SIRe Basic
Quick guide

SIReB

Original instructions

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Wiring diagram - Basic

SIReB

SIReB1/B2/B1EC

Pot. Unit ID C2 X5 C1 X4 ROOM X3 ACTUATOR SUPPLY

SIReCC6XX (max 50 m)

L=2m

SIReCC6XX (max 50 m)

L=1,5m

SD230

230V~

SIReRTX (optional)

SIReUB1

SD230

230V~

SIReB1/B2/B1EC

Pot. Unit ID C2 X5 C1 X4 ROOM X3 ACTUATOR SUPPLY

SIReCC6XX (max 50 m)

L=2m

SIReCC6XX (max 50 m)

L=1,5m

SD230

230V~

SIReB1/B2/B1EC

Pot. Unit ID C2 X5 C1 X4 ROOM X3 ACTUATOR SUPPLY

SD230

230V~
1

2

SIRe B1/B2/B1EC
Quick guide/Start up

1. Check that all constituent parts are present (see section Constituent parts).
2. Mount and connect all units and components and where applicable accessories (e.g. actuator), see wiring diagram. When several units are connected set a unique ID for each unit (1-9) which is set in the ID selector of the SIReB1/B2/B1EC.
3. Power up all units.
4. If required, disconnect and reconnect SIReUB1 to initialize the system control.

Operation without control unit

To run the unit temporarily without external control select mode 0.

Each unit should have a unique ID on its SIReB1/B2/B1EC card.
**Start up**

Activate heat
0 = No heat
1 = Heat step 1 possible
2 = Heat step 2 possible
(3 = Heat step 3 possible)
Heat steps controlled by thermostat.

**Prevailing room temperature**

Set desired room temperature 5 - + 30 °C

Set fan steps 1 - 5
### Constituent parts

#### SIReB

- **SIReUB1**: Control unit with room temperature sensor
  - **HxWxD**: 120x70x35
  - **L [m]**: 

- **SIReCC605**: Modular cable RJ12 (6/6)
  - **L [m]**: 5

### Option

- **SIReRTX**: External room temperature sensor
  - **HxWxD**: 70x33x23
  - **L [m]**: 10

- **SIReCJ4**: Joint piece for two pcs. RJ1 (4/4)
- **SIReCJ6**: Joint piece for two pcs. RJ12 (6/6)
- **SIReCC603**: Modular cable RJ12 (6/6)
- **SIReCC605**: Modular cable RJ12 (6/6)
- **SIReCC610**: Modular cable RJ12 (6/6)
- **SIReCC615**: Modular cable RJ12 (6/6)
- **SIReCC640**: Modular cable RJ12 (6/6)
- **SIReCC403**: Modular cable RJ11 (4/4)
- **SIReCC405**: Modular cable RJ11 (4/4)
- **SIReCC410**: Modular cable RJ11 (4/4)
- **SIReCC415**: Modular cable RJ11 (4/4)
Water control - valve kit

### Type Description Connection

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>VLSP15LF</td>
<td>Pressure independent</td>
<td>DN15</td>
</tr>
<tr>
<td>VLSP15NF</td>
<td>Pressure independent</td>
<td>DN15</td>
</tr>
<tr>
<td>VLSP20</td>
<td>Pressure independent</td>
<td>DN20</td>
</tr>
<tr>
<td>VLSP25</td>
<td>Pressure independent</td>
<td>DN25</td>
</tr>
<tr>
<td>VLSP32</td>
<td>Pressure independent</td>
<td>DN32</td>
</tr>
<tr>
<td>VOT15</td>
<td>Three way valve and actuator on/off</td>
<td>DN15</td>
</tr>
<tr>
<td>VOT20</td>
<td>Three way valve and actuator on/off</td>
<td>DN20</td>
</tr>
<tr>
<td>VOT25</td>
<td>Three way valve and actuator on/off</td>
<td>DN25</td>
</tr>
</tbody>
</table>

*) See separate manuals.
Heat regulation

When the room temperature drops below the set point temperature the first heating step is activated. If temperature continues to drop, another heating step is activated (see description below parameters P.00).

Operating modes fan heaters water

Set the maximum fan speed, heating step and desired room temperature. The thermostat is controlling the room temperature by increasing/decreasing the fan speed. When the desired room temperature is reached the actuator/valve will close and the fan stops. Maximum fan speed is limited to step 4.

If Parameter P04 is changed from 1 to 0 (see list of parameters on next page) the fan runs continuously on set speed and the thermostat controls the heating on/off.

General

Manual mode

Decrease the temperature setting below 5 °C and the following symbols are shown in the status window = manual mode.

In manual mode both fan- and heating steps are controlled manually.

Heat regulation

When the room temperature drops below the set point temperature the first heating step is activated. If temperature continues to drop, another heating step is activated (see description below parameters P.00).

System on/off

Press the ON/OFF button for 2 seconds to switch off the system. The unit’s safety functions are still active when the system is switched off, which means that the fan can continue to run for a while.
**Installer menu**

**Parameter menu**

Keep 🈷️ pressed until P00 is shown in the status window. Use arrow up/down to scroll between the parameters. Use arrow up / down to scroll between the parameters.

Press 🈷️ once to change a setting in the parameter menu. Flashing values can be adjusted using the arrow up/down and then confirm. Keep the 🈷️ pressed to return to the status window. (Returning automatically to the status window after about 50 seconds).

**Parameter description**

**P00 Temperature difference heating steps**
Sets the difference between heating steps in auto mode for electric units, alternatively the difference between fan speed steps for water supplied fan heaters.

**List of parameters**

<table>
<thead>
<tr>
<th>Parameter-number</th>
<th>Description</th>
<th>Setting range</th>
<th>Factory setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>P00</td>
<td>Temperature difference between heating steps alternatively difference between fan speed steps.</td>
<td>0,5-10</td>
<td>1.0 °C (0,5 °C SWH)</td>
</tr>
<tr>
<td>P01</td>
<td>Overheating alarm ON/OFF ON=1; OFF=0</td>
<td>1/0</td>
<td>1</td>
</tr>
<tr>
<td>P02</td>
<td>Over run time when heat has been activated</td>
<td>10-300</td>
<td>180 seconds</td>
</tr>
<tr>
<td>P03</td>
<td>Temperature limit for fan over run</td>
<td>10-40</td>
<td>30 °C</td>
</tr>
<tr>
<td>P04</td>
<td>Fan control</td>
<td>0/1</td>
<td>0 = air curtains 1 = fan heater</td>
</tr>
<tr>
<td>P05</td>
<td>Display of unit internal/outlet temperature</td>
<td>0-100</td>
<td></td>
</tr>
<tr>
<td>P06 - P13</td>
<td>Run time</td>
<td>0-99999</td>
<td></td>
</tr>
<tr>
<td>Alarm</td>
<td>Cause</td>
<td>Action</td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>-------</td>
<td>--------</td>
<td></td>
</tr>
<tr>
<td>A.FA Motor alarm</td>
<td>Thermal switch has deployed. One or several motors have overheated. (Only units with withdrawn thermal switches.)</td>
<td>Check that nothing is obstructing the unit's air intake and exhaust. When the overheated motor has cooled the thermal switch shuts again and the alarm can be reset. At repeated alarms, check the motors, replace damaged motors.</td>
<td></td>
</tr>
<tr>
<td>A.ot Over heating alarm</td>
<td>The temperature in the unit has exceeded the alarm limit for overheating. (Only applies to units with internal unit temperature.)</td>
<td>Check that nothing is obstructing the unit's air intake and exhaust, the function of the actuator/valve, return water and internal temperature sensors in the unit.</td>
<td></td>
</tr>
</tbody>
</table>

**Alarm Code Starts to Flash**

3 seconds

![Alarm Code Flashing](image)

**Alarm Code Starts to Flash**

<table>
<thead>
<tr>
<th>Alarm</th>
<th>Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>E.co Communication</td>
<td>PC board SIReB1/B2/B1EC ID=0</td>
<td>Interrupt the power supply and select different ID numbers for all SIReB1/B2/B1EC in the system.</td>
</tr>
<tr>
<td>E.co Communication</td>
<td>Two or more SIReB1/B2/B1EC have the same ID-number.</td>
<td>Interrupt the power supply and select different ID numbers for all SIReB1/B2/B1EC in the system.</td>
</tr>
<tr>
<td>E.co Communication</td>
<td>One or more SIReB1/B2/B1EC do not have programs.</td>
<td>Contact Frico for support.</td>
</tr>
<tr>
<td>E.cF ID-error</td>
<td>Two or more SIReB1/B2/B1EC in the system have different programs.</td>
<td>Contact Frico for support.</td>
</tr>
<tr>
<td>E.rt Room sensor error</td>
<td>Error in or missing external room sensor SIReRTX connected to SIReB1/B2/B1EC.</td>
<td>Always disconnect the power supply when connecting or disconnecting sensors. Check connection of the sensor.</td>
</tr>
<tr>
<td>E.It Internal sensor error</td>
<td>Fault on or missing internal sensor in the unit (applies to units with internal sensor).</td>
<td>Check connection of the sensor. If there is no sensor, contact Frico for support.</td>
</tr>
<tr>
<td>E.ru Room sensor error</td>
<td>Fault on internal room sensor in the control unit SIReUB1.</td>
<td>Check connections between SIReUB1 and SIReB1/B2/B1EC. Replace any modular cables. Check if an external sensor SIReRTX is working. If the error is not rectified the SIReUB1 must be replaced.</td>
</tr>
</tbody>
</table>