

WMS WebControl pro

Manual



Der SonnenLichtManager



General notes

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1 Safety instructions

We have developed and tested the WMS products and this software in compliance with the basic safety requirements.

Residual risks nevertheless remain!

- For this reason, please read this manual before commissioning and operating the controls.
- **It is very important that you adhere to the safety instructions listed in this section and the warning information contained in this manual. Failure to do so will void any warranty claims against the manufacturer.**
- Keep this manual for future use.

1.1 Meanings of symbols and pictograms

The safety instructions contained in these instructions are marked with warning symbols.



CAUTION

Reminder to be **careful**.

Failure to comply may result in **property damage**.



The i symbol designates important **information** and helpful **tips**.

- The **square** denotes an **instruction** or a **prompt for action**. Perform the described step!
- ▶ The **triangle** denotes an **event** or the **result** of a preceding action.
- ▶ The **black triangle** is a **bullet point** for lists or selections.

1.2 Intended use

WMS products make it possible to connect different devices like sun shading products and lighting equipment as well as window drives and sensors.



CAUTION

The WMS WebControl pro is for indoor use only. It is not water-proof.



The operating range of radio remote controls is limited both by legal regulations for radio systems and structural factors. Sufficient radio reception must be ensured when planning the project. This is especially the case where the radio signal has to pass through walls and ceilings. The control should not be installed in the immediate vicinity of metal components (steel beams, reinforced concrete, fire doors).

- Therefore, check that the unit is functioning properly before installing/setting it up permanently. Both the WMS WebControl pro and the WMS components being controlled must have excellent radio reception.

1.3 Target group

These instructions are intended for persons who wish to operate their sun shading products using an app or browser.

1.4 Additional documents

These instructions provide the information necessary to configure the WMS WebControl pro. The following document is available in addition to these instructions:

Document	Art. no.
WMS WebControl pro - Quick Start Guide	2022744

1.5 Scope of delivery

		optional accessories: 
WMS WebControl pro	Plug-in power supply unit with USB cable	
		
Network cable	Quick Start Guide	
		Wall holder Art. No. 2032227

Fig. 1

1.6 Connection

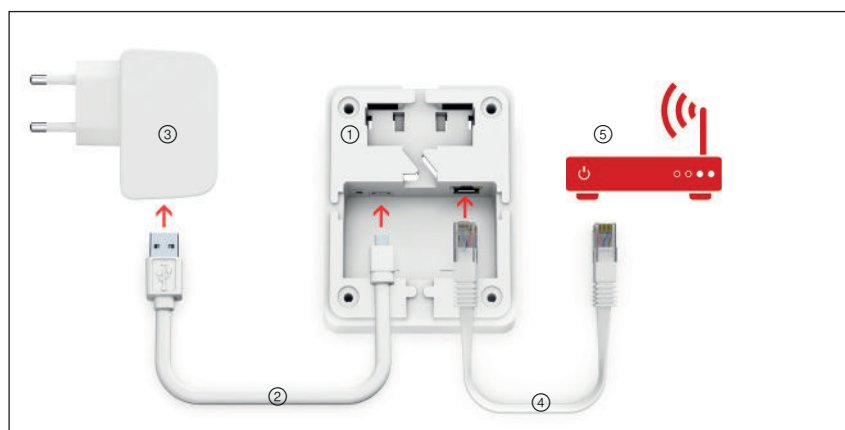


Fig. 2 Supplying the WMS WebControl pro with power and connecting to the network

Pos.	Function
①	WMS WebControl pro
②	USB cable for the power supply
③	Plug-in power supply unit
④	Network cable
⑤	Router

- ▶ Connect the WMS WebControl pro ① to the plug-in power supply unit ③ using the USB cable ②.
- ▶ Connect the device to the network cable ④ on the configured router ⑤.
- ▶ To make the electrical connection, only use the accessories supplied in order to guarantee flawless operation.
- "DHCP" must be enabled on the router in order for the IP address to be assigned automatically.
- Position the WMS WebControl pro so that it has excellent radio reception.

1.7 Recommended operating systems and browsers

Android operating system:

The current version and the two previous versions are compatible.

iOS operating system:

The current version and the two previous versions are compatible.

Browser:

- ▶ Microsoft Edge
- ▶ Firefox
- ▶ Google Chrome
- ▶ Safari for (Mac) OS X



Microsoft Internet Explorer is unable to support the functions of the WMS WebControl pro. Use one of the current browsers listed above.

2 Functions

- ▶ The WMS WebControl pro allows you to conveniently operate WMS products via mobile devices in your own WLAN network and via the WAREMA Cloud when out and about.
- ▶ Separate apps are available free-of-charge for iOS devices, such as iPhone and iPad, and also for Android devices (smartphone, tablet). You can also control WMS products via the browser on your laptop or PC.
- ▶ Use the app/browser to manage multiple WMS WebControl pro devices in the same WLAN with various WMS networks (also suitable for larger office buildings).
- ▶ You can create, change and delete rooms, channels and scenarios, and assign names for these. These project data are stored in the device itself.



You can create 50 rooms with up to 300 channels and scenarios. A maximum of 32 scenarios can be created in total. One WMS WebControl pro can manage up to 200 devices.

- ▶ You can use a browser to create a backup copy of the project or run a firmware update. Optionally, the WMS WebControl pro can also run updates automatically at preset times.
- ▶ An Amazon Alexa skill is available for the WMS WebControl pro.

2.1 System clock

The WMS WebControl pro can be used as a system clock. When this function is activated, the WMS WebControl pro sends the time to the network at regular intervals. All network components that perform time-controlled functions or have their own clock function use the time set in the WMS WebControl pro.

The WMS WebControl pro is able to switch between summertime and wintertime automatically if desired.

This function must be parameterised for the WMS WebControl pro when the project is created in WMS studio pro.

When the radio network is formed later on, the current PC time is automatically transferred to the corresponding WMS WebControl pro.



In a WMS network, this function can only be activated for one device at a time. Otherwise, the different times can cause the system to malfunction.

2.2 Astro function

The WMS WebControl pro is able to control receivers depending on sunrise and sunset. The astronomical data (location and calendar day, parameterisation via WMS studio pro) is required for the calculation.

The move command, e.g. DOWN, is based on the date, time and summertime/wintertime. A time difference of up to 30 minutes before or after can be parameterised for the calculated times.

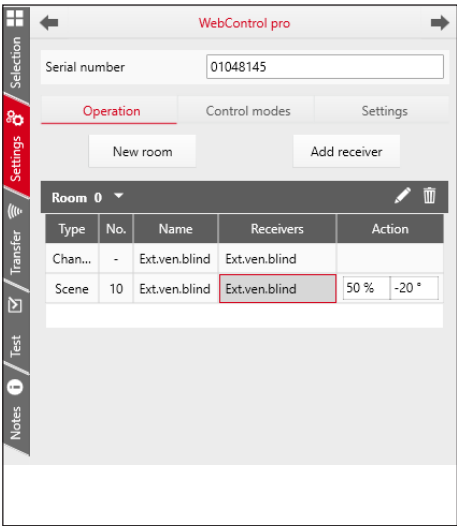


The time difference between the move commands and the actual sunrise or sunset can be adapted at any time via the apps.

3 Commissioning via WMS studio pro

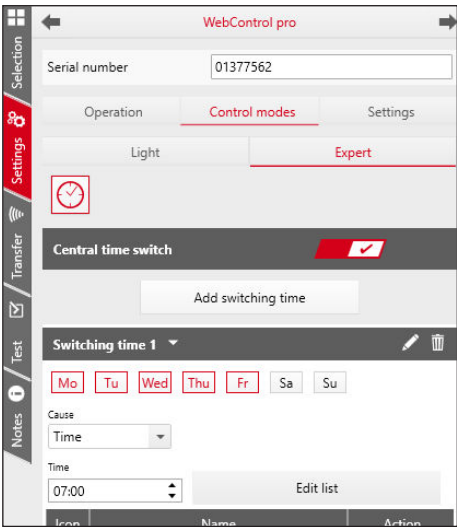
The WMS WebControl pro is configured via WMS studio pro in the project itself. A WMS Stick is required for this. When the data are transferred to the devices later on, the entire configuration is transferred.

3.1 Parameterising operation



The interface structure of the operation side is parameterised here. The maximum number of rooms (logical groups) is 50. The receivers are assigned to these rooms. Receivers can be created individually or together in channels. Scenarios, to which any receivers can be assigned, can be created in addition to the channels. When a scenario is called up, the actions parameterised here are executed.

3.2 Parameterising control modes



The control functions are parameterised in the receivers themselves. The receivers perform these functions independently. The control functions can only be switched on and off via the WMS WebControl pro. The WMS WebControl pro has its own time switch, and this can be activated in the Settings tab (see Chapter 3.3).

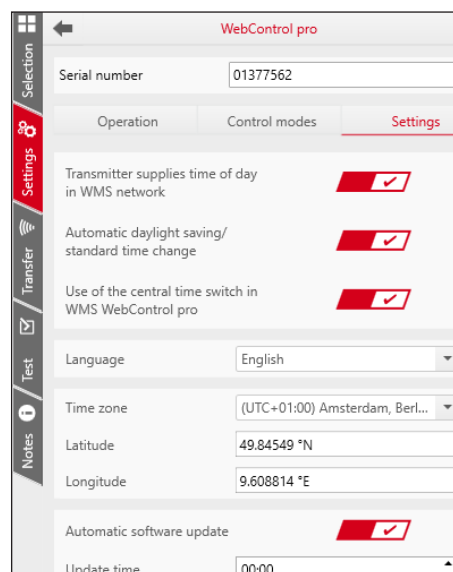
The time switch in the WMS WebControl pro is also called a "central time switch". The switching times specified here are relayed to the receivers as move commands.

For additional information, see also *Chapter 8.3.5 auf Seite 28*.



If you decide to use the central time switch, the time switch commands parameterised in the receivers will be deactivated.
The control timer for activating and deactivating control functions is still managed decentrally in the receivers.

3.3 Parameterising settings



The screenshot shows the 'WebControl pro' settings interface. On the left is a vertical navigation menu with icons for Selection, Settings (active), Transfer, Test, and Notes. The main content area has tabs for 'Operation', 'Control modes', and 'Settings' (selected). Under the 'Settings' tab, there are several configuration options: 'Transmitter supplies time of day in WMS network' (checked), 'Automatic daylight saving/standard time change' (checked), 'Use of the central time switch in WMS WebControl pro' (checked), 'Language' (set to English), 'Time zone' (set to (UTC+01:00) Amsterdam, Berl...), 'Latitude' (49.84549 °N), 'Longitude' (9.608814 °E), 'Automatic software update' (checked), and 'Update time' (00:00).

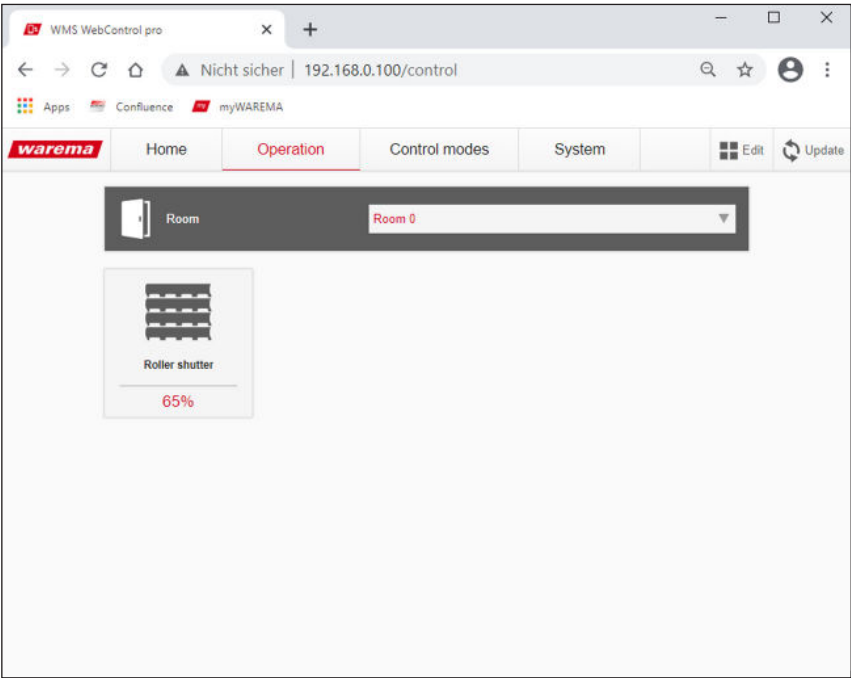
The basic settings for the WMS WebControl pro are made here.

- ▶ Using the WMS WebControl as a system clock
- ▶ Use of the central time switch
- ▶ Geographical data on the location
(this is required if the WMS WebControl is to execute actions depending on sunrise and sunset)

4 Calling up in the browser

The WMS network is ready for operation once all the components in the WMS network have been connected via WMS studio pro and are supplied with power.

- Call up WMS WebControl pro from a PC in the same WLAN from the browser: enter "http://webcontrol" into your browser address bar.
- The WMS WebControl pro interface appears.



If the interface does not appear, the router has not recognised the web address of the WMS WebControl pro. Read the IP address (e.g. 192.168.0.100) of the WMS WebControl pro from the client table for your router (router handbook). Enter this number into your browser address bar.

5 Installing the WMS WebControl pro app

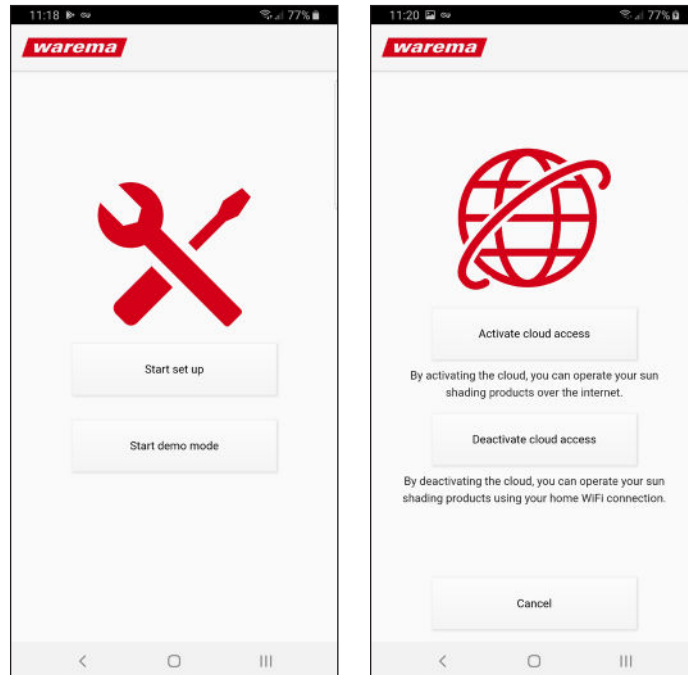
Separate apps are available free-of-charge for both iOS and Android devices.

- In the App Store/Google Play Store, download the **WMS WebControl pro app** onto the devices via which you want to access the WMS WebControl pro.

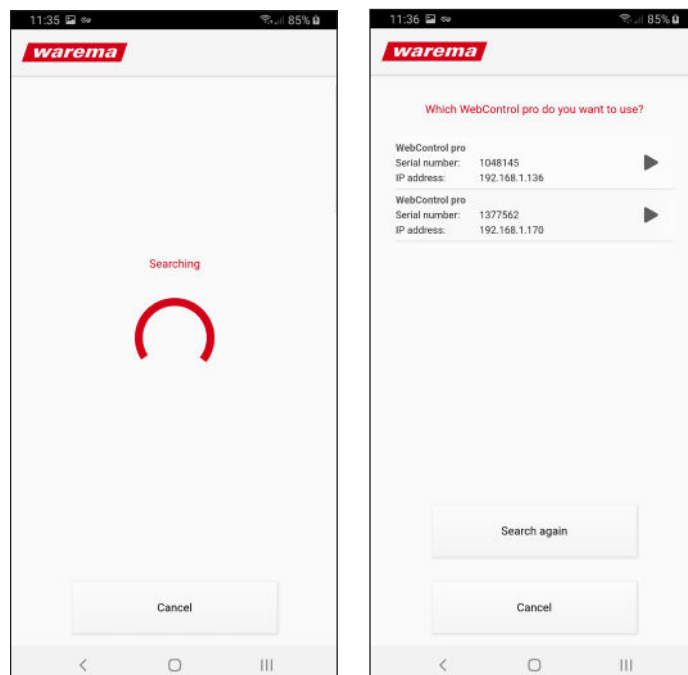


6 Operating on home WLAN

- Start the WMS WebControl pro app on the device.
- Start set up.



- Deactivate cloud access if you only want to operate on your home WLAN.



- All WMS WebControl pro devices found will be displayed.
- Select the WMS WebControl pro you want and add it.
- The WMS WebControl pro will be displayed on the configuration page in the table. If multiple devices are displayed, select the line containing the one you want.

- The start screen is displayed.

The WMS WebControl pro can now be operated on home WLAN.

7 Operating via the WAREMA Cloud

The WMS products in the WMS network of the WMS WebControl pro can also be operated outside of the connected WLAN network via the WAREMA Cloud.

Requirements:

- 5.1 A WAREMA plus Account
- 5.2 A mobile device (iOS or Android), on which the **WMS WebControl pro** WAREMA App is installed
 - The WMS WebControl pro is located in a WLAN with an Internet connection
- 5.3 Online activation is enabled in the WMS WebControl pro

7.1 Setting up the WAREMA plus account

A WAREMA plus account is required to use the WAREMA Cloud.

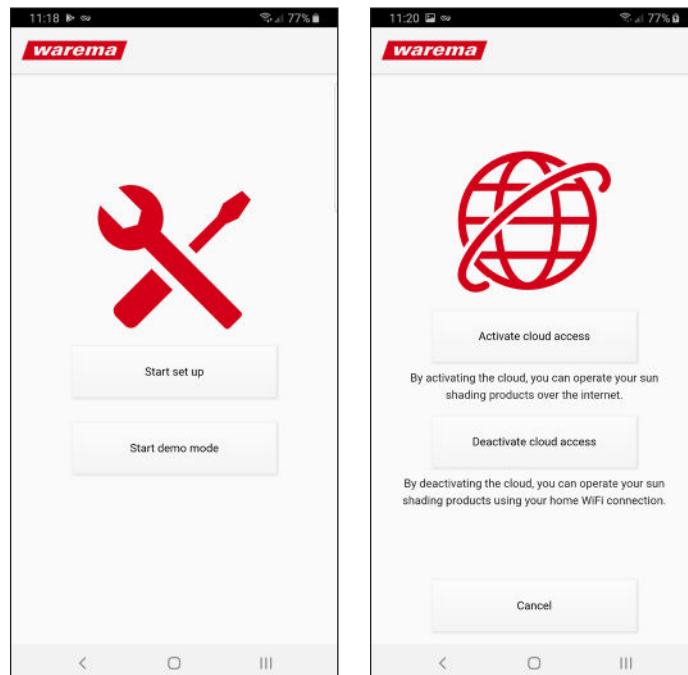
- Register on plus.warema.com and create an account.

- Select Registration method and follow the instructions. Confirm the verification when prompted.

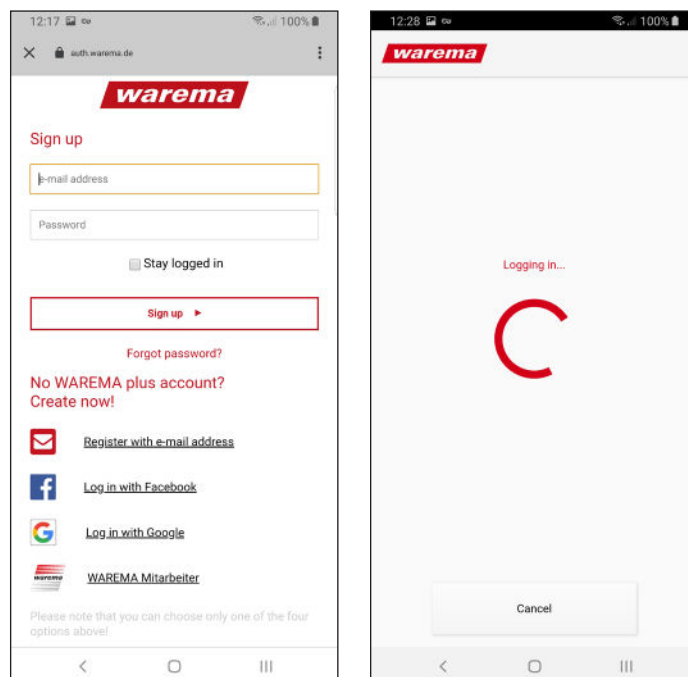
7.2 Logging the device into the WAREMA Cloud

To be able to use a mobile device to access the WMS WebControl pro, it has to be logged into the WAREMA Cloud.

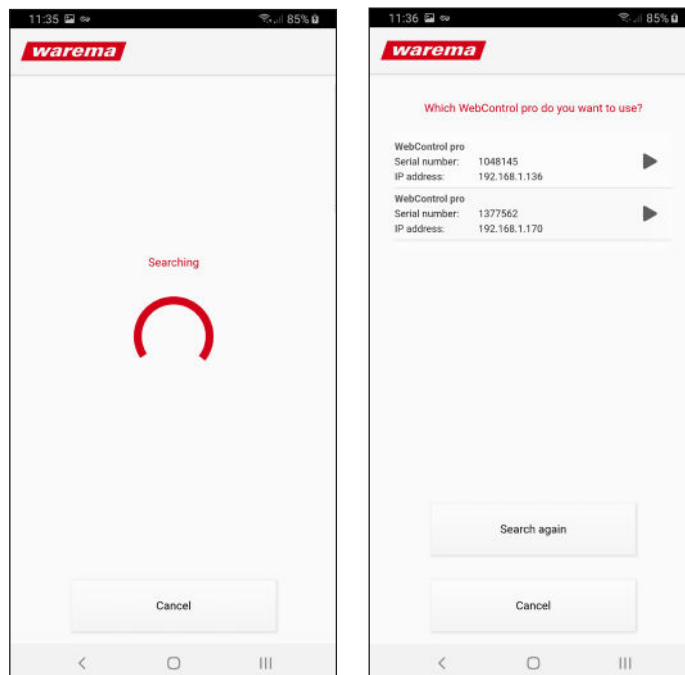
- Start the WMS WebControl pro app on the device.
- Start set up.



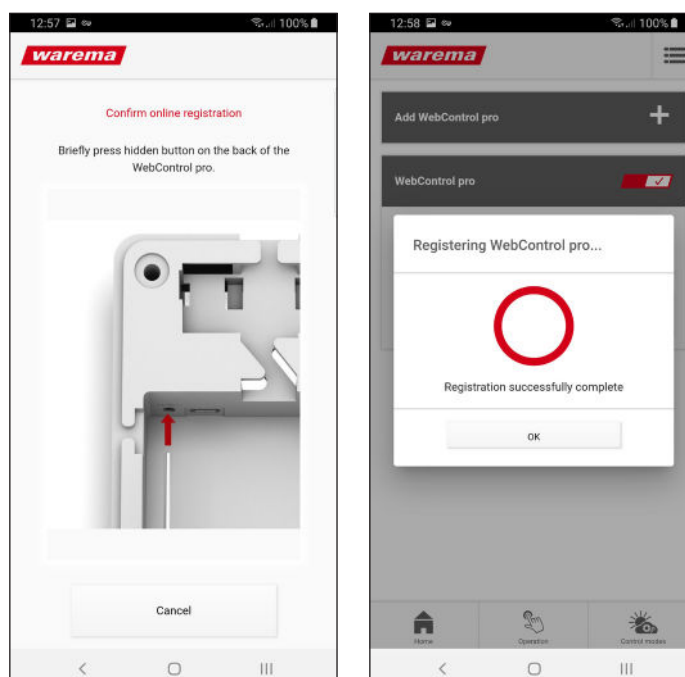
- Activate cloud access if you want to operate outside of your home WLAN.



- The login screen for the WAREMA plus account will appear.
- Enter the access data into the input screen and log in.



- ▶ All WMS WebControl pro devices found will be displayed.
- Select the WMS WebControl pro you want and add it.
- ▶ The WMS WebControl pro will be displayed on the configuration page in the table. If multiple devices are displayed, select the line containing the one you want.
- When prompted, briefly press the red reset button on the bottom of the WMS WebControl pro to confirm.

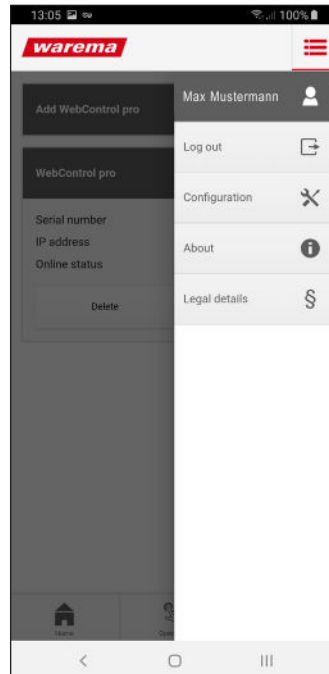


- ▶ The message that the registration has been successfully completed appears and the start screen is displayed.

The WMS WebControl pro can now be operated via the WAREMA Cloud.

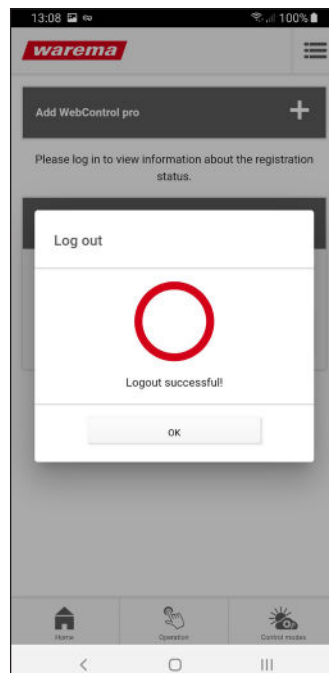
7.3 Settings

In this menu, the cloud functions of the apps are set and additional information on the app is displayed.



7.3.1 Logging out

- Select the menu item log out :



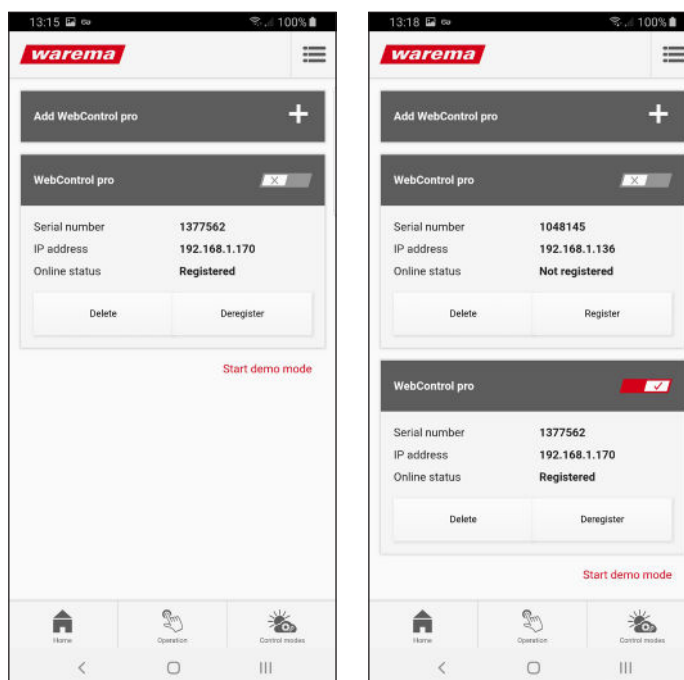
- Operation is now only possible via the home WLAN, no longer via the cloud.

7.3.2 Configuration

With the menu item Configuration you can add, deregister or delete devices.

Adding WMS WebControl pro

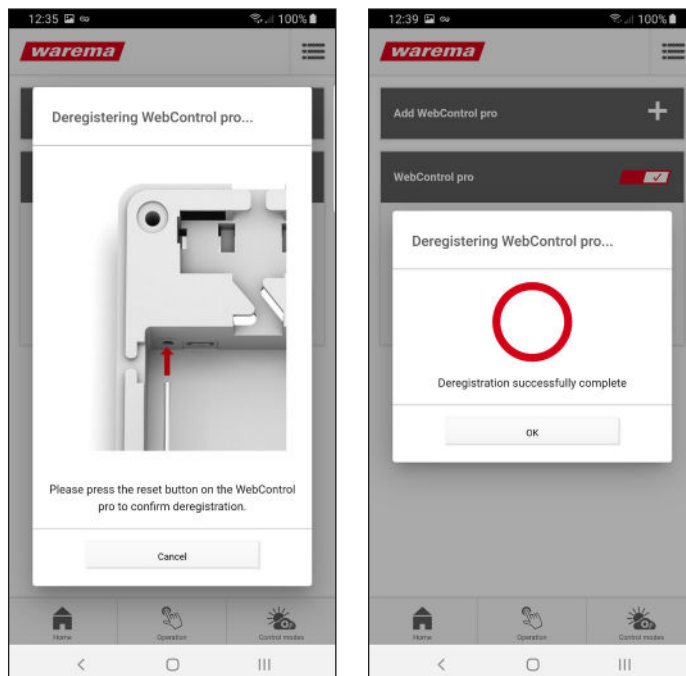
- Use the  symbol to add another WMS WebControl pro.



- Both devices are displayed.

Deregistering WMS WebControl pro

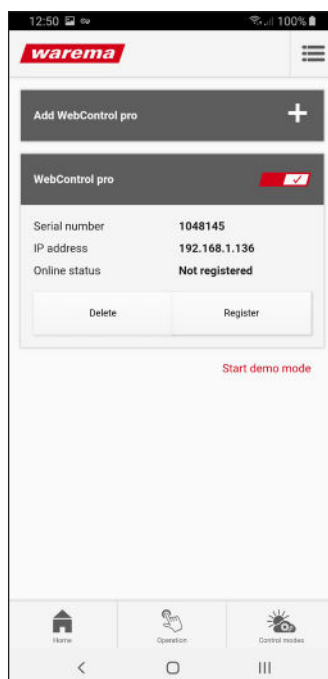
- Select Deregister if you want to disconnect the cloud and your mobile device.
- Press the reset button and confirm the deregistration.



- Operation via the cloud is now no longer possible.

Deleting WMS WebControl pro

- Select Delete to completely delete a WMS WebControl pro.



- Operation of the device then is no longer possible.

8 Operating via the app

The web app, Android app and iOS app have an identical user interface. Operation is always the same regardless of the platform. This concerns the **Home**, **Operation** and **Control mode** tabs.

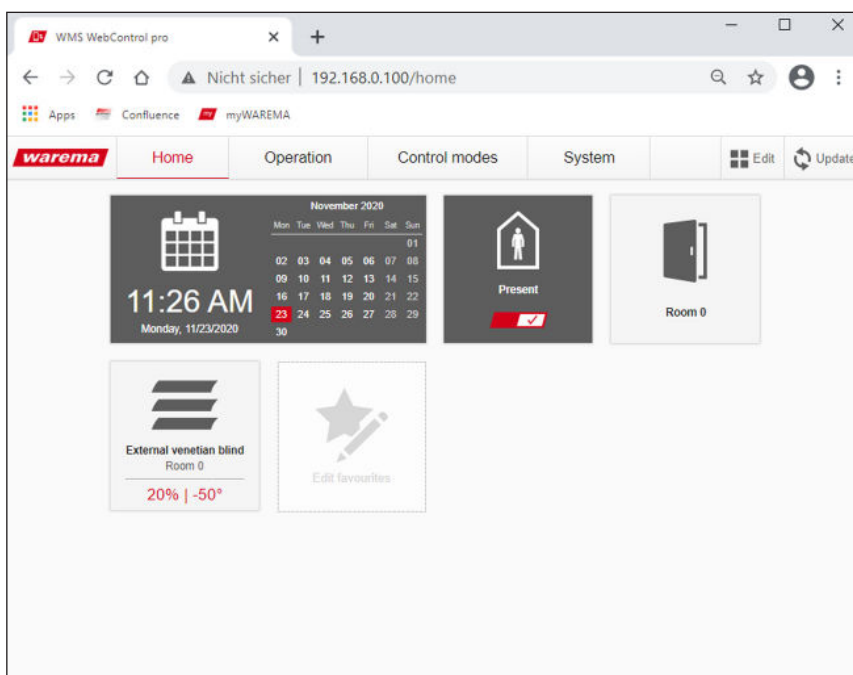
The web app is only intended for use in the WLAN. It also has the **System** tab, where all system-relevant settings of the WMS WebControl pro are made (see *Chapter 8.4 auf Seite 33*).

The WMS WebControl pro apps for Android and iOS can be used in the WLAN and via the WAREMA Cloud when out and about. They also have the **Settings** menu  for setting the Cloud functions or for requesting additional information on the app (see *Chapter 8.5 auf Seite 37*).

8.1 Home

The Home screen contains a tile for displaying the system time and the date. The status can be set via a further tile.

On the Home screen, up to 20 frequently used receivers, scenarios or rooms can be created as favourites for quick access (see *Section 8.1.2 auf Seite 21*).



8.1.1 Status

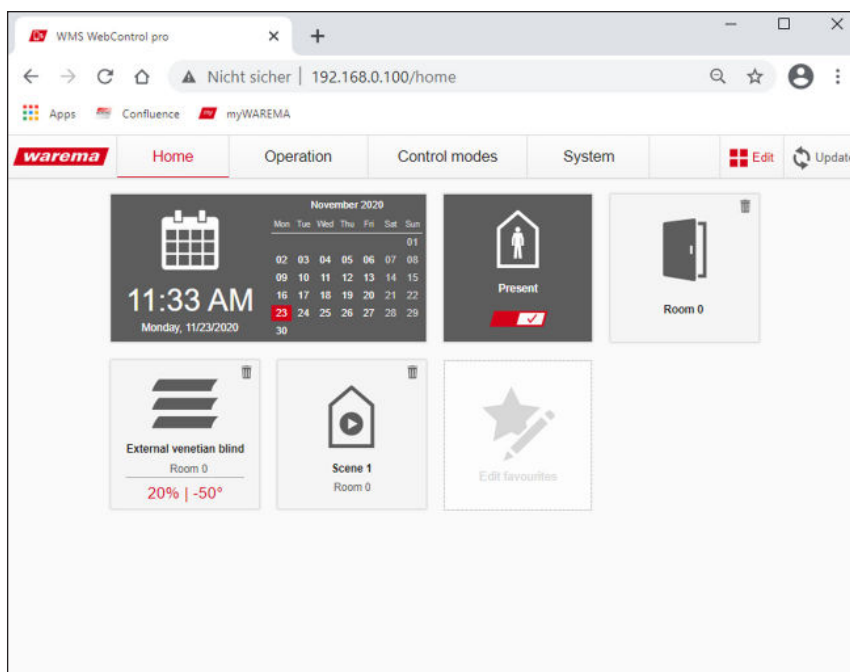


The status (absent/present) is displayed globally here for the WMS network. The status can be changed over by clicking on the switch.

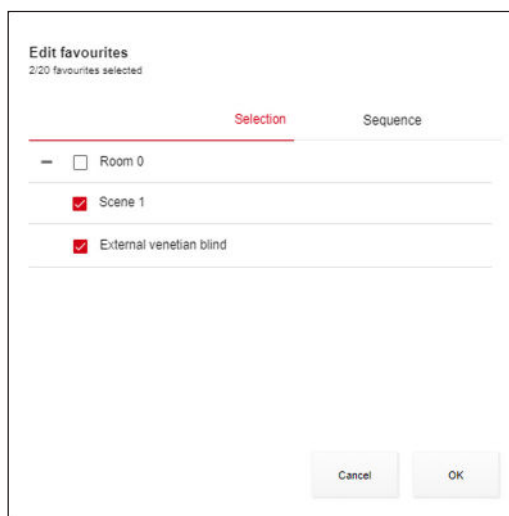
8.1.2 Favourites

The favourites, up to 20, for quick access can be added, deleted or rearranged at any time.

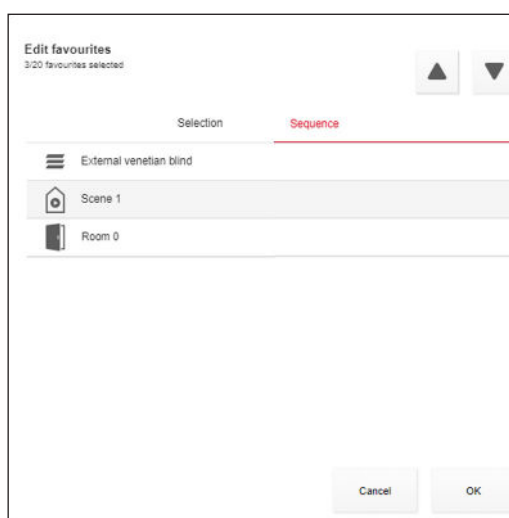
To edit the favourites, click on the tile icon .



- Click on the recycle bin symbol to delete the respective tile.
- Click on the **Edit favourites** tile to open the Edit window.



The **Selection** tab shows a structure tree with all created rooms, scenarios and receivers.
Click on the items to add them to or remove them from Favourites.
Clicking on + or - expands or collapses the structure.



Click on **Sequence** to open the favourites display sequence.
To change the sequence, select an entry and move using the arrow keys.

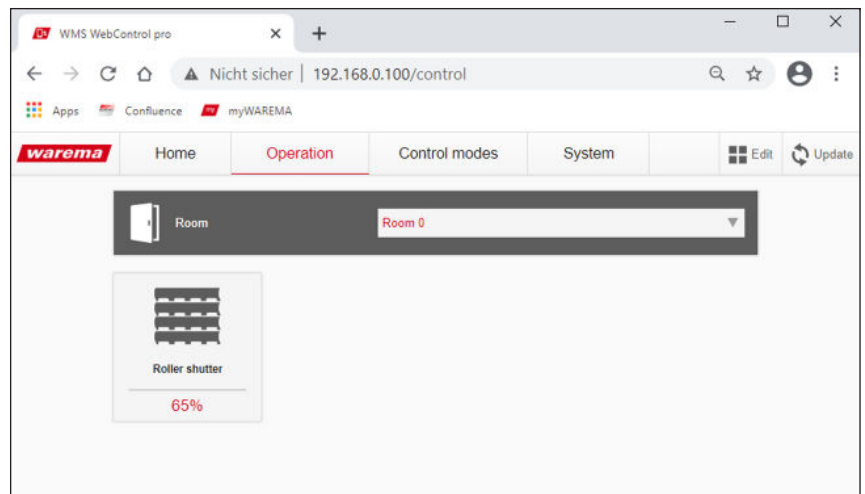
8.2 Operation

The user interface is identical for all apps:

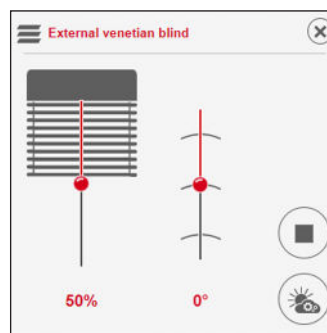
- ▶ The rooms are at the higher level.
- ▶ Each room is assigned channels and scenarios (shown as tiles below the room concerned).
- ▶ Each channel can contain one or more receivers. Receivers can also be assigned multiple channels.

8.2.1 Operating the products

- Select a room from the Operation tab.



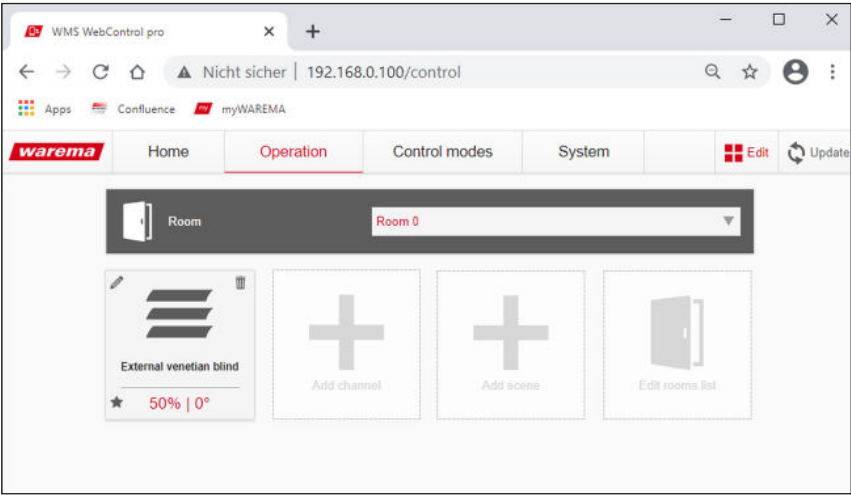
- ▶ All channels and scenarios are shown as tiles. Where available, the tiles show the states of the receivers in the channel.
- Click on a tile to expand.



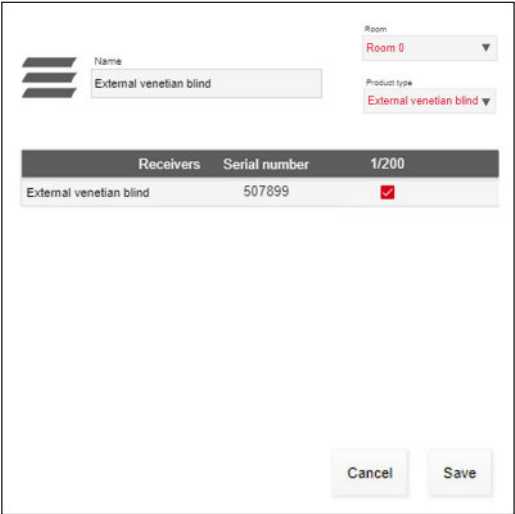
- ▶ The first receiver found in the channel is displayed with its operating elements and current position. There is also a stop button and a button for selecting the control modes for the channel.
- Operate product/activate scenario.

8.2.2 Editing the user interface

The user interface can be extensively adapted.
Do this by clicking on the Edit icon .

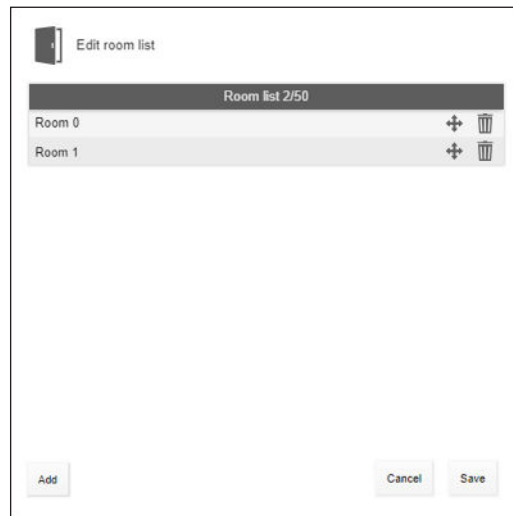


- An existing channel can be edited by clicking on the pen symbol.
As well as the channel name, the room assignment and the product type can be adapted. The channel's receivers can be selected or deselected in the list.



- A new channel or scenario can be created by clicking on the corresponding tile. A dialogue window also opens.

- Clicking on the **Edit room list** tile opens the room list.



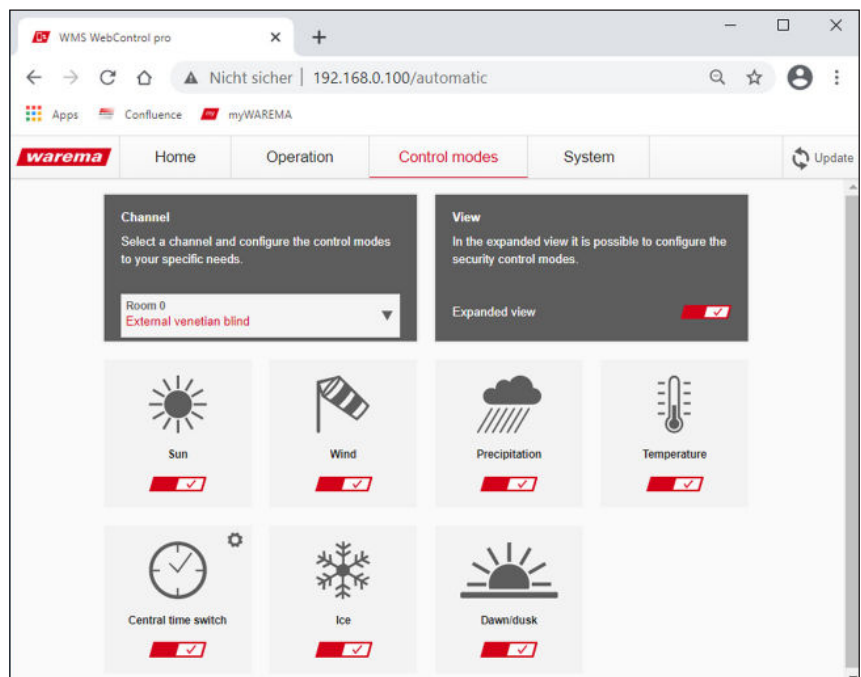
The rooms already created can be resorted via Drag&Drop on the arrow cross.

New rooms can be created and existing ones deleted.

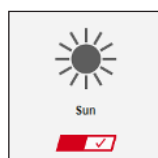
8.3 Control modes

In the control mode tab, the control functions can be enabled or disabled for each receiver individually. The switching times can also be edited, added or removed for the time switch.

The **View** tile allows the safety control functions (wind, precipitation, ice) to be displayed. You should only make changes here if you understand how the control mode works and are familiar with the effects on the safety of the products in the channel concerned.



8.3.1 Sun



The sun control prevents rooms from overheating during the summer and allows glare-free working without manual intervention.

This function requires a WMS Weather station or a WMS Photo sensor.

8.3.2 Wind



The wind monitoring function protects the external sun shading system and windows from being damaged by high wind loads.

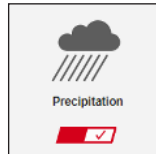
This safety function is highly recommended for all external sun shading products and windows.

It requires a WMS Weather station eco or a WMS Weather station plus.



During an active wind alarm, manual operation is disabled.

8.3.3 Precipitation

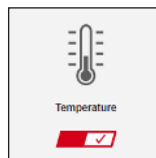


The precipitation monitoring function closes or retracts the external textile sun shading system and windows in case of precipitation.

Unlike the other safety functions, precipitation monitoring function can be overridden by the user on request.

A WMS Weather station plus is required for this function.

8.3.4 Temperature



The temperature control can be used to activate sun shading systems and window drives based on the measured temperature.

This function requires a WMS temperature sensor.

8.3.5 Time switch



Each receiver has its own independent time switch ("**decentral time switch**"), and this can be parameterised using the WMS studio pro.

The WMS WebControl pro has its own "**central time switch**", which relays move commands to the receiver. As numerous receivers can be assigned to one switching time, there is no tedious parameterising of each individual receiver if changes occur.



When a WMS WebControl pro is created in WMS studio pro, you need to specify whether the central or the decentral time switches are to be used in the individual receivers.



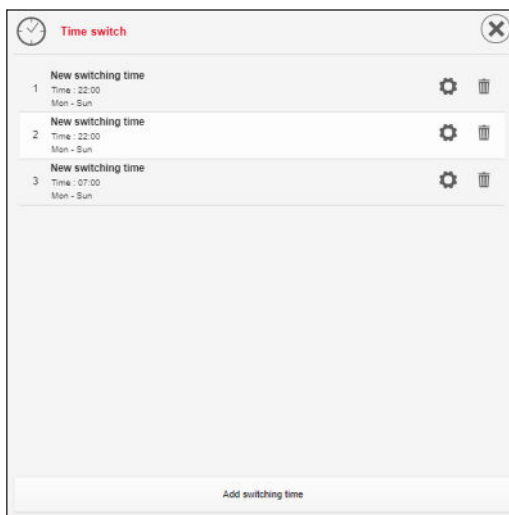
If you decide to use the central time switch, the time switch commands parameterised in the receivers will be deactivated. The control timer for activating and deactivating control functions is still managed decentrally in the receivers.

8.3.6 Decentral time switch



Each receiver has its own independent time switch ("decentral time switch"), and this can be parameterised via WMS studio pro.

To parameterise the switching times, a receiver has to be selected first. The switching times for this receiver can then be edited or deleted altogether by clicking on the gear wheel symbol.



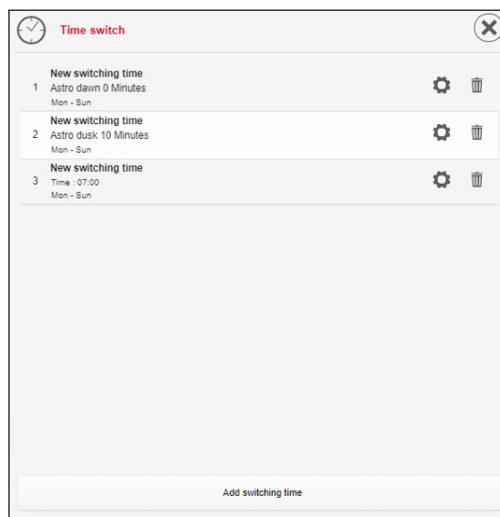
The switching times are set by following the procedure for the central time switch described in the section below.

8.3.7 Central time switch

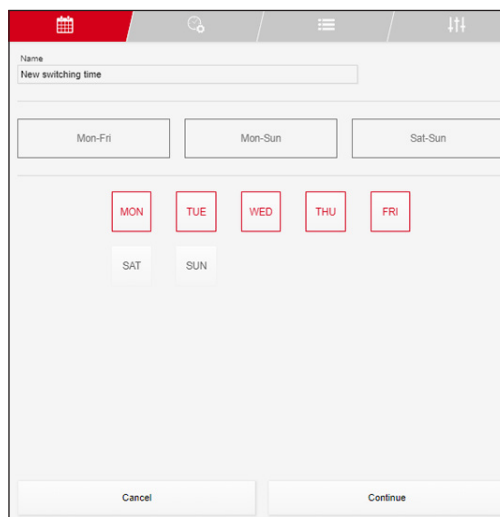


The WMS WebControl pro has its own higher-order time switch ("central time switch"). The switching times parameterised here are relayed to the receiver as move commands.

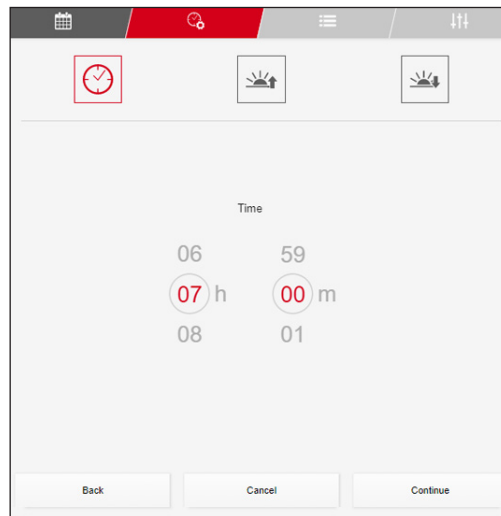
The switching times can be edited or deleted altogether by clicking on the gear wheel symbol.



- Click on Add switching time to parameterise a new switching time.

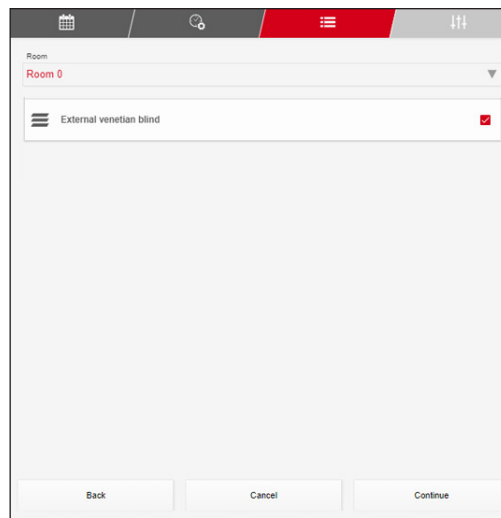


- Enter a name for the switching time and select weekdays you want.



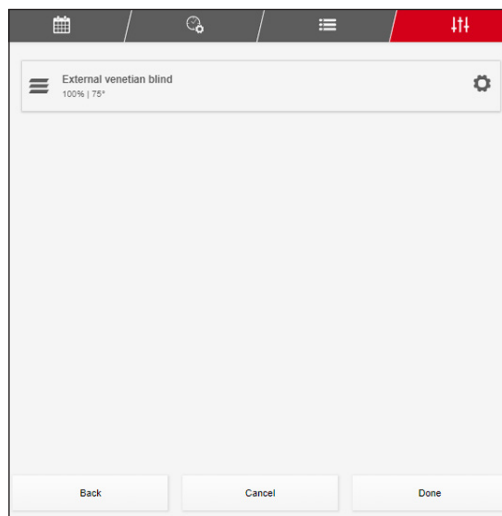
- Set a time value for the switching time.

Alternatively, select sunrise or sunset by clicking on the relevant symbol. The WMS WebControl pro calculates these values automatically, a deviation of ± 30 minutes can be set.

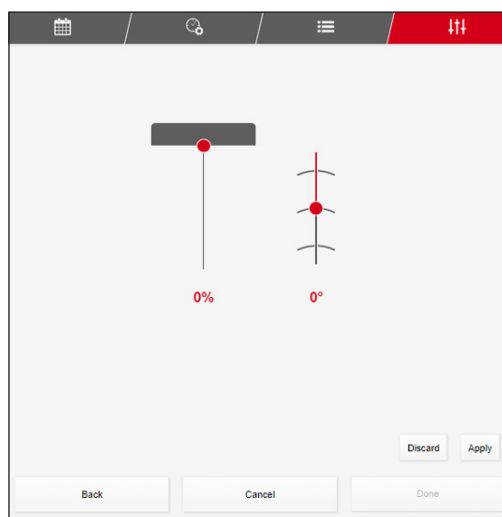


- Select the channels on which the switching time is to take effect.

Control modes - Time switch

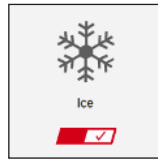


- Set the position you want for each of the channels (click on the gear wheel).



- Click on **Finish** to complete the process.

8.3.8 Ice



The ice monitoring safety function can be used to protect the external sun shading systems from damage due to ice formation, e.g. on the guide rails. If precipitation is detected when outside temperatures are cold, the unit is moved to the safety position and locked there. Once the user has checked that the units are free from ice, the ice alarm can be ended manually.

A WMS Weather station plus is required for this function.



When the ice alarm is active, manual operation is disabled.

8.3.9 Dawn/dusk

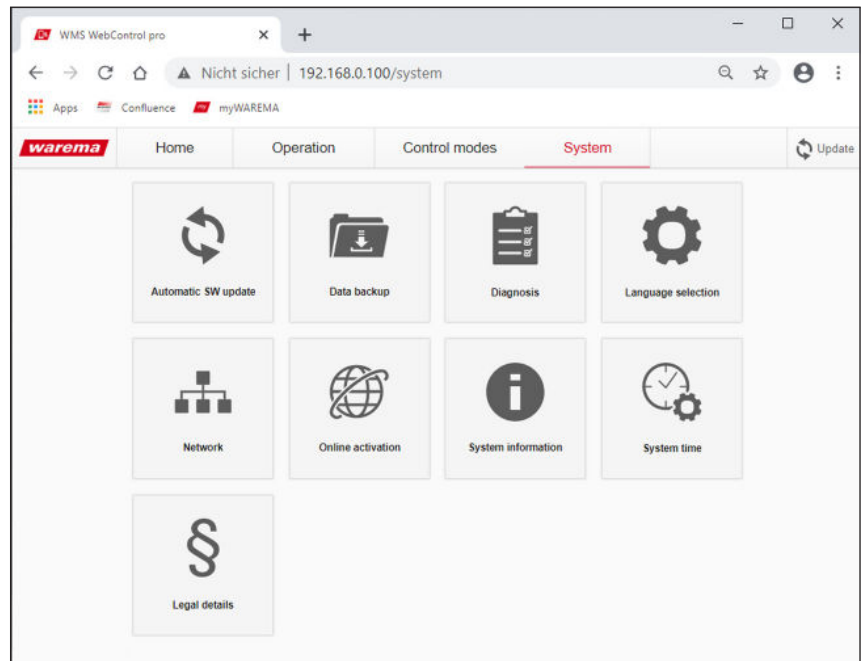


The dawn/dusk control function can be used to automate the sun shading or visual privacy system depending on the measured brightness value (dawn/dusk value).

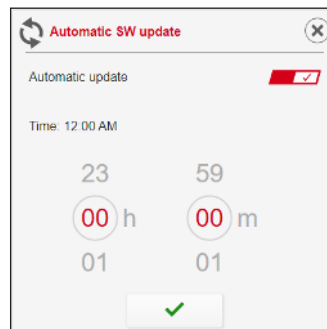
This function requires a WMS Weather station or a WMS Photo sensor.

8.4 System

This menu is available only in the web app. All system-relevant settings of the WMS WebControl pro are made here.



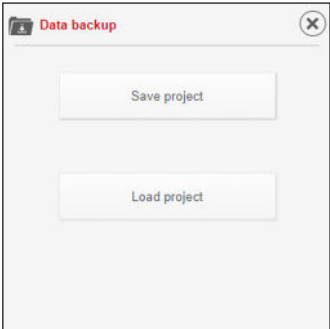
8.4.1 Automatic SW update



The automatic software update can be activated or deactivated. The time of the update can be changed as required.

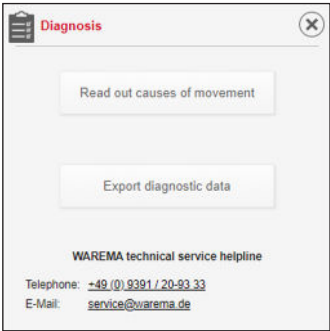
The WLAN must have an Internet connection for the automatic software update.

8.4.2 Data backup

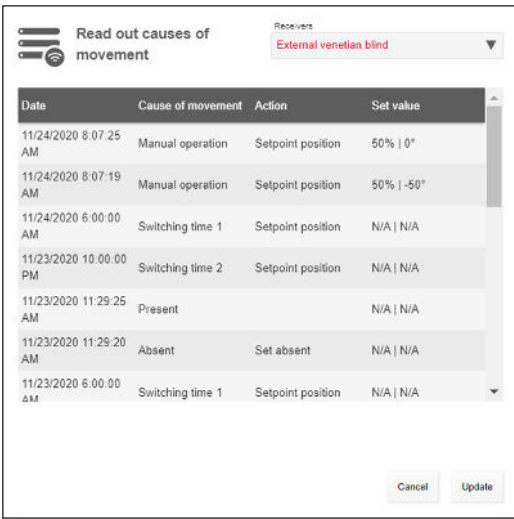


The entire project in the WMS WebControl pro can be backed up as a file. A file is saved in the "Downloads" folder. This file can be used to load the backed up project status into this or a different WMS WebControl pro at any time.

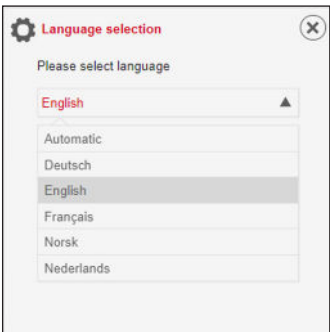
8.4.3 Diagnosis



In case of a fault, the reasons for the movement of the receivers can be read or a debug command for WAREMA Service output via this tile.



8.4.4 Language selection



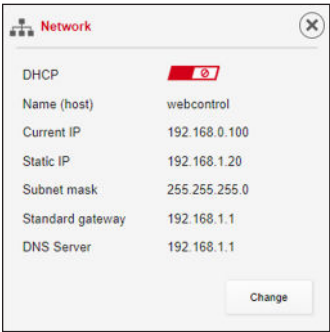
The WMS WebControl pro user interface supports the following languages:

- ▶ German
- ▶ English
- ▶ French
- ▶ Dutch
- ▶ Norwegian



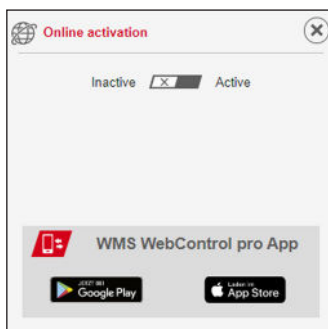
With **Automatic** the language of the browser being used is selected. If this is not one of the languages named above, then English is used.

8.4.5 Network



The network parameters set in the WMS WebControl pro are displayed and can be changed as required.

8.4.6 Online activation

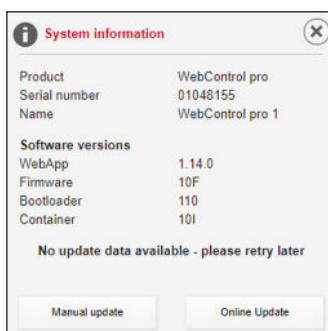


The accessibility of the WMS WebControl pro via the WAREMA Cloud can be activated and deactivated here.



When the Online connection function is enabled, operation using mobile devices is always via the WAREMA Cloud. During operation, brief delays may occur until the relevant command reaches the receiver.

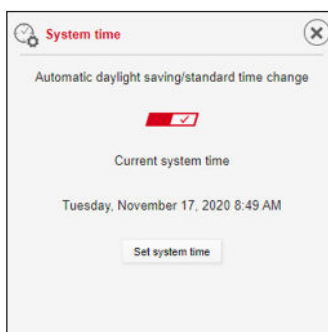
8.4.7 System information



Display of system information for the WMS WebControl pro. A software update can be activated via the two buttons.

- ▶ Manual update: to import an update file
- ▶ Online update: Update via the WAREMA server

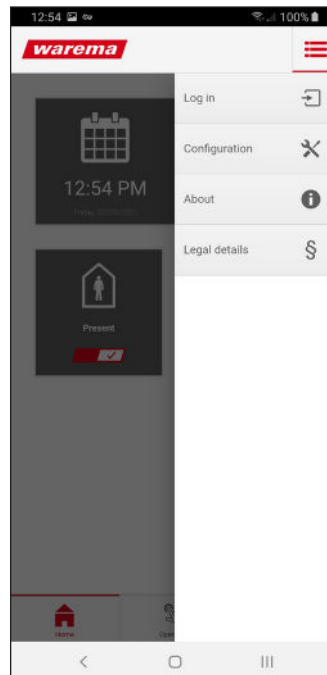
8.4.8 System time



Display of the system time in the WMS WebControl pro. The system time can be reset if required. The automatic summertime/wintertime function can likewise be activated or deactivated.

8.5 Settings

This menu is available only in the WMS WebControl pro apps for Android and iOS. The Cloud functions of the apps are set and additional information on the app is displayed here.



For a description of the Cloud registration procedure, see *Chapter 7 auf Seite 14*

9 Troubleshooting

9.1 LED display on the WMS WebControl pro

LED status	
 lights up green	The WMS WebControl pro has received an IP address and is ready for use.
 flashes green	The WMS WebControl pro has a network connection to the router but still no programming and waits for max. 1 min. for the IP address (e.g. after restart).
 lights up red	The WMS WebControl pro has received a static default IP address.
 flashes red	The WMS WebControl pro must be updated with the WMS studio pro via USB.
 lights up orange	.. (3 s) The WMS WebControl pro has been identified.
 flashes orange	..3 times: the WMS WebControl pro will be returned to the factory setting.
flashes  red /  green	..alternately: the WMS WebControl pro is running a software update.

9.2 Restarting WMS WebControl pro

- Briefly press the reset button on the underside of the WMS WebControl pro with a pointed object (e.g. ballpoint pen).
- ▶ LED flashes green. The WMS WebControl pro restarts. All settings are retained.
- ▶ When the LED once more lights up permanently, the WMS WebControl pro is ready for operation.

9.3 Resetting WMS WebControl pro to factory settings

- Press the reset button on the underside of the WMS WebControl pro with a pointed object (e.g. ballpoint pen) for longer than 10 s.
- ▶ LED flashes orange three times. The WMS WebControl pro is returned to the factory setting. All settings are deleted.

9.4 Fault causes

Problem	Possible cause	Remedy
The WMS WebControl pro is no longer recognised by the browser.	There is a power failure and DHCP is set to "ON", meaning a new IP address was automatically assigned in the router. The WMS WebControl pro can no longer be reached at the old address.	Enter the new IP address.
The WMS WebControl pro is not found by the mobile device being used and the status LED on the WMS WebControl pro flashes red.	DHCP is set to "OFF", i.e. there is no automatic assignment of the IP address in the router.	Check the network connection. Check under the "System - Network" tab whether DHCP is set to ON or OFF. Set DHCP to ON if necessary.
		If you are operating the system using the app, the IP address will be displayed on the "System - Network" tab. You can then enter this number in the menu line of the browser (e.g.: http://192.168.1.1). TIP: Save this address in the browser as a bookmark.
LED does not light up.	The power supply of the WMS WebControl pro has been interrupted.	Check the power supply on the power supply unit and check the connection between the power supply unit and the WMS WebControl pro.
Green LED flashes.	There is a problem with the connection between the RJ45 socket and the router connection (e.g. line problem, the connector is not properly plugged in).	Check the power supply on the router and check the connection between the router and the RJ45 socket.
Red LED flashes.	The WMS WebControl pro must be updated with the WMS studio pro via USB.	Connect the WMS WebControl pro via USB to a PC and carry out the update in WMS studio pro.
You are not able to add an additional room; a plus does not appear next to "Room".	The capacity is full; you have already created 50 rooms.	Delete unnecessary rooms to make space for new rooms.
For the switching times, a question mark appears for Monday, for example.	The value set at this position is not identical for the selected days. (e.g. you selected Monday to Friday. You entered the position value 50 % for Wednesday and 30 % for the other days).	This is not an error. The program is showing you that you have defined different values.
The WMS WebControl pro cannot be found via the app.	The mobile device (smartphone, etc.) is not located in the WLAN network of your router.	Before opening the app, check whether your router is switched on and the WLAN is active. If not, log into the WLAN network.
You are in your WMS WebControl pro app. The error message "No connection to WebControl!" appears.	► The WLAN connection between the app and the WMS WebControl pro is not stable. ► The range of the WLAN network was enlarged with several routers and the device (WMS WebControl pro) is alternating between the routers.	Create a stable WLAN connection.
The WMS WebControl pro cannot be operated externally via the Internet.	Online activation is deactivated or the WLAN is not connected to the Internet.	Enable online activation in the WMS WebControl pro. Check the WLAN network.
The page is not displayed correctly when using the browser.	Browser obsolete or incompatible	Use a suitable browser.

10 Technical data

WMS WebControl pro	min.	typ.	max.	Unit
Supply				
Operating voltage		5.0		V DC
Current		350		mA
RF transceiver				
Transmission frequency	2.40		2.48	GHz
Transmission power			10	dBm
Reception sensitivity		-101		dBm
WMS range (environment without interference)		30		m
Housing				
WMS WebControl pro (L×W×H in mm)	122 × 96 × 48			
Degree of protection	IP20			
Safety class	III			
Connection				
Operating voltage	MicroUSB			
Ethernet	RJ45 plug-in connection			
Miscellaneous				
Conformity	 available at www.warema.de/ce			
This device complies with the EMC directives for use in residential and commercial areas.				
WAREMA Renkhoff SE declares herewith that this radio system type WMS WebControl pro is in compliance with the guideline 2014/53/EU.				
Ambient conditions				
Operating temperature	0	20	50	°C
Storage temperature	0	20	50	°C
Humidity (non-condensing)	10	40	85	%F _{rel}
Degree of soiling	2			
Article numbers				
WMS WebControl pro	2020920			
Wall holder for WMS WebControl pro	2032227			
WAREMA Renkhoff SE Hans-Wilhelm-Renkhoff-Str.asse 2 97828 Marktheidenfeld Germany				

11 Maintenance

There are no parts within the device that require maintenance.

- In the event of a malfunction, the fine-wire fuses installed in the switch actuators may only be exchanged by a qualified electrician.
- Also follow the specifications in the operating instructions of your sun shading product and the other controlled devices.

12 Liability

- Failure to comply with the product information in these instructions and use of the unit in a manner that contravenes its intended use and purpose may result in the manufacture refusing to honour warranty claims for product damage. In this case, liability for consequential harm to persons or damage to property will also be excluded.
- Follow the instructions in the operating instructions of your sun shading product. Liability is also excluded for damage to the sun shading system resulting from operation under icy conditions.

The device meets the requirements on interference resistance and interference emission for use in residential and commercial areas.

13 Cleaning

- Clean the housing with a soft, dry cloth.
- **Do not use detergents, cleaning agents, solvents, abrasive substances or steam cleaners!**



CAUTION

When cleaning activities on the WMS system, on the sun shading product itself or in the immediate vicinity of the sun shading product are required, first de-energise the unit and secure it against reactivation.

14 Obligations for the disposal of electrical devices



A marking with this symbol indicates the following obligations under the scope of legal regulations:

- The owner of this electrical device must dispose of it separately from unsorted municipal waste for further recycling.
- Used batteries and accumulators that are not enclosed in the old device, as well as lamps/bulbs that can be removed from the old device without breaking, must be disposed of separately.
- Distributors of electrical devices and disposal companies are obliged to take back the equipment free of charge.
- The owner must take it upon themselves to delete any personal data contained in the electrical device prior to disposal.

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