



Solexa Home

Flexible wireless Solutions for Residential Buildings

Frederik Riedel & Fabian Gehring | 07.10.26



Frederik Riedel

- Head and Trainer in Technical Service at Elsner Elektronik GmbH
- Support, Product Consulting

» We are
your
speakers
today



Fabian Gehring

- Junior Sales Specialist Controls & Conventional
- Sales

Retrofitting Automation

| When a simple idea quickly turns into a complex project



AGENDA

1. Overview of control systems
2. Suitable motors
3. Introducing Solexa Home
4. Wireless accessories
5. Installation and commissioning
6. Example selection
7. Troubleshooting



01 | OVERVIEW OF CONTROL SYSTEMS

The background of the slide is a photograph of a modern, multi-story building with a prominent overhanging roof. The roof is covered with solar panels. The building has large windows and a balcony with a glass railing. The foreground shows a green lawn and a small stone wall.

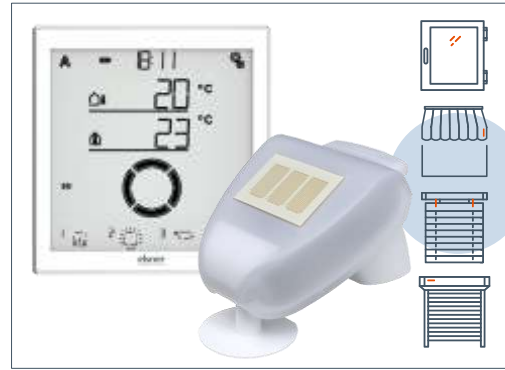
Elsner Controls – single-channel

| The compact control solution



Solexa Home (10156)

- 1x wired drive
- Up to 16 radio actuators
- Up to 32 Elsner RF control devices/sensors
- Intuitive display
- Control unit with base station and integrated temperature sensor
- Integrated mobile app interface



Solexa II (10150)

- 1x wired drive
- Up to 16 radio actuators
- Up to 32 Elsner RF control devices/sensors
- Touch radio display with integrated temperature sensor



Solexa 230 V (10110)

- 1x shading automation
- Detection of temperature, precipitation, wind speed, brightness
- Wireless control unit with integrated temperature sensor



Arexa 230 V (10115)

- 1x window automation
- Detection of temperature, precipitation, (brightness), wind speed
- Wireless control unit with integrated temperature sensor

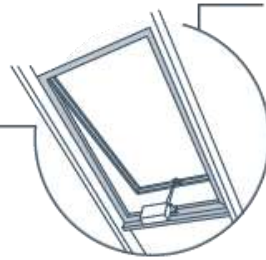
Solexa 230V

| Wiring diagram

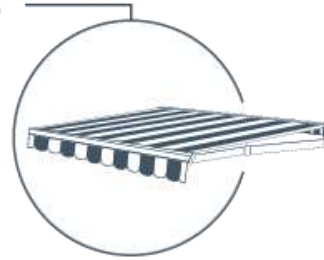
Weather Station



Cable connection
for shading or
for the window



Drives



Windows (for Arøxa) or Shading (for Solexa)

Radio
connection



Control unit

230 V power supply

Elsner controls – multi-channel

| For versatile shading and ventilation requirements



WS1000 Connect



WS1000 Color/ Style



WS1 Color/ Style

02 | SUITABLE MOTORS

An aerial photograph of a modern, multi-story building with a flat roof and large windows. The building is surrounded by lush green trees and a swimming pool. The image is overlaid with a semi-transparent white box containing the text '02 | SUITABLE MOTORS'.

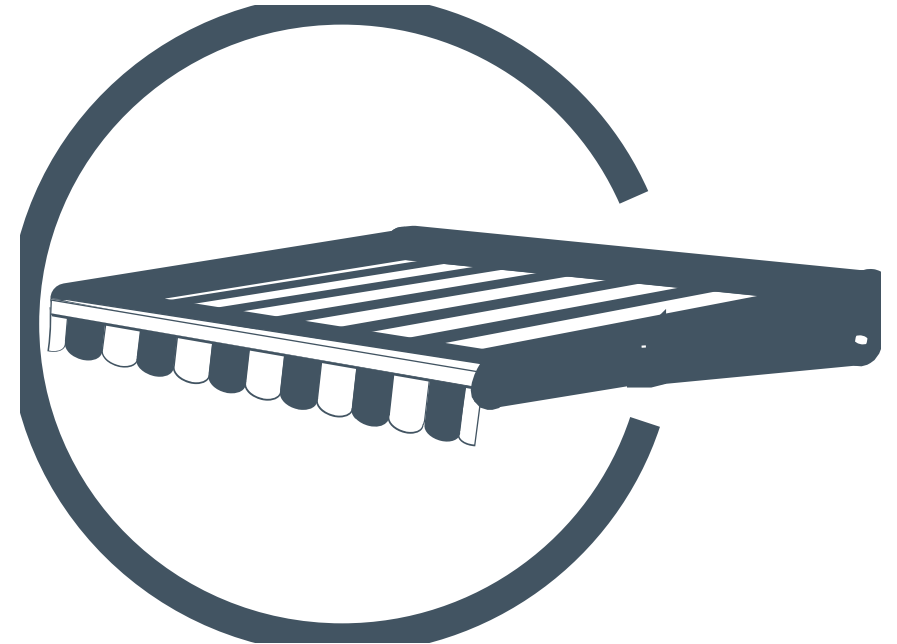
Which motors are suitable?

| Suitable for Solexa:

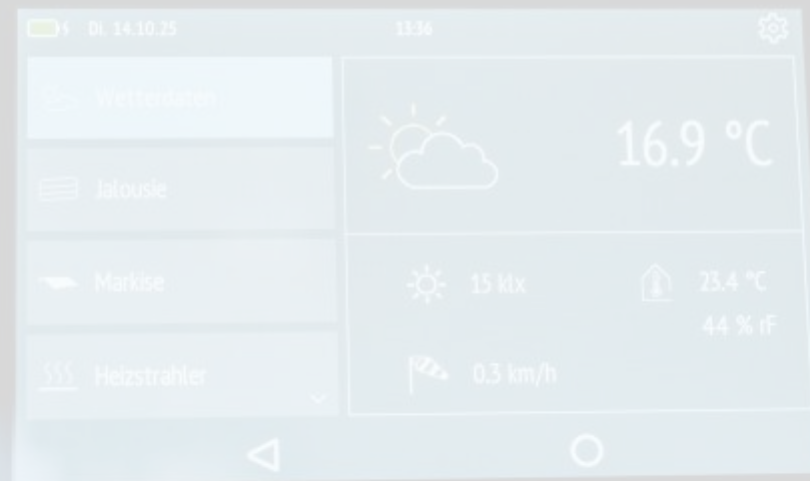
- Every tubular motor with an up/down control for 230V and with an integrated limit switch can be controlled with the Solexa.

Not suitable for Solexa:

- Radio motors cannot be controlled



03 | Introducing Solexa Home



Introduction

| Solexa Home

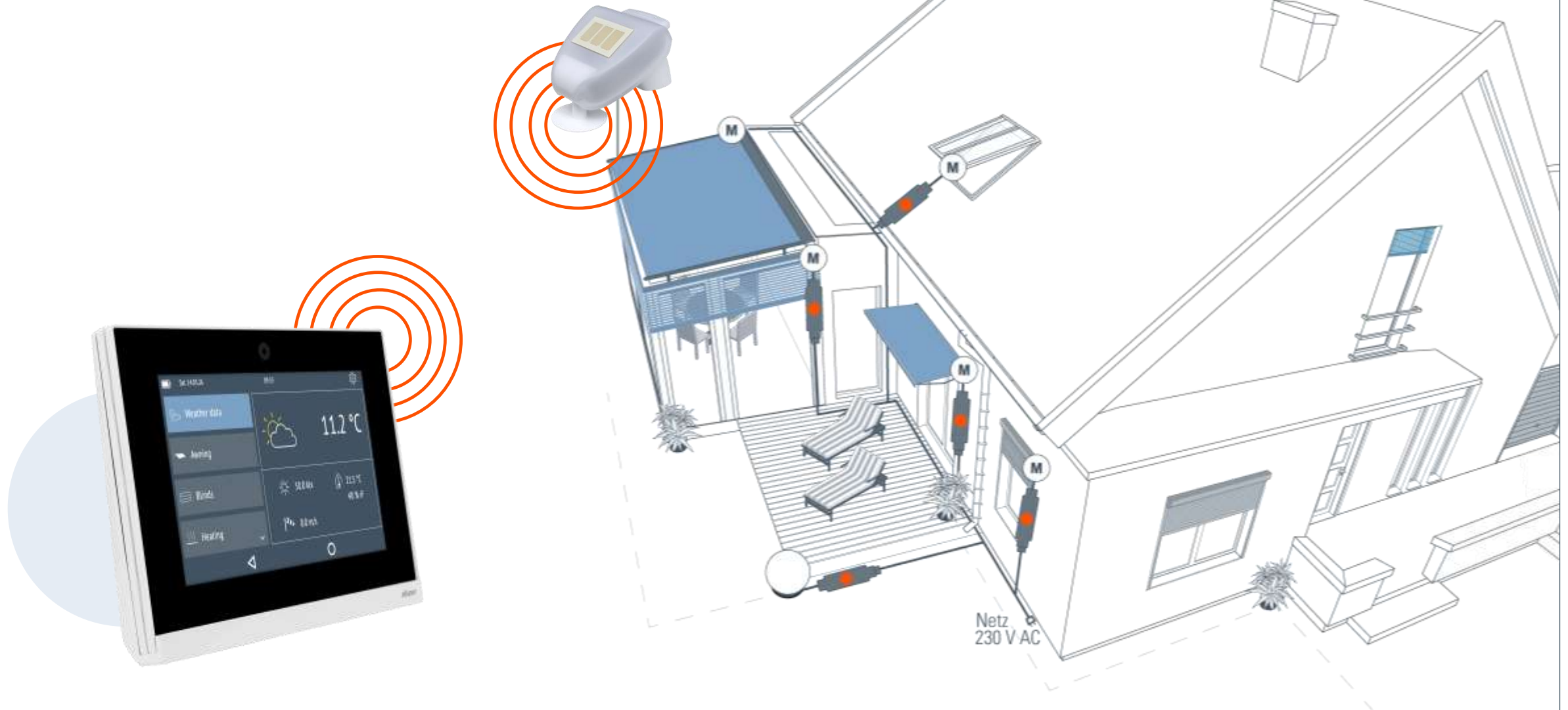


Discover our
new Solexa Home control

Watch the video on YouTube ▶

Solexa Home

| Application principle



Solexa Home

| One set – everything controlled



Sideboard solution



Wall mounting



Solexa Home

| Scope of delivery



Solexa Home

| Overview I

Wireless control for solar shading, light & indoor climate

- Radio-based automatic control for solar shading, windows, lighting and heating
- Central control via control unit with touch display, base station and weather station
- Automatic functions based on time, temperature, brightness, sun position, wind and precipitation



Solexa Home

| Overview II

- Manual operation via control unit, wireless remote control or Solexa Mobile App
- Weather station with sensors for brightness, temperature, wind, rain and GPS
- Expandable with up to 16 radio actuators and 32 control/sensor units



Solexa Home



| Convenient automation for reliable use

 Shading by brightness, temperature, sun position and time

 Ventilation based on temperature and time

 Safety function - rain, wind and frost protection

 Lighting based on brightness and time

 Heating based on temperature and time

 Weekly & daily programs – individually customisable



3.1 WHAT'S NEW?



Solexa Home

| Highlights – What's New?

All-in-one control for solar shading, light & indoor climate

- Intuitive menu navigation for effortless operation and configuration
- New high-contrast WVGA display for clear visualization
- Compact and ultra-light control unit, flexibly usable as a weather display or remote control



Solexa Home

| Highlights – What's New?

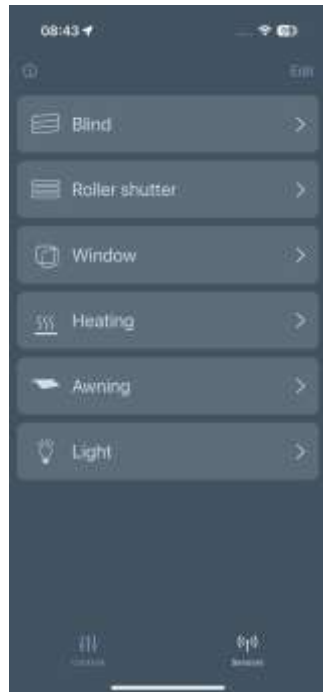
- App function integrated from the start and set up in no time – no interface required!
- Inductive charging in the base station, completely without cable clutter
- Humidity sensor integrated into the base station



Solexa Mobile App

Overview

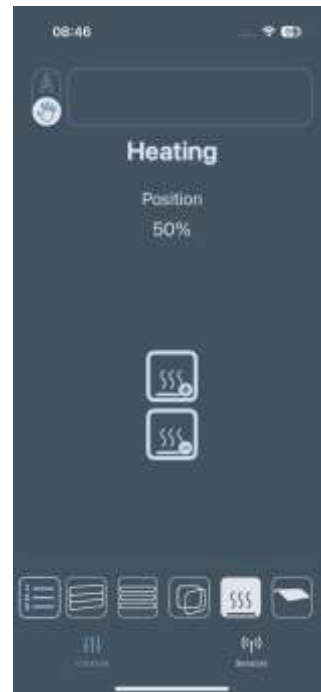
Example Overview



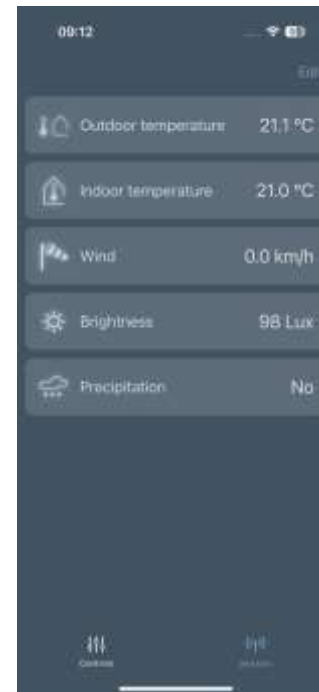
Example Drive



Example Heating



Example Sensor



Solexa Mobile App

- Wi-Fi interface SOL required (Solexa II)

- Integrated in Solexa Home

1: Manual/Automatic

2: Move/Switch command

3: Text display

4: Weather data

Solexa Home

| Facts

- Are the base station + display of the Solexa Home also available separately?
✓ **YES!**
- Is Solexa Home compatible with existing radio actuators?
✓ **YES!**
- Is my weather station compatible with the new control panel?
✓ **YES!** For weather stations produced on or after February 17, 2026



04 | WIRELESS ACCESSORIES

A modern living room interior with a light-colored sofa, a wooden coffee table, and a large window with a view of greenery. A black remote control is placed on the coffee table.

Elsner wireless controls

| The compact control solution



Remo 8i (60521)

- Handheld transmitter with control buttons
- Functions: Up/Down/Stop, On/Off, Dimming
- Up to 8 freely assignable radio channels
- Clone function for series projects
- Individual channel naming
- Adjustable font size



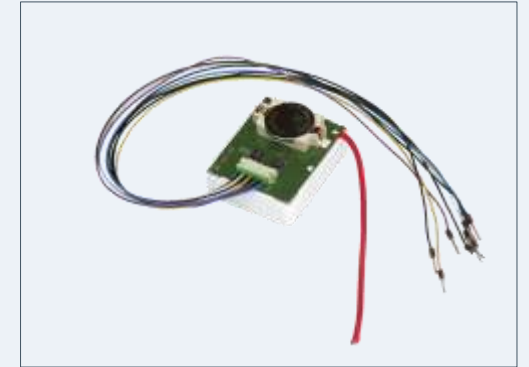
Remo Pro (60522)

- Handheld transmitter with touch control panel
- Functions: Up/Down/Stop, On/Off, Dimming
- Up to 32 freely assignable radio channels*
- Group control
- Individual channel naming



Remo 8 (60511)

- Handheld transmitter with control buttons
- Functions: Up/Down/Stop, On/Off, Dimming
- Up to 8 freely assignable radio channels



RF-B2-UP (60540)

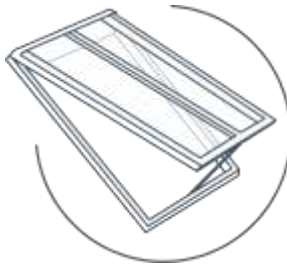
- Wireless button interface
- Connection for 2 buttons/switches

Wireless actuators

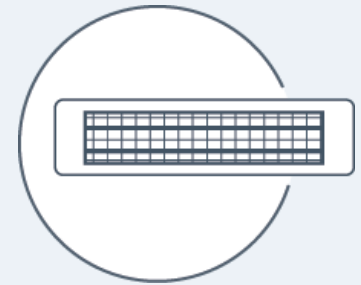
| Overview of RF modules



RF-MSG



RF-L-PWM



Optional

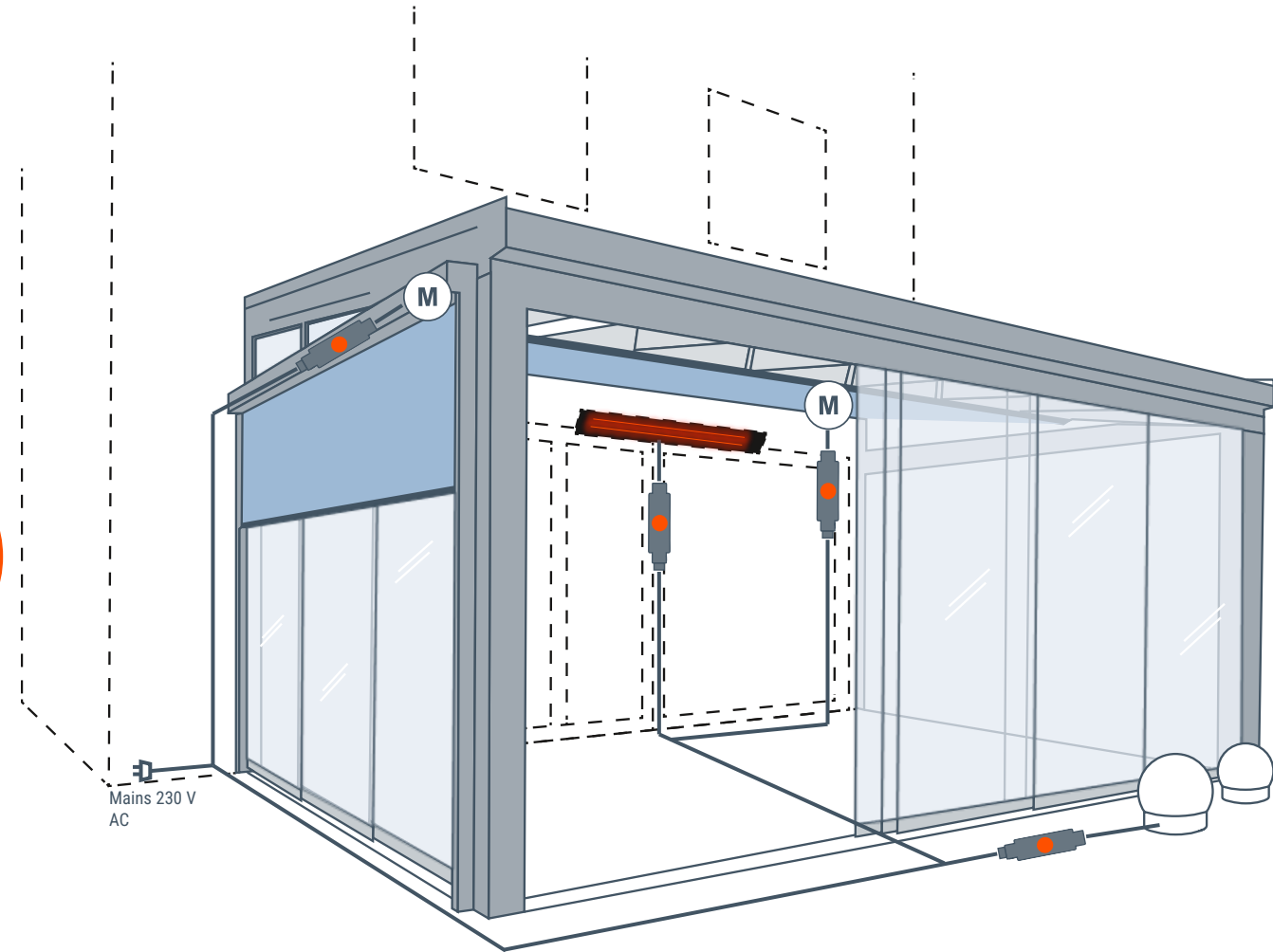
On request, also plug-in adapters for:

- two-stage radiant heaters
- wireless relays

Manual control without sensors

| Application principle

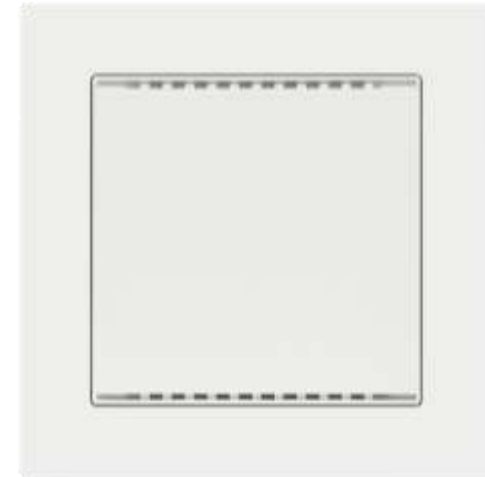
- Manufacturer-independent installation
- Easy and flexible retrofitting
- Time-saving installation and commissioning



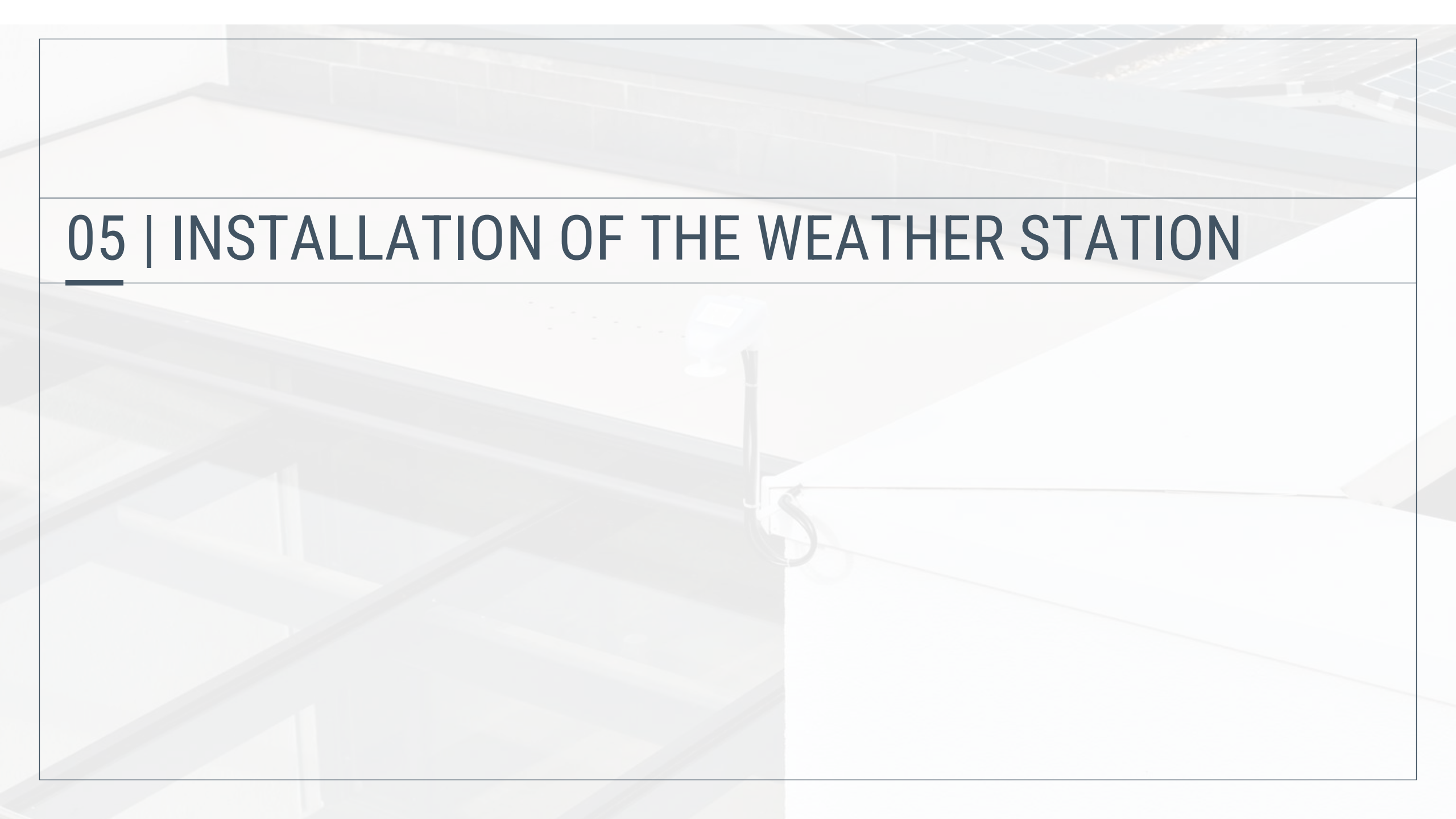
More wireless accessories

| Overview

- [WGTH gl](#) (20557) Indoor sensor (temperature, humidity)
- [WGT](#) (20552) Temperature sensor



05 | INSTALLATION OF THE WEATHER STATION

The background of the slide is a faded, high-angle photograph of a rooftop solar farm. In the center, a white weather station is mounted on a metal rail. The station has a small display screen and a sensor dome. A black cable runs down the side of the rail from the station. The solar panels are arranged in neat rows, and the overall scene is brightly lit, suggesting a clear day.

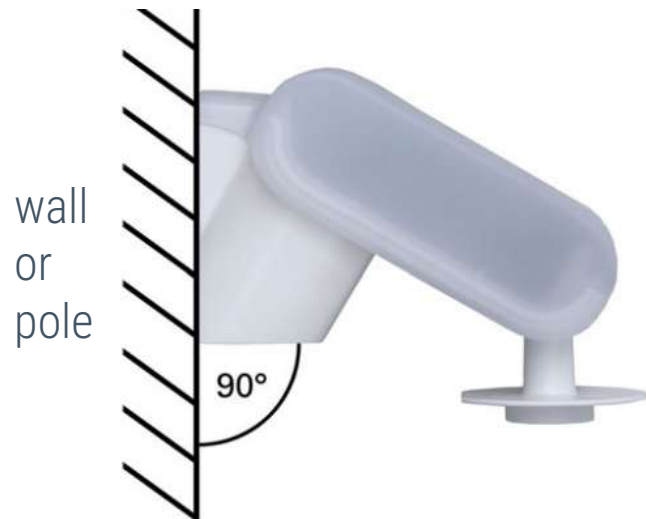
More incorrect installations

| Please don't do this!



Mounting the weather station

| What to keep in mind



north
south

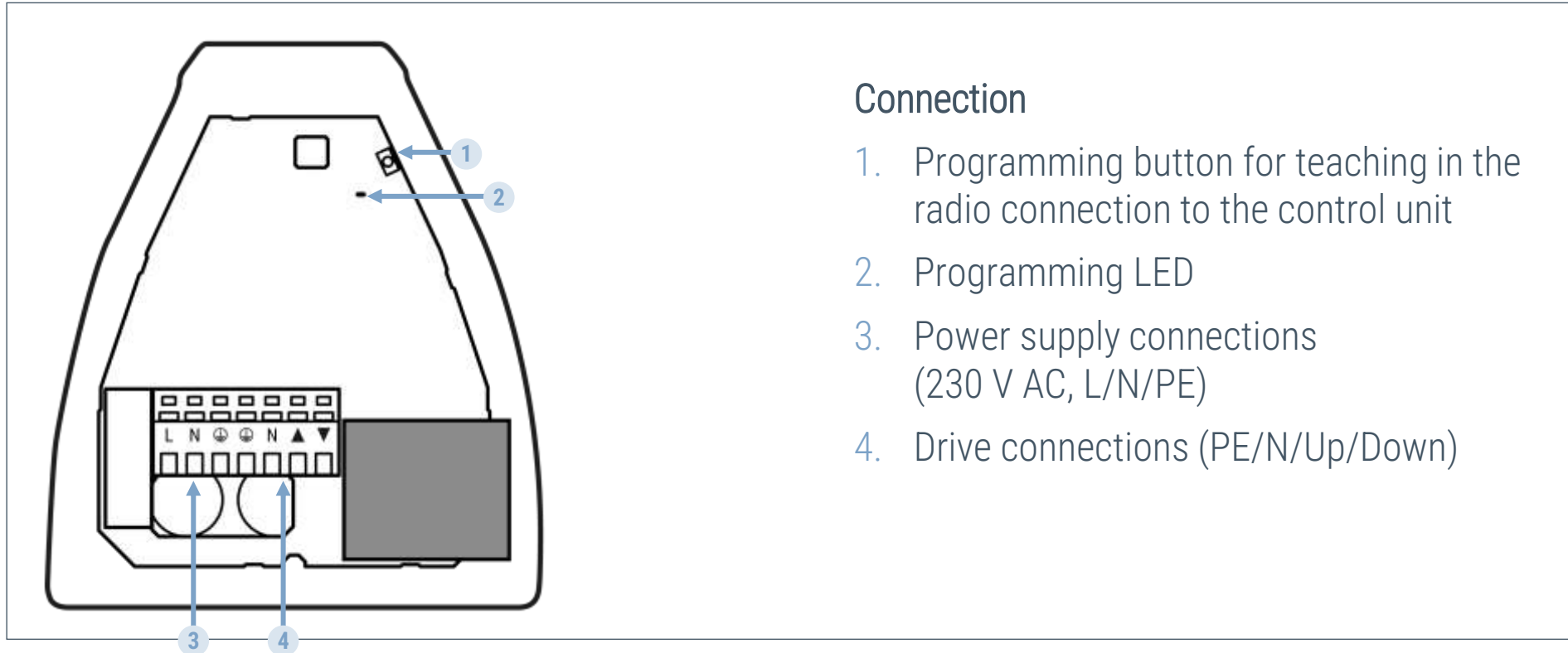


Mounting the weather station



Connecting the Solexa

| Diagram

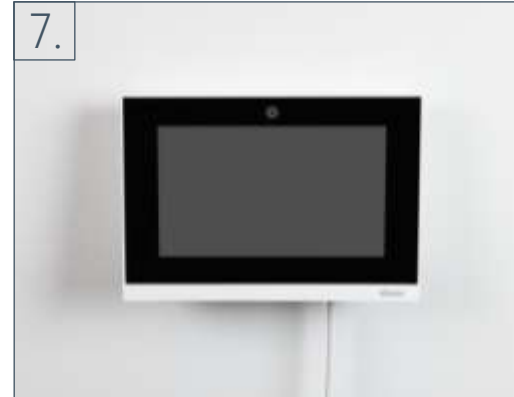
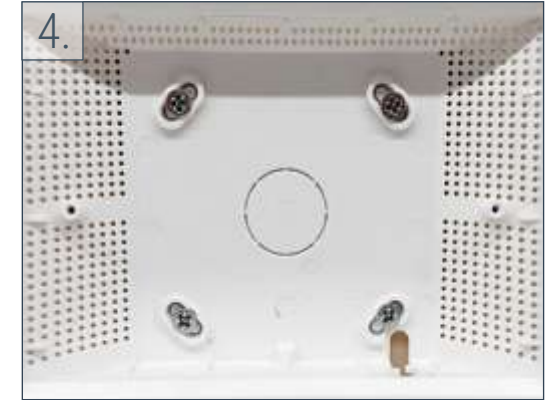
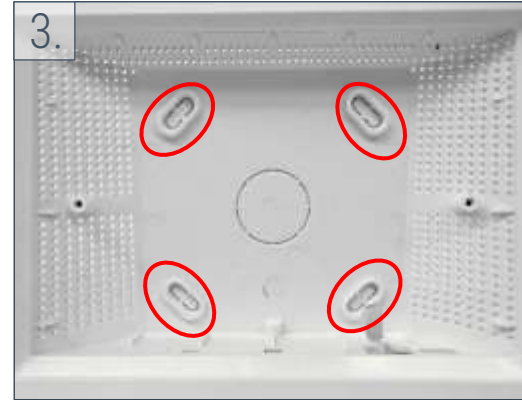


Connection

1. Programming button for teaching in the radio connection to the control unit
2. Programming LED
3. Power supply connections (230 V AC, L/N/PE)
4. Drive connections (PE/N/Up/Down)

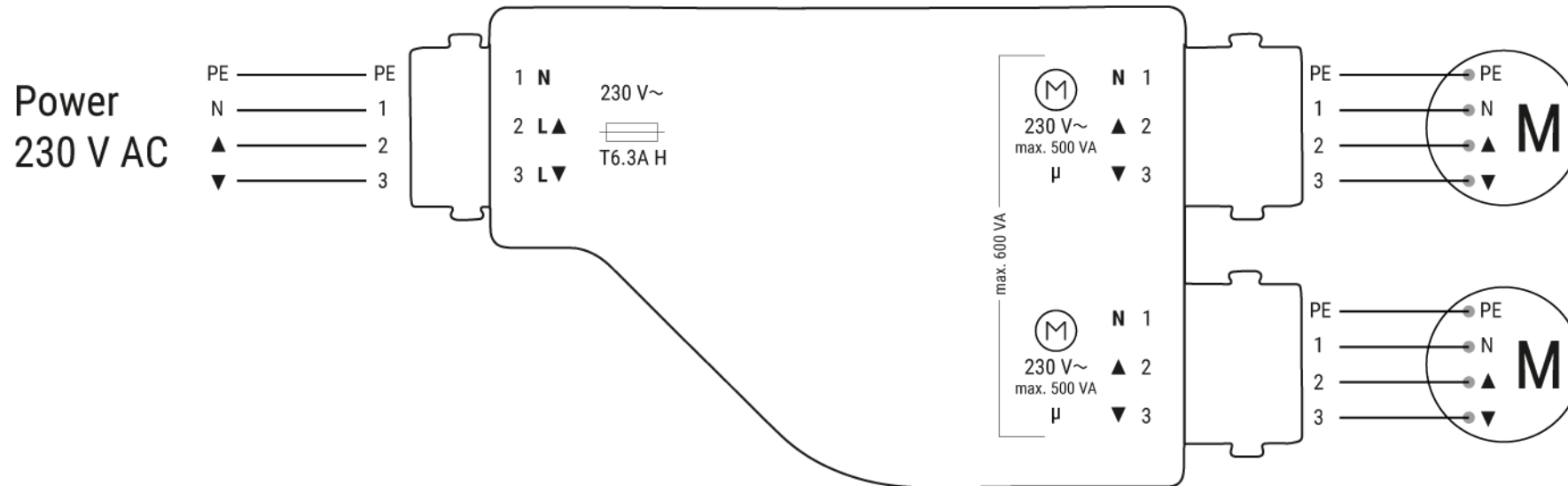
Wall mounting of the base station

| What to keep in mind



Special case: group control / parallel operation of drives

| Sketch



With the GS2-DST group control relay, two drives can be operated in parallel (e.g. shading or windows) as a group on a single control output. Cascading is possible (connecting several devices in series)

Caution!! The output power of the motor output must be taken into account.

05.1 | COMMISSIONING



Establishing the radio connection

| Between weather station and control unit

Establishing the radio connection between the weather station and the Solexa Home base station.

- Option 1: Teach-in via a power reset of the weather station
- Option 2: Teach-in via the teach-in button in the weather station

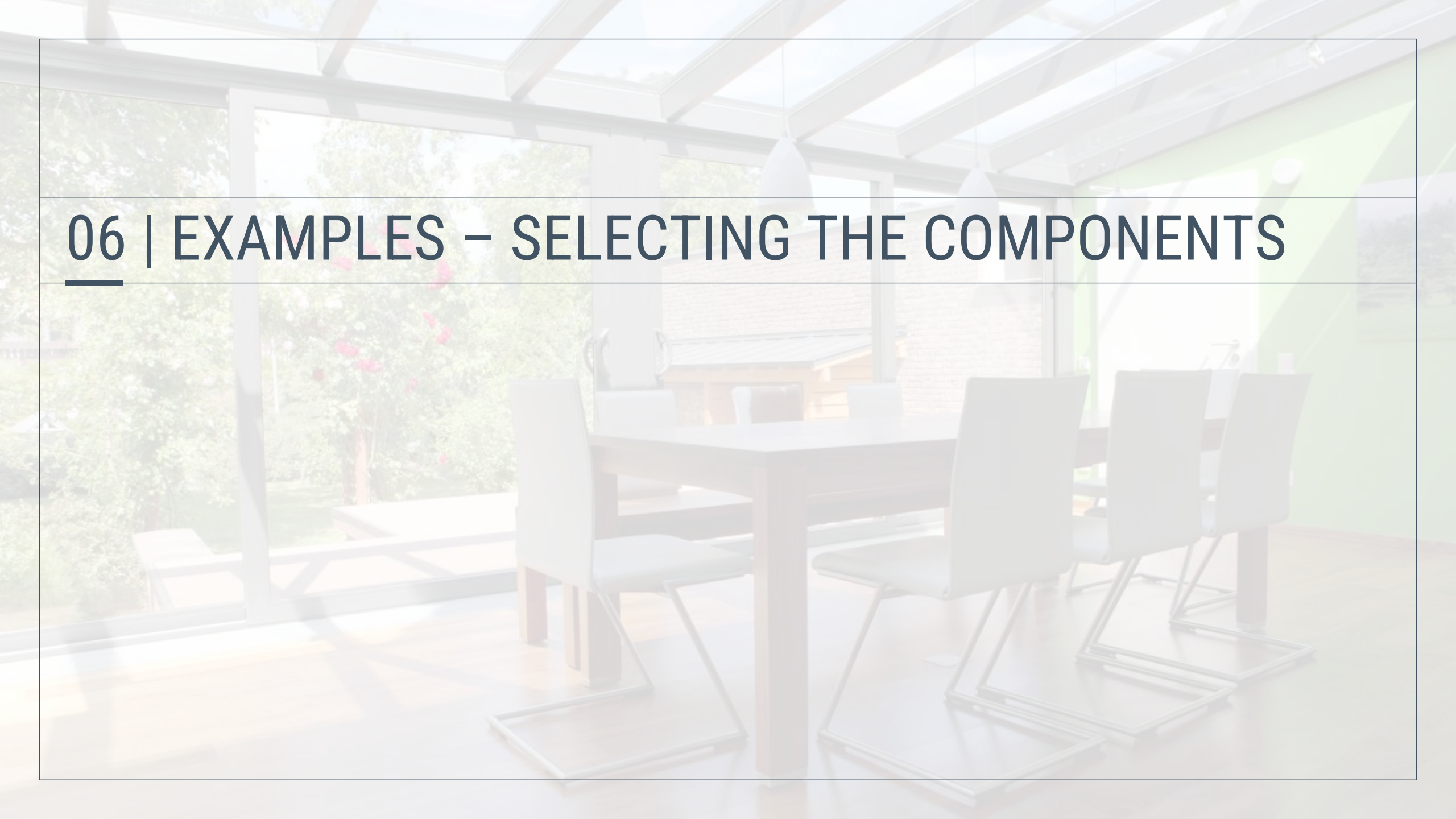


Teaching in the radio connection – demonstration



We will now show you live how to establish the radio connection between the weather station and the base station.

06 | EXAMPLES – SELECTING THE COMPONENTS

A modern dining room with a large wooden table, white chairs, and a glass roof, overlooking a garden. The room features a wooden floor, a glass roof, and large windows that provide a view of the outdoors. The text "06 | EXAMPLES – SELECTING THE COMPONENTS" is overlaid on the image.

Example 01

| Controlling ventilation – options

Drives used:

- 2x windows (controlled as a group)
- Motor is not suitable for parallel operation

Option 1:

- ✓ 1x Arexa 230V
- ✓ 1x GS2-DST

Option 2:

- ✓ 1x Solexa Home
- ✓ 1x GS2-DST



Image source: https://www.masson-wintergarten.de/wp-content/uploads/2023/01/masson_wintergarten_detail_fenster.jpg

Example 02

| Controlling shading – options

Shading systems used:

- 3x blinds
- 2x awnings
- Awnings are additionally to be operated with a manual button

Option 1:

- ✓ 1x WS1 Style-0
- ✓ 5x RF-MSG-ST

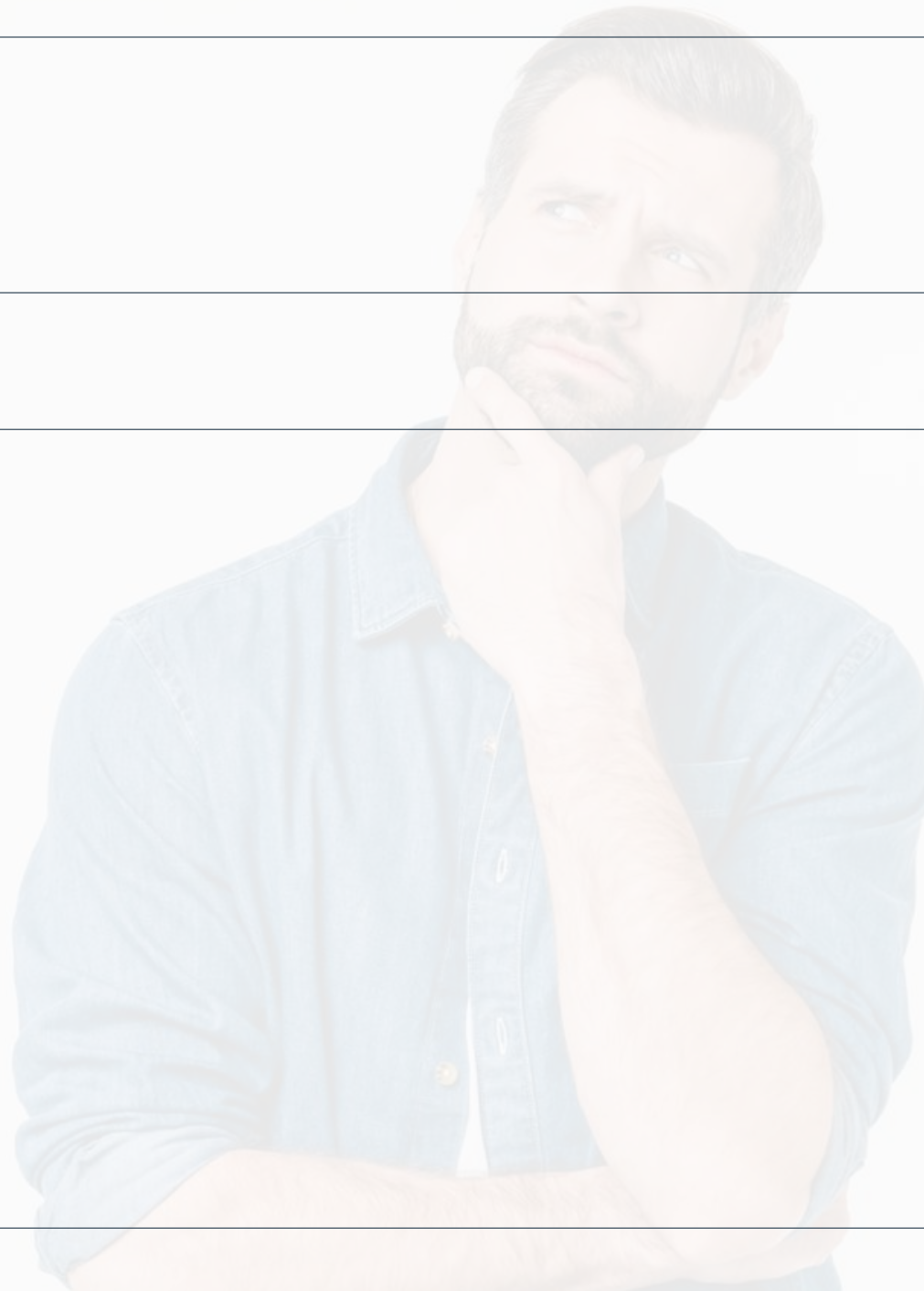
Option 2:

- ✓ 1x Solexa Home Set
- ✓ 4x RF-MSG-ST
- ✓ 1x RF-B2-UP button interface



Image source: https://wintergarten-eberl.de/wp-content/uploads/2022/04/showroom_bildergalerie_05_bb.jpg

07 | FAULT CASES



Error messages

| "Drive does not respond to operation"

- You must check whether an alarm command such as wind, rain or frost alarm is active.
- If this is not the case, the radio connection status must be checked.
- If there is no radio connection, the wiring and the voltage at the radio device must be checked. Have the device checked by a qualified electrician if the problem persists



Error messages

| "Communication error with the weather station"

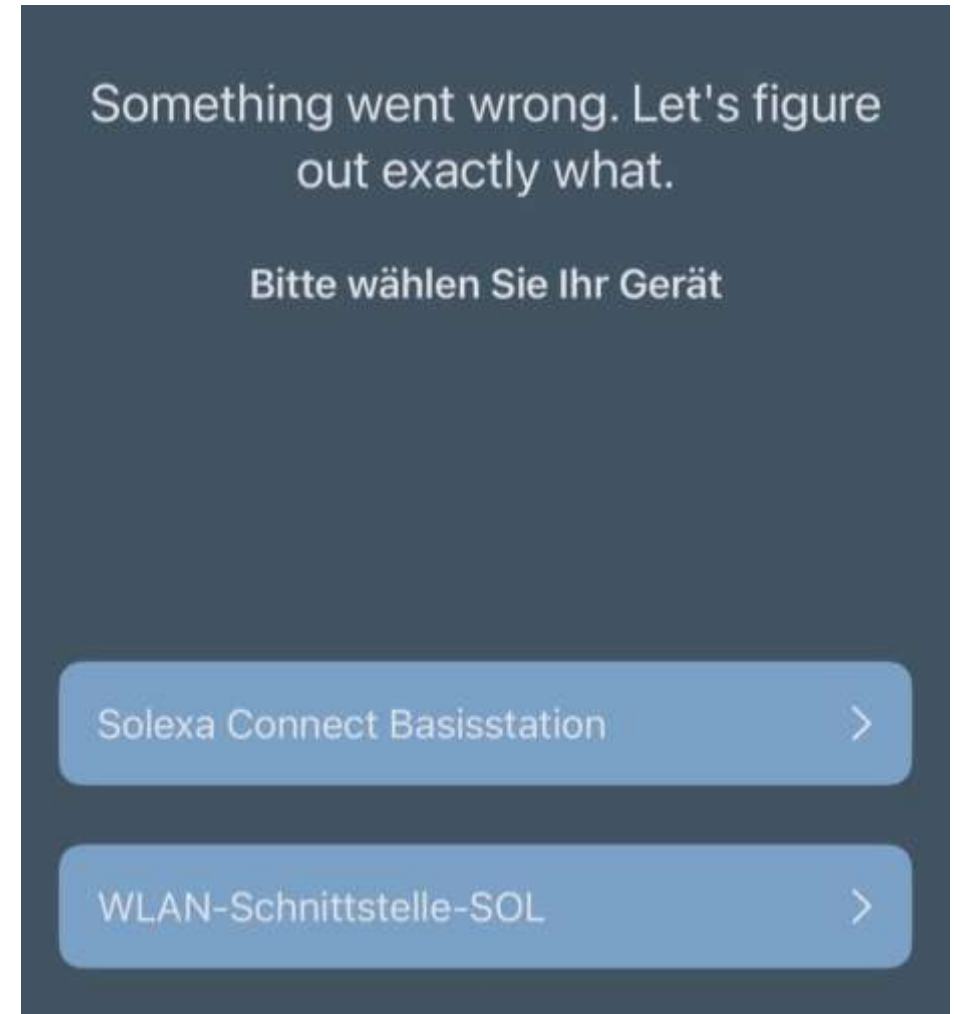
- If this error message is shown, the radio connection to the weather station is disrupted or the sensor is faulty.
- Check whether the weather station is supplied with power (fuse). Have the device checked by a qualified electrician if the problem persists.



Error messages

| "App connection failed"

- The base station must be connected to the power supply.
- Check whether the phone and the base station are on the same Wi-Fi network.
- In the Wi-Fi router settings, communication between devices must be allowed.
- Location access must be enabled for the Solexa app in the smartphone settings.
- The router must broadcast on 2.4 GHz instead of 5 GHz.



Benefits

| Benefits at a glance



Simple commissioning



All sensors in one
compact device



More intuitive user
interface



Integrated
app interface

Further information

| Technical and product articles on our website



Automatic shading control for solar shading, lighting and climate

Solexa Home: The wireless control that makes everyday life noticeably easier – without a cloud.

>> [More about Solexa Home](#)



Remo 8i wireless remote control for conservatories and buildings

With the Remo 8i wireless remote control you operate shading, ventilation and light manually – simple, clear and without an app.

>> [More about Remo 8i](#)



When weather stations deliver incorrect readings

Using real support cases, Frederik Riedel shows how installation errors can distort weather data and affect building automation.

>> [More about the installation errors](#)



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