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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.

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.

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.
Wiring

Figure 5. CONDUCTOR W3: Integral Components
1 Controller
2 Room unit
3 Key card
4 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
ACTUATOR b 24V NC
CRTc -aaa-2
(aaa = dimension)

Figure 6. Wiring diagram, CONDUCTOR W3

<table>
<thead>
<tr>
<th>Room unit</th>
<th>RJ12</th>
<th>Modular contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODBUS RS2</td>
<td>1</td>
<td>Data (B)</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Data (A)</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Earth</td>
</tr>
<tr>
<td>MODBUS RS1</td>
<td>5</td>
<td>Data (B)</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>Data (A)</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>Earth</td>
</tr>
<tr>
<td>Condensation sensor</td>
<td>17</td>
<td>Resistance</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Temperature sensor</td>
<td>19</td>
<td>KTY</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Transformer</td>
<td>23</td>
<td>+ 24V AC</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>-G0</td>
</tr>
<tr>
<td>Window contact</td>
<td>25</td>
<td>10V</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>10V</td>
</tr>
<tr>
<td>Key card</td>
<td>26</td>
<td>10V</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>10V</td>
</tr>
<tr>
<td>Valve actuator for cooling water.</td>
<td>27</td>
<td>-G0</td>
</tr>
<tr>
<td></td>
<td>29</td>
<td>+24V</td>
</tr>
<tr>
<td>Valve actuator for heating water.</td>
<td>30</td>
<td>-G0</td>
</tr>
<tr>
<td></td>
<td>32</td>
<td>+24V</td>
</tr>
<tr>
<td>Damper, supply air (SA)</td>
<td>33</td>
<td>-G0</td>
</tr>
<tr>
<td></td>
<td>34</td>
<td>0-10V</td>
</tr>
<tr>
<td></td>
<td>35</td>
<td>+24V</td>
</tr>
<tr>
<td>Damper, extract air (EA)</td>
<td>36</td>
<td>-G0</td>
</tr>
<tr>
<td></td>
<td>37</td>
<td>0-10V</td>
</tr>
<tr>
<td></td>
<td>38</td>
<td>+24V</td>
</tr>
</tbody>
</table>
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)

- Press code
  1919
- ModBUS
  RF pair-up
  RF Quality
- OK 3 sek.
- Product identification label on the controller.
Conductor to BMS and SuperWise (WISE gen.1)

First and middle zone

Last zone

To Super WISE

Last RE in zone

Router

To BMS

Last on bus

Dip 1 off / Dip 2 on

Router

Last RE in zone

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 before 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.