CONDUCTOR W1

Installation instruction

Controller

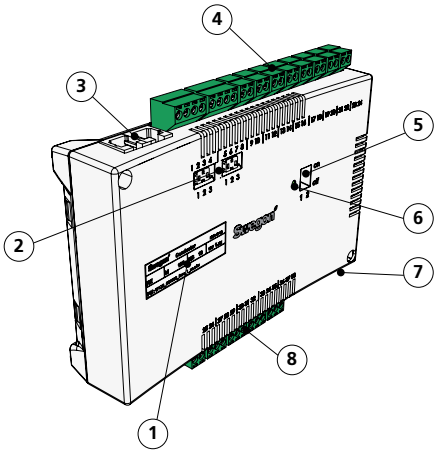


Figure 1. Overview of the Controller.

Pos 1. Product marking.

Pos 2. Termination resistance.

1 = The unit is the last node in the network

2 = The unit is the first node in the network

3 = The unit is situated between the first and last nodes

Pos 3. Modular Contact / ModBUS RTU units (pressure sensor and room unit)

Pos 4. Inputs: Wiring terminals for the connection of sensors.

Pos 5. DIP switch for ModBUS RTU.

1 (=on) boosts the controller to Modbus address 1

2 (=on) access to Modbus register via BMS system (requires a restart of the controller)

Pos 6. LED, indicates the status of the controller.

Pos 7. Input and output for signal to external relay.

Pos 8. Outputs: Wiring terminals for the connection of valve and damper actuators.

Product Identification Label

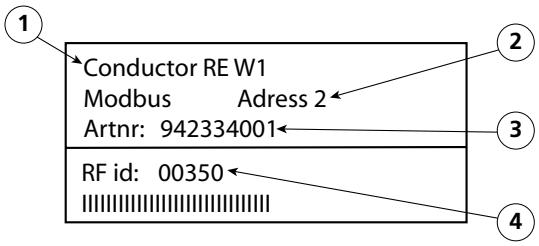


Figure 2. Product identification label on the controller.

Pos 1. Name of the product.

Pos 2. ModBus RTU address default from factory.

Pos 3. Part number.

Pos 4. Controller ID number.

To mount the controller.

Mounting on a DIN rail

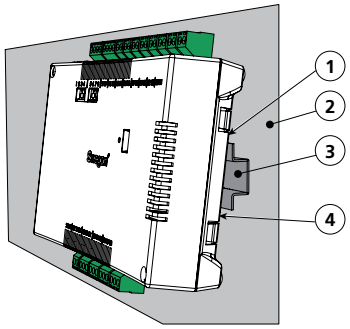


Figure 3. To mount the controller.

Pos 1. Plastic hooks

Pos 2. Supporting surface

Pos 3. DIN rail

Pos 4. Snap-on fastener.

To be installed above a false ceiling

If a DIN rail is NOT available pre-mounted or is not available, the controller can be appropriately mounted above the false ceiling (**not** on the module).

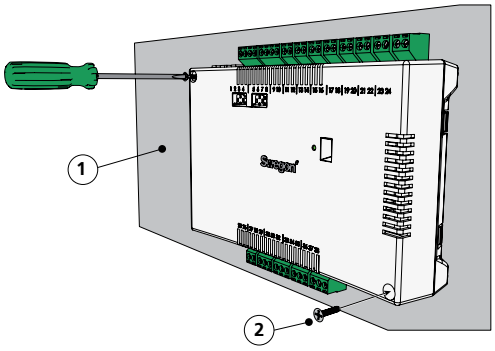


Figure 4. To mount the controller.

Pos 1. Supporting surface, NOT for the comfort module or climate beam.

Pos 2. Screws.

a. Secure the controller by means of screws in the upper left-hand and the lower right-hand corners. Use screws suitable for the supporting surface.

WARNING:
All electrical installation, including wiring the actuators, valve actuators and various sensors is to be carried out by the electrical contractor or the systems contractor.

Safety precautions / Responsibility
It is the responsibility of the user to do the following:
- *Assess all the risks involved in the activities which are related to this instruction.*
- *Make sure that all necessary safety precautions are made before starting the activities which are related to this instruction.*

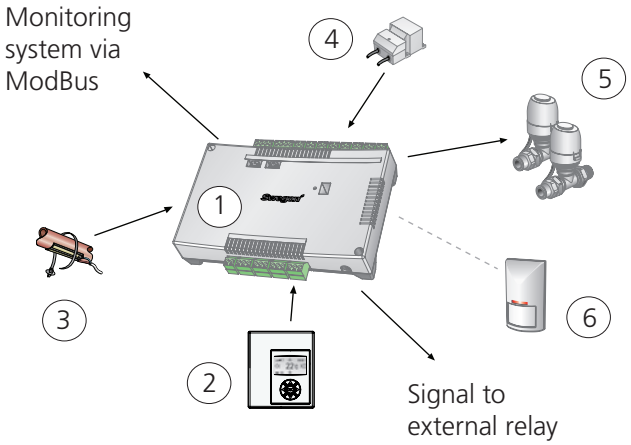
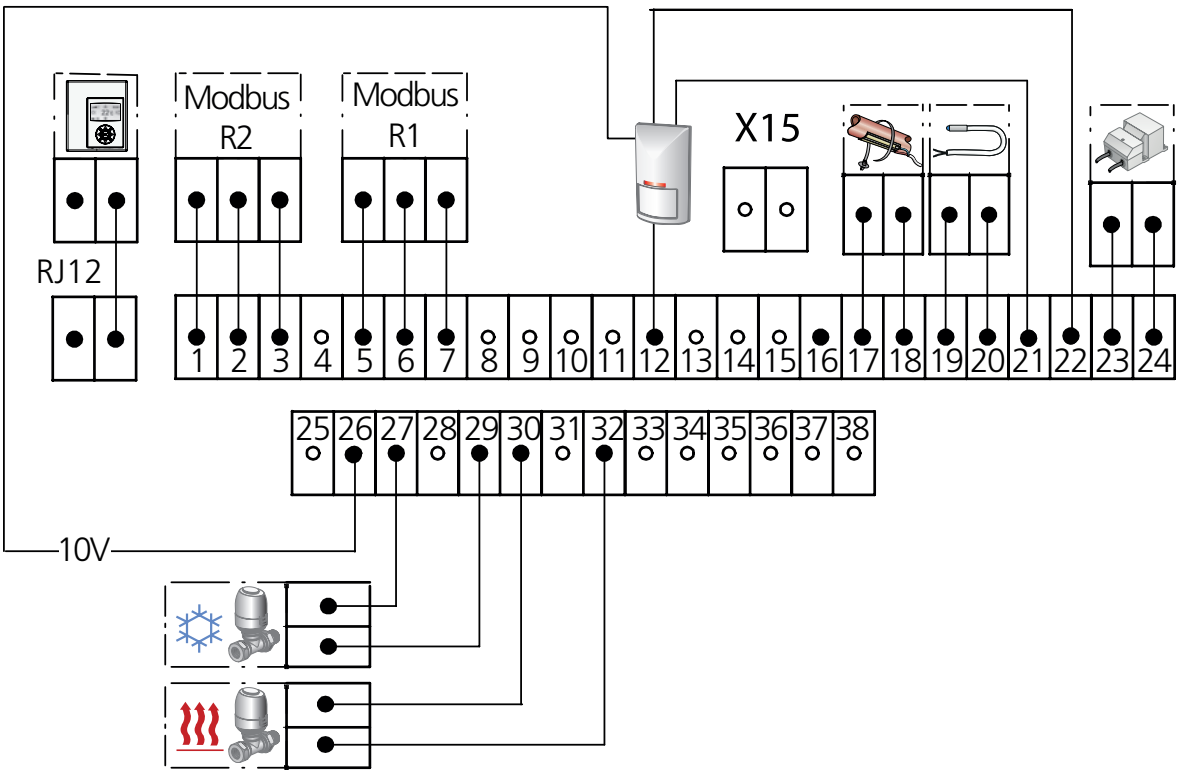


Figure 5. CONDUCTOR W1: Integral Components

1	*Controller*	*Conductor RE*
2	*Room unit*	*Conductor RU*
3	*Condensation sensor*	*SYST CG*
4	*Transformer*	*SYST TS-1*
5	*Valve actuator*	*LUNA a AT-2*
6	*Presence detector*	*DETECT Occupancy*

Room unit	RJ12	Modular contact
MODBUS RS2	1	Data (B)
	2	Data (A)
	3	Earth
MODBUS RS1	5	Data (B)
	6	Data (A)
	7	Earth
Condensation sensor	17	Resistance
	18	
Temperature sensor	19	KTY
	20	
Transformer	23	+ 24V AC
	24	-G0
Presence detector	26	10V
	12	0-10V
	21	+24V AC
	22	-G0
Valve actuator for cooling water.	27	-G0
	29	+24V
Valve actuator for heating water.	30	-G0
	32	+24V



Figuree 6. Wiring diagram

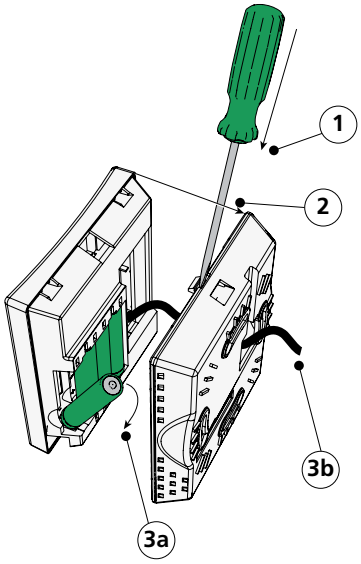


Figure 7. Wireless: 3xAAA, (pos 3a), Cable: RJ12 (pos 3b).

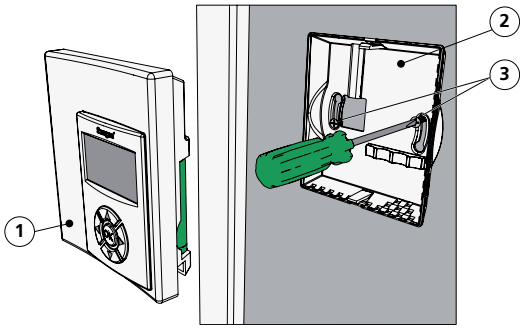


Figure 8. To mount the room unit (thermostat).
Pos 1. Front piece.
Pos 2. Back piece.
Pos 3. Screws suitable for the supporting surface.

- *Recommended installation height RU = standard height for light switches*
- *RU should not be exposed to direct sunlight, or other disturbing heat sources.*
- *Room air should be able to circulate around the front and sides of the RU.*

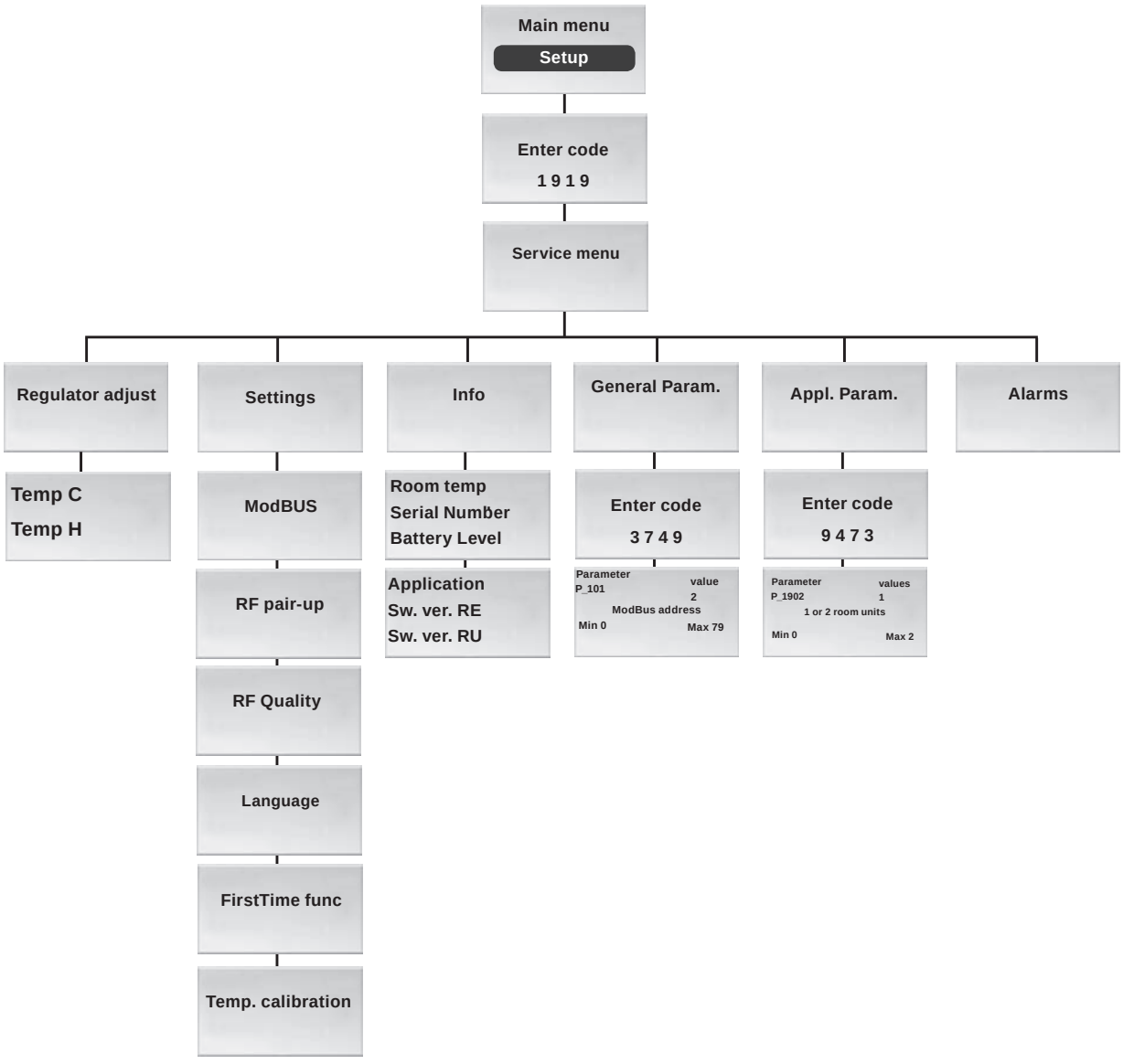


Figure 9. Overview over the menu system of the room unit.

Room unit overview

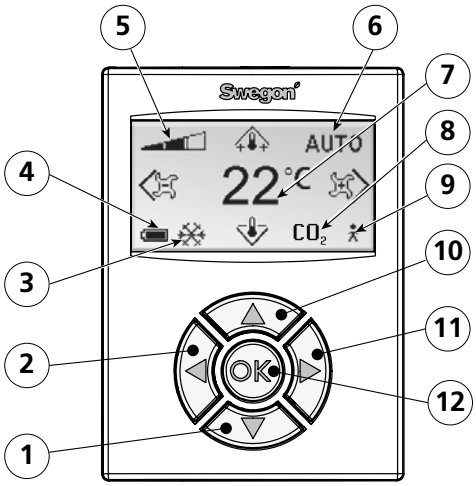
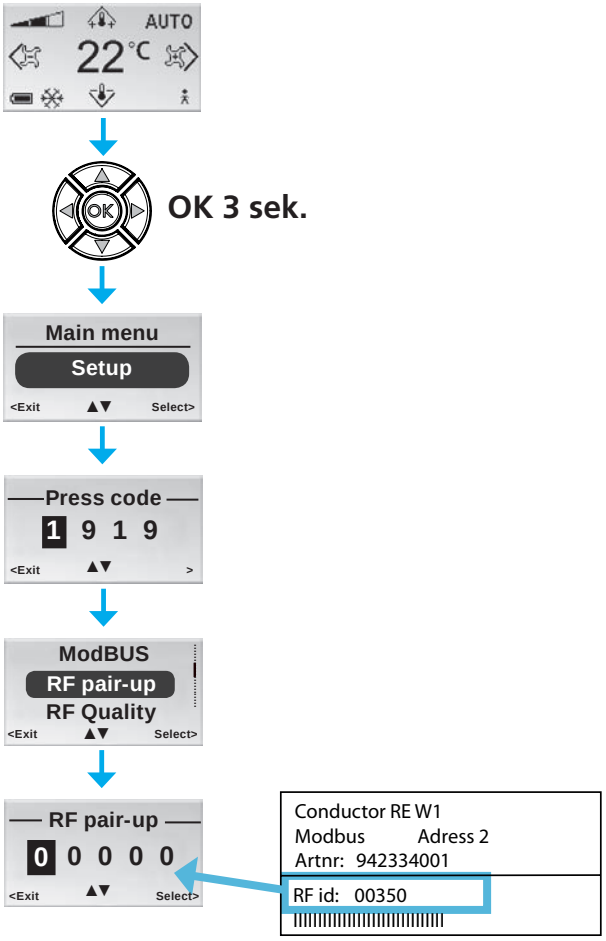


Figure 10. Overview of the main image of the room unit.

Pos 1. Cursor key for moving DOWN.
Pos 2. Cursor key for moving to the LEFT.
Pos 3. Heating/cooling.
Pos 4. Battery charge status/Window status.
Pos 5. Current airflow.
Pos 6. Operating mode.
Pos 7. Current temperature.
Pos 8. Carbon dioxide content.
Pos 9. Occupancy status
Pos 10. Cursor key for moving UP.
Pos 11. Cursor key for moving to the RIGHT.
Pos 12. OK key.

RF pair-up (When RJ12 not used)



Product identification label on the controller.

Conductor to BMS and SuperWise

First and middle zone

Last zone

