



heatapp! radio components



heatapp! radio components





heatapp! for wall heaters

heatapp! drive

- The **heatapp! system** with **heatapp! drive** actuators is designed for wall heaters with common valves.
- with **heatapp!** it is possible to regulate a maximum of 24 rooms each with 4 **heatapp! drives** and manage a total of 96 radiators.
- Up to 4 **heatapp! drive** in a space will be equivalent regulated.
- **heatapp! drives** have an integrated temperature sensor and don't need a separate **heatapp! sense**.





heat app! for underfloor heating

heat app! floor and heat app! sense

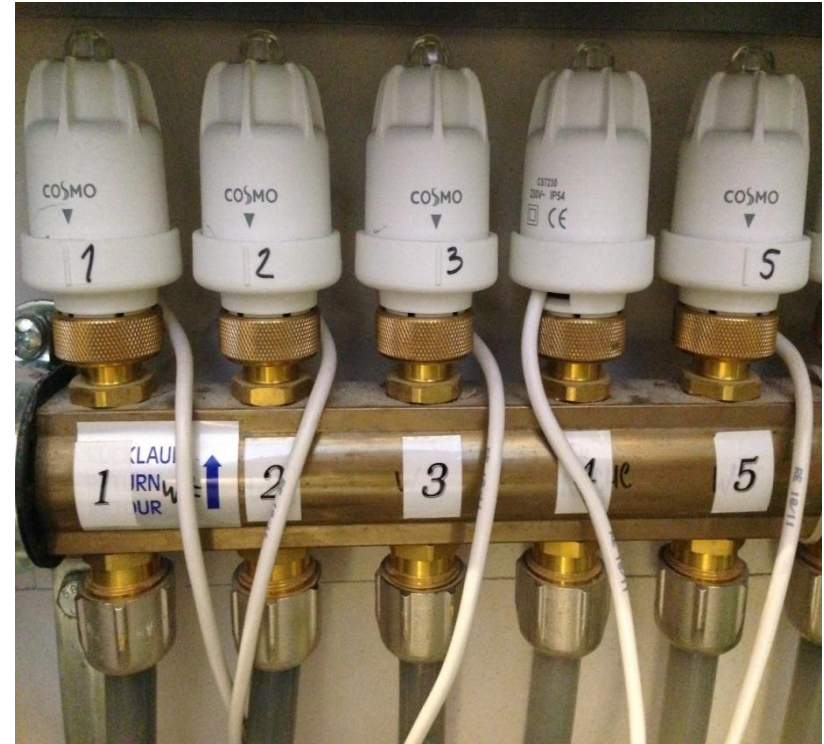
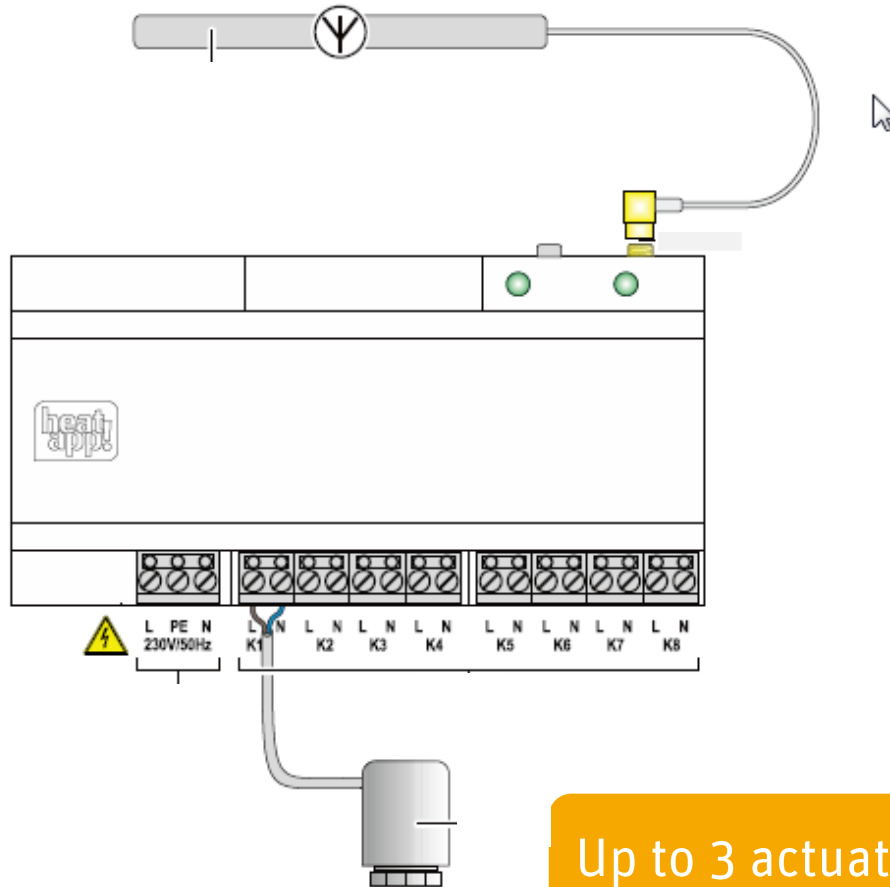
zone controller
heat app! floor



room temperature sensor
heat app! sense



Connection diagramm



Up to 3 actuators to each of the 8 channels possible



heatapp! floor

Important Informationen

- **heatapp! floor** is suitable for thermo-electric actuators, 230V, normally closed (actuators are not included and can be purchased at wholesale)
- **heatapp! floor** is for 8 channels each with up to 3 thermo-electric actuators. Every **heatapp! floor** can operate a maximum of 24 actuators.
- Every **heatapp! floor** channel is like a „room“ of a **heatapp! drive**. If you put 3 actuator to 1 channel of the **heatapp! floor**, the regulation from the floor is equivalent.
- The **heatapp! floor** features an integrated repeater for better radio control by other radio components.
- It is needed a combination of room temperature sensor **heatapp! sense** and the zone controller **heatapp! floor**.





heatapp! for electric heaters

heatapp! checked

Do you heat electrically with infrared or plate heating or fan heaters?

Then the **heatapp! single floor** can be used in conjunction with a room sensor.

Choose between 3 possible models to control your electric heating comfortably with **heatapp!**

- First register a **heatapp! sense**.
- When registering the **heatapp! single floor**, you will be asked to select a room to which the device is assigned.





heatapp! repeater

heatapp! repeater and components with repeater function

- **heatapp! repeaters** improve radio coverage in a heatapp! system. They allow radio components in an unfavorable position to communicate with the heatapp! gateway.
- **heatapp! repeaters** are not classic amplifiers, but communication intermediaries. They transmit recorded communication telegrams without processing the content.
- **heatapp! repeaters** must be positioned so that they have a good connection with both the **heatapp! gateway** and the radio component to be amplified.
- All 230V bound radio components have a repeater function. Depending on the manufacturer of the component, this function is very different.
- **heatapp! components with repeater function** are **heatapp! floor** and **heatapp! single floor** (all variants)

heatapp! repeaters are not amplifiers, but mediators of information. They must have good reception from/to the gateway and the unreachable radio component in order to pass on information correctly.



Including radio components

Preparations

The including of all radio components should take place as close as possible to the heatapp! gateway. The "near by" inclusion ensures communication during the inclusion interview.

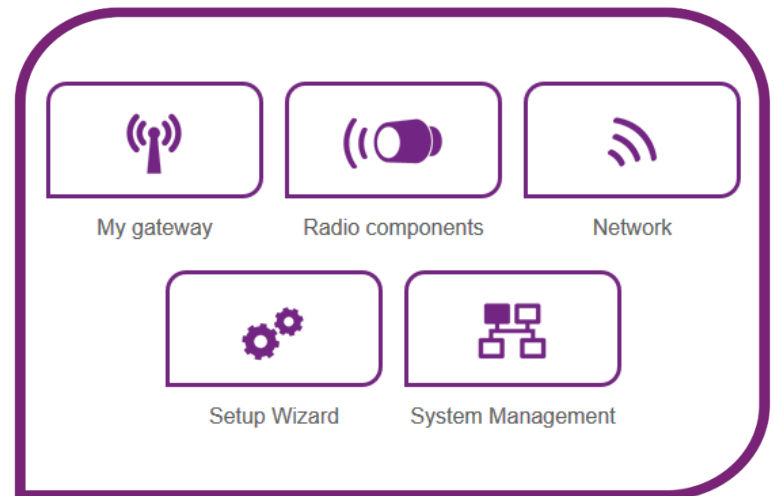
- Remove the radio components from the packaging.
- **heatapp! drive** and **heatapp! sense** are battery operated. Insert the batteries according to the instructions. Make sure the polarity is correct.
- **heatapp! single floor** for Schuko sockets are simply plugged into a socket.
- The **heatapp! single floor** flush-mounted is supplied with the heating and voltage to be switched according to the manufacturer's instructions.
- The **heatapp! floor** is connected to the servomotors of the underfloor heating and supplied with power.
- **heatapp! repeaters** are also plugged into a socket.



Including radio components

Installation heatapp! radio components

- In the heatapp! gateway menu, select "Radio components".
- Under "Include/ exclude" click on "Include"
- Press the learn button of the radio component and wait for feedback.
- Name the radio component and, if necessary, assign a room.
- Mount the radio component at the desired position.
- Repeat procedure for other radio components.





heatapp! drive

Check the setup

Radio Components













Include and exclude **Manage** Connection status

Current State: No action

Manage

Refresh radio component

Livingroom ←

	heatapp! sense livingroom		 61%	 22.6 °C	
	heatapp! drive livingroom		 46%	21°C ▼	
	heatapp! floor groundfloor: Channel 1				

Room name

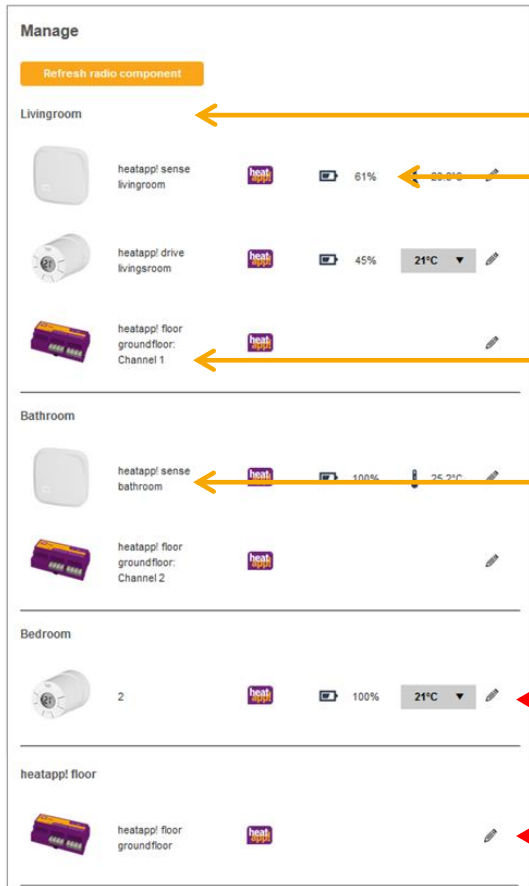
Battery state

Name of the component



heatapp! floor & heatapp! sense

Check the inclusion



Room name
Battery state

Floor channel

Name of component

Change name and room of the component

Change or choose channel to the room allocation



Positioning

Selection of the mounting location

After the radio components are included in the **heatapp! system**, they are positioned.

- The **heatapp! gateway** is positioned as centrally as possible between the radio components.
- The position of the **heatapp! drive** actuators is determined by the customer.
- Select a suitable place for the **heatapp! floor** in the distribution cabinet and fasten the hat rail. Then snap the hooks of the **heatapp! floor** to the hat rail by pressing them down. Make sure that you can mount the antenna later outside the distribution cabinet and connect the antenna plug to the antenna connector of the **heatapp! floor**. However, only fix the antenna at the end of commissioning, after all radio components have been registered and installed, in order to be able to optimize the position if necessary.
- The **heatapp! single floor** flush-mounted is also mounted and connected in its intended position.
- **heatapp! repeaters** are plugged into sockets at the required positions.



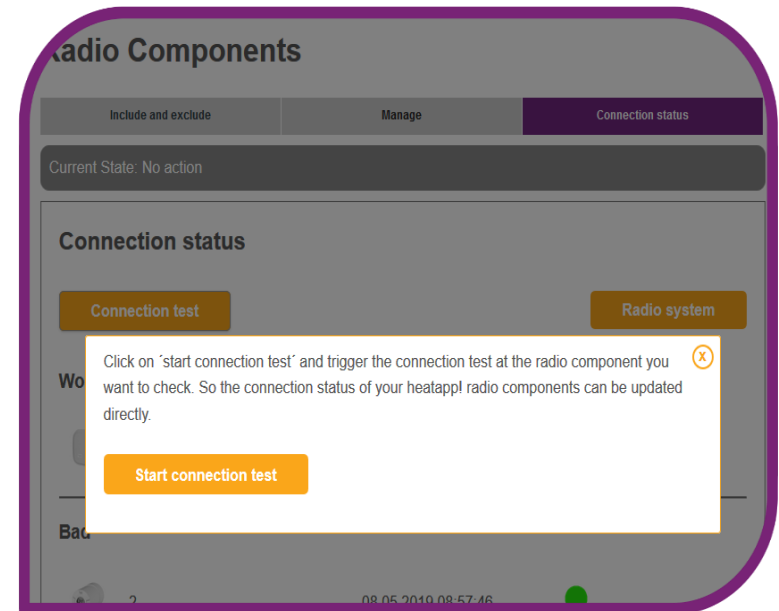
Repair radio system

Menu connection status

- If all radio components are mounted and the **heatapp! gateway** is in its position, execute the function "Repair radio system".
- A click on "Radio system" and then on "Repair radio system" starts the function.
- All radio components are prompted to define their possible routes in order to establish communication with **heatapp! gateway**.
- The routes of the radio components can use a maximum of 4 repeaters.
- 3 possible routes are stored in the radio component.

Connection test

- Switch to the "Connection status" area in the "Radio components" menu: A list of radio components and their status appears.
- Click "Connection test" and start the test
- All radio components are displayed in the connection status with a green status point and a current time stamp.
- Check connection

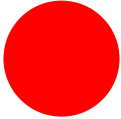






Connection status

The status dot

Each radio component has a time stamp and a status dot.

-  The red status dot indicates that no communication with the **heatapp! gateway** has taken place for at least 90 minutes.
-  The orange status dot indicates that the include interview has not been completed. Press the Learn key several times every 1-3 seconds to complete the include interview till turn the dot green.
-  The green status dot indicates that communication with the **heatapp! gateway** is working.



Connection status





The time stamp

The time stamps of the radio components are updated automatically.



Verbindungsstatus

Verbindungstest Funksystem



Livingroom

	heatapp! sense livingroom	30.03.2017 11:36:16	
	heatapp! drive livingroom	30.03.2017 11:33:19	

Bathroom

	heatapp! sense bathroom	30.03.2017 11:37:43	
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Bedroom

	2	30.03.2017 11:35:49	
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Update interval
Time stamps

Gerät	Intervall
heatapp! sense	every 5 minuts
heatapp! drive	every 5 minuts
heatapp! floor	every 10 minuts
heatapp! single floor	every 10 minuts
heatapp! repeater	every 15 minuts



Mounting heatapp! radio components

Finishing mounting

If individual radio components are not shown with a green dot in the connection test, optimize their radio reception by changing the position of the **heatapp! gateway** and the antenna position of the **heatapp! floor** or mounting additional **heatapp! repeaters**.



Finish!

Now **heatapp!** is controlling the heating:

The room sensors **heatapp! sense** and **heatapp! drive** regularly measure the room temperatures (ACTUAL temperatures) and transmit them to the **heatapp! gateway**, which in turn transmits them to the **heatapp! base**.

heatapp! base determines the control requirement based on the setpoint temperatures and controls the channels of the **heatapp! floor**, the **heatapp! single floor** and the heating valves via the **heatapp! drive** via the **heatapp! gateway**.

heatapp! floor controls the heating circuit distributors via ON/OFF (230V) on request.

