# CONDUCTOR W3

## Installation instruction

### Controller

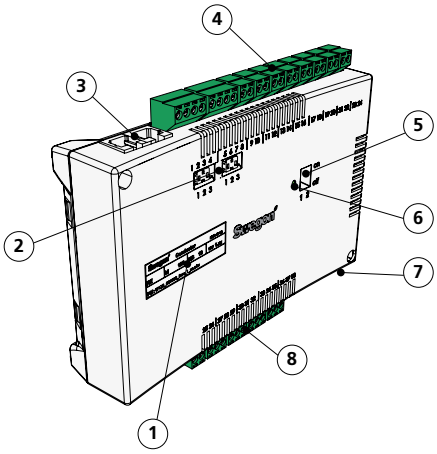



*Figure 1. Overview of the Controller.*

*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

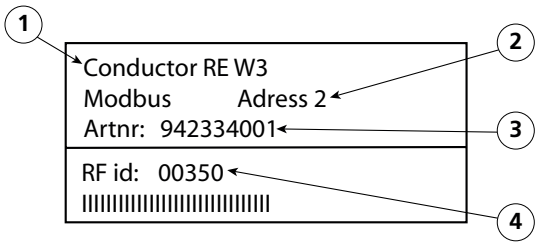



*Figure 2. Product identification label on the controller.*

*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

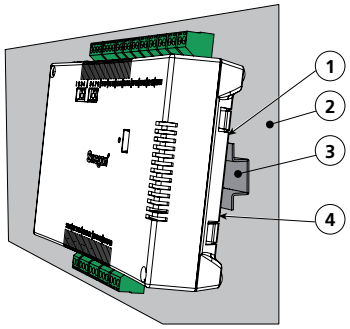



*Figure 3. To mount the controller.*

*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).

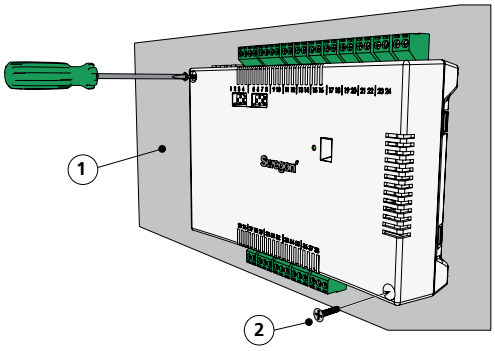



*Figure 4. To mount the controller.*

*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.*

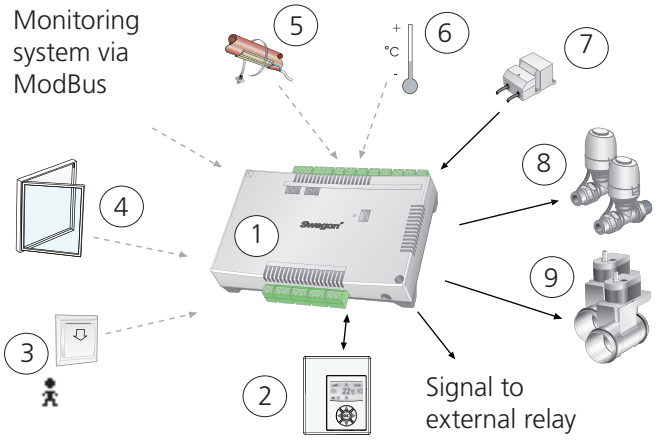



*Figure 5. CONDUCTOR W3: Integral Components*

| | | |
|---|---|---|
| 1 | *Controller* | *Conductor RE* |
| 2 | *Room unit* | *Conductor RU* |
| 3 | *Key card/ presence detector* | *SYST SENSO/ Detect Occupancy* |
| 4 | *Window contact* | |
| 5 | *Condensation sensor* | *SYST CG* |
| 6 | *External temp. sensor* | *CONDUCTOR T-TG* |
| 7 | *Transformer* | *SYST TS-1* |
| 8 | *Valve actuator* | *LUNA a AT-2* |
| 9 | *Ventilation damper incl. damper actuator* | *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 | KTY |
| | 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 | 33 | -G0 |
| | 34 | 0-10V |
| | 35 | +24V |
| Damper, extract air | 36 | -G0 |
| | 37 | 0-10V |
| | 38 | +24V |

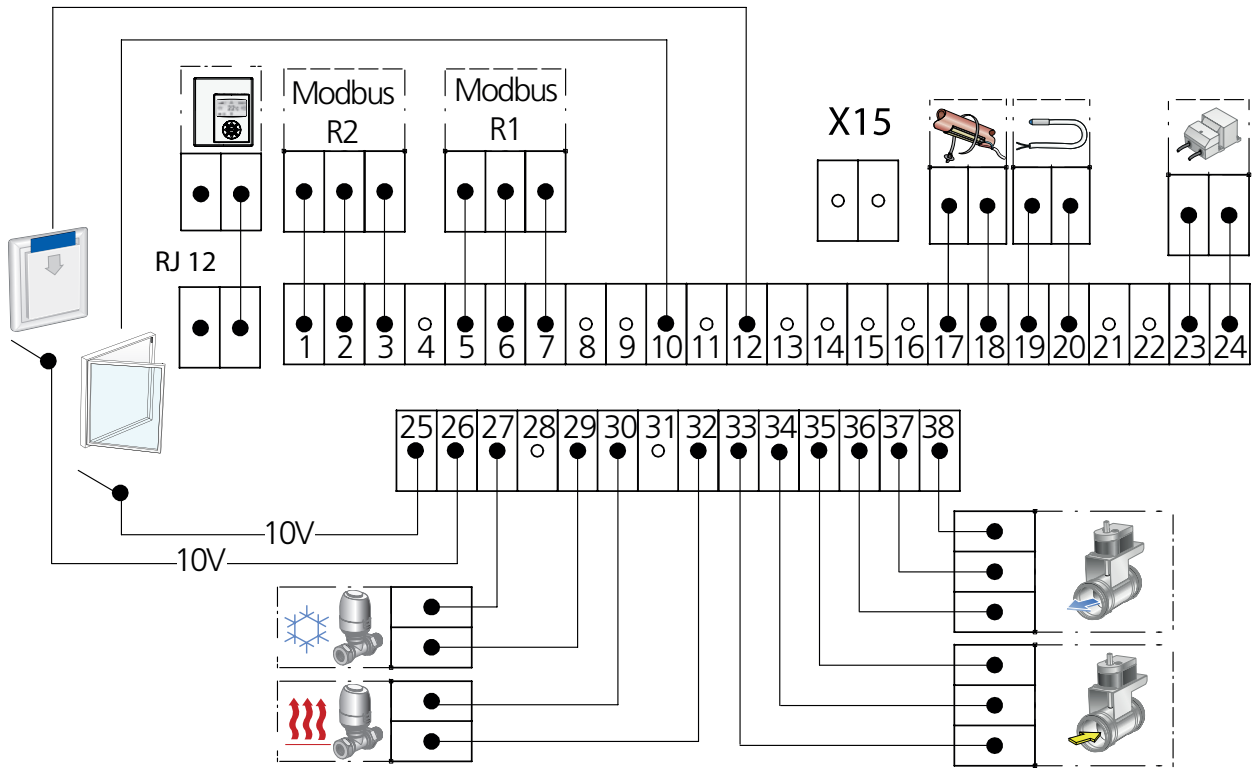



*Figure 6. Wiring diagram, CONDUCTOR W3*

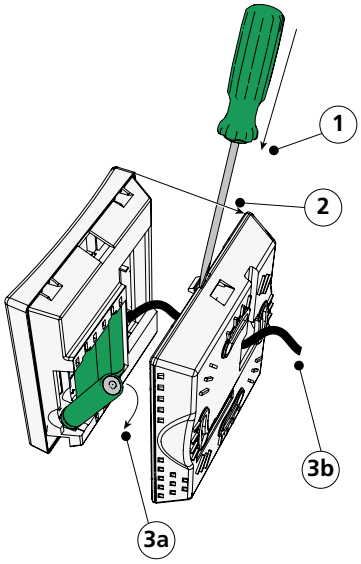



*Figure 7. Wireless: 3xAAA, (pos 3a), Cable: RJ12 (pos 3b).*

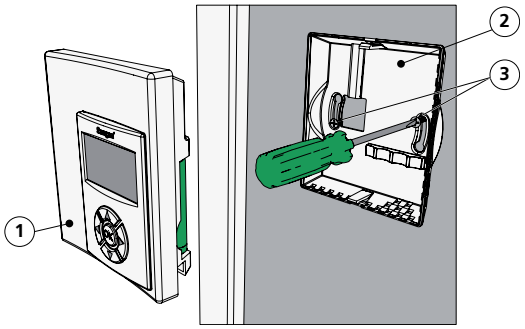



*Figure 8. To mount the room unit (thermostat).*
*Pos 1. Front piece.*
*Pos 2. Back piece.*
*Pos 3. Screws suitable for the supporting surface.*

- *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.*

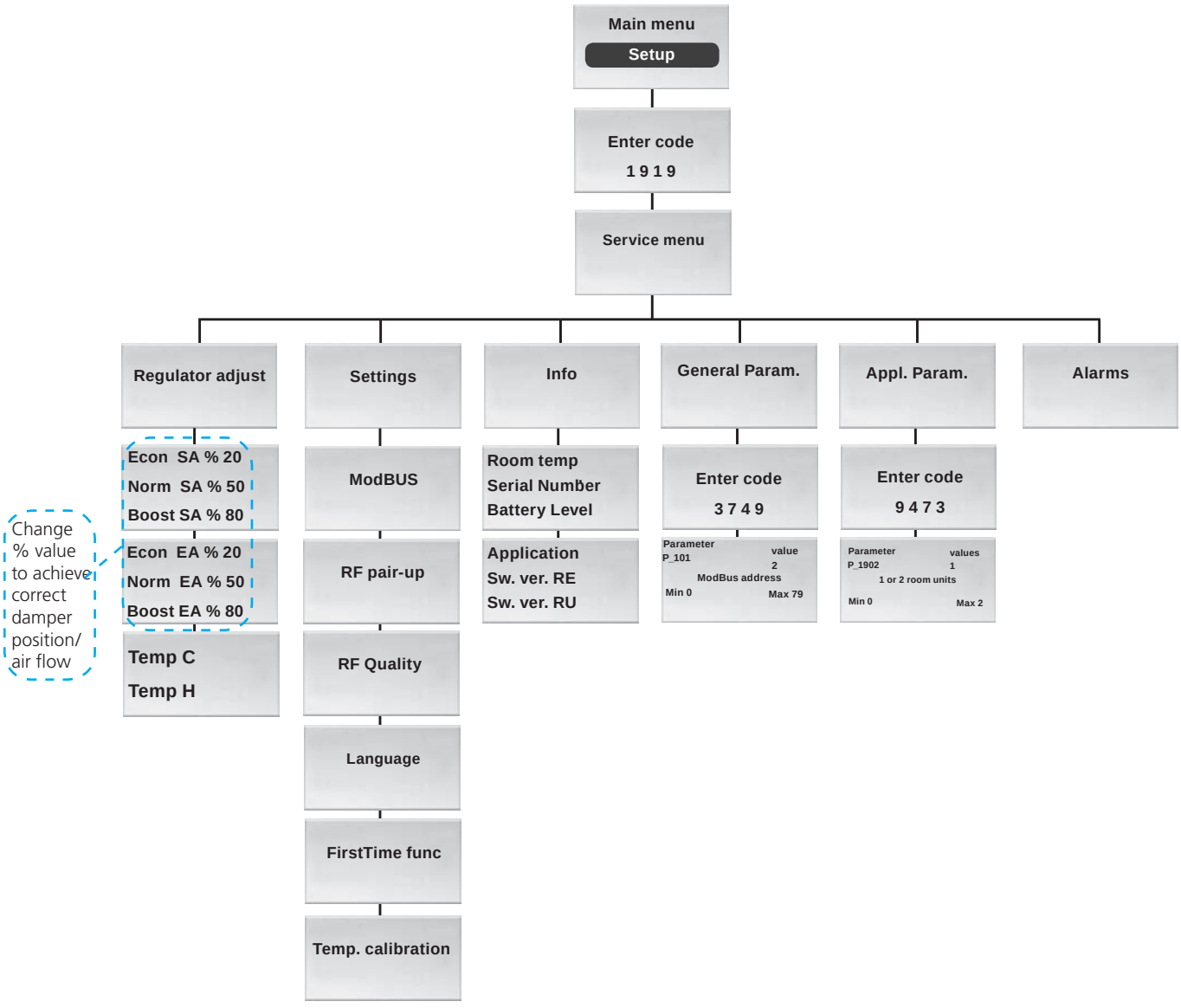



*Figure 9. Overview over the menu system of the room unit.*

## Room unit overview

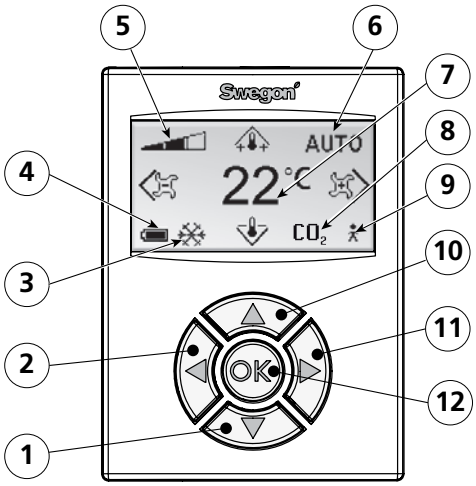
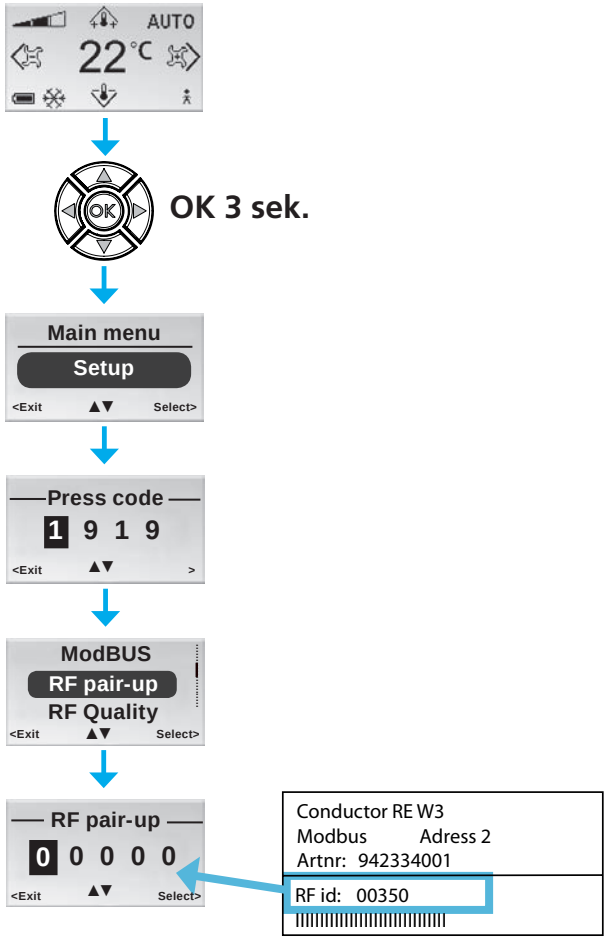



*Figure 10. Overview of the main image of the room unit.*

*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.*

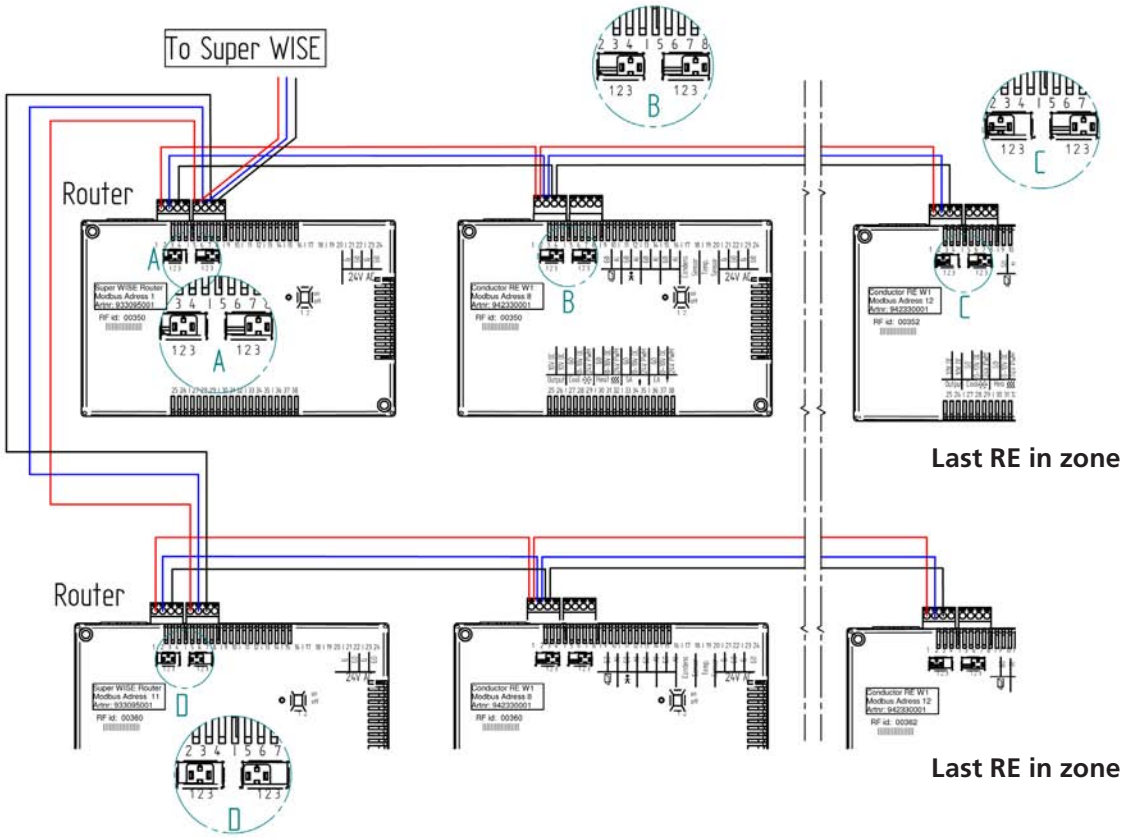
## RF pair-up (When RJ12 not used)




*Product identification label on the controller.*

## Conductor to BMS and SuperWise

**First and middle zone**




**Last zone**

