

CONDUCTOR W1/CCO

Installation instruction for PARAGON with CCO

20190923

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Symbols

Warning/Caution!



Controller

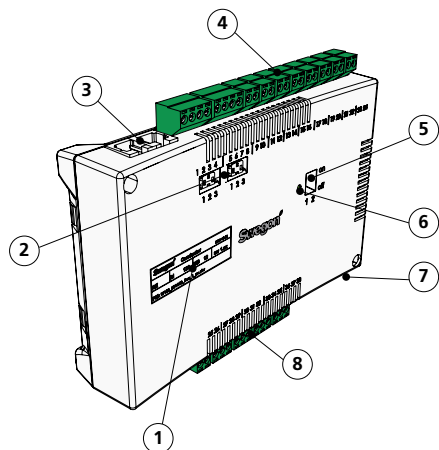


Figure 1. Overview of the Controller.

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

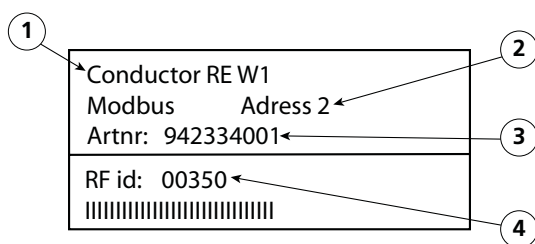


Figure 2. Product identification label on the controller.

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

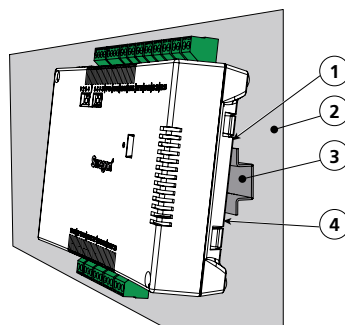


Figure 3. To mount the controller.

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).

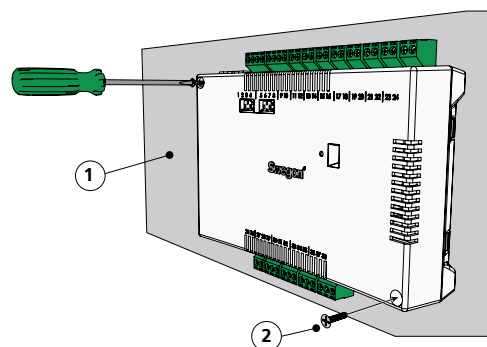


Figure 4. To mount the controller.

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.

Wiring, CONDUCTOR W1 / CCO

| 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 |
| CCO-Valve for cooling and heating water. | 27 | -G0 (blue) |
| | 28 | 0-10V DC (black) |
| | 29 | +24V PWM (brown) |

| | |
|---------------------------------------|---|
| P_1109 | 1 |
| ActuatorCool 1=NC,2=0-10V,3=NO, 4=CCO | |
| min | 1 |
| max | 4 |

| | | |
|---------------|-----|---|
| P_1137 | 100 | % |
| 4pipe POS max | | |
| min | 0 | |
| max | 100 | |

| | | |
|---------------|-----|---|
| P_1138 | 55 | % |
| 4pipe POS min | | |
| min | 0 | |
| max | 100 | |

| | | |
|---------------|-----|---|
| P_1139 | 45 | % |
| 4pipe NEG max | | |
| min | 0 | |
| max | 100 | |

| | | |
|---------------|-----|---|
| P_1140 | 0 | % |
| 4pipe NEG min | | |
| min | 0 | |
| max | 100 | |

For more information read CONDUCTOR W1/W3 Technical manual.

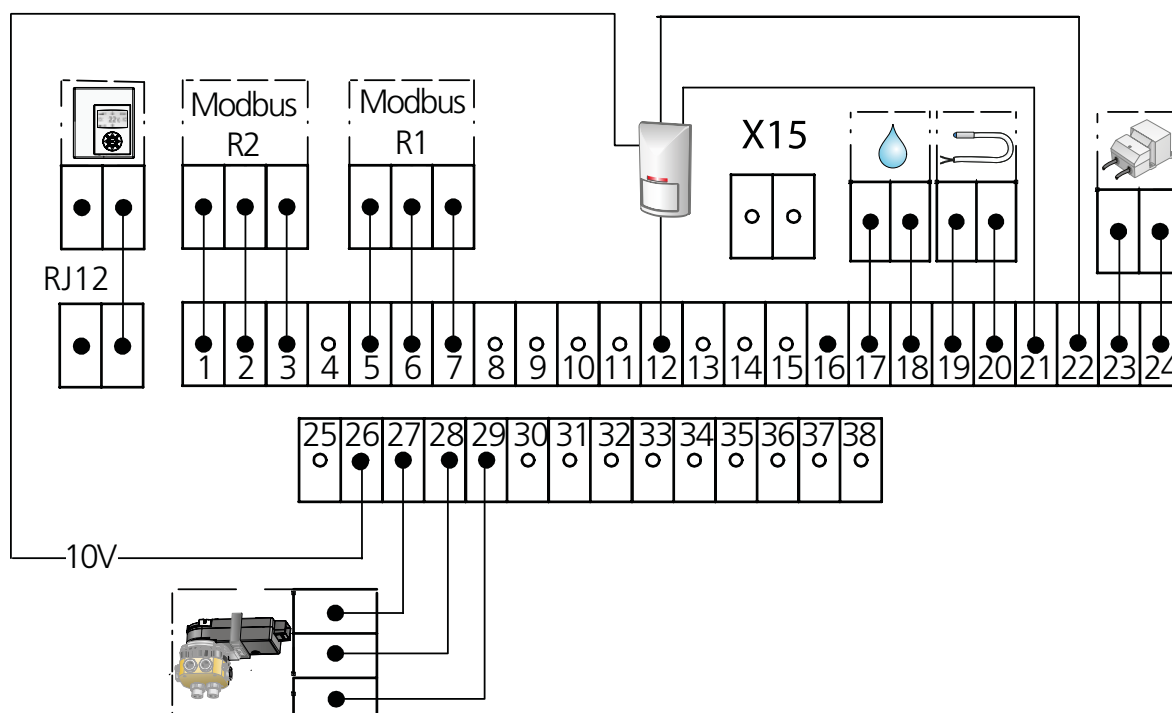


Figure 6. Wiring diagram

Room unit

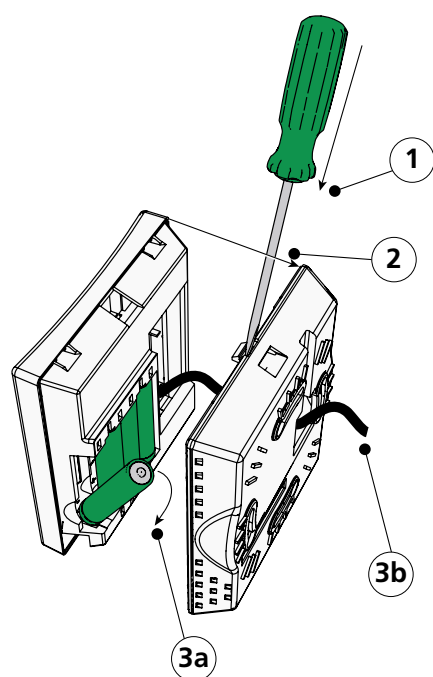


Figure 7. Wireless: 3xAAA, (pos 3a), Cable: RJ12 (pos 3b).

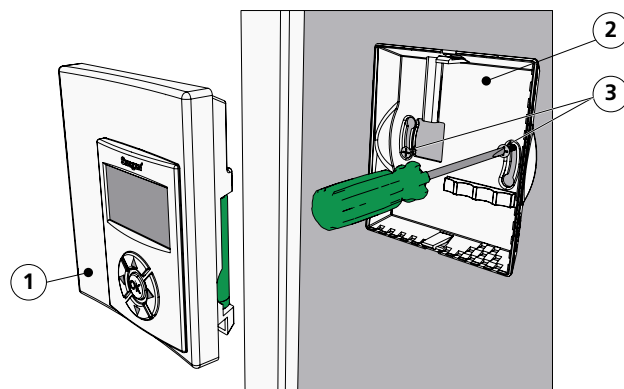


Figure 8. To mount the room unit (thermostat).

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.

Overview over the menu system

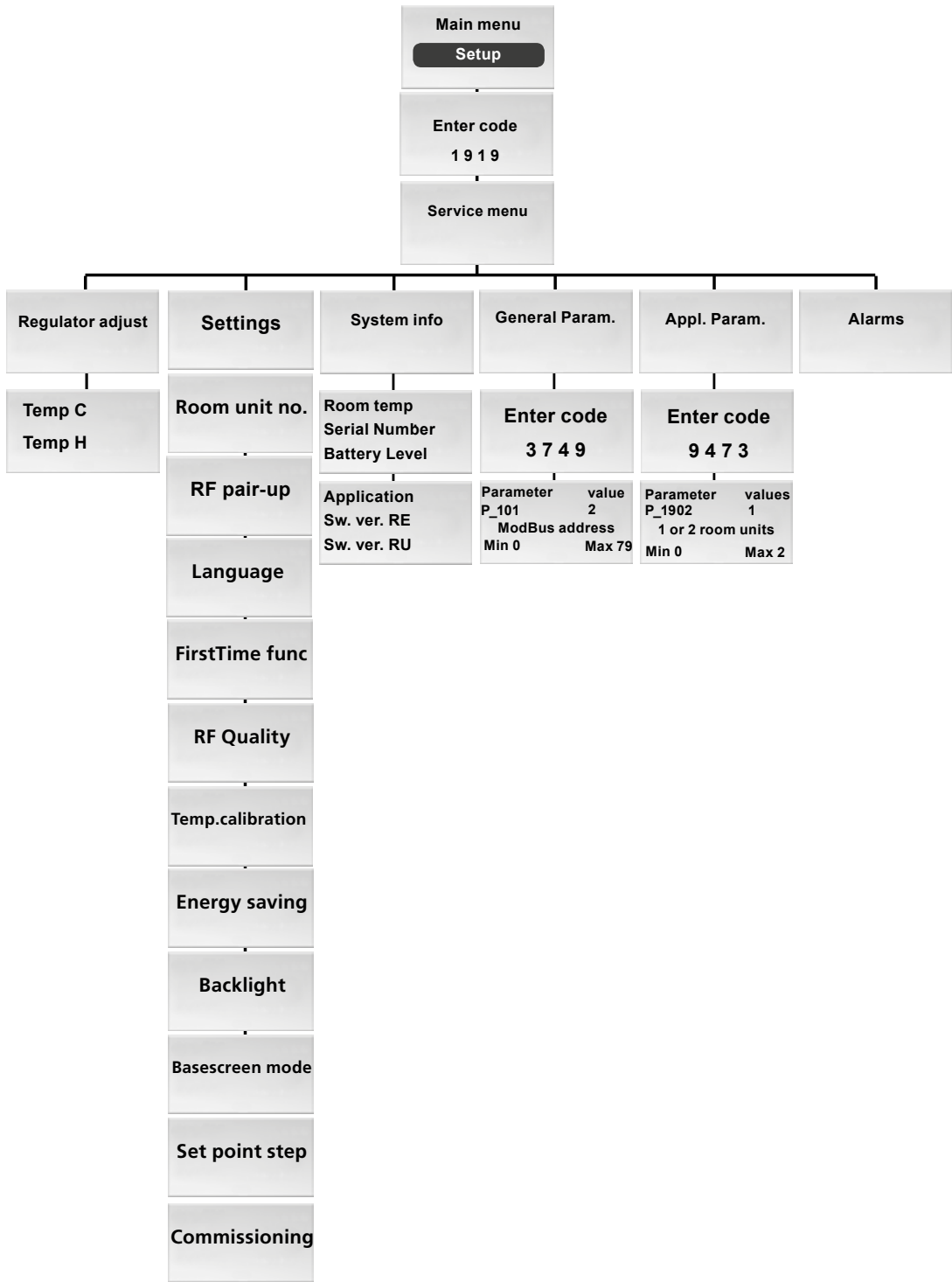


Figure 9. Overview over the menu system of the room unit.

Room unit overview

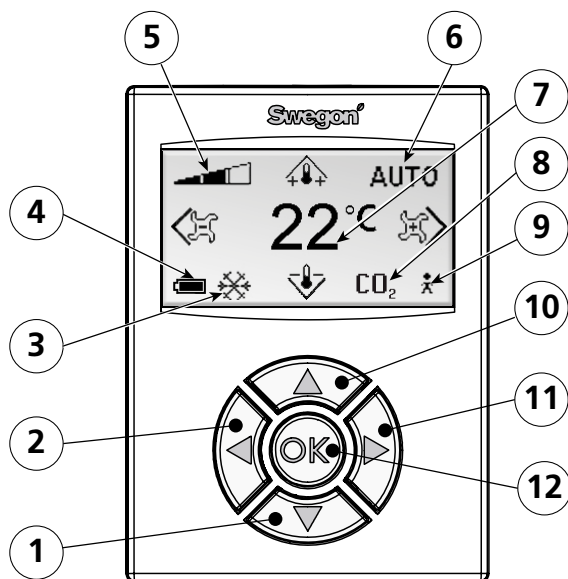


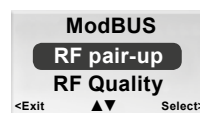
Figure 10. Overview of the main image of the room unit.

- 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)



OK 3 sek.



Conductor RE W1
Modbus Adress 2
Artnr: 942334001

RF id: 00350

Product identification label on the controller.

**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.