# Installation instruction

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**Symbols** Warning/Caution!



Art.No. 942428022



# Controller

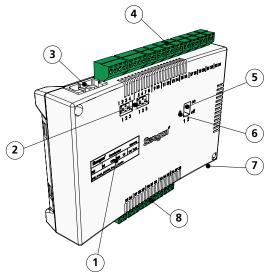


Figure 1. Overview of the Controller.

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.

# To mount the controller Mounting on a DIN rail

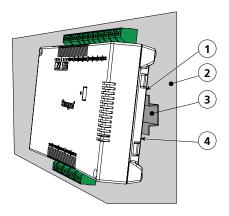


Figure 3. To mount the controller.

- 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).

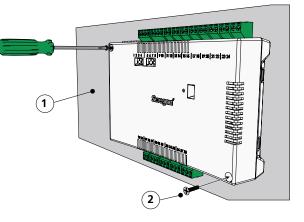


Figure 4. To mount the controller.

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 lefthand and the lower right-hand corners. Use screws suitable for the supporting surface.

#### **Product Identification Label**

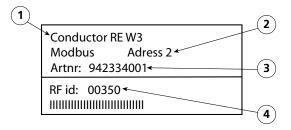


Figure 2. Product identification label on the controller.

- Pos 1. Name of the product.
- Pos 2. ModBus RTU address default from factory.
- Pos 3. Part number.

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Pos 4. Controller ID number.



# Wiring

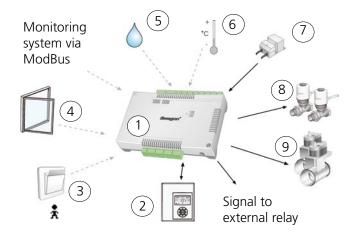


Figure 5. CONDUCTOR W3: Integral Components

- 1 Controller
- 2 Room unit
- 3 Key card/
- presence detector4 Window contact
- 5 Condensation sensor
- 6 External temp. sensor
- 7 Transformer
- 8 Valve actuator
- 9 Ventilation damper incl. damper actuator

Conductor RE Conductor RU SYST SENSO/ Detect Occupancy

CONDUCTOR T-TG SYST TS-1 ACTUATOR b 24V NC CRTc -aaa-2 (aaa = dimension)

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	КТҮ
	20	
Transformer	23	+ 24V AC
	24	-G0
Window contact	25	10V
	10	10V
Key card	26	10V
	12	10V
Valve actuator for cooling water.	27	-G0
	29	+24V
Valve actuator, for heating water.	30	-G0
	32	+24V
Damper, supply air (SA)	33	-G0
	34	0-10V
	35	+24V
Damper, extract air (EA)	36	-G0
	37	0-10V
	38	+24V

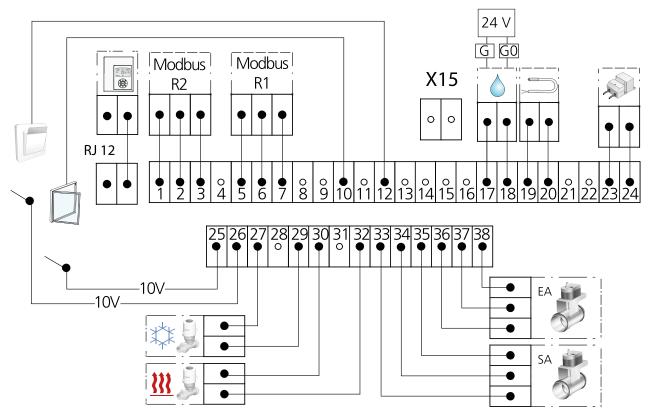


Figure 6. Wiring diagram, CONDUCTOR W3



# Room unit

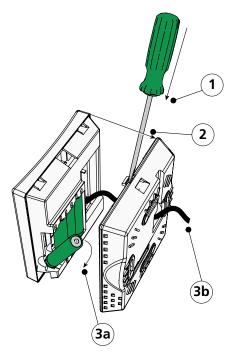
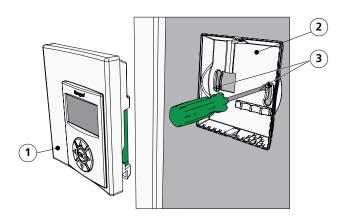


Figure 7. Wireless: 3xAAA, (pos 3a), Cable: RJ12 (pos 3b).



*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.

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#### Overview over the menu system

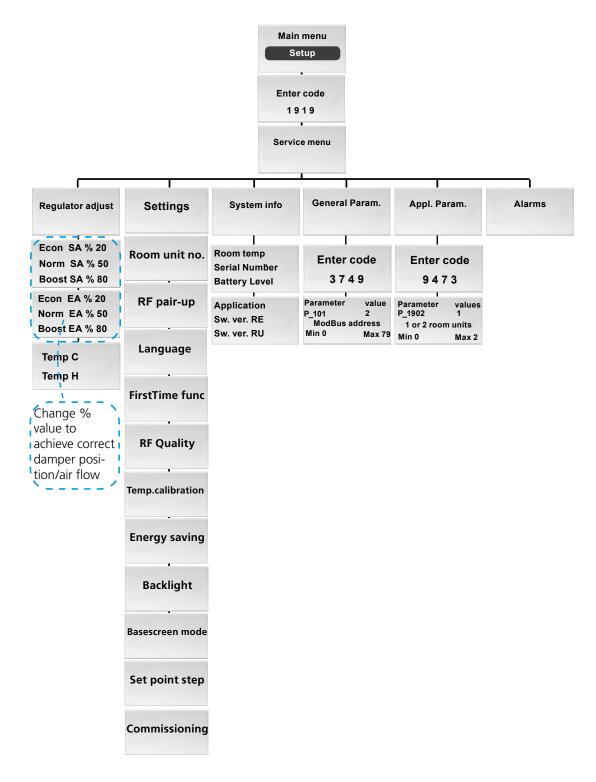


Figure 9. Overview over the menu system of the room unit.



#### Room unit overview

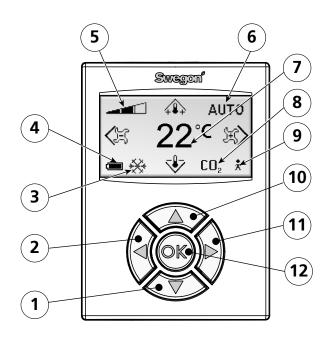
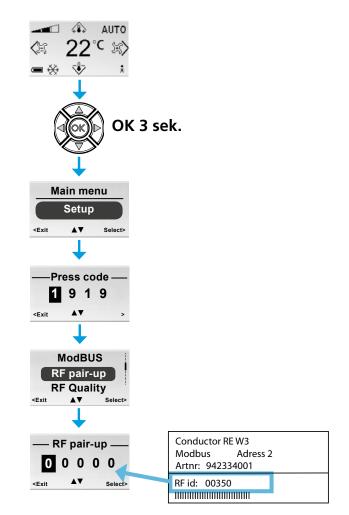


Figure 10. Overview of the main image of the room unit.

- 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.

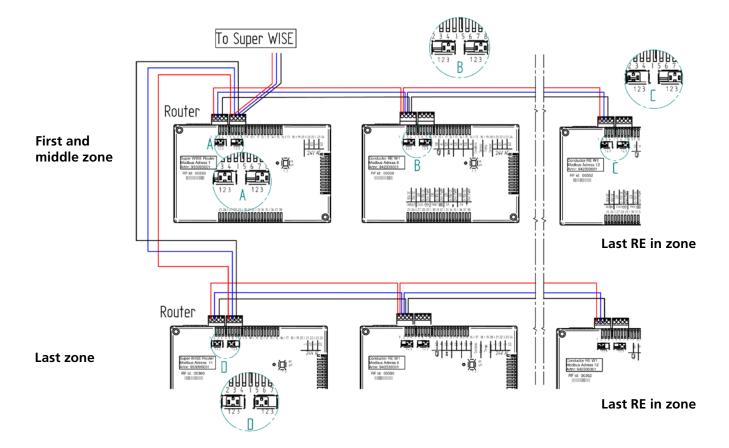
#### RF pair-up (When RJ12 not used)

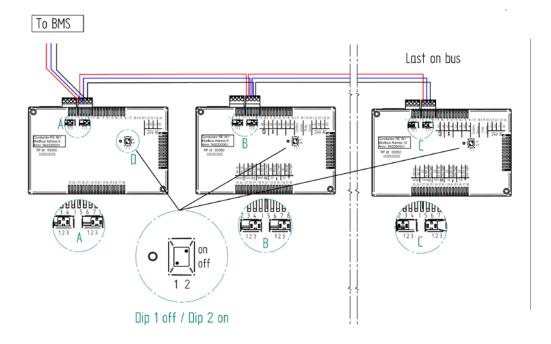


*Product identification label on the controller.* 



# Conductor to BMS and SuperWise (WISE gen.1)









#### 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 be-fore starting the activities which are related to this instruction.

#### For US and Canada market

WARNING:

The power feeding shall be a Low Voltage class 2 circuit.

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