Automatic
Ventilation control

User Manual 6.0

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INTRODUCTION

Congratulations on purchasing your new **automatic ventilation control!**
You have opted for a high-quality dew point control system that will now take care of your humid rooms.

The operating instructions are part of this product, hereinafter referred to as the device or control unit.
They contain important information on safety, use and disposal. Before use, familiarize yourself with all
operating and safety instructions. Only use the product as described and for the specified
areas of application. Keep these operating instructions in a safe place.

Please hand over all documents when passing the product on to third parties.
If you have any questions, please feel free to contact us at any time.

Intended Use

This device is intended exclusively for:

- The removal of high humidity in damp rooms through ventilation (e.g. in basements, garages, laundry rooms)
- Dehumidification in the case of moisture caused by use and a tight building envelope
- Dehumidification of condensate on walls, floors and ceilings

It must be ensured that moisture ingress through defective components, gutters, roofs, etc. is excluded
through suitable repairs.

**The connected fans (230V) must not <u>exceed</u> a maximum output of 1800 W! You can
connect as many fans as you want (as long as the maximum output is not
exceeded). If you have more than 2 fans, you can simply connect them in parallel, for
example using junction boxes.**

Any other use or modification is considered improper and carries a significant risk of accidents. The
manufacturer accepts no liability for damage resulting from improper use, improper use or failure
to observe these operating instructions.

FUNCTIONAL DESCRIPTION

Various types of ventilation systems are used to dehumidify buildings. Temperature and humidity
sensors compare the internal and external temperatures and humidity. The control unit compares these
values. If the absolute humidity in the building is higher, a 230 V ventilation system is switched on via a
load relay. The fans are only switched on when it is drier outside than inside and the room can
therefore be dried.

GUARANTEE

The guarantee begins on the invoice or delivery date and is valid for 24 months. During the guarantee period, any defects will be remedied free of charge. If a defect is discovered, you are obliged to report it to the manufacturer immediately. It is at the manufacturer's discretion whether to fulfill the guarantee by sending replacement parts or repairs. If replacement parts are sent, the manufacturer is entitled to exchange the product without loss of guarantee. Repairs at the installation site are not possible. The control unit is not suitable for commercial or industrial use. Failure to use the product in accordance with this will result in a reduction or loss of the guarantee. The guarantee only applies to material or manufacturing defects. The guarantee is void if parts are worn or damaged due to misuse or improper handling, the use of force or interventions carried out without prior consultation with our service department. If possible, please keep the original packaging for the duration of the guarantee period in order to adequately protect the goods in the event of a return.

Do not send any goods to the service department without postage. Claiming warranty services does not extend the warranty period. Claims for compensation for damage that may occur outside of the device (unless liability is mandatory under statutory law) are excluded.

Opening the device above the terminal box will void the warranty.

SAFETY INSTRUCTIONS

CAUTION! Failure to follow the safety instructions and warnings listed below may result in electric shock, fire and/or serious injury.

1. Please read this manual completely before use.
2. If the device is passed on to a third party, this operating manual must also be handed over.

3. This device complies with the technical standards and the relevant safety requirements for electrical equipment.
4. The device must not be used by children.
5. The appliance and its connecting cables must be kept away from children.
6. Children should be supervised to ensure that they do not play with the appliance. This also applies to cleaning the appliance.
7. Do not allow persons unfamiliar with the appliance or who have not read these instructions to use the appliance.
8. **RISK OF ELECTRICITY AND SHORT CIRCUIT!** Do not open the housing under any circumstances. Do not insert any objects into the housing. In this case, safety is not guaranteed and the warranty becomes void. Only the

The junction box may only be opened by qualified personnel to connect the cables. Never operate the device with the junction box open.

9. RISK OF FIRE AND SHORT CIRCUIT! Do not immerse the device or any of its accessories in water or use it near water. Do not allow liquids to enter the device or sensors.

10. **RISK OF ELECTRIC SHOCK!** If the device falls into water or liquids get inside the device, unplug it immediately. Before using the device again, check it and have it repaired by qualified personnel if necessary.

11. **RISK OF ELECTRIC SHOCK!** Do not use the device outdoors. Only the sensor designed for outdoor use may be installed outdoors in a northerly direction, protected from rain and without exposure to sunlight.

12. **RISK OF ELECTRIC SHOCK!** Never touch the device or the power plug with wet or damp hands and do not operate it while standing on a wet floor.

13. Install the device and the accessories intended for installation only in locations that ensure secure fastening.

14. Do not operate, store or place the device on or near hot surfaces or open flames such as hotplates, ovens, radiators or candles.

15. Do not place any objects on the device.

16. **RISK OF ELECTRIC SHOCK!** Before connecting to the mains supply, check that the current type and mains voltage correspond to the information on the rating plate.

17. Check the appliance, power plug and power cord for damage regularly and before each use.

18. **RISK OF ELECTRIC SHOCK!** Do not operate the appliance if it is damaged or if it has been dropped or damaged in any way.

19. In case of malfunctions or visible damage, contact the Customer service.

20. In order to avoid a hazard, defective components may only be replaced by the manufacturer, its service agent or similarly qualified personnel.

21. Connect the device only to a properly installed power socket at.

22. If the power cord of this appliance is damaged, it must be replaced by the manufacturer, its service agent or a similarly qualified person in order to avoid a hazard.

23. Connect the power plug to an easily accessible power socket so that you can quickly disconnect the device from the power supply in an emergency. In the event of danger, immediately pull the power plug out of the power socket.

24. If the power cord is damaged or cut, do not touch the power cord; unplug the appliance immediately. Damaged or tangled power cords increase the risk of electric shock. Therefore, always unwind the power cord and extension cord completely.

25. Do not use the power cord for carrying, hanging or unplugging the appliance. Do not wrap the power cord around the appliance. Keep the power cord away from heat, oil and sharp edges.

Make sure that the power cord is not crushed, pulled tight, kinked or chafed.

26. Route the power cord so that it cannot be accidentally pulled or tripped over.

27. Before replacing accessories or additional parts that move during operation, the device must be switched off and disconnected from the mains.

28. **Risk of injury!** Disconnect the device from the power supply before cleaning, when not in use, during a thunderstorm, in the event of a malfunction, in a faulty or dangerous situation, and before assembling or disassembling the device.

SCOPE OF DELIVERY

• 1x control unit

• 2x sensors for inside and outside

• This manual

Check the delivery for completeness and visible damage. The above-mentioned parts must be included in the packaging. Only use accessories that are specified in the operating instructions. The use of parts or accessories other than those listed here may pose a risk of injury to you or cause irreparable damage to the device and will void the warranty.

BEFORE FIRST USE

Remove all packaging materials and check the device and accessories for damage.

Please read this manual carefully before using the device.

RISK OF INJURY! Only plug the device into the power socket after assembly and shortly before use.

Installation instructions

The **control unit** must be installed in an easily accessible location on a dry wall near a power socket.

If you ordered the app (or want to reorder it) and don't know whether you have WiFi reception at the location you have chosen for the control unit, you can either use your cell phone to check whether it has sufficient reception or switch the device on briefly and perform a WiFi scan. How to do this scan is explained in the chapter "IMPORTANT KEY COMBINATIONS AT A GLANCE" on the last page (point no. 2). Then return here to continue with the installation. Everything else about setting up the app, sensors and fans is explained later in these instructions.

The outdoor sensor must be installed in a location protected from driving rain, above the splash zone (50 cm), preferably on the north side, otherwise in the shade. Direct sunlight distorts the measurement result by heating it up. Direct rain destroys the sensors.

The **indoor sensor** should be installed in the area of greatest moisture exposure, preferably on an interior wall.

If you have purchased wireless sensors:

The radio sensors should be placed within a radius of max. 10m around the control unit to ensure a constant radio connection. This connection is also possible through several walls.

You will achieve the greatest range if the antennas are bent vertically upwards.

The exact range depends on the conditions in your house, such as wall thickness, pipe and cable routing, and the number of sources of interference from other electrical devices. If you need a larger range, you can simply try it out.

· **Drill and insert dowels into the drill holes.** The control unit is
   mounted with a total of 3 screws. First the upper, middle screw to fix the
   device and the other screws in the next step (as explained below). The
   sensors are mounted to the corresponding walls with one screw each.

Note: Do not breathe on the sensors. Otherwise they may lose their sensitivity.

· **Open the connection box of the now hanging control unit.** Unscrew
   To do this, remove the two lower screws on the connection box and take off the cover. Now you

   can mark the two lower fastening screws on the device and drill the

   corresponding holes so that the control unit is now fixed with all 3 screws.
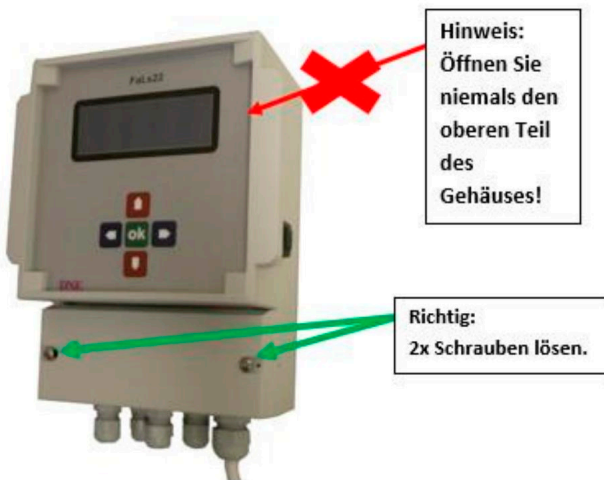
The inside looks like this:
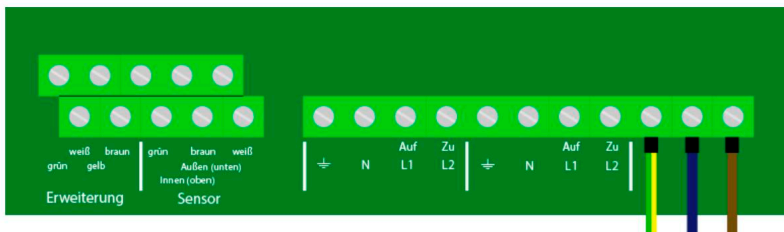
Mount and connect cable sensors (not required if you only have radio sensors)

Now mount the cable sensors in the locations you have chosen.
The outdoor sensor must be installed in a location protected from driving rain, above the splash zone (50 cm), preferably on the north side, otherwise in the shade. Direct sunlight distorts the measurement result by heating it up. Direct rain destroys the sensors.
The indoor sensor should be installed in the area of greatest moisture exposure, preferably on an interior wall.

Note: When laying the sensor cable, please make sure that there is no 5m of cable rolled up somewhere at the end. This rolled up cable forms a coil that can catch interference and induce voltages in the sensor cable, which in turn can damage the control unit.

Connect the outdoor sensor cable (if you have purchased a wired outdoor sensor). To do this, put the cable through the left PG socket and screw it into the terminals provided. Make sure that the cable is colour coded correctly **(bottom terminal** from the left: **green - brown - white).**
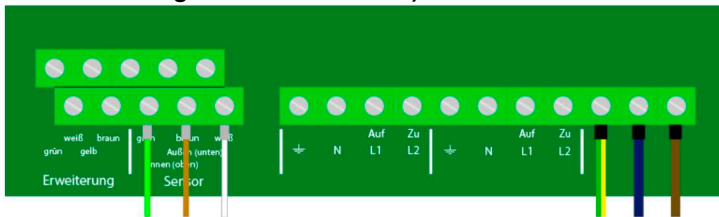
Connect indoor sensor cable (If you purchased a wired indoor sensor). Top terminal from left: **Green - Brown - White.**
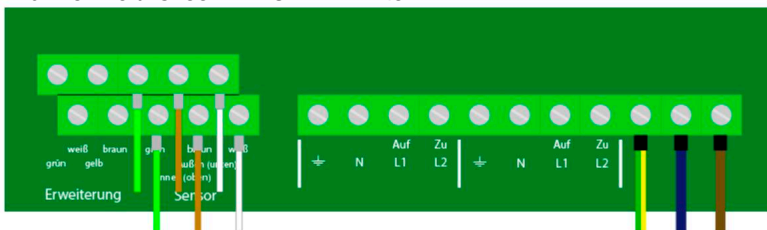

Attention! Do not insert batteries into the cable sensors. They are powered by the control unit.
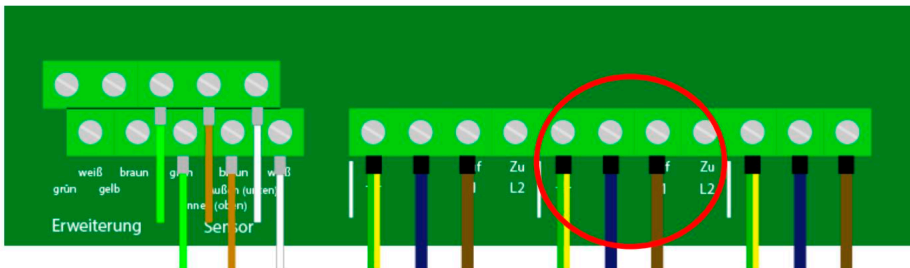
Operation with fans

With a fan:

If you want to operate the control unit with a fan, connect the fan cable to the terminals provided (from left to right: protective conductor - neutral conductor - phase). You can connect the fan to the terminals labeled Fan 1 or Fan 2. The terminal labeled "Closed" is not required in this case.

Note: Depending on the fan you have chosen, a fan cable with 2 connection wires (without protective conductor) or with 3 connection wires (with protective conductor) may be required **(not included in this scope of delivery).** You can find more information in the documentation for the fans. For the sake of completeness, all three connections are shown in the image below. Your connection may therefore differ slightly from this ima Leave this step to a professional! The fan you choose must be suitable for 230V.
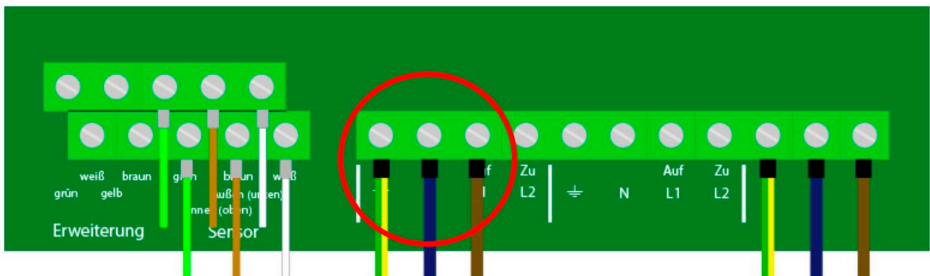
With two fans:

If you want to operate the control unit with two fans, connect the fan cables to the terminals provided (from left to right: protective conductor - neutral conductor - phase). The terminals marked "Closed" are not required in this case. The fans you select must be suitable for 230V.
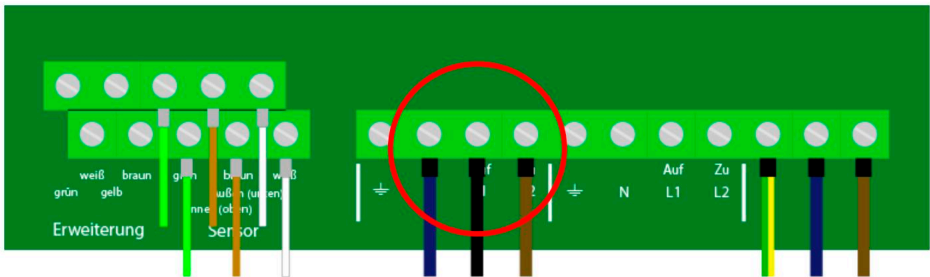
Operation with window openers

Note: Before connecting the window opener and attaching the chain to the window sash, please read the instructions for your window opener to adjust the chain length. If you need to adjust or change the chain on the window opener after connecting it, please note that the window opener must be switched off once after adjustment for it to take effect.

Operation with a window opener:

If you want to operate the controller with a window opener, connect the window opener cable as shown in the following picture. You can connect the window opener to the terminals labeled Window Opener 1 or Window Opener 2.
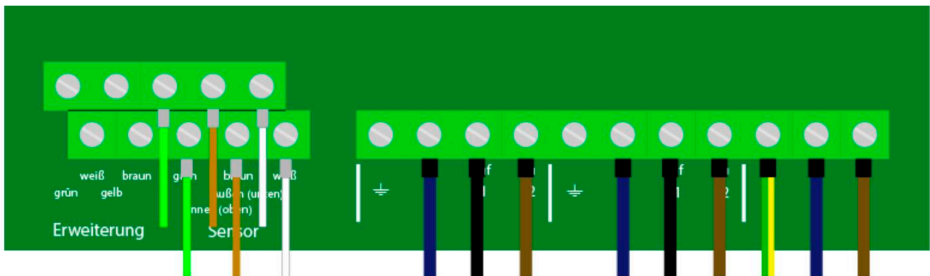
The window opener shown here has three connecting wires. Black: opening phase; brown: closing phase and blue: neutral conductor. If you are using a window opener that has a protective conductor, you can connect it to the protective conductor terminal.

Operation with two window openers:

If you want to operate the control unit with two window openers, connect the cables of the window openers as shown in the following picture.
The window openers shown here have three connecting wires. Black: opening phase; brown: closing phase and blue: neutral conductor.

Operation with a window opener and a fan

If you want to operate the controller with a window opener and a fan, connect the cables as shown in the following picture.

The window opener shown here has three connecting wires. Black: opening phase; brown: closing phase and blue: neutral conductor. If you are using a window opener that has a protective conductor, you can connect it to the protective conductor terminal.

The fan shown also has three connecting wires (from left to right: protective conductor - neutral conductor - phase). Your selected fan must be suitable for 230V.
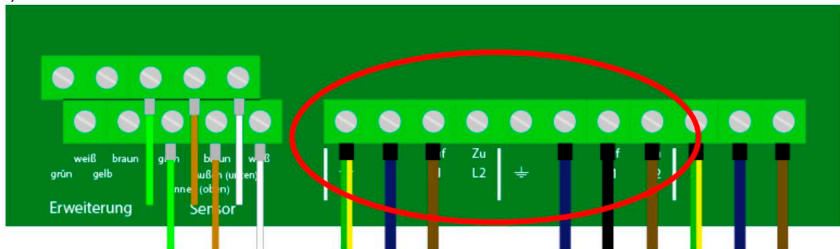
Operation via radio receiver

In the previous operating modes, the ventilation components were connected directly by cable. However, you can also connect the components wirelessly by purchasing our radio receiver. This means that no cables need to be laid from the fan to the control unit. Simply connect the cable of the fan or window opener to the radio receiver shown here (for more information, see the instructions for the radio receiver) and plug it into a socket. **The fan or window opener is powered via the socket and communicates with the control unit wirelessly.**


You can have as many radio receivers as you like controlled by one control unit. Usually only one fan or window opener is connected to a radio receiver. The fans you select must be suitable for 230V.

How the radio receiver is connected correctly is very explained in the **"CONNECTING THE RADIO RECEIVER"** chapter . You can then return here and continue setting up the control unit on the next page.
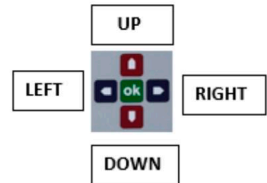
FIRST USE: SENSORS AND APP FURNISH

Close the junction box again.
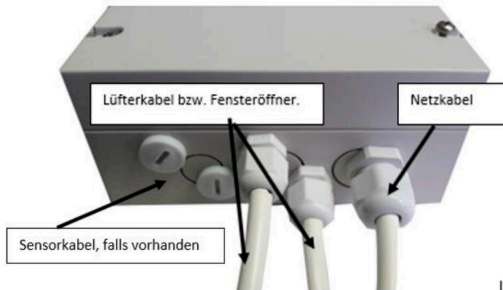
Once you have completed the assembly, you can

Now plug the power cord into a power outlet and press the **On/Off switch** on the right side of the housing

The device will now switch on.

<mark>When starting for the first time, hold down the LEFT button until the following display appears.</mark>

You **only** need to hold down the power button when you start the device for the first time (to set up the sensors) **or if you want to change the type of sensors after installation** (from wireless to wired or from wired to wireless).

Since you can choose between wired sensors and wireless sensors when purchasing, you must tell the control unit which type of sensor you are using for inside and outside. You can use the **UP** and **DOWN** buttons to choose between "wired" and "wireless". Confirm with **OK.**

Selecting the receiver channel

A notice:

This section is only important if you are using radio receivers. If you have only connected your ventilation components via cable, leave the channel at 0 and simply press the OK button. You can now continue reading on the next page.

Note: "Radio receiver" does not refer to the radio sensors.

In the section **Operation via radio receiver** you have your fans or
Window opener connected to the radio receiver and plugged into a socket.
Communication via radio can be done this way. However, it is possible to install several control units in a house that switch independently of each other
Even in apartment buildings, it can happen that each apartment has its own system. So that the control unit only switches the radio receivers that belong to the system and not all of them, each system must transmit on its own channel (similar to WLAN networks).

You can choose between 8 channels, which are set by pressing the UP and DOWN buttons. Finally, confirm with OK.

**If you only operate one system in the house, you can use the channel as you wish. choose.**
Just make sure that you have set the same channel in the control unit and the radio receiver. To do this, please read the radio receiver instructions in the chapter **"CONNECTING THE RADIO RECEIVER".**

Funkempfänger Kanal:
1
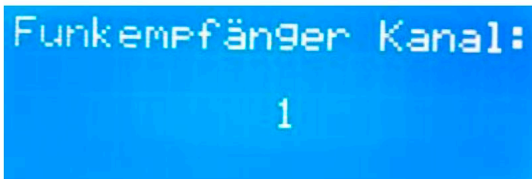
App settings:

> **Note:** If you did not order app access, you can skip the next pages and continue with the **"Setting up sensors"** chapter.

Here you can choose whether the device should send data for the use of our ventilation app. **The prerequisite for this is that you have ordered access to the app.** You can find out how to download this app in the "App setup" chapter. If you do not want to use the app, use the UP and DOWN buttons to set the setting to **NO.** Otherwise, set it to **YES.**
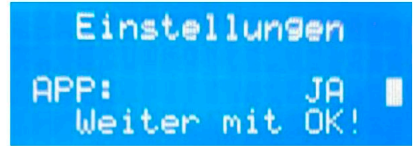
> **General information on using the app:**
>
> The control unit is connected to your WiFi network (only 2.4 GHz) and then sends the current values (humidity, temperature, etc.) to the cloud every hour. You can then view this data at any time using the ventilation app on your smartphone or computer. If you make changes to your WiFi network at any time, you can adjust the app settings in the control unit at any time by holding down the left button for a few seconds when restarting. You will then return to this menu.

Set app ID (not required if you did not order app access):
On the back of this manual there is an app ID that you must now enter into the device. This ensures that the app data can be clearly assigned to the device. Each device has its own app ID. To enter the ID, use the **UP** and DOWN buttons.

or **DOWN.** Then press the **RIGHT** button and
Repeat this with the next 4 characters. With **LEFT**
You can also go back one character if you want to correct one. When you
have entered the 5th character, press **OK.**

Use WPS (not required if you did not order app access): Since the device communicates with the app via WLAN, you must either enter the name of your WLAN network into the device or use WPS. **WPS means that you press a WPS button on your WLAN router and the router waits for approx.**

2 minutes, the control unit will send the access data so that you do not have to enter it manually. This is much more convenient than the

Manually enter the network name and
password. The only requirement is
that your router has a WPS button.
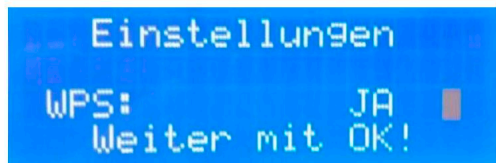
but it can be easily checked by looking. With newer routers this should not be a problem.

So if you want to use WPS, press **UP** or **DOWN** to select YES and press **OK.** If you can't use WPS, select NO.

**Press the WPS button (not required if you have not ordered app access) or WPS NO):** If you want to use WPS, you must
now press the WPS button on the router.
Then press **OK on the control unit.** The connection will now be tested. If it works, "Connected" will appear on the screen. If not, you will be asked to press the WPS button again. Usually, however, it will work immediately. Note that the WPS signal is only active for about 2 minutes after pressing the button.

Note: If you have never used WPS before and it doesn't work, it may be that it is turned off in the router's settings. Just turn it on and it should work. Sometimes the WPS button also needs to be held down for a few seconds.

If the connection test was successful, you can skip the next pages and continue with the **"Setting up sensors"** chapter.
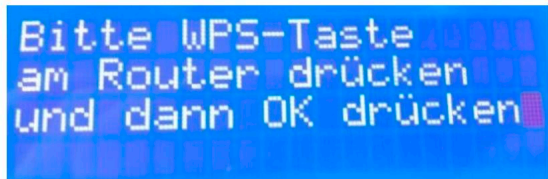

If not, we have a WiFi checklist with the most common causes of errors on the next pages.

Enter WLAN name (not required if you did not order app access or selected WPS YES):

If you do not want to use WPS, you must enter the name of your WLAN network here. There are two ways to do this, which are explained here one after the other: manual entry or entry via a mobile phone.

Option 1: Enter WLAN access data via a mobile phone:
When the image on the right is displayed, the control unit is creating a WLAN access point that you can connect to with your mobile phone. Search the available WLAN networks and connect to the network **"Taupunkt_init"** (no password). When you are connected, a message appears saying that you have no Internet connection. This is correct because you are only
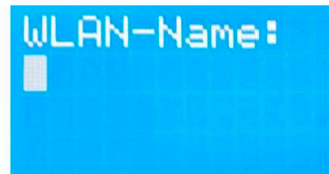
connecting briefly to the control unit and not to a WLAN router. Now go to **http://192.168.4.1/input** in a browser and enter your WLAN access data there. Then press Save and the data will be saved in the device.

saved and a Wi-Fi test was carried out straight away. If it is successful, you (i.e. your mobile phone) can now reconnect to your normal home network and continue with the chapter **"Setting up sensors" .**

If not, please check your input. In addition, we have included a WLAN checklist with the most common causes of errors on the next pages. The WLAN test automatically terminates the access point (otherwise it will not work because the control unit cannot connect to you and the router at the same time). Therefore, if the input is incorrect, you must reconnect to the access point.

connected and the page reloaded.

Note: Make sure that the mobile phone does not change the input (e.g. does not put a space after a field).

Option 2: Manually enter the WLAN access data using the buttons on the control unit: If the image on the right is shown on the display and you are not using option 1, you can also enter the individual characters of your WLAN name manually using the buttons on the control unit. Use the **UP** or **DOWN** buttons to select the first character of the WLAN name.
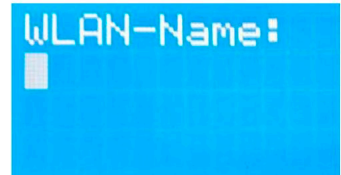
name and press the **RIGHT button.** Now repeat this with the next character so long until you enter the last character. When you have set the last character with **Up** or **DOWN ,** do not press **RIGHT** but **OK.** This tells the control unit that the name entry is now over. You can also go back one character with **LEFT ,**

Enter the Wi-Fi password (not required if you did not order app access or selected WPS Yes):

Next, enter the WLAN password. Do this in the same way as the WLAN name. Use the
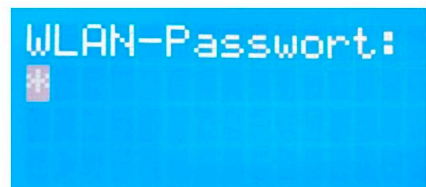
Use **the Up** or **DOWN** keys to select the appropriate character and press **RIGHT** to enter the next character or **OK** to complete the entry. You can also use **LEFT** to go back one character,

Once you have entered everything, the connection will be tested. If the connection was successful, you can continue with this user guide.

If an error occurs, you will be asked to re-enter the WiFi name and password. An error only occurs if the access data has been set incorrectly or the WiFi connection is too weak (router too far away). **Since the control unit has a range about as great as a cell phone, you can simply use a cell phone to check whether there is reception at all.**

Note: If you need to re-enter the data, the data you entered previously will already be visible. This way you don't have to re-enter everything. If you don't change a character, press the RIGHT key until you get to the character you want to change. You can then change it using UP and DOWN. Then press the RIGHT key again until the cursor is on the last character. At this point, press OK again to complete the entry.

Note: If your WLAN access data changes at a later date, you can re-enter it by restarting the device while holding down the LEFT button.

Please note that you set the characters with UP and DOWN, jump to the next character with RIGHT and complete the entry with OK at the last character.
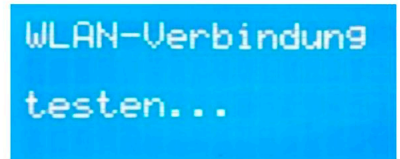
Note: If you do not want to change either the name or the password later, you can simply press the OK button (first at the name and then again at the password) while the cursor is blinking on the first character of the name and password. Then the name and then the password will not be changed.

overwritten. However, as soon as you press a button other than the OK button, you overwrite the old access data and it must be set up again. This also applies if you previously set up the access data using WPS. For security reasons, the access data is not displayed after setting up using WPS, but you can still use it for the connection.

Checklist for resolving Wi-Fi connection errors

If the Wi-Fi connection is not working, we have put together a checklist with the most common errors:

- **Note1:** The WLAN module of the control unit can only be connected to a normal 2.4GHz network and not 5GHz.
- **Note 2:** Please check whether you have to enable new devices in your router first must.
- **Note3:** If you want to use WPS, please check whether the WPS button works with your smartphone etc. It may be that the button in the router menu needs to be activated first for security reasons.

- **Note 4:** Check whether your router requires you to press and hold the WPS button for a short time or for two seconds. This varies from router to router.
- **Note 5:** Check that you are not too far away from the router. The range of the control device is usually about the same as that of a smartphone, but also depends on the number of walls in between and the height between the device

  and router. You may want to test the connection again closer to the router.

- **Note 6:** If you have one or more repeaters in the house: If they have the same name, it may be that the control unit does not know which one to connect to. It is best to test it with the correct one and briefly switch off all the others for the duration of the connection test.

- **Note7:** If you enter the access data manually on the control unit, please note that after entering the last character of the name and password, do not press the "RIGHT" button again, but press "OK".

- **Note8:** To save resources, the control unit only connects during of the connection test and transmission (approximately once per hour) with the router and then disconnects again. So if you want to find it in the list of devices on your router, it will only be visible during the test or may be grayed out afterwards. The name of the device in the WLAN network could be, for example, **"Dewpoint1234",** with the four numbers at the end varying depending on the device.

If the connection does not work, the display of the control unit will show "WLAN error" and an error message:

Error0: The connection to the router using WPS did not work. WPS may not be switched on or the range is not large enough. It is best to try again. If that does not work, test whether connecting to your smartphone using WPS works in the same way. If so, move a little closer to the router. Follow **notes 1** to **6.**

Error1: The same as Error0, except that this error does not occur during the connection test, but at some point during operation. The solution is the same as Error0.

Error2: You have entered the access data manually and the connection to the router is not possible. Check the correctness of the name and password as well **Note1, Note2, Note5** and **Note7.**

Error3: The connection to the router is successful, but the connection to our server is not. Either the router was not connected to the Internet for a short time or the server was not accessible for a short time. It is best to try again.

Error4: The server is not responding. Either the connection to the Internet is lost or the server is busy. Error4 occurs very rarely.

If it worked, "Connected" will appear on the display for a few seconds.

Please note: The app can also be downloaded afterwards. It has nothing to do with the WiFi connection. It is only used to evaluate the data.

After a successful connection, you will receive the first data from the app approximately 30 minutes after the next full hour. Until then, the app will display: "No data available during this period".

Example: If you set up the controller at 11:20 a.m., you will receive the first data in the app at around 12:30 p.m.

Setting up sensors:

Once you have made the settings, the device will tell you how to set up the sensors. There are 4 ways to do this, depending on the sensors you have purchased, which are explained on the following pages:

Outdoor radio / indoor radio,
Outdoor radio / indoor cable,
Outdoor cable / indoor radio,
Outside cable / inside cable

The outdoor sensor must be installed in a location protected from driving rain, above the splash zone (50 cm), preferably on the north side, otherwise in the shade. Direct sunlight distorts the measurement result by heating it up. Direct rain destroys the sensors.

The indoor sensor should be installed in the area of greatest moisture exposure, preferably on an interior wall.
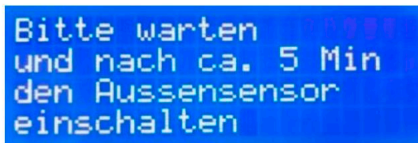
Outside cable and inside cable

If both sensors are wired sensors, you don't need to do anything else. They will be set up automatically later when all settings are made. You can continue with the "Settings" chapter of this manual.

Outdoor radio and indoor radio

If you have a wireless sensor outside and a
If you use a wireless sensor, you will see the following picture on the
Display (left):

Bitte warten
und nach ca. 5 Min
den Aussensensor
einschalten

The device will now search for all wireless sensors in the vicinity. If you have several in one house or perhaps your neighbors also have a control device, the device will find them.

Slide switch

When a sensor is found, a number between 1000 and 1003 is shown on the display. This is the channel

of the sensor that has just been found. The sensors transmit every 60 seconds, so they can also be detected every 60 seconds.

So that the control unit knows which sensor to use, you can select Yes or No for each sensor found. Yes is the **RIGHT** button and No is the **LEFT button.**

Now let the device run for about 5 minutes, make a note of the channels if any are displayed and **press the LEFT button (i.e. No) for all of them. These are the sensors that we do not want to use.**
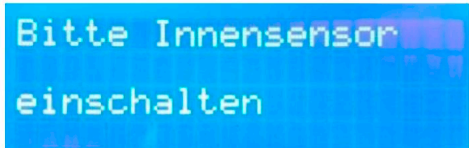
Now set the outdoor sensor using the slide switch in the battery compartment

(see previous image) a channel that has not been used before. You can choose between channel 1, 2 and 3. Now switch on the outdoor sensor by inserting 2xAA batteries. **It does not matter which of the sensors you use for indoors or outdoors.** The sensor should have been recognized after 3 minutes at the latest.

After a few moments, the device will display the channel of the sensor (Channel 1 = 1001, Channel 2 = 1002, Channel 3 = 1003). Now press YES and it is set up.

The following message then appears:

Now set the indoor sensor
using the slide switch
another channel. If you want to

If you have selected channel 1 for the outdoor sensor, please select channel 2 or 3 for the indoor sensor.

Switch on the indoor sensor. This should also be recognized after a few minutes. **Again, all other wireless sensors in the vicinity could be recognized. Only press YES if a channel is displayed that corresponds to the one you have set. This is the channel of the indoor sensor.**
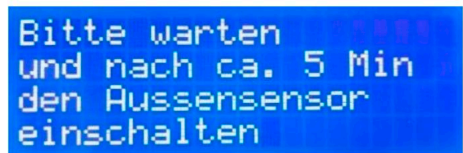
For all others, press No again.

Once this has happened, the message "Sensors detected" appears. **From now on, the sensors are saved and can be mounted.**

Outdoor radio and indoor cable

If you use a wireless sensor outside and a cable sensor inside, you will see

You see the following picture:

Please set up the outdoor sensor as described

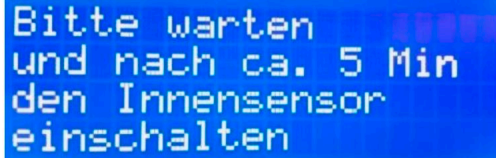in the previous section **Outdoor Radio and Indoor Radio .**

You do not need to do anything else for the cable sensor. It will be set up automatically later when all settings have been made. You can continue with the "Making settings" chapter of this manual.

Outdoor cable and indoor radio

If you have a cable sensor outside
and use a wireless sensor inside,

you will see the following
Picture:

Bitte warten
und nach ca. 5 Min
den Innensensor
einschalten

Please set up the indoor sensor as described in the previous section **Outdoor Radio and Indoor Radio .**

You do not need to do anything else for the cable sensor. It will be set up automatically later when
all settings have been made. You can continue with the "Making settings" chapter of this manual.

change settings

You are now in the settings screen. This is displayed every time you restart the device. **If you do not
press a button for a minute, the old settings are retained (e.g. after a power failure).** This means
you do not have to enter everything again and again. All values are set using the **UP / DOWN** buttons and
confirmed with **OK .**

First, set the **minimum temperature** of the room. This sets the temperature that the room should never
fall below. This is particularly important in winter, as airing the room

should not get too cold.
You can adjust the settings with
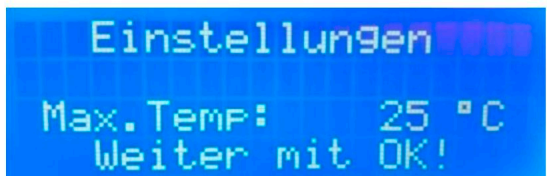
the UP/DOWN keys. Then confirm with
OK.

Einstellungen

Min.Temp: 12°C
Weiter mit OK!

Now you can set the **maximum temperature .** This is especially important for wine cellars, where the
temperature must be kept within
a precise range.

If you are unsure, just keep the

Default value.

Einstellungen

Max.Temp: 25 °C
Weiter mit OK!

Next, set the **ventilation duration .** This determines the length of time the fan is switched on or the window remains open. As soon as the control unit has detected that it is drier outside than inside, it switches the fan or window on.

Window opener for exactly the duration of the ventilation period. When this time has elapsed, the fan is automatically switched off (here called fan break) or the window is closed. This is to ensure that the drier air is well distributed in the room before the next ventilation.
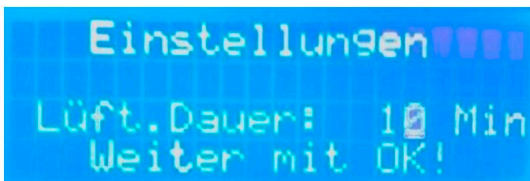
Note: If you set the ventilation time to 0 minutes, this means that the fan or window opener will be switched on **without a break** until it is no longer dry enough outside. This means that it will continue to ventilate until the room is drier than the outside air. Depending on the time of year, this means that the connected device can be switched on continuously (several hours and days) and there will be no break.

However, this is not possible for every fan. **Some cannot be switched on all the time.** So use a fan that allows this for this setting. Otherwise the fan may be damaged.

If you are unsure, it is best to select the preset value and try it out.

The next point is the **ventilation pause.** If you are unsure, leave the preset value.
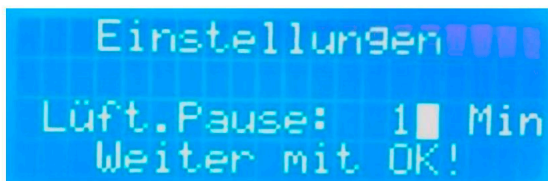
Once you have confirmed with OK, you will be taken to the next
Settings screen. Here you set the **minimum permissible relative humidity**
The control unit uses this value as a target value that will not be undercut.
This will ensure that the room does not become too "dry". On the other hand, you should not set this value too high, otherwise you will not get sufficient

ventilation is possible. If you are unsure, just keep the default value.
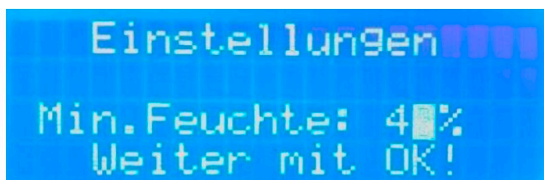
Next, you can set the **switching differential** of the device:

This is given in grams per cubic meter and indicates the difference in absolute humidity inside and outside that must be achieved for the device to ventilate. If you set the value to 1.00, this means that there must be at least 1 gram more water vapor per cubic meter of air inside than outside for ventilation to occur.
Ventilation will only stop when the ventilation time has elapsed or when the absolute humidity inside and outside are the same (i.e. the difference is 0).

As a rule of thumb, you can initially set a switching difference between 1 and 2. **The higher the switching difference, the less frequently the system will ventilate.** If the value is too low, the fans will constantly switch on and off. If the value is too high, the system will ventilate only rarely. Find a compromise here by simply trying it out. The exact value depends on your circumstances and how the rooms are used.

Einstellungen

Differenz   1.00
    Weiter mit OK!
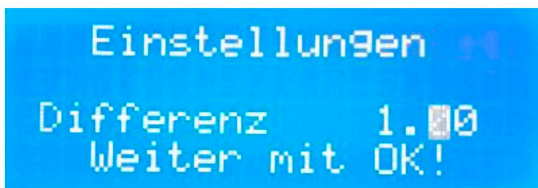
Now you can set whether you want to secure the device with a **keypad lock .** This is useful for rented or publicly accessible rooms, for example, so that the settings cannot be changed by unauthorized persons.

The setting and manual ventilation can then only be accessed by entering the correct key combination.

This key combination consists consists of four buttons and is: **UP, RIGHT, DOWN, LEFT**

Einstellungen

Tastenschloss: aus
    Weiter mit OK!
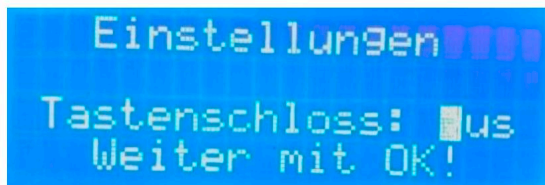
Next, set the current **time** and then the **date :**

Then select the time period of the day in which ventilation is permitted. This is shown here

Working time is called working time. Setting the working time is useful if you only

Einstellungen

Uhrzeit: 18:44 Uhr
    Weiter mit OK!
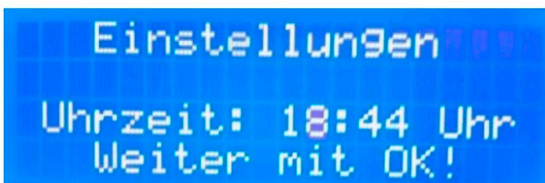
You may want ventilation at certain times of the day. This can be during the day in apartment buildings, for example, so as not to disturb the tenants at night. **You can choose between 0:00 and 23:59 for From and To.**

In principle, there are three ways to ventilate:

1) You can ventilate at any time of the day. If you want to do this, set the device on: **From: 0:00 o'clock To: 23:59 o'clock**

2) Ventilation may only take place during the day. To do this, set the device as follows: **From: 6:00 a.m. To: 10:00 p.m.**

3) The room may only be ventilated at night. To do this, set it like this: **From: 22:00 To: 6:00**

If you need more than one day as working time (e.g. ventilation from 0 to 6 a.m. and then again from 4 p.m. to 11 p.m.), you can activate two additional working times. There will always be a break between these working times. To activate, press the **UP** buttons

and **DOWN at the same time.** If you do not need the third working time, simply leave it at 0. The two additional working times can also be locked again using the same key combination.

The settings are now complete and saved.

AUTOMATIC OPERATION

You will now reach the main screen / automatic mode. This is divided into three parts: First, all the measured values (temperature - relative humidity - absolute humidity) from the inside are displayed, then after 5 seconds these values from the outside and after another 5 seconds a message about the current status of the device is displayed. The three screens alternate every 5 seconds.

Note: If you notice that you have previously set a value incorrectly in the settings, you can simply correct it by pressing the OK button on the main screen. This will take you back to the settings and you can set the settings again as explained above.

From now on, the sensors will send data to the control unit every minute. As soon as data from a sensor has been recorded, a confirmation in the form of a small symbol appears briefly in the bottom right of the display. Depending on the sensor, the following symbols appear:

i = cable inside sensor   **a = cable external sensor**

. = Wireless indoor sensor   *** = Wireless outdoor sensor**

The values for inside and outside at a glance:

The temperature is displayed in °C, the relative humidity in % and the absolute humidity in grams/ cubic meter (g/m³). The time is at the top right:

```
Innen        10:55 Uhr  Aussen       10:55 Uhr
Temperatur:      26.20  Temperatur:      24.60
rel.Feuchte:     79.00  rel.Feuchte:     60.00
abs.Feuchte:     19.45  abs.Feuchte:     13.50
```

MANUAL MODE

You can also operate fans or window openers manually. This is useful, for example, if you want to ventilate regardless of the humidity levels. This manual operation is also useful for checking the connected devices.

To enter manual mode, simply press **the**

LEFT or RIGHT button.

This display will then appear:

```
Manueller Betrieb

←aus    30 Min      an→
Beenden mit OK
```

Use the LEFT button to turn the connected fans off and use the RIGHT button to turn them on.

To return to automatic mode, press the **OK button.**

Manual operation can be carried out continuously or with a time limit. A number in minutes is therefore displayed in the middle of the screen (here: 30 min). This is the time after which the device leaves manual operation and returns to automatic operation. You can set this using the **UP**

and **DOWN** from 0 to 300 minutes. If you want continuous operation, simply set this number to 0.

DISPLAY LIGHTING

You can turn off the display lighting by pressing the **DOWN** button
To turn it back on, press the **UP button.**

DELAY 70 SECONDS

Fans with heat recovery (HR) change their direction of rotation every 70 seconds so that they can heat up their ceramic core one after the other and warm the fresh air again with the stored room temperature. If you want to connect two such fans with HR to the control unit, you can **set a delay for the right connection terminal** so that the left fan ventilates immediately and the right only after the delay. This way both fans run in opposite directions and optimal cross ventilation can be achieved despite the change in direction of rotation.

To set the delay, please press and hold the OK button for 4 seconds in automatic mode (where the inside and outside values are displayed).
The word "Delay" will now appear. You can use the up or down arrow keys to set it to "YES" and then press OK to confirm.

Image: The right
Connection terminal is now
delayed by 70
seconds.
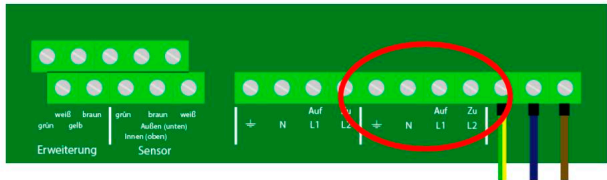
Note: The delay also applies to manual operation.

Note (only important if you control your fans via radio receivers): The control unit still sends the signal to the radio receivers immediately. The delay must be set in the radio receivers themselves.

ALL NEWS AT A GLANCE

Fan turned off. This message
indicates that the fan is currently
turned off or the

window is closed.

It is not dry enough outside. This message is linked to the message **Fan off,** but indicates the reason why. When this message appears on the screen, the fan is or remains off or the window is closed because it is not dry enough outside for ventilation. The control unit checks after each cycle whether this condition has changed and adjusts it accordingly by leaving the fan off or turning it on.

Minimum temperature was reached. Here too, the fan is turned off and the window is closed. This time, however, the minimum temperature is reached. The system does not ventilate so that the room does not become too cold.

Target humidity has been reached. The fan is switched off or the window is closed. The control unit has detected that the room is sufficiently dry and ventilation is not necessary.

Fan switched on. If all conditions are met (i.e. it is drier outside than inside; the minimum temperature has not yet been reached and the target humidity has not yet been reached), the fan is switched on for the duration of the ventilation period.

Attention: When this message appears on the display, it can take up to a minute until the fans are actually switched on. This is because various processes still have to be processed in the device, such as sending the app, reading radio sensors, etc.
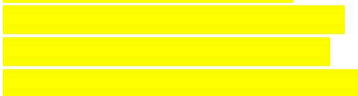

Note: The control unit continues to check these three conditions. If one of these conditions no longer applies, the fan is switched off or the window is closed. **The ventilation time does not always have to be fully utilized.**

When this happens, the device switches to **ventilation pause mode.**

Fan pause. The fan is switched off and can only be switched on again after the set ventilation pause time.

Outside working hours. The Device is currently not in the period set under working hours. Ventilation does not take place here.
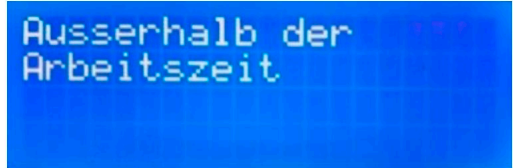
Sensor no signal

If the control unit does not receive any readings from any of the sensors for 5 minutes, one of the following error messages is displayed:

If the sensor in question is a **cable sensor ,** it may not be connected properly or the cable may be damaged. Check the cable and the connection terminals. Once you have found the fault, turn the control unit off and correct it. Then turn it back on and wait until it starts working again.

If the sensor in question is a **radio sensor ,** either the sensor's battery is empty or it is too far away. If this message appears just a few minutes after initial use, the range is insufficient. **Either place the sensor closer to the device or bend the antenna vertically upwards.**

If this message appears after several months, it is a sign that the batteries are empty. Please note the following:

changing batteries

If the batteries of a sensor are empty, turn off the control unit and change the batteries in the affected sensor. If you have both sensors as wireless sensors, it is best to change the batteries in both sensors.

Then switch the control unit back on. Please do not change the channels of the sensors. Otherwise they will have to be set up again.

APP SETUP

Now that you have fully set up the ventilation control, you can use the associated app. **The prerequisite for this is that you have ordered access to the app.** This access is located on the back of these instructions.

The app is a **PWA** (Progressive Web App). This means that you can access it as a normal website via your browser and you can also install it as an app on your smartphone, tablet and desktop device.

The app works with all browsers.

Installation works with **Chrome** on Android devices or Windows computers and with **Safari** on iOS devices.

1a) Install on Android or Windows devices:
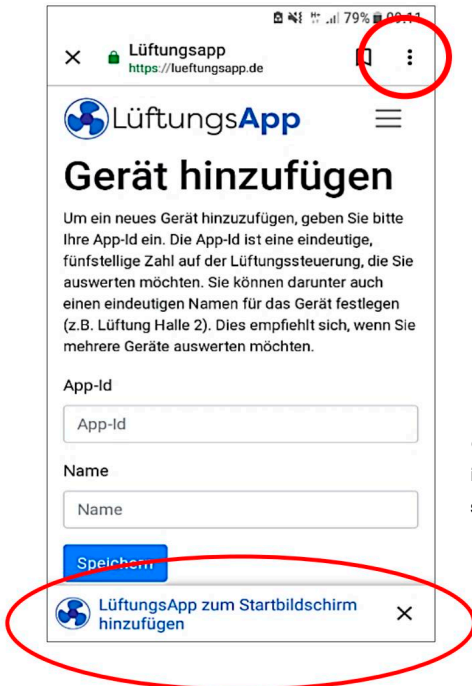
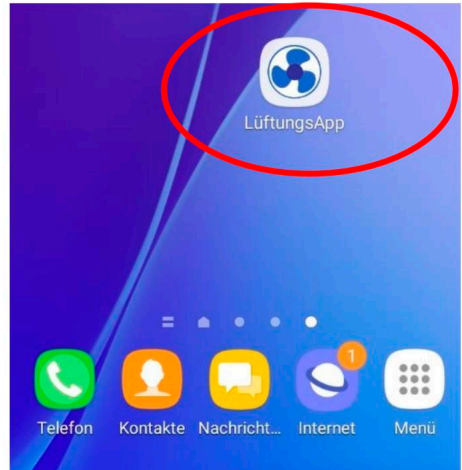To install the app on your Android or Windows device, use this device to access the following website: _____

lueftungsapp.de

After that, your screen should look something like the picture on the left.

A banner should open at the bottom allowing you to add (install) the app to your home screen. Installation will only take a few moments.

Note: If the banner does not open, you can click on the three dots in the top right corner of Chrome (top image, top right). Then click on "Add to home screen" and the app will be installed.

You can now open the app as shown in the right image by clicking on the app icon on your home screen.

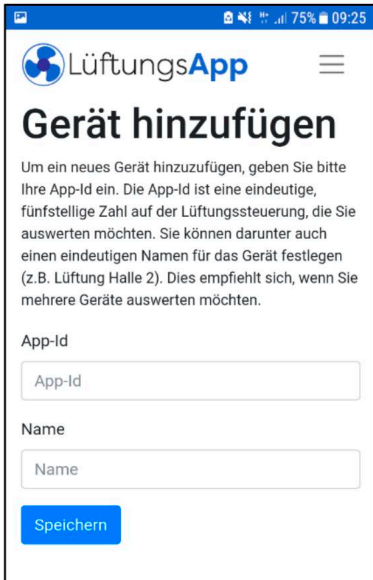## 1b) Install on iOS devices:
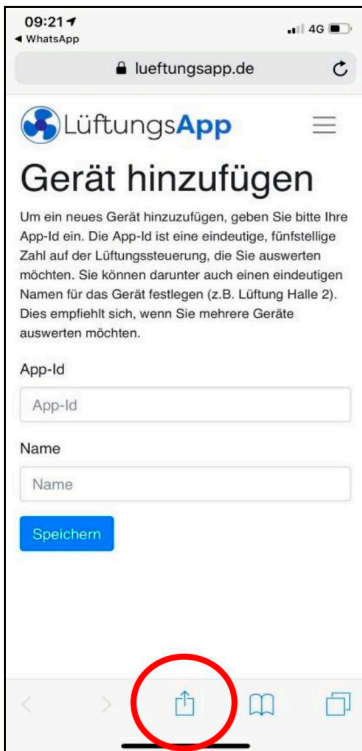
To install the app on your iOS device, use this device to access the following website: **lueftungsapp.de**

After that, your screen should look something like the picture on the left.
Now click on the share icon (red circle in the left image).
Then click on "Add to home screen". The app will now be installed and you can access it from the home screen.

2) Add new device:

Now that you have installed the app, you need to tell the app which ventilation control you want to manage.

To do this, enter the **app ID,** which is at the end of these instructions, and a **name** for the device. Since you can also evaluate several ventilation controls with the app, you can give each device a meaningful name so that you can distinguish them in the app.

Once you have entered both, click Save.

3) Get to know the app:
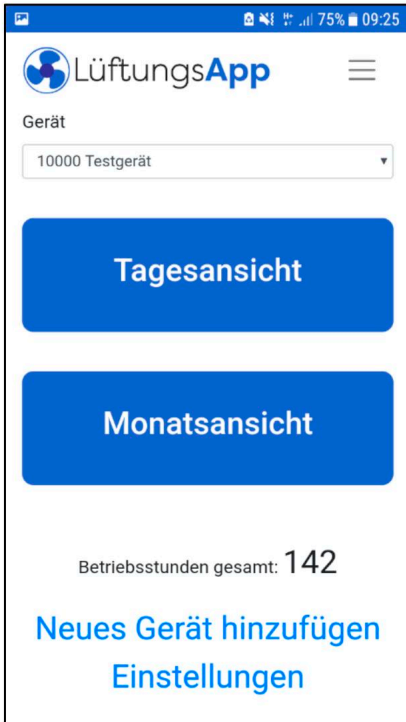
You are now on the main screen of the app. Above you can choose which **ventilation control** you would like to view.
Below there are two blue buttons **"Day View"** and **"Month View".** More on this on the next page.

Below is the **operating hours counter** for the ventilation control selected above.

Under the operating hour counter you can Add additional ventilation controls that you want to view in the app.

The settings are at the very bottom .
Here you can set whether you want to receive push messages from a ventilation control (e.g. when the batteries of a radio sensor are empty).

Note: You will only see this link if your device supports push notifications for web apps. This is currently possible on iOS devices (from iOS 16.4), Android devices and Windows computers.

Regardless of whether you have enabled push notifications or not, the device will notify you of any ventilation control errors the next time you open the app.
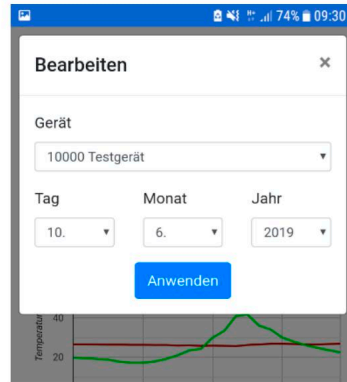
Day view
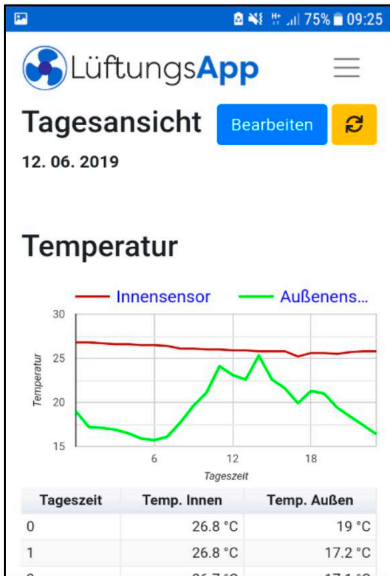
With the app you can evaluate the ventilation control data for each day individually.
To do this, you can use the blue **"Edit"** button to select the day you want to view (as shown in the image on the right).
The default is always today.

The temperature and humidity values inside and outside are displayed.
These are always transmitted by the ventilation control on the hour.

Note: Allow the ventilation control one to two hours until the first data is available in the app.

You will also see below a
Timeline of what happened so far this day:

Here you can see at what time of day and for how long a certain event occurred. You can find the exact times by clicking on the colored rectangles.
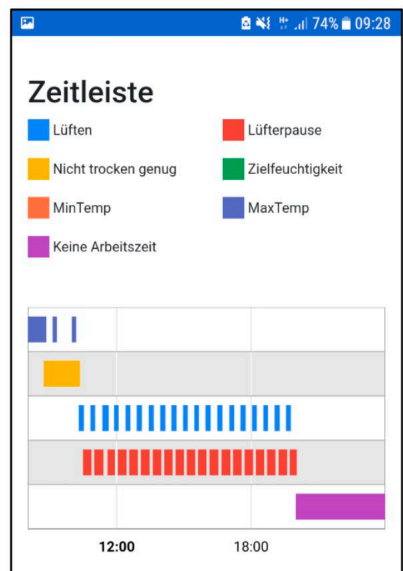
Monthly view

Under the **Monthly View** option , you can see how the humidity and temperature values inside have changed over the month.
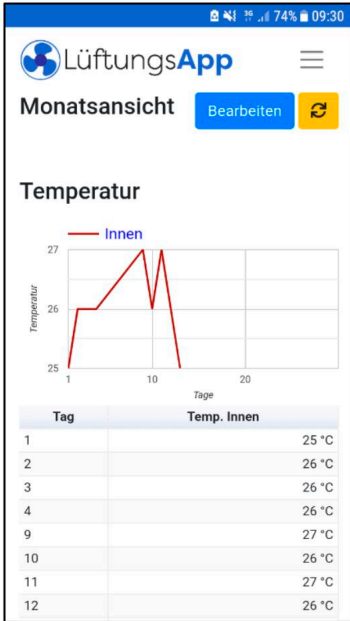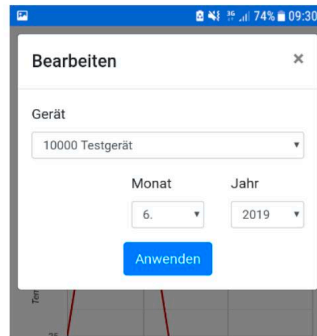
You can set the month using the blue **"Edit"** button .

Next to it you will also find a grey "Export" button . This allows you to export all values for the days of the displayed month as a CSV file.

Notes about the app:

The app updates automatically. The app does not necessarily have to be installed.
You can also use it like a normal website from any device. This still applies if you have already installed the app on another device.

ADVANCED WIFI SETTINGS

This guide explains the Wi-Fi settings that you can use to use the ventilation app. However, there are other Wi-Fi settings that you can use to unlock additional functions.

These include:
establishing a permanent WLAN connection to the router; setting a fixed IP address for the device; making reading the data from the ventilation app password-protected; reading the data not via our cloud but via an internal web server (e.g. for smart home applications)

Further information and the exact setting options can be found at:
https://lueftungsapp.de/wlan.pdf

TECHNICAL DATA

Type designation	Ventilation control
EAN	0757536192777
Electrical connection	220-240V ~ 50Hz
Power consumption (without fan) approx. 1 W	
Dimensions of the control unit 190 x 130 x 80 mm	
Dimensions of the sensors 60 x 30 x 15 mm	
Maximum permitted electrical power 1800 W, 230V	Measuring range
relative humidity 0-100%	
Measuring range temperature -40 to 120°C	

The connected ventilation devices (230V) such as fans and window openers must not exceed a maximum output of 1800 W!

CLEANING, CARE AND STORAGE

1. Please read the safety instructions before cleaning.
2. Also unplug the power cord.

3. To clean the control unit, use a slightly damp cloth and, if necessary, a mild cleaning agent. Be very careful when cleaning the sensors. The sensor housings are open to the outside so that they can measure humidity and temperature with sufficient accuracy. The use of water for cleaning should be avoided.

4. Make sure that no water enters the housing. Never immerse the device in water or other liquids during cleaning or operation. Do not hold any part of the device under running water.

5. When storing and operating the device and its accessories, select a location protected from dust, moisture and direct sunlight. Keep the device out of the reach of children.

ENVIRONMENTAL PROTECTION

The packaging materials are recyclable. Please do not throw the packaging in the household waste, but recycle it.

Old devices contain valuable recyclable materials that should be recycled. Please dispose of old devices via suitable collection systems.
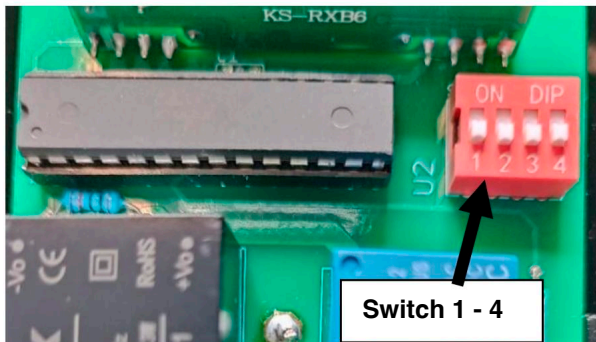
The EU declaration of conformity can be requested from the manufacturer's address.

CONNECTING THE RADIO RECEIVER

First open the housing of the radio receiver by loosening the four screws.

Then loosen the
Screws for the strain relief so that you can pass the cable of a fan or window opener through.

Switch 1 - 4

Selection of radio channel:

Since it is possible to install several control devices in a house that are to switch independently of one another, each system must transmit on its own channel (similar to WLAN networks). In multi-family houses, it can also happen that each apartment has its own system. So that the control device only switches the radio receivers that belong to the system and not all of them, you can choose between 4 channels that are set using the switches shown above.

channel	Switch 1	Switch 2	Switch 3
1	OFF	OFF	X
2	ON	OFF	X
3	OFF	ON	X
4	ON	ON	X
Delay for heat recovery system			
70 seconds delay X		X	ON
0 seconds delay X		X	OFF

If you only operate one system in the house, you can choose the channel you want.
Just make sure that you have set the same channel in the control unit and the radio receiver.

Connecting a fan (see picture on the next page):
Connect the fan neutral wire to terminal **N** and the fan phase wire to terminal **Auf.**

The protective conductor of the fan is connected to the **SL** (protective conductor) terminal .
Note: very few fans have a protective conductor. Normally nothing is connected here.

Connecting a window opener:

Connect the neutral conductor of the window opener to the N terminal, the opening phase to the Open terminal **and** the closing phase to the Closed terminal . Since our window openers do not have a protective conductor, the **SL** terminal remains free.

Screw the strain relief tight and close the housing again.

You will achieve the greatest range if the antenna is bent vertically upwards.

Note: Only work on the radio receiver when it is disconnected from the power supply!

Note: If you want to change the channel later, unplug the radio receiver from the socket and change the channel. You can then plug it back into the socket. If the radio receiver remains plugged into the socket when changing the channel, the new channel will not be adopted. It must be briefly switched off.

IMPORTANT KEY COMBINATIONS AT A GLANCE VIEW

1. When starting, hold down the left button for a few seconds: setting up the sensors, app and radio receiver.

2. When starting, hold down the OK button for a few seconds:
Perform a WiFi scan. The scan will determine the WiFi networks available nearby within a few seconds. If your network is included, you can be sure that the range is OK. Use the arrow key to the right to view all the networks one by one. If you press the OK key on one of the WiFi networks displayed, this will be adopted in the settings so that you do not have to enter the network again later when setting up the app.

If you do the scan before assembly, you can simply turn the device off (and unplug it) after the scan and continue with the assembly. If you have already assembled everything, you can just leave it on and continue in the settings.

3. When starting, hold down the right button for a few seconds:
Change language.

4. When starting, hold down the lower button for a few seconds:
Reset the device to factory settings. All settings for values, sensors, WLAN and radio channels are reset to the default settings. The device can then be set up again.

5. In automatic mode, press the button left or right:
Manual mode. Here you can ventilate manually.

6. In automatic mode, press the button down:
Turn off the display lighting. Press the button up to turn it back on.
at.

7. In automatic mode, press and hold the up button for 4 seconds:
Force WiFi sending (only works if the app was ordered and app is set to Yes). This will transfer the current values to the cloud and can be viewed in the app. The control unit normally does this automatically every hour. However, you can also force it manually using this key combination so that you can make any WiFi error messages visible. This means you can use it to check whether the WiFi connection is working if, for example, no more data is visible in the app.