

**STIEBEL ELTRON**

# Easytron

Installer guide

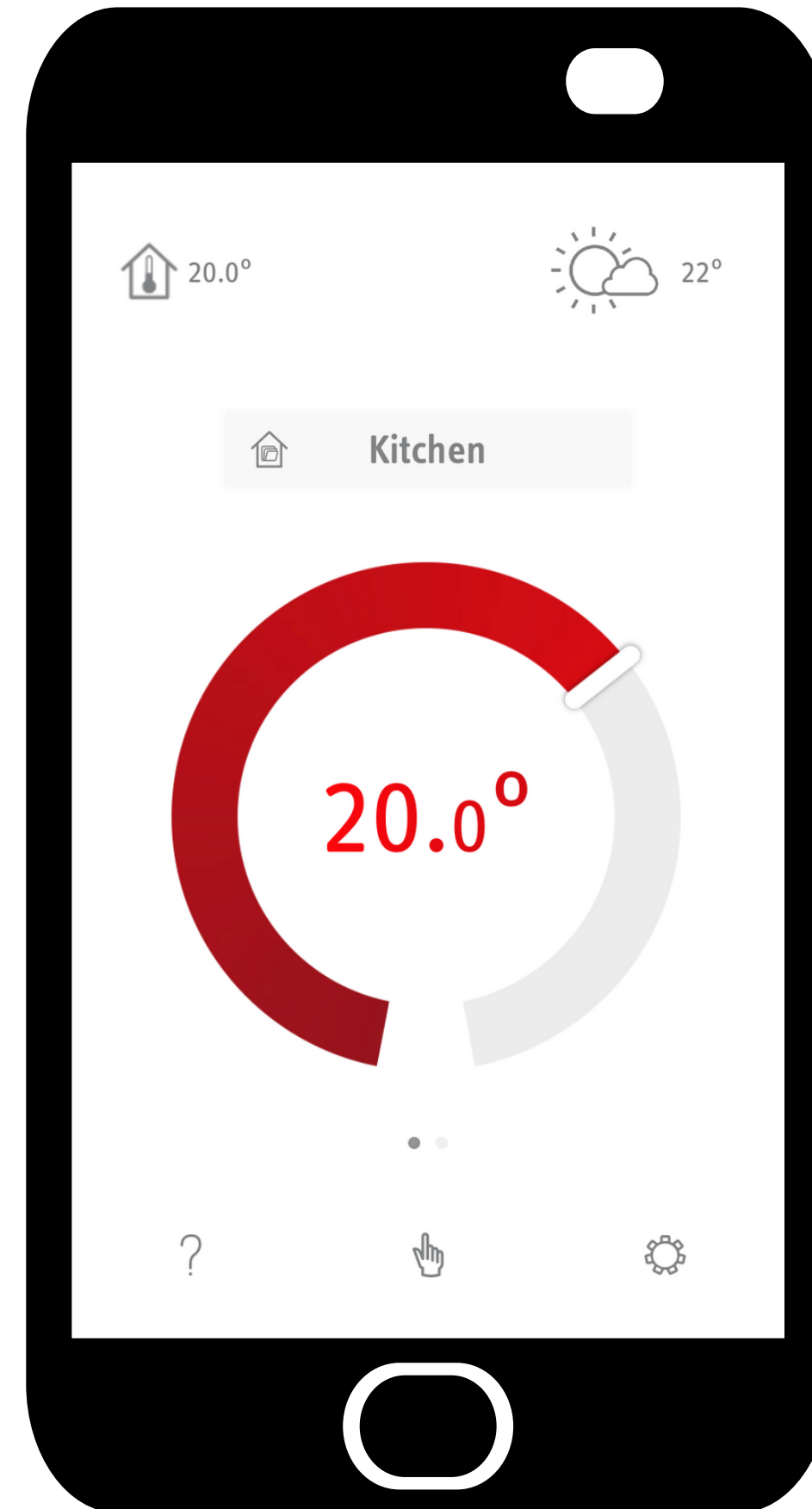


# What is Easytron Connect?

THE EASYTRON CONNECT PROVIDES TIME & TEMPERATURE ROOM CONTROL FOR HEATING SYSTEMS IN BUILDINGS.

The system can be connected to a heat pump via ISG web or operated in a standalone environment.

Makes a heat pump respond and adjust to the need of individual rooms, increasing efficiency and comfort.



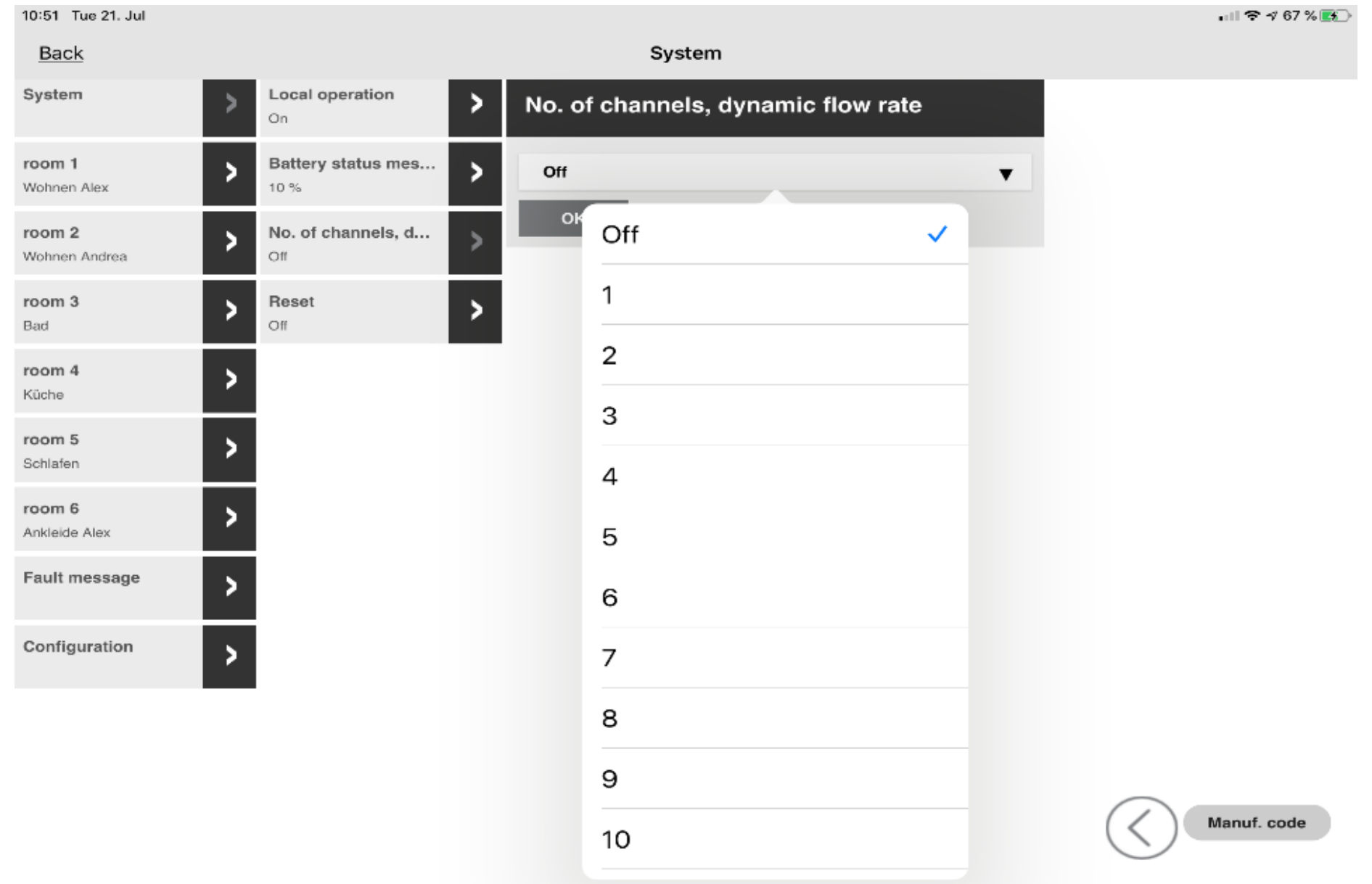


# The system can be used with:

- Wall mounted radiators or underfloor heating
- Up to 24 rooms per system
- Max four radiator or underfloor actuators per room
- One room temperature sensor per room

# Underfloor heating

- A maximum of 3 EHF underfloor control units can be connected to 1 base station (this is not a wiring centre). The base station can then be connected to the Heat pump via ISG.
- It is not necessary to leave any open zones inside the building with underfloor heating. In the software, at least one zone should be selected for dynamic flow control (menu right). This allows Eastytron to replace the function usually fulfilled by buffer tanks.





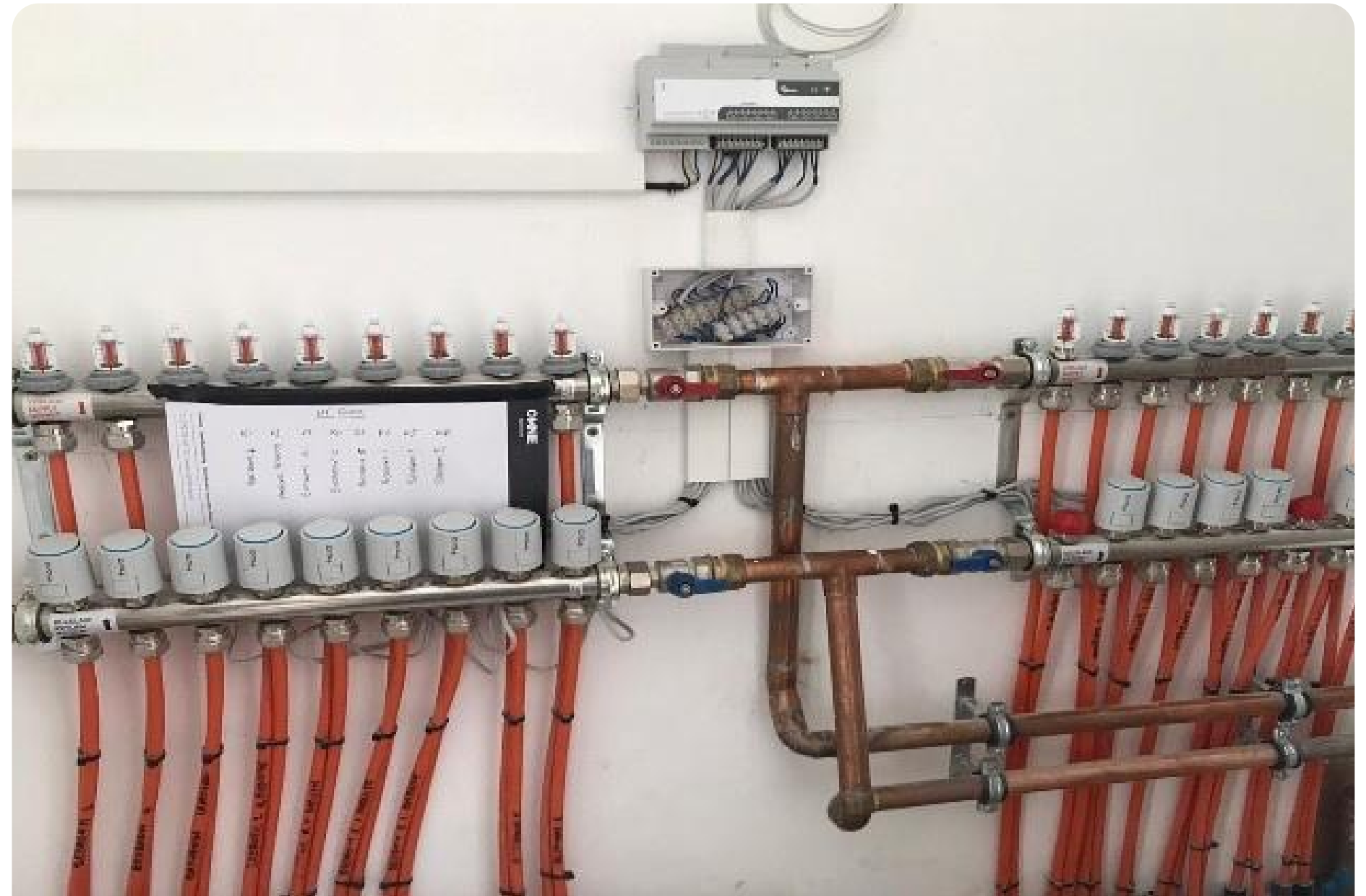
# Connections with underfloor control box: EHF

- This is not a wiring centre, but is an output box, with 8 available outputs. This will provide control over 8 rooms.
- Each room will need its own room stat.
- The terminals are designed for one set of wires, they will not be able to accept more.
- The outputs are 230V.



# Underfloor heating controls

- Each EHF output controller needs a 230V supply. It cannot be used to switch circulating pumps.
- Manifold pumps and/or mixing valves are not needed with this design.
- All pumps should be fitted inside the plant room and connected directly to the heat pump.



Bare manifolds, with no pumps or mixing valves.

# Additional wiring box

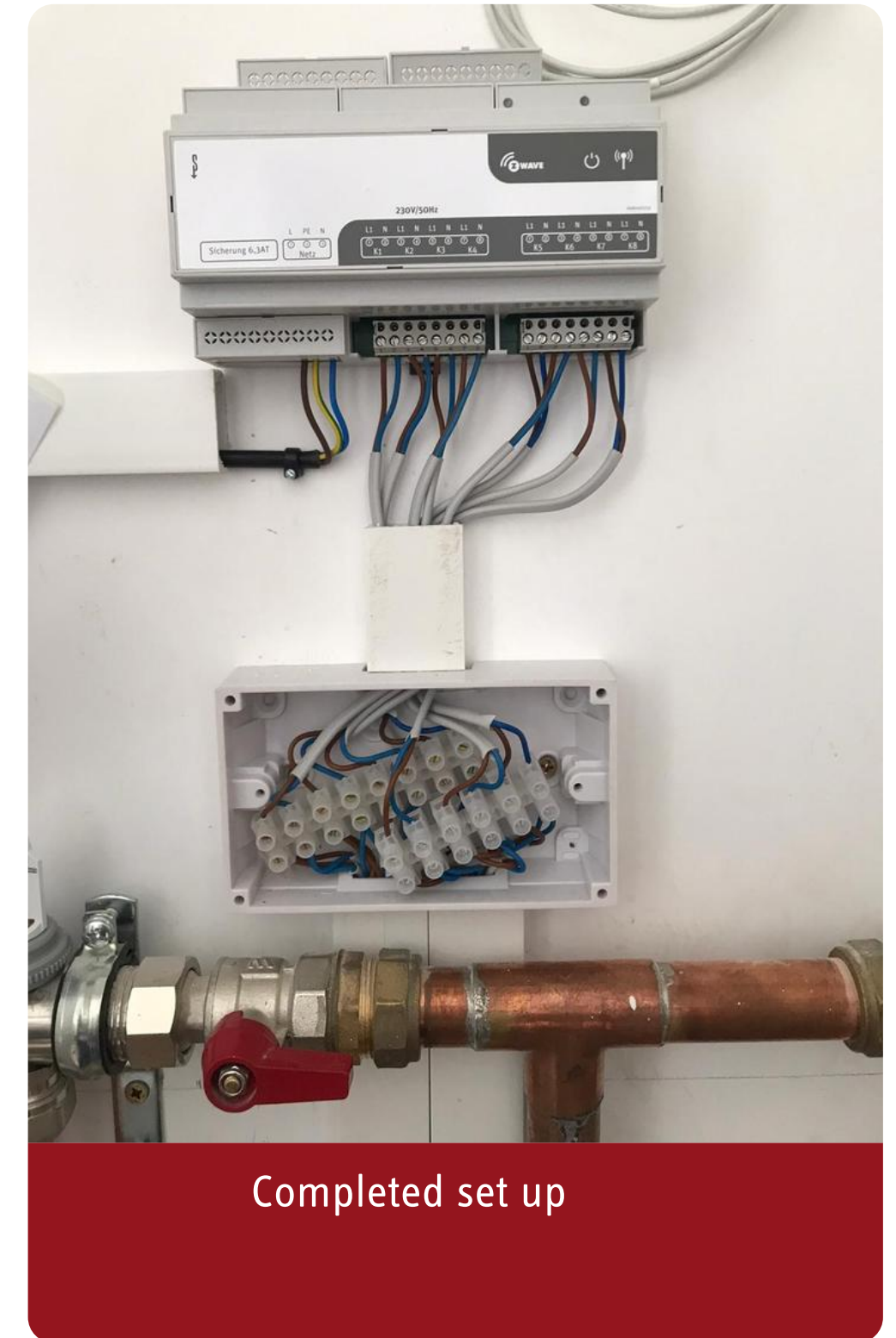
If the project requires a manifold with many actuators then the electrician will need to provide an additional means of connecting the extra actuators.

One cable comes from each output and will connect to a max of 2 heads.

In exceptional cases additional relays may be required.



Close up of additional wiring centre used to connect the heads together.



Completed set up

# EHF box

The EHF Output box communicates wirelessly and comes with a plug in Antenna. This ideally needs to be fitted outside the manifold boxing. It comes with a self-adhesive strip so that you can stick it to the manifold box or wall.





# Underfloor example

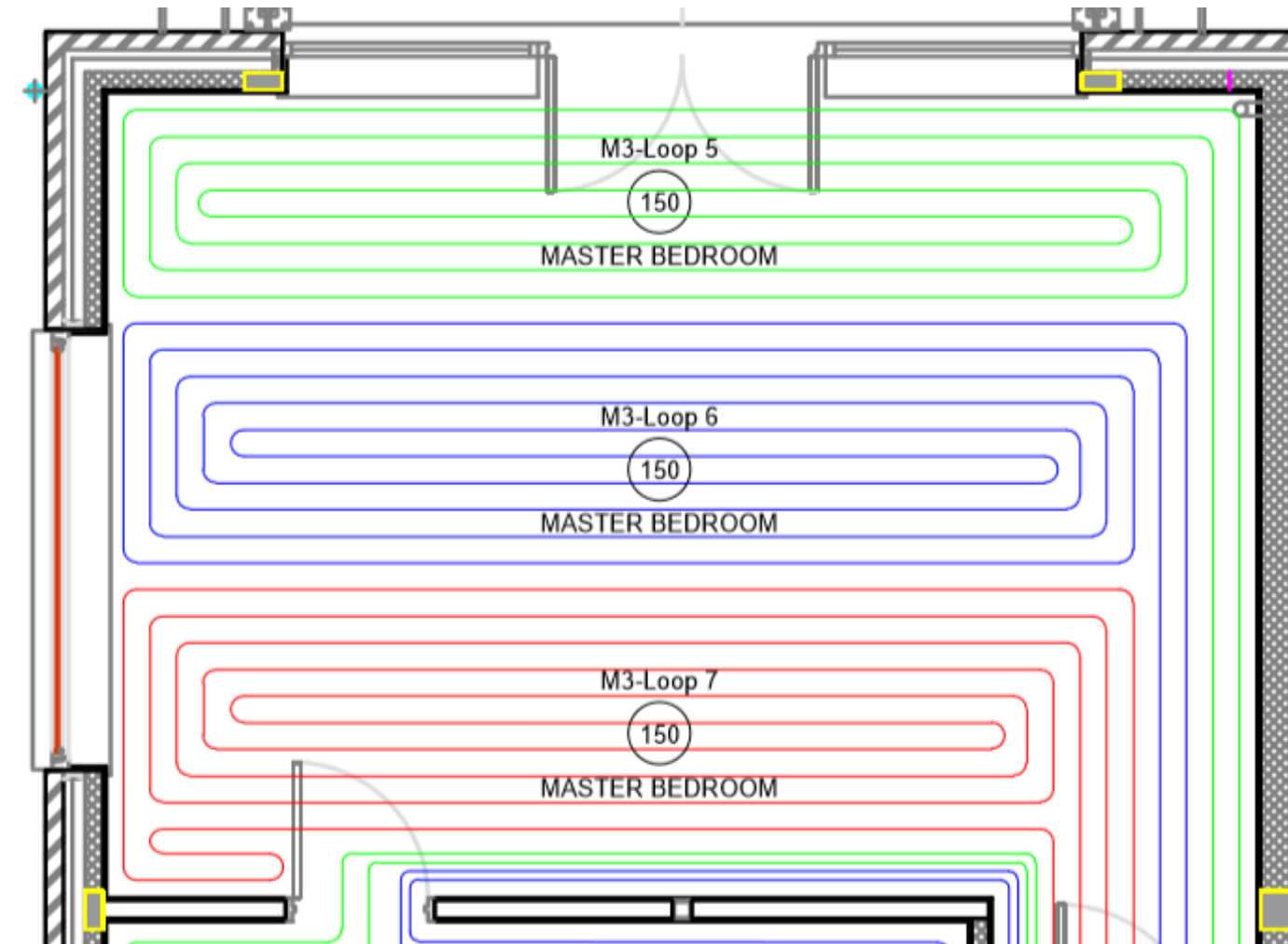
Only 2 actuator heads may be connected to an output.

The scenario shown has 3 loops and will have 3 actuators.

We can either allocate a second output on the controller and connect the actuator directly to the EHF for the 3rd loop, or we can use one output and fit a relay. Note: max 4 outputs per room.

In large houses where you need to use all the outputs because you have lots of rooms, relays will be required to switch the additional actuators

A 5amp relay will open 8 actuator heads.



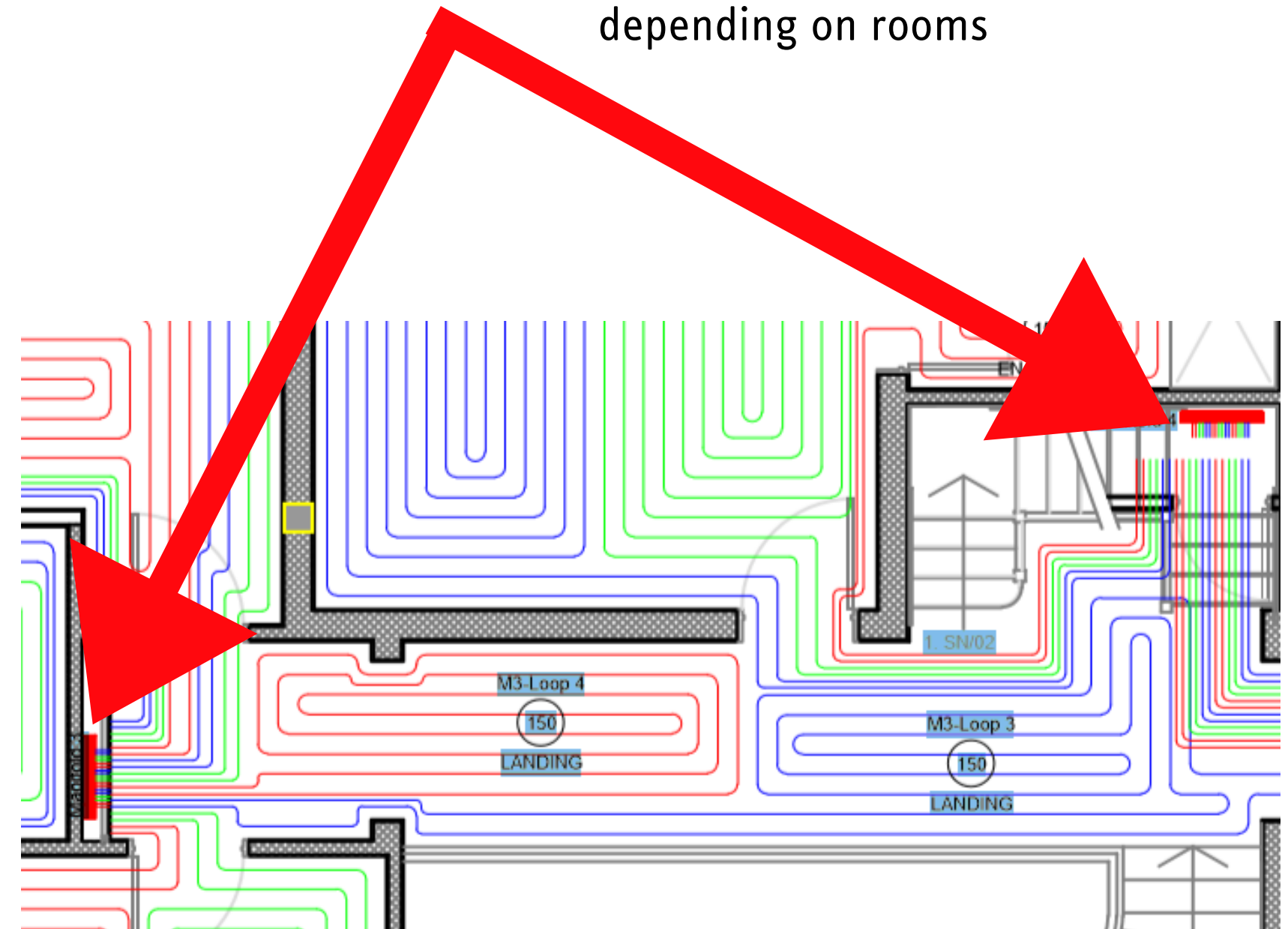
# Split manifolds

In underfloor installations, it is sometimes necessary to position the manifolds in different parts of the building to allow for access and so that rooms are not heated with uncontrolled piping.

If all 3 EHF units have been used, a multi core cable will be needed to connect the two manifold positions, so that only 1 output controller is used.

Manifolds.

May need to be connected with multicore cable, depending on rooms



# Heating circuit control for heat pumps with underfloor

- Easytron is capable of adjusting the heating curve for each room. This needs to be set up inside the Easytron app and works through the ISG (Internet gateway). You can select which circuit the heads are connected to in the installation wizard.
- NO Further Stiebel room controls are needed for heating only solutions.
- NO uncontrolled zones need to be left for underfloor heating.
- The heating pumps will run throughout the heating season. Minimum flow rates are maintained by using the dynamic flow control settings within the app. This means a buffer tank is not necessary.
- For air source heat pumps all actuator heads open 2 mins before the heat pump defrosts.

# The base station: EZE

At least one base station is required. More can be added, although only one can be connected to the heat pump.

A 230V supply and a connection to the internet are needed.

The base station can connect to the internet through an ethernet cable or wi-fi connection. This makes it possible to position the unit in the house for the best signal, rather than inside a plant room.

Each wireless component acts as a transmitter as well as a receiver to avoid dead spots in communication.

It is possible to commission the system without an internet connection using additional accessories (EIL or EIW) which can be used to create a temporary local network.





# Radiator

## Actuators: ERS

- Radiator actuators can be fitted to the Easytron system. A maximum of 4 actuators per room.
- In systems with these controls, an open zone must be provided, e.g. a bathroom. This is because the dynamic flow control does not function, nor are they suitable for cooling or defrost.
- They will adjust the heating curve and provide individual room control.
- There is also an open window function that will shut the valves if dramatic heat loss is detected



# Room temperature sensor: ERT

- Captures the actual room temperature in rooms with underfloor heating.
- Battery-operated and connected wirelessly to the EASYTRON base station.
- Suitable for wall mounting.



# Cooling with Easytron

- The Easytron System is suitable for cooling via underfloor systems.
- You can select which rooms that you wish to be cooled in the app.
- The heads open when the rooms are hot and close when satisfied.
- An FET will need to be fitted for each circuit that requires cooling (shown right). This would be positioned in the warmest place in that area.
- The room in which the FET is positioned also requires its usual room stat and control and is not an open zone.



**STIEBEL ELTRON**

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