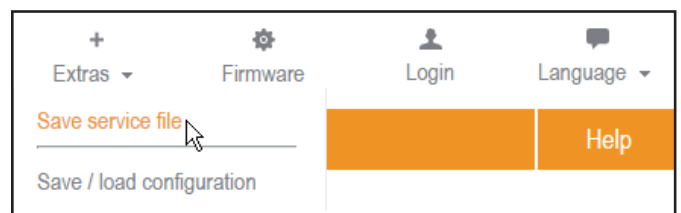
Network connection details

The IP address of the virtual LAN port (USB connection) is displayed under “IPv4 DHCP server”. The standard IP address of the fieldbus coupler is: 192.168.1.202.

9.3 Exporting log data, saving a service file

In the event of problems and service cases, it may be helpful to save the current log data for the u-remote station. This data can provide the service technician with valuable information about the malfunction.

- To save a service file, click on “Save service file” on the menu bar.

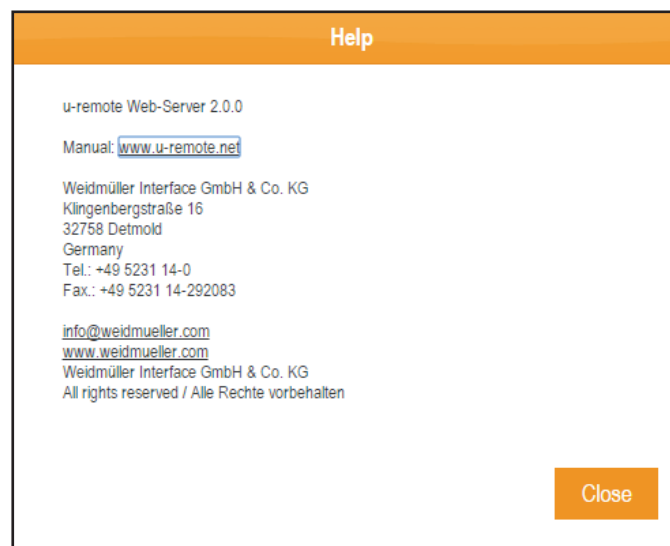


Saving service file

- Select a storage location on your PC for the service file (logdata.wmi) and click on “Save”.
- To close the window, click on “Close”.

9.4 Documentation

- Click on "Help" underneath the menu bar.



Help dialogue box

The program version of the web server is displayed in the help dialogue box.

- To open the manuals for the u-remote station and the webserver, click on the link.

A connection to the Weidmüller website is established in a new window.

Weidmüller – Your Partner in Industrial Connectivity

As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together we set standards in Industrial Connectivity.

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
32758 Detmold, Germany
T +49 5231 14-0
F +49 5231 14-292083
www.weidmueller.de

Personal support can
be found on our website:
www.weidmueller.com/contact

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