EN

Solexa Home

Set with Weather Station, Operating Panel, Base Station

Article number 10156 (set)

elsner

Manual

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This manual is amended periodically and will be brought into line with new software releases. The change status (software version and date) can be found in the contents footer. If you have a device with a later software version, please check **www.elsner-elektronik.de** in the menu area "Service" to find out whether a more up-to-date version of the manual is available.

Clarification of signs used in this manual

Safety advice.

Safety advice for working on electrical connections, components, etc.

DANGER! ... indicates an immediately hazardous situation which will lead to death or severe injuries if it is not avoided.

WARNING! ... indicates a potentially hazardous situation which may lead to death or severe injuries if it is not avoided.

CAUTION! ... indicates a potentially hazardous situation which may lead to trivial or minor injuries if it is not avoided.

ATTENTION! ... indicates a situation which may lead to damage to property if it is not avoided.

1. Description

1.1. Range of application and functions

Via a wireless connection, **Solexa Home** automatically controls the sunshades, windows, lighting and heating, and facilitates convenient manual operation.

The basis of the system is formed by the wireless control unit with base station and weather station. For practical use, the first drive is connected directly to the weather station. Additional drives and devices are integrated into the system via Elsner wireless actuators.

Automatic control is based on time, indoor temperature, outdoor temperature, brightness, sun position, wind speed and precipitation.

The drives and devices can also be operated via the Solexa mobile app and with an Elsner wireless remote control.

- The **shading automatic** with weather station controls shutters, awnings and blinds according to the brightness and takes into account the direction of the sun, movement delays set, temperature blocks, wind, rain and frost alarms, movement position, timer and night functions.
- The **ventilation automatic** with weather station controls casement and sliding windows based on the indoor temperature. In doing so, outdoor temperature, wind, rain and frost alarm, movement position and timer functions are taken into account.
- The **light automatic** with weather station switches lights on and off according to the outdoor brightness (day/night) and time. If dimming modules are used, then the dim level (brightness of the lamp) is also taken into account.
- The **heating automatic** with weather station switches a one or two level heating according to the indoor temperature and takes into account day and night (timer switch) and has a timer switch for manual heating during nighttime operation.
- The **roof gutter automatic** with weather station switches a heating within a certain temperature range.
- For all outputs a daily automatic reset and an automatic reset, a short time after a manual operation, can be set.

Functions and characteristics of the control unit and the Solexa Home base station:

- Control unit with touch display. Permanently integrated battery
- Base station with indoor temperature sensor and 2 m USB power cable (USB A to USB C) and USB powerpack for charging the control unit.
- Base station for standing or wall mounting

Functions and characteristics of the Solexa Home weather station:

- Brightness measurement (1 sun sensor), temperature measurement, wind speed measurement, precipitation recognition and GPS receiver for date/time and installation coordinates (sun position calculation)

- Weather station with a connection for a 230 V motor (integrated motor control unit), for up to 16 Elsner RF wireless actuators and up to 32 Elsner RF-operating devices/sensors

Compatible wireless actuators for the Solexa Home system:

The wireless actuators with a production date after 14.01.2016 are compatible with the Solexa II system. The production date can be found as part of the serial number which has the following structure "DD MM YY consecutive number".

- Motor control units RF-MSG-ST, RF-MSG, RF-MSG-PF for drives on shadings and windows. If necessary, a number of drives can be connected to a RF-MSG using a group controller relay
- Switching relay RF-relay-ST, RF-relay-UP (each above version for consumers such as lamps and one level heaters
- Dimmer RF-L UN-ST, RF-L PWM-ST, RF-L LED-ST, RF-L-UP 1-10 V for dimmable lights
- Heating module RF-HE-ST for two-stage heating systems

Compatible operating devices and sensors for the Solexa Home system:

- Remo pro, Remo 8i, Remo 8 remote controls (above version 1.8)
- Button at the interface RF-B2-UP (above version 1.0)
- Temperature sensor WGT (above version 1.0)
- Sensor WGTH-UP (above version 1.3), WGTH gl for temperature measurements (the sensor's humidity measurements are not evaluated)

1.2. Installation instructions

Information about installation, disposal, the scope of delivery and the technical details can be found in the Installation instructions.

1.2.1. Instructions for assembling the weather station

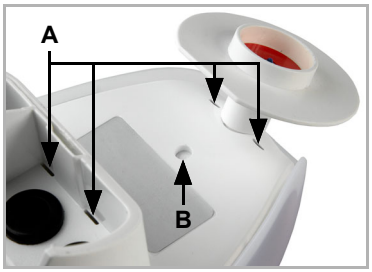


Fig. 1
(A) There are drainage holes on the underside of the housing.
(B) If necessary, the additional, prepared drainage point can be pierced. Proceed with caution so as not to damage the internal circuit board.

The wind value measured is outputted ca. 30 seconds after the power supply has been connected.

1.3. Commissioning

Installation, testing, operational start-up and troubleshooting of the unit should only be performed by an electrician (pursuant to VDE 0100).

When the control unit is connected and starts up, the message 'No weather station programmed – please press here to start programming' appears on the control unit. Tap the button to access the 'Connect weather station – Learning mode inactive' menu. Tap this button to activate learning mode and reset the weather station or tap the programming button on the weather station. The control unit will restart after the weather station has been programmed and the weather data will be displayed.

After installing the control unit, set the following:

1. Language, if applicable
2. Time
3. Wireless connections (with Programming the radio participants), see manual *Wireless connections and basics*.
4. Basic settings, see manual *Basic settings*.
5. Setting the automatic, see manual *Automatic*.

2. Control and operation

2.1. Using the control unit

2.1.1. Charging the battery

The control unit has a fixed, integrated battery that cannot be removed. The battery charge level is indicated by the 'battery' symbol in the top left corner.

Charge the control unit before initial start-up. To charge, place the control unit in the base station and connect the base station to a mains charger or PC via USB. The charging device must have a charging current of 200 mA (or more).

If the device is not charged in time, the control unit switches off. Automatic is not affected by this and continues to run.

If the control unit is outside the base station and remains stationary for 5 minutes, it will enter sleep mode. Movement will reactivate the display: pick up the control unit to activate it.

2.1.2. Maintenance and care

Fingerprints on the control unit and the housing are best removed with a cloth moistened with water or a microfibre cloth. Abrasive / detergent cleaning agents and aggressive care products must not be used for cleaning.

For cleaning, use the cleaning mode, see chapter *6.1. Reinigungsmodus*, Page 76.

2.1.3. The touch display

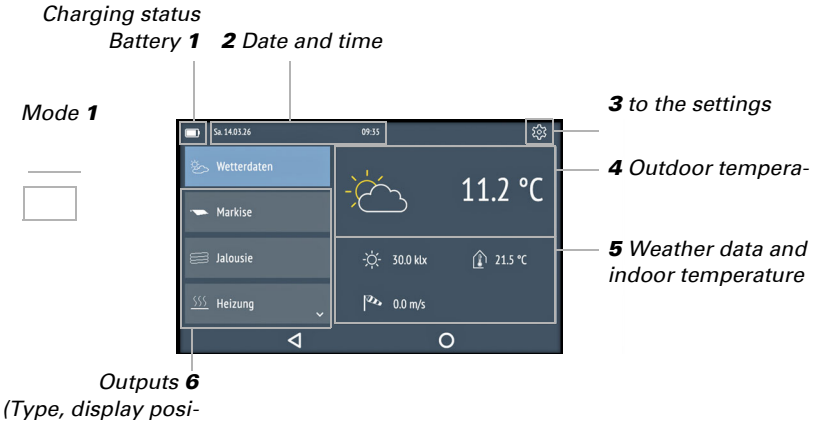
The manual controls, along with the default setting of the automatic functions and the devices connected wirelessly are performed via the permanently installed touch display of the controls. The button surfaces are actuated by pressing the control unit in the respective area. Depending on the setting, a short acoustic signal sounds when a button is pressed.

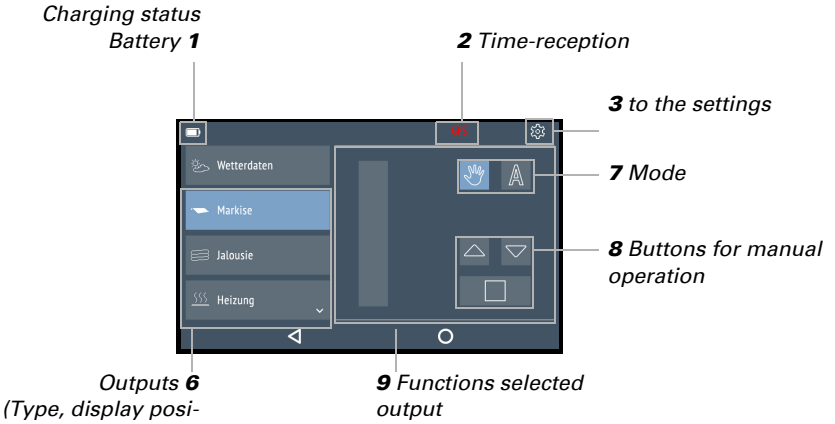
Operating the control unit with long fingernails will not damage the display screen or the touch function. Touching with very hard and pointed objects (e.g. made from glass, gemstone or metal) should be avoided because this can cause scratches.

Press the ◁ button to move one menu level back, and the ◯ button to access the Start page.

2.1.4. Display and operating options on the start screen

The control unit has various areas in which information and functions can be called up.





1 – Battery charging status

Observe the chapter*2.1.1. Charging the battery*, Page 12.

2 – Date, time

The date and time are displayed in the header of the start screen. To do this, the control unit must have received a valid GPS signal.
If 'GPS' appears in red in the header, no valid GPS signal has been received for more than 5 minutes. The internal clock of the control unit continues to run and is synchronised again when GPS reception is restored.

The time can be displayed in 12- or 24-hour mode. Further information on setting the clock can be found in the *Setting the time* chapter in the manual.

3 – Settings menus

Press the ⚙ button to open the settings menu.

The wireless connections and basics are described in the chapter *Wireless connections and basics* in the manual.

The default settings are described in the *Default settings* chapter in the manual.

The automatic settings are described in the *Automatic* chapter in the manual.

The device settings are described in the *Device settings* chapter in the manual.

4 – Outdoor temperature

The outdoor temperature is displayed in this area.

5 – Room temperature and weather data

When using an indoor temperature sensor, this area displays the indoor temperature value and, if applicable, the humidity, as well as outdoor/weather data.

Further information on the values for brightness and wind is in the *5.3.6. Einheiten für Sonne und Wind*, Page 73 chapter in the manual.

6 – Outputs

The buttons for manual operation can be used to manually control or switch the individual outputs. The outputs are visible on the left-hand side of the control panel with their display position number or name and type symbol. The selected output is highlighted in blue.

Please note that at this position only outputs are displayed for which the display has been activated (see manual, *Display position* chapter in the descriptions of the default settings for *Motor control units (RF-MSG, weather station)*, for *Relay (RF-Relay, RF-HE)* and for *Dimmer (RF-L)*.

If a lock is active on one of the channels, a triangle with an exclamation mark is displayed in the corresponding channel display.

7 – Mode

The actual mode of the selected output is displayed.

Tap in the area of the symbol to change mode (Automatic/Manual).

Automatic mode. Automatic functions for the selected output are active.

Manual mode. Output was operated manually or switched to manual mode.

After an output has been operated manually, it remains in manual mode. Automatic mode is inactive. Set an automatic reset so that the output switches back to automatic mode once a day or a certain amount of time after manual operation (see chapter *General settings: Automatic reset* in the manual and Automatic reset for the individual Automatic descriptions in the manual).

8 – Buttons for manual operation

Up/Down and Stop button for manual operation of the output.

9 – Active output functions

The selected output functions are shown on the right-hand side of the control unit, i.e. automatic mode status.

2.1.5. Weather details display

The current weather and indoor data is displayed on the large screen on the right.

General weather symbol and outside temperature:

No precipitation

If there is a precipitation message and temperatures are above -3 °C, it is raining

Night

Sun details:

Brightness in lux (lx) or kilolux (klx)

Wind:

The wind speed is displayed in kilometres per hour (km/h) by default, but can also be changed to metres per second (m/s).

Indoor data:

Temperatures in degrees Celsius (°C)
Humidity in % rF

2.1.6. Shading (shutters, awnings, blinds)

Please note that for an action such as "extend shading" a number of conditions must be fulfilled. The functions are listed here in the sequence of their priority. This means that the sun protection function is only executed if all previously named functions for the shading have been released.

The detailed description of the automatic functions is in the *Shading - automatic mode* chapter in the manual.

Alarm functions:

Alarm functions have the highest priority and prevent manual operation of the output.

- Wind alarm. Retracted shading.
  In automatic mode, manual operation can again be activated, even if the automatic functions are blocked by wind alarm.
- Frost alarm (combination of precipitation and low outdoor temperature). Retracted shading.
- Rain alarm. Retracted shading.

Time and night functions:

- Time closing and opening.
- Dropping below the threshold value for twilight/night.
  Night closure is executed.

Indoor and outdoor temperature:

- Indoor temperature is OK. Shading is released.
- Outdoor temperature is OK. Shading is released.
- Shading is blocked because indoor temperature is too low. Retraction delay is running.

Direction of sun:

- The sun is in the shading zone (compass direction). Shading is released.

Sun protection function:

- Brightness threshold value for shading has been exceeded, extension delay is running. After the delay time has expired the shading is extended, if all other conditions are OK.

- Brightness threshold value for shading has been exceeded.
  Shading is performed if all other conditions are OK.
- Brightness below threshold value for shading, retraction delay is running.
  Shading is retracted after the delay time has expired.
- Brightness below threshold value for shading.
  Sun protection automatic inactive.

Windows

Please note that for an action such as "Ventilate according to indoor temperature" a number of conditions must be fulfilled. The functions are listed here in the sequence of their priority. This means that the temperature-dependent ventilation function is only executed if all previously named functions for the ventilation have been released.

The detailed description of the automatic functions can be found in the *Windows-Ventilation-Automatic mode* chapter in the manual.

Alarm functions:

Alarm functions have the highest priority and prevent manual operation of the output.

- Wind alarm. Window closed.
  Manual mode: Manual operation blocked. Automatic mode: Output can be operated if the wind automatic lock is running.
- Frost alarm (combination of precipitation and low outdoor temperature).
  Window closed.
- Rain alarm.
  Depending on the setting, the window is either closed or in the rain position.

Timer functions:

- Time closing and opening.

Outside temperature:

- Outdoor temperature is OK. Ventilation is released.

Ventilation function:

- Indoor temperature for ventilation has been exceeded.
  Ventilation is performed if all other conditions are OK.

Light

The detailed description of the automatic functions is in the *Light - Automatic mode* chapter in the manual.

- Values below twilight threshold value. Lights are switched on after a delay of 1 minute. If a lighting time period has also been set, the lights are only switched on during this period.
- Lighting time period active. If twilight switching has also been set, the lights are only switched on in twilight.

Heating

The detailed description of the automatic functions is in the *Heating - Automatic mode* chapter in the manual.

- Day mode. Only the day temperature value set is valid.
- Night mode (night period). Only the night temperature value set is valid.
- Currently valid reference temperature value not reached. Heating is turned on.

Roof gutter heating

The detailed description of the automatic functions can be found in the *Roof gutter heating - Automatic mode* chapter in the manual.

- Outdoor temperature in the set range. Heating is turned on.

2.1.7. Beeps

When a button or touch-sensitive area is pressed, a short acoustic signal sounds, depending on the setting. If a button has been held down, then a higher beep sounds as confirmation that the button has been recognised as held down.
Pressing the button for a longer period is used exclusively in the manual menu, e.g. to distinguish between a step up and a drive up. Pressing and holding the 'Automatic button (A)' causes all drives to switch to automatic mode.

2.1.8. Error messages

If "–" is displayed instead of a sensor value, the wireless connection to the weather station is disrupted or the sensor is defective.

Check whether the weather station is powered (fuse). Have the device checked by an electrician if the problem continues.

Installation, testing, operational start-up and troubleshooting of the unit should only be performed by an electrician (pursuant to VDE 0100).

2.2. Operating the weather station

2.2.1. Maintaining the weather station

WARNING!
Risk of injury through automatically moving components!
System parts may start automatically as a result of the automatic controls and
can put people in danger.
- Always disconnect the system from the power for maintenance work and cleaning.

The device should be regularly checked twice a year for soiling and cleaned if required. If there is major soiling, the function of the sensor may be compromised.

ATTENTION
The device may be damaged if water penetrates the housing.
- Do not clean with high pressure cleaners or steam jets.

2.2.2. Deleting the control data of the weather station

WARNING!
Electrical voltage!
The programming key of the weather station is inside the housing and thus near unprotected live components.
- Only skilled electricians (pursuant to VDE 0100) may delete such devices.

ATTENTION
Loss of data!
When deleting the control data of the weather station, all radio connections and settings are lost. The device is reset to factory settings. The automatic control is no longer active.

If you would like to reset the Solexa II system, all the data of the weather station must be deleted. Proceed as follows:

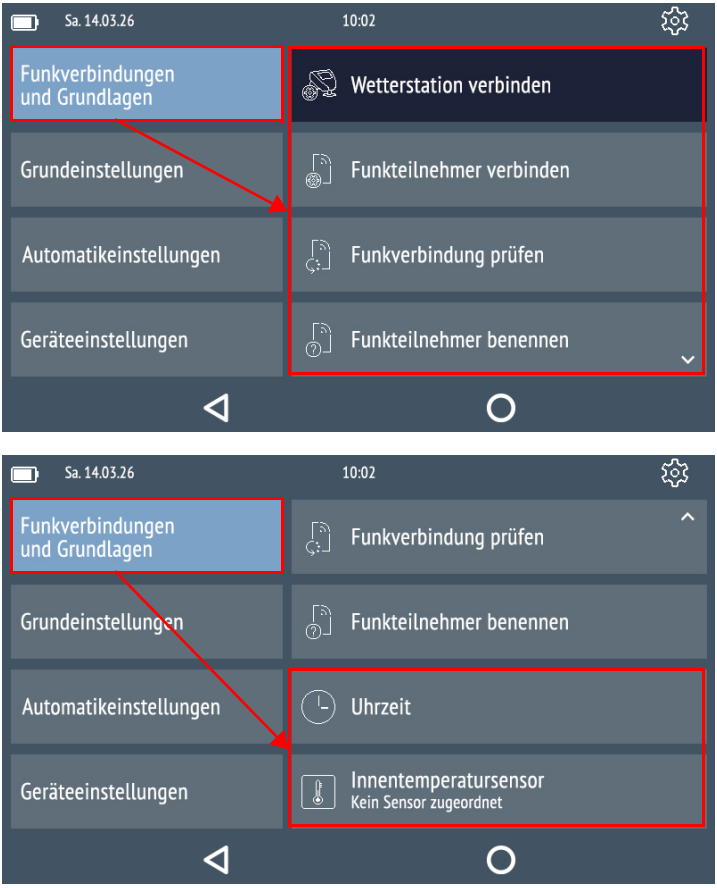
1. Press the PRG key on the weather station board and only release it when the LED lights up permanently.
2. Press the PRG key and only release it when the LED flashes.
3. Press the PRG key and only release it when the LED goes out.
   The data is deleted.

3. Wireless connections and basics

3.1. Information about wireless connections and basics

Wireless connections and basics

In the 'Wireless connections and basics' menu, you can view the status of the device and wireless connections and configure other relevant settings.
Here is an overview of the menu:



First connect the Solexa Home weather station to the control unit and then connect the base station to the weather station.

3.2. LEDs on the base station

The following table describes the colours of the program LEDs on the base station:

Program LED	
illuminates blue	Ready for use, No router programmed, No Solexa Home weather station programmed
illuminated red	Learning mode is active for 3 s (for Solexa Home weather station)
flashing blue	Solexa Home weather station programmed, No router programmed, Base station visible, WPS available
quickly flashing blue/green	WPS active (60s)
slowly flashing blue/green	Solexa Home weather station programmed, Establishing connection with router
flashing red	Solexa Home weather station programmed, Router programmed, Router not in range / access data wrong
flashing green	Solexa Home weather station programmed, Router connected
off	Automatic off (activated after 15 min)
illuminated white	Programming button not pressed

If no Solexa Home weather station has been identified, the programming button activates the learning mode for a weather station.
If a Solexa Home weather station has been programmed, the programming button activates the WPS function for the WLAN.

Factory settings of the base station

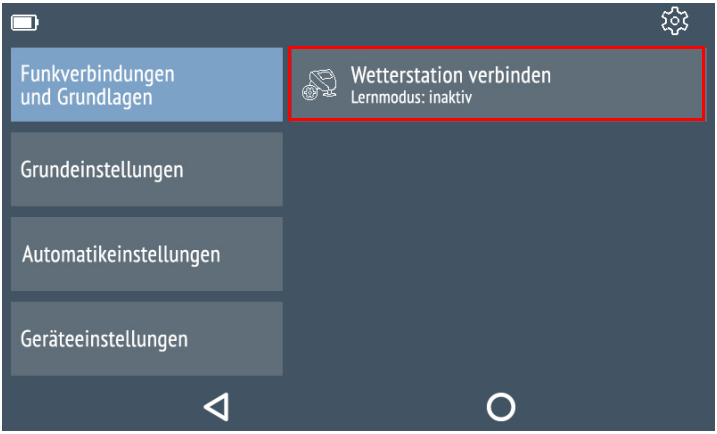
To reset the base station to factory settings, press the programming button for 5 seconds. While pressing, the program LED lights up white and then flashes red rapidly. Repeat this process a second time. The base station will then be in its default status.

3.3. Connect weather station

When you start the control unit for the first time, the wireless connection between the control unit and the weather station must first be established.

Installation, testing, operational start-up and troubleshooting of the unit should only be performed by an electrician (pursuant to VDE 0100).

Activate the learn mode by pressing the button:



Learning mode is active for 30 s.

Switch on the voltage connection of the weather station (16A circuit breaker in the distribution box/fuse box) or press the PRG key inside the housing.

WARNING!
Electric voltage!
The programming key of the weather station is inside the housing and thus
near unprotected live

components.
- Therefore the device may be taught exclusively by a skilled electrician
(pursuant to VDE 0100).

The control unit restarts after the weather station is connected. The ‘Connect weather station’ button turns black (or white if the display is inverted) as long as the control panel is connected to the weather station.

Continue with the programming of the radio modules, in particular with the associated base station.

3.4. Connect radio participants

Wireless connections and basics > Connect radio participants

First, the wireless connection to the weather station must be established, then additional participants such as wireless modules, remote controls or the base station can be programmed.
Activate the control panel learning mode by tapping the ‘Connect radio participants’ button:

Radio participants are now programmed in that sequence in which the learning telegrams are received. The number of successfully programmed radio participants is displayed on the control unit.

To programme wireless devices, set them to learning mode. See the short overview below and the data sheets for the individual radio participants.

Remo pro remote control: Tap the button “Learn / delete device” -> “Progamme device” -> “Controls: Solexa II”. When the Solexa Home is ready, tap the “Find device” button on the Remo pro.
Remo 8i remo remote: Press and hold the +/- buttons simultaneously for 3 seconds until the “Learn” is displayed in the control unit. Press the down arrow and use +/- to select the correct device. Then press the down arrow again. When the Solexa Home is ready, press the square button the middle.
Remo 8 remote control: Press the middle of the key +/- until an "L" for ready for learning appears on the control unit. Press the up/down arrow keys to establish a radio connection.
RF-B2-UP button interface: Press one of the PRG buttons.
WGT: Press the PRG key.
WGTH-UP: Press the PRG key (right opening in the housing).
RF-MSG, RF relay, RF-HE, RF-L: Supply power to the device.

The control unit remains in learning mode for 60 minutes. If you wish to end the learning session early, press the ‘Connect radio participants’ button again.

3.4.1. Connect base station

So that the base station can be used, it first has to be connected with a weather station.

To control the system via the **Solexa Mobile app** on a smartphone or tablet, the base station must be connected to the WLAN. The WLAN connection can be established either by WPS or by using the **Solexa Mobile app**.

Programming the base station at a weather station

Installation, testing, operational start-up and troubleshooting of the unit should only be performed by an electrician (pursuant to VDE 0100).

First connect the base station to the Solexa Home weather station by activating the learning mode on the control panel and then pressing the programming button on the base station (the programming LED lights up red for 3 seconds during learning mode).

Wireless connections and basics > Connect radio participants > Connect radio participants (Learning mode active)

When a Solexa Home weather station has been successfully connected to the base station, the programming LED on the base station flashes blue.

Connect base station to WLAN via WPS

The controls can be integrated into local wireless networks (WLAN) via the base station. This allows you to use the system with the **Solexa Mobile app** using a smartphone or tablet PC.

Establish the connection to the router:
To do this, press the programming button again. Once a Solexa Home weather station has been programmed, the programming LED flashes blue and green rapidly for 60 seconds (WPS active). During this time, press the WPS button on your router. While the connection to the router is being established, the programming LED flashes blue and green slowly.

Now install the **Solexa Mobile app:**

GET IT ON Google Play

https://play.google.com/store/apps/details?id=de.elsner_elektronik.solexamobile&hl=de

Download on the App Store

https://apps.apple.com/de/app/solexa-ii-mobile/id1077665910

Connect base station to WLAN via the app

Select the base station (WLAN interface SOL) and start the **Solexa Mobile app**. Enter the router's connection details. While the connection is being established, the programming LED flashes blue and green slowly. It only flashes green when the base station is connected to the router.

3.5. Check wireless connection

Wireless connections and basics > Check wireless connection

Use the "Check wireless connection" menu is radio participants do not respond. The radio status of all radio participants can be viewed here, and radio connections can be deleted.

The memory location number of the wireless subscriber is displayed, followed by the radio subscriber.
Possible radio participants:

- Remo remote control
- Button interface RF-B2-UP
- WGT sensor
- WGTH-UP sensor
- Base station
- Motor control unit

- Relay
- Heating relay
- Dimmers

If the wireless connection is interrupted, the radio participant should be checked by an electrician.

Deleting a radio participant

Each individual radio participant may be deleted. When deleting, any settings made for a radio output (e.g. type, automatic settings) are deleted. If a new radio actuator is to be taught to this output (memory location), please reset the base settings!

The weather station is an exception from this. Once it has been taught-in, it acts as a central unit and cannot be removed. Follow the instructions in chapter *Deleting the control data of the weather station*, Page 28 in order to delete the data of the weather station. The Solexa Home control unit can also be deleted. If you world like to programme the same control unit, reset it to factory settings before doing so (see chapter *6.6.3. Auf Werkseinstellungen zurücksetzen*, Page 78). In order to programme the control unit (or a new one), proceed as described in chapter *3.3. Connect weather station*, Page 23.

Deleting the control data of the weather station

WARNING!
Electric voltage!
The programming key of the weather station is inside the housing and thus
near unprotected live
components.
- Only skilled electricians (pursuant to VDE 0100) may delete such waste.

ATTENTION
Loss of data!
When deleting the control data of the weather station, all
radio connections and settings are lost. The device is reset to
factory settings. The automatic controls
no longer work.

If you would like to reset the Solexa Home system, all the data of the weather station must be deleted. Proceed as follows:

4. Press the PRG key on the weather station board and only release it when the LED lights up permanently.
5. Press the PRG key and only release it when the LED flashes.
6. Press the PRG key and only release it when the LED goes out.
   The data is deleted.

3.5.1. Memory locations

Certain memory locations in the system are reserved for certain devices. Within a memory area, the devices are placed according to their learning sequence.

When control unit and weather station are combined:

Position	Range	Device type	Number of devices
01	Weather station	Drive output of the weather station	1
02 to 05	Control element	Control element	1
06	WLAN and indoor temperature sensor	Base station	1
07 to 22	Outputs	Actuators	16
23 to 54	Inputs	Operating units and sensors	32

3.6. Name radio participants

Wireless connections and basics > Name radio participants

The radio participants can be renamed in the 'Name radio participants' menu. Use meaningful names to enable quick assignment.

3.7. Time

Wireless connections and basic > Time

To set whether the display of the time on the start screen is in 12 hour or 24 hour mode, and how much the local time deviates from coordinated universal time UTC. In addition, you can switch off the automatic summer time change if required.
The clock does not need to be set, as the time is received via GPS from the weather station.

3.8. Indoor temperature sensor

Wireless connections and basic > Indoor temperature sensor

When you have programmed an indoor temperature sensor, see *3.4. Connect radio participants*, Page 25, it appears in this menu for selection. If a sensor is used, the indoor temperature and, if applicable, the humidity are displayed on the start page.

4. Basic settings

4.1. Information about the basic settings

Basic settings

ATTENTION
Rain and wind alarms are deactivated while the base settings are displayed.

Important functions for operation are defined in the basic settings. The type of drives or devices that are radio participants and, if applicable, their direction of travel are specified. The behaviour of the drives in the event of wind, rain and frost alarms is set, as is the display sequence in the start menu, etc.

To access the basic settings, tap the settings icon on the start screen.

4.2.Setting up outputs

Basic settings

Each wireless actuator programmed to the system must be installed here. Various settings options are shown depending on the actuator (motor control unit, relay...).

The outputs are numbered in order (see also *3.5. Funkverbindung prüfen*, Page 27). In addition, output 1 is marked with a motor icon without radio waves.

ATTENTION
Rain and wind alarms are deactivated while the base settings are displayed.

You may consecutively adjust the settings for each output or jump items to reach the setting you want. Make sure that you make sure to adjust all settings during first com-

missioning to ensure correct control of the output (safe position etc.). The following settings must be adjusted:

Motor control unit (drive on weather station or RF-MSG):

Type	Roller shutters, awnings, blinds, windows or reserve
Rotational direction	Normal direction of rotation, reverse direction of rotation, drive test up/retract/close, drive test down/extend/open
Manual drive direction	UP button moves in/up/to, UP button moves out/down/up, Drive test UP, Drive test DOWN
Movement command for alarm functions	permanent, only during movement time
Extension time	0 s ... 300 s; 240 s
Departure time	0 s ... 300 s; 235 s
Travel time slat rotation	0.0 s ... 60.0 s; 2.7 s
Dead time of the drive	0.00 s ... 2.00 s
Home screen display position	Display position 1 ... 19
Assign inputs	No input assigned

Relays (consumers on RF relays):

Type	Light, heating, gutter heating or reserve
Home screen display position	Display position 2 ... 19
Assign inputs	No input assigned

Two-stage relays (consumers on RF-HE):

Type	Heating
Home screen display position	Display position 3 ... 19
Assign inputs	No input assigned

Dimmer (consumer on RF-L):

Type	Dimmers
Minimum dimming value	0 % ... 90 %; 10 %
Maximum dimming value	20 % ... 100 %
Switch-on behaviour	Use last value, use fixed value
Fixed switch-on value	0 % ... 100 %; 80 %
Home screen display position	Display position 4 ... 19
Assign inputs	No input assigned

Once base settings have been made on an output, it is in manual mode.

4.2.1. Motor control devices (RF-MSG, weather station)

Basic settings > Output X

The available settings for the weather station correspond to those for a radio motor control unit.

Type

Basic settings > Output X > Type

You have to assign the type of device or drive connected for each radio module programmed to the outputs of the **Solexa Home Control Unit**, or which function the output has to have. The automatic menu for the output is activated on the basis of this setting.
Select roller shutters, awnings, blinds, windows or reserve.

Reserve type means that the output is deactivated and neither automatic nor manual control via the system is available.

Rotational direction

Basic settings > Output X > Rotational direction

The setting of the rotational direction defines the secure position of a drive. The correct setting is important for a safe function of the automatic function, e.g. for wind and rain alarms.

The settings for the rotational direction must be made independently of the subsequent settings for the manual drive direction.

Shades (awnings, shutters, blinds):

Check the behaviour of the drive by moving it using the “Drive test” button.

ATTENTION
Rain and wind alarms are deactivated while this menu item is displayed.

Select “Normal direction of rotation” if the shading retracts when the “Drive test Up/Retract” button is pressed.
Select “Reversed direction of rotation” if the shading extends when the “Drive test Down/Extend” button is pressed.

Window:

Check the behaviour of the drive by moving it using the “Drive test” button.

ATTENTION
Rain and wind alarms are deactivated while this menu item is displayed.

Select “Normal direction of rotation” if the window should close with the “Drive test close” button.
Select “Reversed direction of rotation” if the shading extends when the “Drive test open” button is pressed.

Manual drive direction

Basic settings > Output X > Manual drive direction

For the drives, you can set the key that extracts and the one that retracts, or the one that opens and the one that closes. This adapts the assignment of the rocker switches to the actual drive direction of the drive and thus facilitates the operation for the user.

Shades (awnings, shutters, blinds):

To test, you can move the drive with the “Drive test” buttons.

ATTENTION
Rain and wind alarms are deactivated while this menu item is displayed.

Select the “UP button moves in/up” if the shading is to be retracted with the button “Drive test UP”.
Select the “UP button moves out/down” if the shading is to be extended with the button “Drive test DOWN”.

Window:

To test, you can move the drive with the “Drive test” buttons.

ATTENTION
Rain and wind alarms are deactivated while this menu item is displayed.

Select the “UP button moves to” if the window is to be closed with the button “Drive test UP”.
Select the “UP button moves up” if the window is to be opened with the button “Drive test DOWN”.

Drive command for alarm functions

Basic settings > Output X > Movement command for alarm functions

If a rain, wind or frost alarm is triggered, the drive is moved to a safe position (shading is retracted, window closes). The alarm drive command may end once the set retrac-

tion/closing travel time is over, or it is maintained continually as long as the alarm notification is valid.

The continuous movement command is required if you use the **Solexa Home Control Unit** as a central unit for wired motor control units (e.g. IMSG 230) that control several drives.

Select “Only during travel time” during if the alarm movement command should end, once the set retraction time and/or closing travel time is over (pre-setting, setting for normal shading or window controls).
Select “Permanent” if the alarm movement command should be maintained continuously. In this case, the drive command ends, once no alarm notification is present.

Extension time / Retraction time

Basic settings > Output X > Extension time / Retraction time

Travelling to an exact travel position is only possible once the travel times for the extension/opening and retraction/closing have been set. During commissioning, take the travel times and set them here.

Shades (awnings, shutters, blinds):

Determine the travel time for the retraction, i.e. how long the drive takes to move from a fully extended position (100% shading) to a fully retracted position (safe position).

Adjust the value.
Pre-setting 240 seconds, settings range 0 to 300 seconds.

The retraction time must be longer than the extension time in order to fully retract the shades.

Window:

Determine the travel time for closing, i.e. how long the drive takes to move from a fully opened position (100% opened) to a fully closed position (safe position).

Adjust the value.
Pre-setting 240 seconds, settings range 0 to 300 seconds.

The closing travel time must be longer than the opening travel time in order to fully close the window.

Departure time / Extension time

Basic settings > Output X > Departure time / Extension time

Travelling to an exact travel position is only possible once the travel times for the extension/opening and retraction/closing have been set. During commissioning, take the travel times and set them here.

Shades (awnings, shutters, blinds):

Determine the travel time for the extension, i.e. how long the drive takes to move from a fully retracted position (safe position) to a fully extended position (100% shading).

Adjust the value.
Pre-setting 235 seconds, settings range 0 to 300 seconds.

Window:

Determine the travel time for opening, i.e. how long the drive takes to move from a fully closed position (safe position) to a fully opened position (100% opened).

Adjust the value.
Pre-setting 235 seconds, settings range 0 to 300 seconds.

Travel time slat rotation

Basic settings > Output X > Travel time slat rotation

This setting is only requested for the "shutters" type. An exact slat position may only be reached if the travel time for the slat rotation is set. During commissioning, take the respective travel time and set it here.

Determine the travel time for slat rotation, i.e. the time the slats need to make a complete turn, from the "closed" position to the stop on the other side.

Adjust the value.
Pre-setting 2.7 seconds, settings range 0.0 to 60.0 seconds (in steps of tenths of seconds).

Dead time of the drive

Basic settings > Output X > Dead time of the drive

The dead time of the drive describes how long an electronic drive needs to actually start the motion once the control relay has been closed. Stating the dead time allows a more precise positioning of the drive, e.g. when adjusting the slat angle (reversing). Please input the settings provided by the drive manufacturer.
Adjust the value.
Pre-setting 0.00 seconds, settings range 0.00 to 2.00 seconds (in steps of hundredths of seconds).

Display location Start screen

Basic settings > Output X > Display location Start screen

During programming, each output is assigned a display location on the start screen. In this menu, you can sort the outputs (memory locations) and hide individual ones. The

outputs are then displayed in that order on the left of the start screen and may be selected for manual operation.

Select the display location or select the display location that has already been selected if you do not want the output to be shown on the start screen.
Display locations that have already been assigned are highlighted in black and cannot be selected. To sort each output to the desired display location, you can temporarily hide them or use the "temporary storage'"function on high display locations.

Assign inputs

Basic settings > Output X > Assign inputs

In general, each output can be operated manually via the Solexa Home control unit (see also setting *Display location Start screen*). Additional operating devices such as on-site pushbuttons or remote controls are programmed via the "Connect radio participants" function. Each pushbutton and each channel on the remote control may be connected with the outputs. This allows you to directly operate the shading, window, light or heating on site using the pushbutton or the remote control.

ATTENTION
Only drives/devices that have the same function should be operated together by one operating unit and/or channele.g. only shutters or only windows or only dimmable lights).

A maximum of eight operating units can be assigned to one output. The remote control Remo and a pushbutton interface RF-B2-UP are regarded as one device, the channels on a lower hierarchical level are not taken into account.

Remo remote control:

First teach a Remo (Remo pro, Remo 8i or Remo 8) on the control unit according to chapter *3.4. Funkteilnehmer verbinden*, Page 25. Then assign the inputs by assigning the corresponding channel in the Solexa Home control unit:

Basic settings > Output X > Assign inputs > Remote control > Channel X

Check the assignment by manually operating the output via the remote control channel.

Button interface RF-B2-UP:

First, teach a button interface RF-B2-UP on the control unit according to chapter *3.4. Funkteilnehmer verbinden*, Page 25. Then assign the inputs by assigning the corresponding button in the Solexa Home control unit:

Basic settings > Output X > Assign inputs > Button interface > Button X

Check the assignment by manually operating the output via the button interface.

4.2.2. Relay (RF relay, RF-HE)

Basic settings > Output X

Type

Basic settings > Output X > Type

You have to assign the type of device or drive connected for each radio module programmed to the outputs of the **Solexa Home Control Unit**, or which function the output has to have. The automatic menu for the output is activated on the basis of this setting. The heating module RF-HE is an exception in that the type is automatically recognised as heating.
For an RF relay, select light, heating, gutter heating or reserve. The type is fixed to heating for the heating module RF-HE.

Reserve type means that the output is deactivated and neither automatic nor manual control via the system is available.

Display position

Basic settings > Output X > Display location Start screen

During programming, each output is assigned a display location on the start screen. In this menu, you can sort the outputs (memory locations) and hide individual ones. The outputs are then displayed in that order on the left of the start screen and may be selected for manual operation.

The selection of the display location is identical for all wireless actuators. Please follow the instructions in chapter *Display location Start screen*, Page 37.

Assigning operating devices (inputs)

Basic settings > Output X > Assign inputs

The assignment of operating devices is identical for all radio actuators. Please follow the instructions in chapter *Assign inputs*, Page 38.

4.2.3. Dimmer (RF-L)

Basic settings > Output X

Type

Basic settings > Output X > Type

The type is automatically set to Dimmer for an RF dimmer at one output of the **Solexa Home Control Unit** and does not have to be set.

Minimum dimming value

Basic settings > Output X > Minimum dimming value

The dimming range for the light may be limited. This limitation applies to the manual dimming of the lamp and for automatic mode. Set the minimum dimming value here. If applicable, please note the manufacturer's information for the lamp.

Adjust the value. The connected light is dimmed to the currently set value.
Factory setting 10%. The available range for the settings depends on the setting for the maximum dimming value. The minimum dimming value must be at least 10% below the maximum value.

Maximum dimming value

Basic settings > Output X > Maximum dimming value

The dimming range for the light may be limited. This limitation applies to the manual dimming of the lamp and for automatic mode. Set the maximum dimming value here. If applicable, please note the manufacturer's information for the lamp.
Adjust the value. The connected light is dimmed to the currently set value.
Factory setting 100%. The available range for the settings depends on the setting for the minimum dimming value. The maximum dimming value must be at least 10% above the minimum value.

Switch-on behaviour

Basic settings > Output X > Switch-on behaviour

When manually switching on the light, you may either switch to the last selected dimming value or to a pre-set switch-on value. The switch-on value is set in the next menu option.
Select the last value or use fixed value.

Fixed switch-on value

Basic settings > Output X > Switch-on behaviour > Fixed switch-on value

The dimming value upon switching on is selected here.

Adjust the value.
Factory setting 10%. The available range for the settings depends on the settings for the minimum and maximum dimming value.

Display position

Basic settings > Output X > Display location Start screen

During programming, each output is assigned a display location on the start screen. In this menu, you can sort the outputs (memory locations) and hide individual ones. The outputs are then displayed in that order on the left of the start screen and may be selected for manual operation.

The selection of the display location is identical for all wireless actuators. Please follow the instructions in chapter *Display location Start screen*, Page 37.

Assigning operating devices (inputs)

Basic settings > Output X > Assign inputs

The assignment of operating devices is identical for all radio actuators. Please follow the instructions in chapter *Assign inputs*, Page 38.

5. Automatic

5.1. Controls in automatic mode

The automatic control mode ensures that ambient climate values and timer settings are maintained.

Changing between Automatic and Manual mode

If one of the shades, a window, a light or a heating device is operated manually, the output switches to manual mode and remains in that mode. The automatic mode for that output is switched off. It does not here matter whether the manual operation was initiated via the control unit, via other radio operating devices logged into the system or via the app.

An automatic reset to automatic mode for the output occurs only when the automatic mode is reset. For further information about automatic mode resets, please refer to chapter *Automatic reset*, Page 50.

The current mode of an output is displayed on the control unit as soon as the output has been selected (the selected output is highlighted in blue) At the top right, you can see either an A for automatic or a hand symbol for manual mode. Tap on the control unit in the area of these symbols if you want to change the mode. The symbol changes and the respective other mode is active.

Alarm functions

In case of a rain, wind or frost alarm, all outputs for which the alarm has been triggered are moved to safe position, independently of whether they are in automatic or in manual mode. After the alarm has been cancelled, the mode that was last active is restarted.

Please refer to the description of the automatic settings for each output type for more information about the priority of functions.

5.1.1. Safety information about automatic and alarm functions

WARNING!
Risk of injury through automatically moving components!
System parts may start automatically as a result of the automatic controls and can put people in danger.

- People must not enter the movement range of motorised moving parts.
- Comply with corresponding building regulations (see directive for motorised windows, doors and gates BGR 232 etc.).
- Always disconnect the system from the power for maintenance work and cleaning (e.g. switch off/remove fuse).

Rain alarm for automatically controlled windows:

If rain is entering, it may be some time before rain is detected by the sensors in the system, depending on the amount of rain and outside temperature. In addition, a closing time for electric windows or sliding roofs has to be included in the calculation. Moisture-sensitive objects should therefore not be placed in areas where thy could be damaged by entering precipitation. Please also bear in mind that in the event of a power failure and rainfall, a window will not be automatically closed if no emergency generator is installed.

Icing-up of rails of the shades:

Be aware that the rails of blinds, awnings and shutters, which are fitted outside, can ice up. If a motor is then moved, shades and motors can be damaged.

Power outage, maintenance work, etc. (restart the controls)

In case of a **power failure**, drives and devices can no longer be controlled. If the full extent of functions is also to be guaranteed if the mains power fails, an emergency generator with corresponding switching from mains to emergency operation should be installed on site.

Settings which have been saved in the control system program will remain unaffected by any power failure.

All the drives and devices for which an automatic reset has been selected are in automatic mode after a **restart** following a voltage recovery (e.g. power failure). If in a system with a weather station only the control unit is restarted, the mode and the automatic are not affected by restarting the control unit software.

Should **cleaning or maintenance work** be performed in the building, the control system must be voltage-free by tripping the fuse fitted on site, and secured against reactivation. This is to ensure that the controlled drives cannot operate.

5.1.2. Sequence for commissioning

Before starting the settings for the automatic mode, the base settings for the control must have been completed. The following items in particular must have been set (see *Grundeinstellung*, Page 20):

1. language, in case you wish to change it
2. Time
3. Learn wireless connections
4. Set up outputs

5.2. General automatic settings

⚙ Automatic settings > General settings

The general automatic settings include conditions that apply to several outputs, e.g. the travel delays for all shades and the twilight threshold value for all twilight/night functions.

The following parameters are adjusted in the general automatic settings:
- Twilight threshold value for shades and light
- Travel delays for shades
- Frost alarm values for shades and windows
- Wind alarm automatic lock for shades and windows
- Automatic reset for all outputs

You can consecutively configure the settings or jump items in order to reach the setting you want.

5.2.1. Twilight threshold value

Automatic settings > General settings > Twilight threshold value

Lights, shutters, blinds and awnings have automatic functions that differentiate between day and night (or twilight).

Here you can adjust the value below which the **Solexa Home Control Unit** switches to twilight/night. The switch occurs with a temporal delay after the value has been lower than the threshold value or the latter has been exceeded continuously for more than 1 minute.

Adjust the value. Pre-setting 10 Lux, settings range 1 to 200 Lux.

5.2.2. Travel delays

Automatic settings > General settings > Movement delays

Shutters, blinds and awnings have a travel delay in the sun automatics. This delay ensures that the shades do not continuously retract and extend in case of rapidly changing light conditions.

Here you can adjust the delay time for extension and retraction.

Extension delay

Automatic settings > General settings > Movement delays > Extend delay

The default setting for extension is 1 minute. Brightness must accordingly remain above its set value for shading for 1 minute continuously in order to extend the shades. The shades can thus react rapidly to the sun.
Adjust the value. Pre-setting 1 minute, settings range 1 to 240 minutes.

Retraction delay

Automatic settings > General settings > Movement delays > Retract delay

The default setting for retraction is 12 minutes. Brightness must accordingly remain below its set value for shading for 12 minutes continuously in order to retract any shades that have been extended. The shadow from clouds passing in front of the sun can thus be "blanked out".

Adjust the value. Pre-setting 12 minutes, settings range 1 to 240 minutes.

5.2.3. Frost alarm values

Automatic settings > General settings > Frost alarm values

Shutters, blinds, awnings and windows may be protected against freezing by means of a frost alarm. The frost alarm is active when during or after precipitation the outdoor temperature falls below a defined level.

The following situations trigger the frost alarm:

- The outdoor temperature is below the set frost alarm switch-on temperature and it begins to rain/snow.
- The outdoor temperature drops below the set switch-on temperature while it is raining/snowing.
- It has rained/snowed. The outdoor temperature falls below the set frost alarm switch-on temperature within the set standby period after the end of the precipitation.

The frost alarm ends in the following situation:

- The outdoor temperature remains above the set switch-off temperature for the set period of time.

Use the automatic functions of the individual shades and windows to set which shades are retracted if there is a frost alarm and which windows are closed. The frost alarm locks all automatic functions and manual operation for these motors.

Switch-on temperature for frost alarm

Automatic settings > General settings > Frost alarm values > Switch-on temperature

First determine when the frost alarm is to be triggered. Set the outdoor temperature that must be undercut to trigger the frost alarm.

Adjust the value. Pre-set value 3°C. Smallest adjustable value -5°C. The adjustment range depends on the settings made for the switch-off temperature. The switch-on temperature is always at least 1° below the switch-off temperature.

Standby period

Automatic settings > General settings > Frost alarm values > Standby period

Select how many hours after precipitation the frost alarm standby mode should be active (e.g. 5 hrs.). The temperature is also monitored during precipitation. Select the standby period in a way ensuring that the humidity left from the previous precipitation has all dried up.

Adjust the value. Pre-setting 5 hours, settings range 1 to 10 hours.

Switch-off temperature for frost alarm

Automatic settings > General settings > Frost alarm values > Switch-off temperature

Select the conditions for stopping the frost alarm. Determine which outdoor temperature must be exceeded (e.g. 5°C).

Adjust the value. Pre-set value 4°C, highest adjustable value 10°C. The adjustment range depends on the settings made for the switch-on temperature. The switch-off temperature is always at least 1° above the switch-on temperature.

Follow-up time

Automatic settings > General settings > Frost alarm values > Follow-up time

Determine the period of time that the switch-off temperature must be exceeded in order to actually turn off the frost alarm (e.g. 5 h). Select a period ensuring that ice has completely melted away.

Adjust the value. Pre-setting 5 hours, settings range 1 to 10 hours.

5.2.4. Wind alarm automatic lock

Automatic settings > General settings > Automatic wind alarm lock

If the wind threshold value for a shading or a window is exceeded for the duration of the delay time set in the output automatics , the wind alarm is triggered. When the values fall below the threshold value again, the alarm is maintained for another 5 minutes. If the wind value is exceeded again during this period, the waiting time of 5 minutes starts again. In the automatic settings, the wind threshold value and the delay time are determined separately for each shading and each window.

In addition, a period of time after the wind alarm can be set. During this period, the automatic functions are blocked. This means that if the output is in automatic mode be-

fore or during the wind alarm, then the automatic functions initially remain blocked after the wind alarm. However, manual operation is already possible again if no other alarm functions are active.

Set the period for the automatic block here. It applies to all shades and windows with wind alarm.

Adjust the value. Pre-setting 0 minutes (no delay), settings range 0 to 360 minutes.

5.2.5. Automatic reset

Automatic settings > General settings > Automatic reset

After manual operation, the respective automatic shading, the window, the light or heating device always remains in manual mode, automatic mode is deactivated. At the time of the general automatic reset, all drives and devices are returned to automatic mode. In addition, you may determine that automatic mode is reactivated after manual operation as well. The delay period for this can be set.

Automatic resets prevent the motors from being operated manually and then remaining in an unfavourable position (window remains accidentally open, blind retracted despite the sun.

The general automatic reset and reset after manual operation can be separately activated and deactivated for each output in the automatic menu.

Time of day for automatic reset

Automatic settings > General settings > Automatic reset > Time

Determine the time of day for the daily automatic reset. The reset may be separately activated and deactivated for each output in the automatic menu.

First set the hour and then the minutes for the automatic reset. Pre-setting 3:00 o'clock.

Delay time

Automatic settings > General settings > Automatic reset > Delay time

Set the period of time that is to pass after manual operation before the system switches back to automatic mode. The reset may be separately activated and deactivated for each output in the automatic menu.

Adjust the value. Pre-setting 60 minutes, settings range 5 to 480 minutes.

5.3. Automatic setting for the outputs

Automatic settings > Outputs

The automatic mode for the individual shutters, awnings, blinds, windows, lights and heating devices are adjusted to the individual needs and conditions in the output automatic settings.

For each output, the automatic setting data sets for the type set are saved (shutter, awning, blinds, window, light, heating, roof gutter heating). The type of output is specified in the basic settings (see also chapter *Ausgänge einrichten*, Page 32 et seq.).

In the automatic settings, the outputs are numbered in order. They correspond to the sequence that happened to be used for the learning process.
The corresponding button displays the symbol for the output type, the sequence of programming and the name of the output (type, display position and name are defined in the basic settings, see chapter *Ausgänge einrichten*, Page 32).

Output types:

- Shutters
- Blind
- Awning
- Windows
- Light (switchable or dimmable)
- Heating device
- Roof gutter heating

Outputs of the "reserve" type are not shown since no automatic settings may be set for them.

You may consecutively adjust the settings for each output or jump items to reach the setting you want.

5.3.1. Shading automatics

Automatic settings > Output X

The following shading automatics are activated for outputs (memory locations) that were configured as a shutter, blind or awning in the base settings. The setting "slat position" is only available for shutters.

Please note that **alarm functions** for frost, wind and rain alarm have a priority position and apply both in automatic and in manual mode. The shading is retracted and cannot be manually extended.

If a shading is in automatic mode and none of the alarm functions is active, then the **forced and blocking settings** for time opening (retracting) followed by night and time closing (extending), outdoor temperature lock (retracting) and indoor temperature lock (retracting) are checked first.

The **shading automatics according to brightness** are only executed when no alarm, forced or blocking function is active and the sun direction is correct as well.

Shade settings

Automatic settings > Output X > Shading automatic

Shading type

Automatic settings > Output X > Shading automatic > Shading type

Specify whether the shading should always be closed or open, or whether shading is applied depending on the brightness.

The set luminous intensity value must be undercut or exceeded for the length of the travel delay period in order for the automatic function to react. This is to prevent continuous shading extension and retraction in the event of rapidly changing light conditions. The travel delays can be adjusted in the general automatic settings.

Apart from a brightness value, you can also select *always keep closed* and *always keep open*. In both cases, the shading does not react to brightness levels. This setting is particularly interesting for shutters and blinds.

The setting ***always keep open*** ensures that the shading remains extended in automatic mode. Slat settings (for shutters) and travel position can be set individually. Rain, wind and frost alarm have the highest priority level in this shading type as well, as long as they are activated. It is also possible to set timed opening, night and timed closure as well as an outdoor temperature block. Manual travel is possible.

The setting ***always keep closed*** ensures that the shading remains retracted in automatic mode. Settings can be adjusted for timed opening, night and timed closure. Rain,

wind and frost alarm have the highest priority level in this shading type as well, as long as they are activated. Manual travel is possible.

Adjust the value or select brightness-dependent shading to *always keep closed* or *always keep open* (Values *always keep closed* and *always keep open* are between 99 and 1).
Pre-setting 40 kilolux, setting range 1 to 99 kilolux, *always keep closed*, *always keep open*.

Brightness

Automatic settings > Output X > Shading automatic > Brightness

Set the brightness value from which the shading is to be extended. You can find some recommendations in chapter *Units for sun and wind*, Page 72.

The set luminous intensity value must be undercut or exceeded for the length of the travel delay period in order for the automatic function to react. This is to prevent continuous shading extension and retraction in the event of rapidly changing light conditions. The travel delays can be adjusted in the general automatic settings.

In addition to a brightness value, you can also select *always keep open* (always shade, keep extended) and *always keep closed* (never shade, keep retracted). In both cases, the shading does not react to brightness levels. This setting is particularly interesting for shutters and blinds.

The setting ***always keep open*** ensures that the shading remains extended in automatic mode. Slat settings (for shutters) and travel position can be set individually. Rain, wind and frost alarm have the highest priority level in this shading type as well, as long as they are activated. It is also possible to set timed opening, night and timed closure as well as an outdoor temperature block. Manual travel is possible.

The setting ***always keep closed*** ensures that the shading remains retracted in automatic mode. Settings can be adjusted for timed opening, night and timed closure. Rain, wind and frost alarm have the highest priority level in this shading type as well, as long as they are activated. Manual travel is possible.

Adjust the value or select brightness-dependent shading to *always keep closed* or *always keep open* (Values *always keep closed* and *always keep open* are between 99 and 1).
Pre-setting 40 kilolux, setting range 1 to 99 kilolux, *always keep closed*, *always keep open*.

Direction of sun

Automatic settings > Output X > Shading automatic > Direction of sun

This setting is only available when shading occurs at a certain brightness value, i.e. *not* if “always keep closed” (do not react to brightness) or “always keep open” (always leave extended) were set for the shading brightness.

Enter the compass direction in which the sun has to be for the shading to be activated.

The time of day must be saved in the system to allow **Solexa Home Control Unit** to calculate the current sun position. The time is set automatically as soon as a valid GPS signal is received. Set the right time zone if you are using the sun position for the shading (see base settings chapter *Uhrzeit*, Page 29).

Select the desired sky direction. Pre-set value: All compass directions are selected (N = north, O = east, S = south, W = west).

Actuation position

Automatic settings > Output X > Shading automatic > Movement position

This setting is not available if the brightness for shading is set to *always keep closed* (do not react to brightness).

Set travel position for the automatic shading. The shading may travel to any position between 0% and 100%, with 0% being fully retracted and 100% fully extended.

If the shading is operated manually, the entire travel area is always available. The position set here only applies to the automatic mode.

In order to allow the **Solexa Home Control Unit** to arrive at the correct position, the runtime of the drive must be stored in the system. For this reason, it is imperative that you set the runtime if you are using the travel position for the shading (see base settings chapter *Auffahrzeit / Einfahrzeit*, Page 36 and*Abfahrzeit / Ausfahrzeit*, Page 37).

Adjust the value. Pre-setting 100%, setting range 0 to 100%.

Slat position

Automatic settings > Output X > Shading automatic > Slat position

This setting is only shown for shutters. This setting is not available if the brightness for shading is set to *always keep closed* (do not react to brightness).

Set the slat position for the automatic shading. The slats may move to any angle between 0% and 100%. 100% means fully closed (sun/glare protection).

If the shading is operated manually, the entire angle area is always available. The position set here only applies to the automatic mode.

In order to allow the **Solexa Home Control Unit** to arrive at the correct position, the runtime of the drive must be stored in the system. For this reason, it is imperative that you set the runtime if you are using a slat position for the shading (see base settings chapter *Fahrzeit Lamellenwendung*, Page 37 and*Totzeit des Antriebs*, Page 37).

Adjust the value. Pre-setting 75%, setting range 0 to 100%.

Sensor selection

Automatic settings > Output X > Shading automatic > Select sensor

This setting is only available when shading occurs at a certain brightness value, i.e. *not* if "always keep closed" (do not react to brightness) or "always keep open" (always leave extended) were set for the shading brightness.

Select the indoor sensor that is to be evaluated for the controls of this shading. If *no sensor is assigned*, the indoor temperature is not taken into account for the controls of the shading.

The **Solexa Home Control Unit** base station has an integrated temperature sensor. If the indoor temperature is to be captured with this or another sensor, the corresponding sensor must be programmed via a wireless connection.

Switch to the desired sensor or to *Sensor assigned*.
Pre-setting *No sensor assigned*.

Indoor temperature lock

Automatic settings > Output X > Shading automatic > Indoor temperature lock

This setting is not available, if the brightness for shading is set to "always keep closed" (do not react to brightness) or when the setting for the sensor selection is *no sensor assigned*.

Set the indoor temperature block for the shading in order to utilise solar energy to heat up the room. If the indoor temperature is below the set value, e.g. in the morning, then the shades remain retracted despite the sun.

As soon as the set indoor temperature is exceeded, the lock is lifted and the shades released. If the indoor temperature decreases, the lock is activated as soon as the temperature is more than 3.0°C below the set value (hysteresis).

Please note that the shading is only extended when the extension delay period has passed, and is only retracted when the retraction delay period has passed (see chapter *General automatic mode settings >Travel delays*, Page 47).

If you select *inactive*, the indoor temperature is not taken into account for the controls of the shading.

Adjust the value or set the indoor temperature lock to *inactive* (the value *inactive* is between 40 and 5).
Pre-setting 25°C, adjustment range 5 to 40°C or *inactive*.

Outdoor temperature block

Automatic settings > Output X > Shading automatic > Outdoor temperature lock

This setting is not available if the brightness for shading is set to *always keep closed* (do not react to brightness).

Set the outdoor temperature block for the automatic shading. The block only applies to automatic operation; no shading based on light intensity or the position of the sun takes place. The output still reacts to wind, rain and frost alarm even when the outdoor

temperature block is active,
as well as to night and timed travel commands and manual travel commands.

This is different to the frost alarm which retracts the shading and locks it against manual operation. When using the outdoor temperature block, please note that the shade rails or other mechanical components can remain iced even when the outdoor temperature has already risen to a relatively high value.

ATTENTION!
Property damage due to movement of frozen-solid shades!
Motor and curtain can be damaged if a
frozen solid outside shade is moved.
- Use the frost alarm function to obtain reliable protection against damages due to ice.

Set the outdoor temperature value recommended by the shade manufacturer. The block is lifted again only when the temperature rises more than 2.0 °C over the pre-set value (hysteresis). If you want the shading to be active independently of the outdoor temperature (e.g. in case of indoor awnings), select *inactive*.

Adjust the value or set the outdoor temperature lock to *inactive* (the value *inactive* is between 30 and -20). Pre-setting 5°C, adjustment range -20 to 30°C or OFF.

Night and timed closure

Automatic settings > Output X > Night and time close

The closing functions are useful especially for shutters and blinds, as they allow the latter to be used as a privacy screen. Manual retraction remains possible.

The following settings for night and timed closure are adjusted in the general automatic settings:
Setting
Use night-time closure
Use time close (with 2 periods)
Travel position for night/time closing

Night closure

Automatic settings > Output X > Night and time closing > Night closing

Shutters and blinds are often closed as a privacy screen when it gets dark. To do this, turn on night closure. The brightness value that is used to determine twilight/night conditions can be adjusted in the general automatic settings (see chapter *Twilight threshold value*, Page 47).

Switch night closing on (active) or off (inactive). Pre-setting *Inactive*.

Timed closure

Automatic settings > Output X > Night and time closing > Time closing

As an addition to the night closure in the dark, two periods may be determined when the shading is to be kept closed. Set the time for extension, retraction and the days of the week for period 1 and period 2.

Set the start and end of the period for timed closure respectively. Use 24h mode to differentiate between mornings and afternoons.
Pre-setting *Inactive*.

Travel position for night and timed closure

Automatic settings > Output X > Night and time closing > Travel position

This setting is only shown if night and/or time closing has been activated.

Set travel position for night and timed closure. The shading may travel to any position between 0% and 100%, with 0% being fully retracted and 100% fully extended.

In order to allow the **Solexa Home Control Unit** to arrive at the correct position, the runtime of the drive must be stored in the system. For this reason, it is imperative that you set the runtime if you are using the travel position for the shading (see base settings chapter *Auffahrzeit / Einfahrzeit*, Page 36 and*Abfahrzeit / Ausfahrzeit*, Page 37).

Adjust the value. Pre-setting 100%, setting range 0 to 100%.

The shutter slats are always fully closed during night and timed closure.

Timed opening

Automatic settings > Output X > Time open

The opening function determines the periods in which no shading takes place. The shading is retracted at the beginning of the timed opening, but can still be manually extended. After timed opening, the normal shading automatics are activated.

Set the start and end of the time open. Use 24h mode to differentiate between mornings and afternoons.
Pre-setting *Inactive*.

Frost alarm

Automatic settings > Output X > Frost alarm

The frost alarm retracts shading in cold outdoor temperatures in combination with precipitation. This protects external shades from damage due to freezing and movement is the rails are frozen. The conditions for frost alarms are determined in the general automatic settings (see chapter *Frost alarm values*, Page 48).
When a frost alarm is triggered, a triangle with an exclamation mark appears in the respective output.

Switch on the frost alarm for outside shutters, blinds and awnings.

Switch off the frost alarm (inactive) or switch it on (active). Pre-setting *Inactive*.

Wind alarm

Automatic settings > Output X > Wind alarm

The wind alarm protects sensitive exterior shading, especially awnings and slat shutters, against damages. By selecting *inactive*, the wind alarm can be switched off (e.g. for interior shading and blinds).

Wind alarm is triggered, when the threshold value set for this output is exceeded for the duration of the delay time. When the values fall below the threshold value again, the alarm is maintained for another 5 minutes. If the wind value is exceeded again during this period, the waiting time of 5 minutes starts again.
When a wind alarm is triggered, a triangle with an exclamation mark appears in the respective output.

In addition, a period of time after the wind alarm can be set. During this period, the automatic functions are blocked. This means that if the output is in automatic mode before or during the wind alarm, then the automatic functions initially remain blocked after the wind alarm (see chapter *Wind alarm automatic lock*, Page 49).

The following parameters are determined for the wind alarm settings:
Setting
Wind limit value
Delay (until wind alarm is triggered)

Wind limit value

Automatic settings > Output X > Wind alarm > Wind limit value

If the wind threshold value for the delay time set in the next step is exceeded, then a wind alarm is triggered. The shade is retracted and manual operation blocked.

The wind velocity is stated in km/h (kilometres per hour). Please refer to chapter *Units for sun and wind*, Page 72 for indications regarding the wind value settings. Depending on the direction of the façade, the weather exposed side and the installation position of the weather station, the optimal wind value for protecting the shades may vary. Please note the shade manufacturer's instructions and additionally observe the behaviour of the shades when it is windy. Then adjust the wind value as required.

Adjust the value or set the wind alarm to *inactive* (the *inactive* value is between 120 and 1). Pre-setting 20 km/h, adjustment range 1 to 120 km/h or *inactive*.

Delay

Automatic settings > Output X > Wind alarm > Delay

The wind alarm delay time determines for how long the wind threshold value must have been exceeded before wind alarm is triggered and the shades are retracted.

Adjust the value. Pre-setting 1 seconds, settings range 1 to 20 seconds.

Rain alarm

Automatic settings > Output X > Rain alarm

The rain alarm protects shades which are mounted outdoors, especially awning cloth, against humidity. When the rain alarm is triggered, the shades are automatically retracted, and manual operation is disabled.

The rain alarm remains active for 5 minutes. If further rainfall is detected within these 5 minutes, the holding time restarts.
When a rain alarm is triggered, a triangle with an exclamation mark appears in the respective output.

Switch the rain alarm on (*active*) or off (*inactive*). Pre-setting *Inactive*.

Automatic reset

Automatic settings > Output X > Automatic reset

If the shades are operated manually, they remain in manual mode, automatic mode is deactivated.

Here you can determine whether the shades are reset to automatic operation at a set time on a daily basis and/or with a short delay after manual operation. The times for the two automatic resets are determined in the general settings (see chapter *Automatic reset*, Page 50).

The following parameters are determined for the automatic reset settings:
Setting
daily automatic reset at a pre-determined time of day
Delayed automatic reset after manual operation

Daily automatic reset at a set time

Automatic settings > Output X > Automatic reset > Daily automatic reset

The general Automatic Reset occurs daily at the same time. If this function is activated for the shades, automatic mode is activated at the stated time.

Switch off automatic reset at a fixed time (inactive) or switch it on (active). Pre-setting *Active*.

Delayed automatic reset after manual operation

Automatic settings > Output X > Automatic reset > Daily automatic reset

Alternatively, the automatic function is reactivated at a set time following a manual intervention. Switch this delayed reset on or off.

Switch the delayed automatic reset on (Active) or off (Inactive) after manual operation. Pre-setting *Inactive*.

5.3.2. Window ventilation automatic mode

Automatic settings > Output X

The following ventilation automatics are activated for outputs (memory locations) that were configured as a window in the base settings.

Please note that **alarm functions** for frost, wind and rain alarm have a priority position and apply both in automatic and in manual mode. The window is closed and cannot be manually opened. Gap ventilation when it is raining is only activated if no wind or frost alarm has been triggered.

If a window is in automatic mode and none of the alarm functions is active, then the **forced and blocking settings** for time closing followed by outdoor temperature block (close) and indoor temperature block (open) are checked first.

The **ventilation automatics according to indoor temperature** are only executed when no alarm, forced or blocking function is active.

Sensor selection

Automatic settings > Output X > Sensor selection

Select the indoor sensor that is to be evaluated for the controls of this window. If *no sensor is assigned*, the indoor temperature is not taken into account for the controls of the window.

The **Solexa Home Control Unit** base station has an integrated temperature sensor. If the indoor temperature is to be captured with this or another sensor, the corresponding sensor must be programmed via a wireless connection.

Switch to the desired sensor or to *No sensor assigned*. Pre-setting *No sensor assigned*.

Indoor temperature for ventilation

Automatic settings > Output X > Indoor temperature

This setting is only available, if a sensor for the indoor temperature has been selected, i.e. *not* if *No sensor assigned* has been chosen for the sensor selection (see previous chapter *Sensor selection*, Page 54).

Set the indoor temperature at which the window is opened. The window is opened as soon as the temperature lies above the pre-set value. However, it is only closed again when the temperature sinks by more than 2.0 °C under the pre-set value (hysteresis).

If you select *No sensor assigned*, ventilation according to indoor temperature is not active.

Adjust the value or set the ventilation according to indoor temperature to "off" (Inactive)(the *Inactive* is between 40 and 5). Pre-setting 25°C, adjustment range 5 to 40°C or AUS (off).

Timed ventilation

Automatic settings > Output X > Ventilation period

Ventilation may take place independently of the indoor temperature at pre-set ventilation periods. Two periods may be determined. Set the time for the start and end of ventilation as well as the days of the week for period 1 and period 2.

The window is only opened at ventilation times if the set outdoor temperature is reached (see chapter *Outdoor temperature block*, Page 62). At the end of the ventilation period, the normal automated ventilation is once again performed according to the temperature.

Set the start and end of the period for timed ventilation respectively. Use 24h mode to differentiate between mornings and afternoons.
Pre-setting *Inactive*.

Opening position

Automatic settings > Output X > Open position

You can set a maximum opening position for automatic operation and the number of steps for gradual opening for the window.

The following parameters are determined for the position settings:
Setting
Actuation position
Number of steps

Actuation position

Automatic settings > Output X > Open position alarm > Movement position

Set the maximum travel position for the automatic ventilation. The window may move to any position between 0% and 100%, with 0% being fully closed and 100% fully opened.

If the window is operated manually, the entire travel area is always available. The position set here only applies to the automatic mode.

In order to allow the **Solexa Home Control Unit** to arrive at the correct position, the runtime of the drive must be stored in the system. For this reason, it is imperative that you set the runtime if you are using the travel position for the window (see base settings chapter *Auffahrzeit / Einfahrzeit*, Page 36 and*Abfahrzeit / Ausfahrzeit*, Page 37).

Adjust the value. Pre-setting 100%, setting range 0 to 100%.

Number of steps

Automatic settings > Output X > Open position > Number of levels

The window may be opened gradually in automatic mode. Set the number of travel positions here.

If you have activated ventilation according to indoor temperature, the control verify every 3 minutes whether the set room temperature is still exceeded and then possibly opens up another degree in order to speed up the cooling process, or closes one degree.

ATTENTION
Material damage due to use of gradual operation with incorrect motors!
- Only use this function with motors that are suitable for level/step mode.

Adjust the number of levels. Pre-setting 5, settings range 1 to 10.

Outdoor temperature block

Automatic settings > Output X > Outdoor temperature lock

Set the outdoor temperature block for the window. The block causes the window to remain closed. The outside temperature block can be used, for example, if the window should not be used for ventilation (cold protection for plants).

The outdoor temperature block only applies for automatic operation; no ventilation then takes place. Manual operation remains possible, even if the window is locked because of a low outdoor temperature.

The outdoor temperature-block becomes active as soon as the temperature sinks under the pre-set value. The block is however only deactivated again when the temperature rises over the pre-set value by more than 2.0? (hysteresis).

Adjust the value or set the outdoor temperature lock to *inactive* (the value *inactive* is between 30 and -20). Pre-setting 5°C, adjustment range -20 to 30°C or *inactive*.

Timed closure

Automatic settings > Output X > Time closing

Ventilation may be prevented at pre-set times. Shut-off times prevent the windows, for example, from opening and closing at night, and thus causing noise.

Two periods may be determined. Set the time for the start and end of forced closure as well as the days of the week for period 1 and period 2.

Set the start and end of the period for timed ventilation respectively. Use 24h mode to differentiate between mornings and afternoons.
Pre-setting *Inactive*.

Frost alarm

Automatic settings > Output X > Frost alarm

The frost alarm closes windows at cold outdoor temperatures in combination with precipitation. This prevents damages due to ice formation (e.g. on sealings). The conditions for frost alarms are determined in the general automatic settings (see chapter *Frost alarm values*, Page 48).

Switch off the frost alarm (inactive) or switch it on (active). Pre-setting *Inactive*.

Wind alarm

Automatic settings > Output X > Wind alarm

The wind alarm protects the system and equipment from damage by closing the window. Manually opened windows are also closed if there is a wind alarm. The wind alarm can be switched off by selected *Inactive*.

Wind alarm is triggered, when the threshold value set for this output is exceeded for the duration of the delay time. When the values fall below the threshold value again, the alarm is maintained for another 5 minutes. If the wind value is exceeded again during this period, the waiting time of 5 minutes starts again.

In addition, a period of time after the wind alarm can be set. During this period, the automatic functions are blocked. This means that if the output is in automatic mode before or during the wind alarm, then the automatic functions initially remain blocked after the wind alarm (see chapter *Wind alarm automatic lock*, Page 49).

The following parameters are determined for the wind alarm settings:
Setting
Limit for wind alarm
Delay until wind alarm is triggered

Wind limit value

Automatic settings > Output X > Wind alarm > Wind limit value

If the wind threshold value for the delay time set in the next step is exceeded, then a wind alarm is triggered. The window is closed and manual operation blocked.

The wind velocity is stated in km/h (kilometres per hour). Please refer to chapter *Units for sun and wind*, Page 72 for indications regarding the wind value settings.

Adjust the value or set the wind alarm to *inactive* (the *inactive* value is between 120 and 1). Pre-setting 30 km/h, adjustment range 1 to 120 km/h or *inactive*.

Delay

Automatic settings > Output X > Wind alarm > Delay

The wind alarm delay time determines for how long the wind threshold value must have been exceeded before wind alarm is triggered and the window is closed.

Adjust the value. Pre-setting 1 seconds, settings range 1 to 20 seconds.

Rain alarm

Automatic settings > Output X > Rain alarm

The rain alarm provides protection from humidity damage by closing the window. Manually opened windows are also closed if there is a rain alarm. A rain movement position can be selected for windows in protected areas so a gap remains open for air circulation.

ATTENTION
Damage from entering rain!
Depending on the amount of rain and the temperature, some time may pass until the
Weather station rainfall is detected.

- Do not place items that are sensitive to humidity near automatic windows.
- Calculate movement time for closing the window.

The rain alarm remains active for 5 minutes. If further rainfall is detected within these 5 minutes, the holding time restarts.

The following parameters are determined for the rain alarm settings:
Setting
Use alarm
Movement position during rain alarm (gap opening)

Use alarm

Automatic settings > Output X > Rain alarm > Use

Decide whether the window should be closed when it is raining.

Switch off the frost alarm (inactive) or switch it on (active). Pre-setting *Active*.

Travel position during rain

Automatic settings > Output X > Rain alarm > Movement position

When a rain alarm has been triggered, the window may close fully (travel position = 0%) or leave a small gap open (travel position between 1% and 100%). This setting can only be selected, if the rain alarm function has been activated.

Please note that no rain travel position can be selected, if the travel command after an alarm has been set to "yes, continuously active" in the base settings for the window (see chapter *Fahrbefehl bei Alarmfunktionen*, Page 43). In this case, the window is always fully closed in case of rain alarm. The settings for the travel position are not shown in the menu.

Adjust the value. Factory setting 0%. Selection range 0% to 100% (0% means closed, no gap ventilation).

Automatic reset

Automatic settings > Output X > Automatic reset

If the window is operated manually, it remains in manual mode, automatic mode is deactivated.

Here you can determine, whether the window is reset to automatic operation at a set time on a daily basis and/or with a short delay after manual operation. The times for the two automatic resets are determined in the general settings (see chapter *Automatic reset*, Page 50).

The following parameters are determined for the automatic reset settings:
Setting
daily automatic reset at a pre-determined time of day
Delayed automatic reset after manual operation

Daily automatic reset at a set time

Automatic settings > Output X > Automatic reset > Daily automatic reset

The general Automatic Reset occurs daily at the same time. If this function is activated for the window, automatic mode is activated at the stated time.

Switch off automatic reset at a fixed time (inactive) or switch it on (active). Pre-setting *Active*.

Delayed automatic reset after manual operation

Automatic settings > Output X > Automatic reset > Daily automatic reset

Alternatively, the automatic function can be reactivated at a set time following a manual intervention. Switch this delayed reset on or off.

Switch the delayed automatic reset on (Active) or off (Inactive) after manual operation. Pre-setting *Inactive*.

5.3.3. Light automatic mode

Automatic settings > Output X

The following light automatics are activated for outputs (memory locations) that were configured as lighting in the base settings.

Light may be switched according to time of day and brightness (twilight). If a setting is selected for both options, the light is only switched on when both conditions are satisfied (only when it is dark during the set time period).

Timer switch

Automatic settings > Output X > Time switch

Lights may be switched on in set periods. As soon as you additionally activate the twilight setting, the light will only be turned on at twilight in the selected time periods.

Two periods may be determined. Set the time for the start and end of lighting as well as the days of the week for period 1 and period 2.

Set the start and end of the period for the timer respectively. Use 24h mode to differentiate between mornings and afternoons.
Pre-setting *Inactive*.

Twilight switching

Automatic settings > Output X > Twilight switch

Lights can be switched on in twilight conditions and/or at night. As soon as you additionally activate a timer setting, the light will only be turned on at twilight in the selected time periods.

The threshold value that is used to determine twilight/night conditions can be adjusted in the general automatic settings (see chapter *Twilight threshold value*, Page 47).

Switch the twilight switch alarm on (*active*) or off (*inactive*). Pre-setting *Inactive*.

Dimming value

Automatic settings > Output X > Dimming value

This setting is only displayed for lamps that have been connected via a wireless dimmer.

The dimming value may be set for the light automatics (timed or twilight activation).

Please note that the automatic dimming value is limited by the conditions for the dimming range in the base settings. Only values within the range for minimum and maxi-

mum dimming value may be selected (see basic settings chapter *Dimmer: Minimaler Dimmwert*, Page 40 and *Maximaler Dimmwert*, Page 40).

Adjust the value. The adjustment range depends on the minimum and maximum dimming values selected in the base settings.

Automatic reset

Automatic settings > Output X > Automatic reset

If the light is operated manually, it remains in manual mode, automatic mode is deactivated.

Here you can determine, whether the light is reset to automatic operation at a set time on a daily basis and/or with a short delay after manual operation. The times for the two automatic resets are determined in the general settings (see chapter *Automatic reset*, Page 50).

The following parameters are determined for the automatic reset settings:
Setting
daily automatic reset at a pre-determined time of day
Delayed automatic reset after manual operation

Daily automatic reset at a set time

Automatic settings > Output X > Automatic reset > Daily automatic reset

The general Automatic Reset occurs daily at the same time. If this function is activated for the light, automatic mode is activated at the stated time.

Switch off automatic reset at a fixed time (inactive) or switch it on (active). Pre-setting *Active*.

Delayed automatic reset after manual operation

Automatic settings > Output X > Automatic reset > Daily automatic reset

Alternatively, the automatic function can be reactivated at a set time following a manual intervention. Switch this delayed reset on or off.

Switch the delayed automatic reset on (Active) or off (Inactive) after manual operation. Pre-setting *Inactive*.

5.3.4. Heating automatics

Automatic settings > Output X

The following heating automatics are activated for outputs (memory locations) that were configured as a heater in the base settings.

Temperatures for the day and night are set, and times for night-time operation. In addition, the timer for manual activation from night-time operation is selected.

Sensor selection

Automatic settings > Output X > Sensor selection

Select the indoor sensor that is to be evaluated for the controls of this heater. If you select *No sensor assigned*, the entire automatic mode for this heater is deactivated, and the following menu items are not shown.

The **Solexa Home Control Unit** base station has an integrated temperature sensor. If the indoor temperature is to be captured with this or another sensor, the corresponding sensor must be programmed via a wireless connection.

Switch to the desired sensor or to *No sensor assigned*.
Pre-setting *No sensor assigned*.

Temperature for day-time operation

Automatic settings > Output X > Temperature Day mode

This setting is only available, if a sensor for the indoor temperature has been selected, i.e. *not* if *No sensor assigned* has been chosen for the sensor selection (see previous chapter *Sensor selection*, Page 60).

Set the indoor temperature, at which the heating is to be switched on during the day. The heating is activated as soon as the temperature falls below the pre-set value. However, it is only switched off again when the temperature rises above the pre-set value (hysteresis) by more than 0.5°C.

For heaters on the RF-HE relay, the control regularly checks every 3 minutes, whether the set room temperature is still not reached and then, if necessary, switches to the second heating level in order to speed up heating, or otherwise switches down one level.

Adjust the value.
Pre-setting 20°C, adjustment range 1 to 50°C if night-time operation is not activated. Otherwise, the minimum day-time temperature is 1° above the set night-time temperature.

Periods for night-time operation

Automatic settings > Output X > Times for night mode

The heating may be switched to night-time operation during fixed periods. In those cases, the night-time temperature set in the next step applies.

Two periods may be determined. Set the time for the start and end of night-time mode as well as the days of the week for period 1 and period 2.

Set the start and end of the period for the timer respectively. Use 24h mode to differentiate between mornings and afternoons.
Pre-setting *Inactive*.

Temperatures for night-time operation

Automatic settings > Output X > Temperature Night mode

This setting is only available, if a period for night-time operation has been set (see previous chapter *Sensor selection*, Page 60).

Set the indoor temperature, at which the heating is to be switched on during night-time operation periods. The heating is activated as soon as the temperature falls below the pre-set value. However, it is only switched off again when the temperature rises above the pre-set value (hysteresis) by more than 0.5°C.

Adjust the value.
Pre-setting is 16°C. The range available for the night-time temperature depends on the settings made for the day-time temperature. The maximum night-time temperature is 1° below the set day-time temperature. Minimum temperature 0°C.

Switch-off delay for manual heating

Automatic settings > Output X > Switch-off delay Manual heating

If the heating is switched on manually, a timer ensures that it is automatically switched off again. This allows you to heat manually without having to think about turning the heating off again.

After the period has passed, the heating switches off again automatically and remains in manual mode. Automatic mode only becomes active again at the next automatic reset. If an automatic reset is scheduled before the period is completed, automatic mode is activated immediately.

Adjust the value.
Pre-setting 120 minutes, settings range 1 to 240 minutes.

Automatic reset

Automatic settings > Output X > Automatic reset

If the heating is operated manually, it remains in manual mode, automatic mode is deactivated.

Here you can determine, whether the heating is reset to automatic operation at a set time on a daily basis and/or with a short delay after manual operation. The times for

the two automatic resets are determined in the general settings (see chapter *Automatic reset*, Page 50).

The following parameters are determined for the automatic reset settings:
Setting
daily automatic reset at a pre-determined time of day
Delayed automatic reset after manual operation

Daily automatic reset at a set time

Automatic settings > Output X > Automatic reset > Daily automatic reset

The general Automatic Reset occurs daily at the same time. If this function is activated for the heating, automatic mode is activated at the stated time.

Switch off automatic reset at a fixed time (inactive) or switch it on (active). Pre-setting *Active*.

Delayed automatic reset after manual operation

Automatic settings > Output X > Automatic reset > Daily automatic reset

Alternatively, the automatic function can be reactivated at a set time following a manual intervention. Switch this delayed reset on or off.

Switch the delayed automatic reset on (Active) or off (Inactive) after manual operation. Pre-setting *Inactive*.

5.3.5. Automatic mode for roof gutter heating

Automatic settings > Output X

The following roof gutter heating automatics are activated for outputs (memory locations) that were configured as a gutter heating in the base settings.

Outdoor temperature range

Automatic settings > Output X > Outdoor temperature range

An outdoor temperature range is determined during which the heating is switched on.

Top value

Automatic settings > Output X > Outdoor temperature range > Switch-on temperature

The heating is switched on as soon as temperatures fall below this value. In order to switch off the heating, the top value must, however, be exceeded by more than 2°C (or the temperature falls below the bottom value by more than 2°C).

Adjust the value. Pre-set value 5°C, highest adjustable value 10°C. The adjustment range depends on the settings made for the bottom value. The top value is always at least 2°C above the bottom value.

Bottom value

Automatic settings > Output X > Outdoor temperature range > Switch-off temperature

The heating is switched off if the temperature falls more than 2°C below the bottom value (hysteresis). If the temperatures are very low, no condensation occurs and the heating is not required.

The heating is switched on as soon as the bottom value is exceeded.

Adjust the value. Pre-setting is -5°C. Minimum selectable value
-20°C. The range depends on the top value. The bottom value is always at least 2°C below the top value.

Automatic reset

Automatic settings > Output X > Automatic reset

If the roof gutter heating is operated manually, it remains in manual mode, automatic mode is deactivated.

Here you can determine, whether the heating is reset to automatic operation at a set time on a daily basis and/or with a short delay after manual operation. The times for the two automatic resets are determined in the general settings (see chapter *Automatic reset*, Page 50).

The following parameters are determined for the automatic reset settings:
Setting
daily automatic reset at a pre-determined time of day
Delayed automatic reset after manual operation

Daily automatic reset at a set time

Automatic settings > Output X > Automatic reset > Daily automatic reset

The general Automatic Reset occurs daily at the same time. If this function is activated for the heating, automatic mode is activated at the stated time.

Switch off automatic reset at a fixed time (inactive) or switch it on (active). Pre-setting *Active*.

Delayed automatic reset after manual operation

Automatic settings > Output X > Automatic reset > Daily automatic reset

Alternatively, the automatic function can be reactivated at a set time following a manual intervention. Switch this delayed reset on or off.

Switch the delayed automatic reset on (Active) or off (Inactive) after manual operation. Pre-setting *Inactive*.

5.3.6. Units for sun and wind

Solar intensity is displayed in Lux and/or Kilolux (kLux). The value 1 kLux is reached already with an overcast sky, at 20 kLux the sun starts being visible, and 100 kLux is reached during a cloudless sky at midday. In our experience, it is recommended that shades be extended from 40 kLux onwards.

The wind speed is indicated in kilometres per hour and is abbreviated to km/h in the control unit. Depending on the location of the building and the installation position of the weather station, the optimal wind value for protecting the shades and windows can vary. You should observe the behaviour of the shades or windows in windy conditions, and adjust the wind value accordingly.

The following tables are intended to help you identify the optimal values for your particular situation:

Description	km/h	m/s	Beaufort	Knots
No wind	< 1	< 0.3	0	< 1
Slight breeze	1-5	0.3-1.5	1	1-3
Slight wind	6-11	1.6-3.3	2	4-6
Light wind	12-19	3.4-5.4	3	7-10
Moderate wind	20-28	5.5-7.9	4	11-16
Fresh wind	29-38	8.0-10.7	5	17-21
Strong wind	39-49	10.8-13.8	6	22-27
Stiff wind	50-61	13.9-17.1	7	28-33
Stormy wind	62-74	17.2-20.7	8	34-40
Severe gale	75-88	20.8-24.4	9	41-47
Strong storm	89-102	24.5-28.4	10	48-55
Violent storm	103-117	28.5-32.6	11	56-63
Hurricane	> 117	> 32,6	12	> 63

6. Device settings

6.1. Cleaning mode

Device settings > Cleaning mode

Use this function to clean the touch display.
Touching the "Cleaning mode" menu item switches off the touch function of the control unit for 60 seconds. During this period, the control unit can be wiped with a damp cloth. Please always use this function to clean the control unit; otherwise, cleaning may trigger or adjust undesirable functions.

6.2. Display

Device settings > Screen

Here you can activate screen brightness, set the screen to switch off and adjust the inverted display.
These screen settings are only active when the control unit is in the base station. Outside the base station, the control unit enters sleep mode after 5 minutes and the display switches off (see also Chapter *2.1.1. Charging the battery*, Page 12).

6.2.1. Screen brightness / Brightness control

Device settings > Screen > Screen brightness / Brightness control

The screen brightness can be adjusted either to a fixed value using a slider in percent or automatically based on the lighting conditions in the room (the darker the room, the darker the screen brightness). Pre-setting: *fixed value*.

6.2.2. Switch off screen

Device settings > Screen > Switch off screen

This is where you set whether the screen remains permanently switched on (Inactive), switches off automatically after a specified time (Active) or when the room is dark (When room is dark). Pre-setting *Inactive*.

6.2.3. Delay

Device settings > Screen > Delay

If the screen switches off automatically, you can set the delay here. Pre-setting 1 minute, settings range 5 seconds to 2 hours.

6.2.4. Inverted display

Device settings > Screen > Inverted display

In the default display, the font is white and the background is black. This can be changed using the inverted control unit display (black font, white background).

6.3. Screen saver

Device settings > Screen saver

This is where you enter the screen saver settings:

6.3.1. Screen saver

Device settings > Screen saver > Screen saver

Select the screen saver:

- None (pre-setting)
- Time

6.3.2. Delay

Device settings > Screen saver > Delay

Set the time (Delay) here, after which the screen saver becomes active. Pre-setting 1 minute, settings range 5 seconds to 2 hours.

6.4. Key tone

Device settings > Button tone

This is where you enter the button tone settings:

6.4.1. Key tone

Device settings > Button tone > Button tone

Tap on the button to activate or deactivate the button tone. Pre-setting *Inactive*. Use the slider to set the volume.

6.5. Language

Device settings > Language

Select the language:

- Danish
- German (default setting)
- English
- Spanish
- French
- Italian
- Norwegian

6.6. Service area

Device settings > (i) Service

ATTENTION
Material damage due to improper use of the service functions!
The service settings are not needed in the normal function of the controls.

The service area shows the software version of the control unit and weather station. The control unit can also be restarted and returned to factory settings.

6.6.1. Restart control unit

Device settings > (i) Service > Restart control unit

Reset starts the control unit software again. The automatic mode settings are retained.

6.6.2. Switch off control unit

Device settings > (i) Service > Switch off control unit

This function should be used if the control unit is stored outside the base station for a long period of time without being used. Switch it off to conserve battery power.
To restart the control unit, place it in the base station.

6.6.3. Reset to factory settings

Device settings > (i) Service > Reset to factory settings

Resetting to factory settings will delete all the control unit settings. There is then no longer any radio connection between this control unit and the weather station, which means that the control unit can no longer be used for manual operation.

The settings saved in the weather station remain intact, the automatic functions continue to work.

The reset has to be confirmed again.

6.6.4. Internal area

Device settings > (i) Service > Internal area

ATTENTION
Property damage due to incorrect use of the internal area function!
The internal area is not needed in the normal function of the central controls.

The internal area is only needed by the manufacturer's service and offers the option to change basic properties of the device. The area is protected by an access card.

6.6.5. Device information Control unit

Device settings > Service > Device information Control unit

The current software version and serial number of the control unit are displayed.

6.6.6. Device information Weather station

Device settings > Service > Device information Weather station

The current software version and serial number of the weather station are displayed.

6.6.7. Manufacturer information

Device settings > Service > Manufacturer information

The address of Elsner Elektronik GmbH is displayed.

6.6.8. Correct outdoor temperature

Device settings > Service > Correct outdoor temperature

You can correct the outdoor temperature on the weather station here. Pre-setting 0°C, range -5 to +5°C.

7. Troubleshooting

7.1. No GPS reception

Problem: Weather station not receiving GP (GPS shown in red letters in the top area of the control unit):

Cause	Procedure
Weather station shielded	Position the weather station so that there is nothing covering it
Without station without power	Connect the weather station to a power supply

If the problem continues, please contact an electrician.

7.2. No wind value

Problem: No wind measurement value is displayed on the control unit's start screen.

Cause	Procedure
Wireless contact between weather station and control unit interrupted	Choose a different / nearer location for the control unit.
Wind sensor dirty	Carefully clean the wind sensor using a cotton bud in order to remove dead insects or spider webs.

If the problem continues, please contact an electrician.

7.3. Drives does not respond

Problem: A drive drives does not respond when activated.

Cause	Procedure
Lock active	Check whether there is an active alarm command such as Wind, Rain or First alarm or if another lock is active
Wireless contact between drive and control unit interrupted	Choose a different / nearer location for the control unit or drive.
Drive without power	Connect the drive to a power supply

If the problem continues, please contact an electrician.

7.4. Error communicating with the weather station

Problem: No connection between control unit and weather station.

Cause	Procedure
Without station without power	Connect the weather station to a power supply

If the problem continues, please contact an electrician.

7.5. No connection to the Solexa Mobile app

Problem: No connection between control unit and the Solexa Mobile app.

Cause	Procedure
Base station without power	Connect the base station to a power supply
Different networks	Make sure the base station and smartphone are on the same network
WLAN router prevents communication	Check that the WLAN router settings allow communication between devices
No location access	Allow location access on your smartphone

If the problem continues, please contact an electrician.

Questions about the product?

You can reach the technical service of Elsner Elektronik under
Tel. +49 (0) 70 33 / 30 945-250 or
service@elsner-elektronik.de

We need the following information to process your service request:

- Type of appliance (model name or item number)
- Description of the problem
- Serial number or software version
- Source of supply (dealer/installer who bought the device from Elsner Elektronik)

elsner

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