



ST-SA-CONTROL

EN TECHNICAL MANUAL

 **SALDA**

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2. SAFETY INSTRUCTIONS AND WARNINGS



Warning – pay attention



Additional information

The main safety instructions:

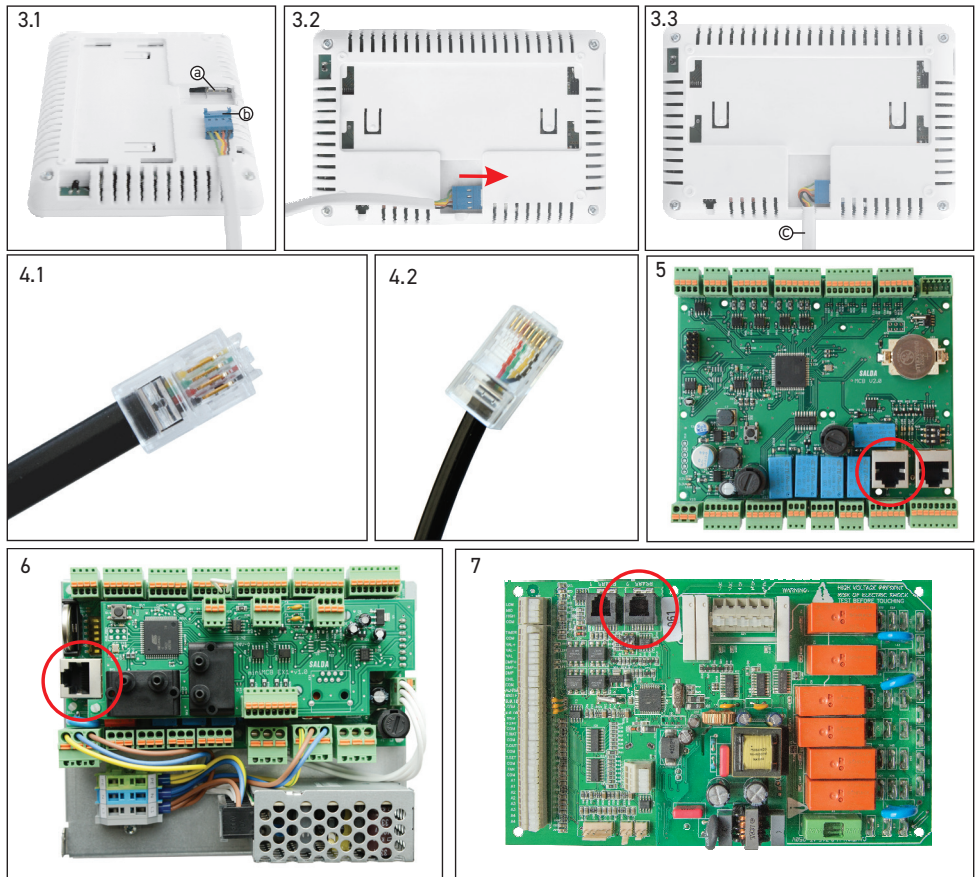
- Operate the equipment strictly within the provided temperature range.
- Prevent the possibility of moisture in the equipment.
- Keep the equipment away from direct sunlight.
- Protect the equipment from mechanical damage (hits, scratches, etc.).
- Mounting and installation work can only be performed by a qualified person.
- Electric connection must be performed according to electrical schematics and the technical requirements of the manufacturer.
- Avoid the use of foreign objects in the equipment.

3. INSTALLATION

3.1. CONNECTING ST-SA-CONTROL TO AIR HANDLING UNIT

Use the following steps to connect a ST-SA-Control remote controller to an air handling unit:

- Unpack the ST-SA-Control remote controller
- Connect the cable to the connector slot on the control panel **pic. 3.1 - 3.3**;
 - Use the cable with an RJ10 connector for the connection to the air handling unit with PRV control board (further RJ10 cable) **pic. 4.1**;
 - Use the cable with an RJ45 connector for the connection to the air handling unit with a MCB or mini MCB control board (further RJ45 cable) **pic. 4.2**.
- Plug in the RJ45 cable connector to the X18 MCB **pic. 5** or X18 miniMCB **pic. 6** connection slot on the control board. Make sure that the unit is switched off during the operation. If the ventilation unit is equipped with a PRV control board, plug the RJ10 cable connector into the RS485_2 slot on the equipment casing, **pic. 7**;
- Plug the ventilation unit into the electric circuit.



3.2. HOW TO MOUNT ST-SA-CONTROL ON THE WALL?

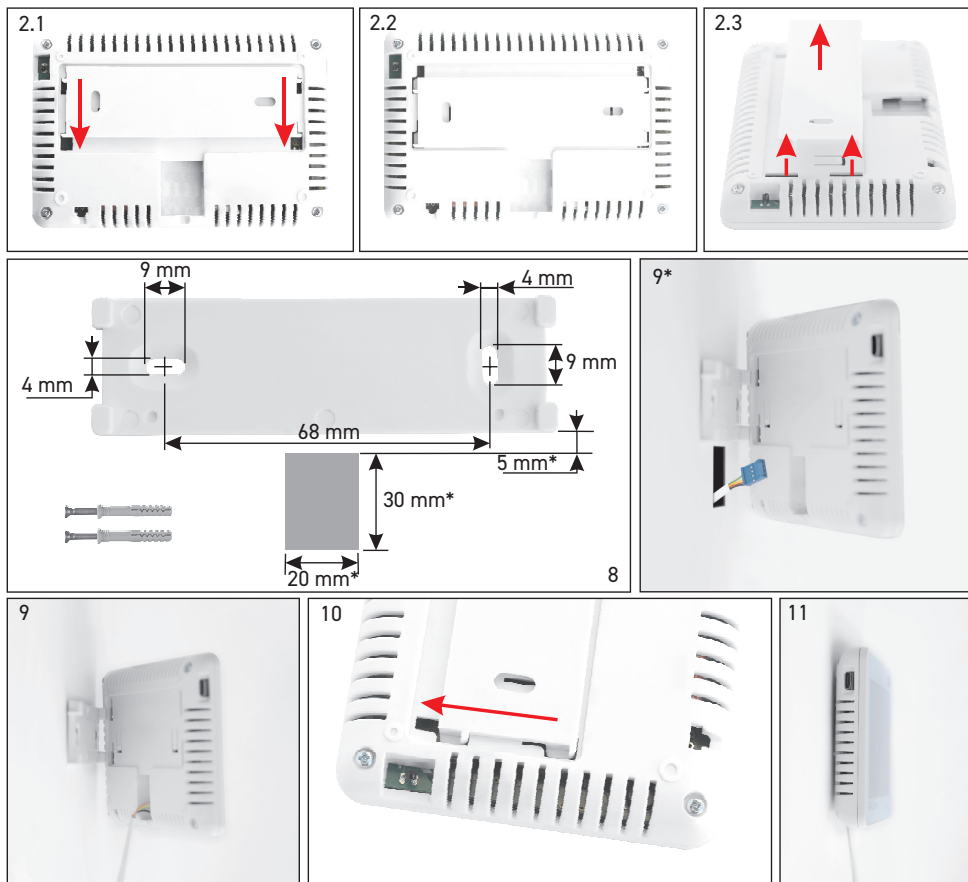
- Turn the panel **fig. 2.1**.
- Put it at the desired location on the wall **pic. 8 - 11**. Mark the positions of the mounting holes.
- Drill two 5 mm holes at the marked positions for the nylon plugs and the hole throughout the wall to install the cable **pic. 9***. Insert the nylon plugs. **NOTE:** You can use special metal plugs (included) instead of the nylon ones.
- Use the included 2.9x16 DIN7981C screws and mount the panel to the wall as indicated in **fig. 8**.
- Put the panel on the mounting bracket **fig. 9 - 11**.



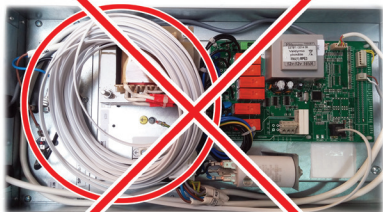
IMPORTANT: IT IS FORBIDDEN to leave the remaining remote controller's cable in the AHU's control box pic. 12!



IMPORTANT: Do not forget to connect the cable before attaching the panel.



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3.3. TROUBLESHOOTING

| FAULT | SUGGESTED ACTION |
|--|--|
| Remote control panel doesn't turn on. | <ul style="list-style-type: none"> • Check if ventilation unit is turned on. • Check connection cable of the control panel • Touch the screen for at least 3 sec. |
| Remote panel can't connect to the ventilation unit | <ul style="list-style-type: none"> • Check the connection cable • Check the connection settings |
| One or several functions do not work properly | <ul style="list-style-type: none"> • Update the software |
| Remote panel does not start up | <ul style="list-style-type: none"> • Update the software |
| Remote panel does not beep after touching | <ul style="list-style-type: none"> • Check the audio settings |
| The colors are not correctly reflected on the screen | <ul style="list-style-type: none"> • Contact the supplier |
| Control panel doesn't work | <ul style="list-style-type: none"> • Contact the supplier |
| Unable to update a software of the remote panel | <ul style="list-style-type: none"> • Contact the supplier |

4. PRODUCT INFORMATION

4.1. DESCRIPTION

The **ST-SA-Control remote control panel** is designed for:

- SALDA ventilation units and other devices based on PRV (RIS EKO 3.0, RIRS EKO 3.0), MCB/MiniMCB (Smarty, AmberAir, AmberAir Compact) controllers.



Attention!

- Some of the articles in this guide may not apply to you. It depends on the type of the control board on your device.
- Always choose accessories manufactured by Salda UAB. Otherwise, the warranty will be void.

4.2. TECHNICAL DATA

| PARAMETER | UNITS | VALUE |
|------------------------|-----------|--------------------------------|
| Mounting | | Surface |
| Voltage | V (AC/DC) | 24 (max 1,3 W) |
| Communication line | | ModBus RS485 |
| Cable length | [m] | 12,5 |
| Dimensions (W x H x D) | [mm] | 123 x 82 x 15 |
| Weight | [g] | 150 g (+- 10 g) |
| Protection class | | IP-30 |
| Ambient temperature | [°C] | 10 - 40 |
| Relative humidity | [%] | 10 - 80 (without condensation) |

4.3. PACKAGE

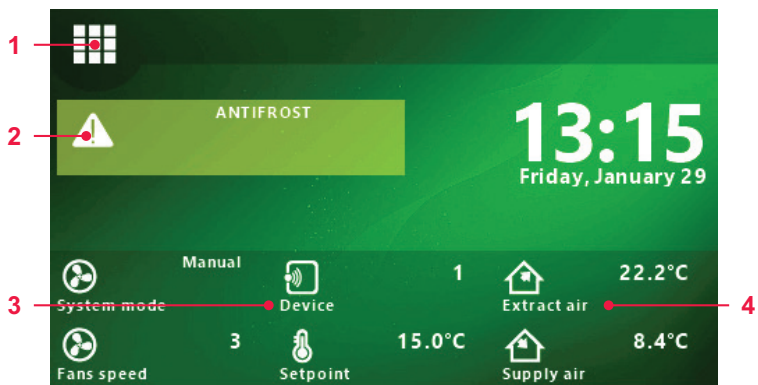
Accessories to a ST-SA-Control:

- 1 x ST-SA-Control control panel;
- 2 x Cables (RJ45 for MCB/MiniMCB and RJ10 for PRV);
- 2 x Fastening elements (screw 3,9 x 25 DIN 7981 – 2 pcs, nylon plug 5x25 – 2 pcs, hammered steel plug 12x30 – 2 pcs.);
- 1 x Quick Launch Guide.

5. INSTRUCTIONS FOR DEVICES WITH PRV CONTROL BOARD

5.1. MAIN WINDOW

MAIN WINDOW



| NO. | LABEL |
|-----|----------------|
| 1 | MENU |
| 2 | ALARMS |
| 3 | WIDGETS |
| 4 | BASIC OVERVIEW |

5.1.1. WIDGETS

MAIN WINDOW » WIDGETS

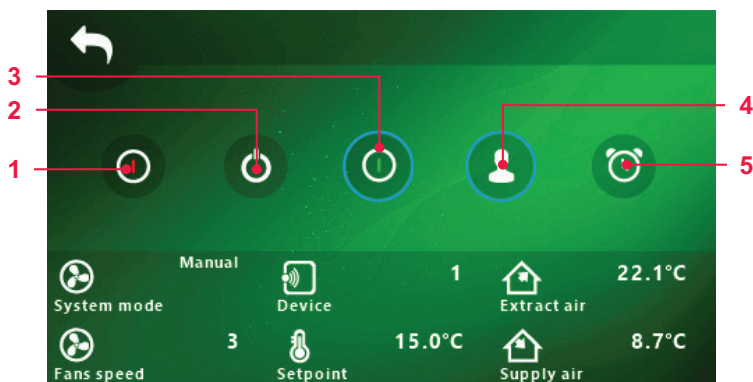







| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|-------------|---|
| 1 | | SYSTEM MODE | Options: • OFF • STANDBY • MANUAL • WEEKLY SCHEDULE |
| 2 | | DEVICE | MENU » SETTINGS » COMMUNICATION |
| 3 | | FANS SPEED | Range: [0 .. 3; BOOST] |

| NO. | ICON | LABEL | DESCRIPTION |
|-----|---|----------|-------------|
| 4 |  | SETPOINT | [°C] |

5.1.1.1. SYSTEM MODE

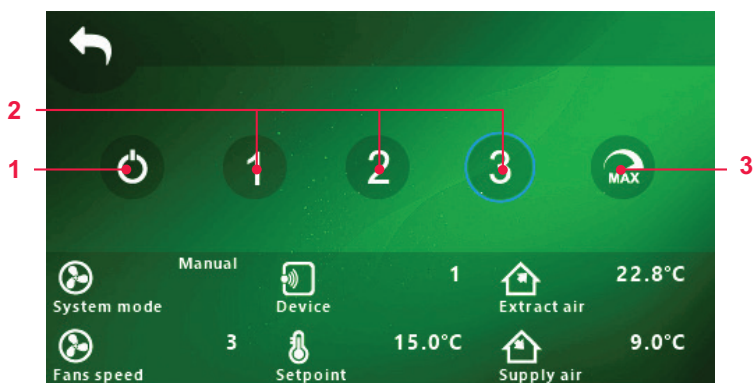
MAIN WINDOW » WIDGETS » SYSTEM MODE



| NO. | ICON | LABEL | DESCRIPTION |
|-----|---|-----------------|---|
| 1 |  | OFF | |
| 2 |  | STANDBY | |
| 3 |  | ON | Options: • MANUAL • WEEKLY SCHEDULE |
| 4 |  | MANUAL | |
| 5 |  | WEEKLY SCHEDULE | |

5.1.1.2. FANS SPEED

MAIN WINDOW » WIDGETS » FANS SPEED



| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|------------|-------------|
| 1 | | OFF (0) | |
| 2 | | FANS SPEED | |
| 3 | | BOOST | |

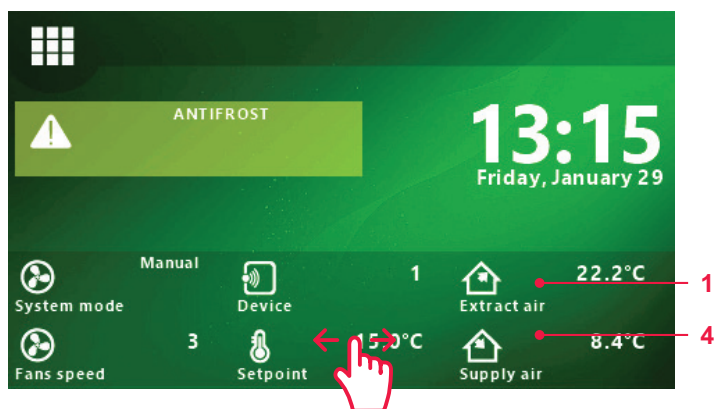
5.1.1.3. SETPOINT

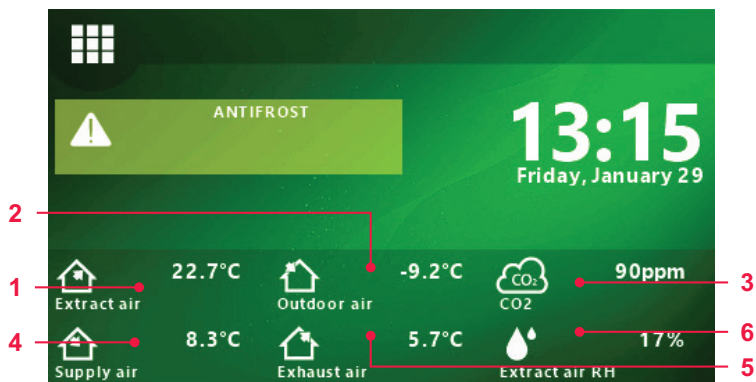
MAIN WINDOW » WIDGETS » SETPOINT



5.1.2. BASIC OVERVIEW

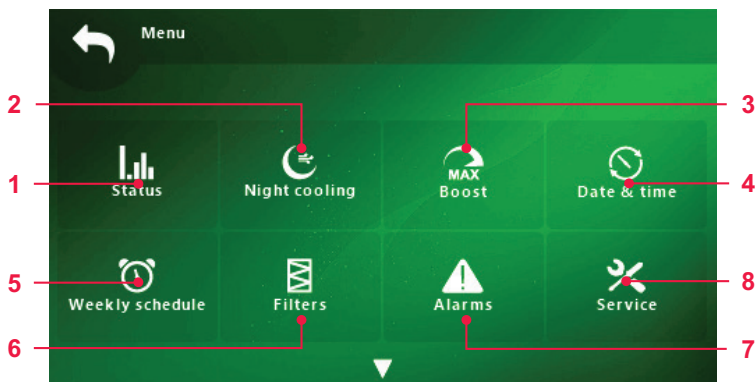
MAIN WINDOW » BASIC OVERVIEW

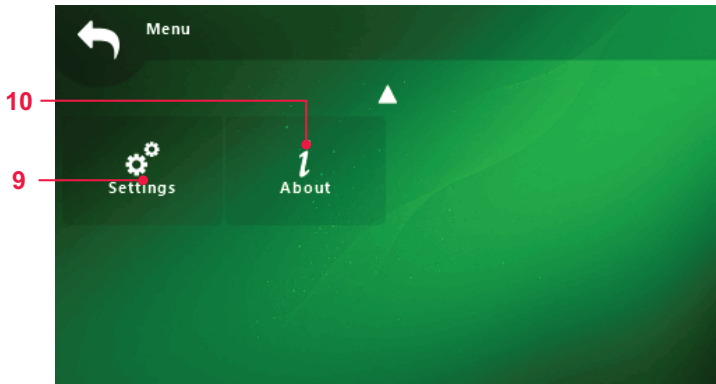




| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|-----------------------------|-------------|
| 1 | | EXTRACT AIR | [°C] |
| 2 | | OUTDOOR AIR | [°C] |
| 3 | | EXTRACT AIR CO ₂ | [PPM] |
| 4 | | SUPPLY AIR | [°C] |
| 5 | | EXHAUST AIR | [°C] |
| 6 | | EXTRACT AIR RH | [%] |

5.2. MENU

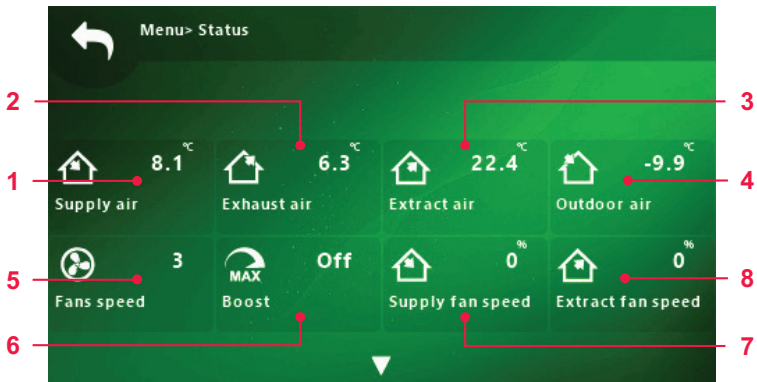


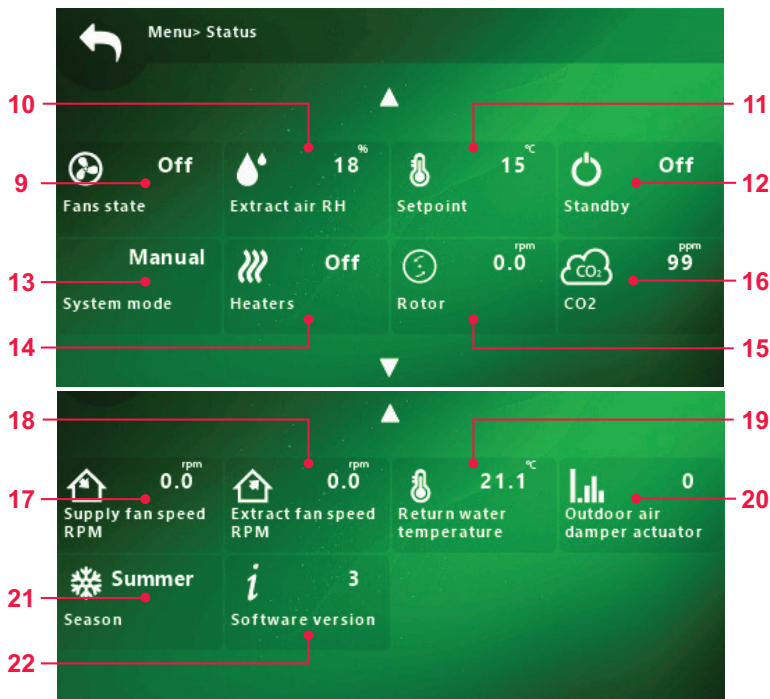


| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|-----------------|-----|------|----------|
| 1 | | STATUS | 6 | | FILTERS |
| 2 | | NIGHT COOLING | 7 | | ALARMS |
| 3 | | BOOST | 8 | | SERVICE |
| 4 | | DATE & TIME | 9 | | SETTINGS |
| 5 | | WEEKLY SCHEDULE | 10 | | ABOUT |











5.2.1. STATUS
MENU » STATUS

Detailed status of AHU.



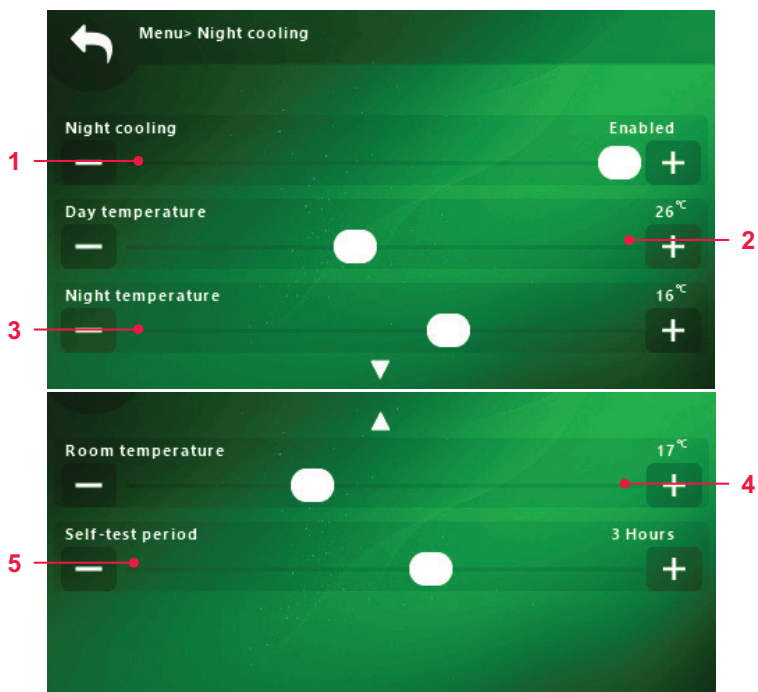


| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|-------------------|---------------------------|
| 1 | | SUPPLY AIR | [°C] |
| 2 | | EXHAUST AIR | [°C] |
| 3 | | EXTRACT AIR | [°C] |
| 4 | | OUTDOOR AIR | [°C] |
| 5 | | FANS SPEED | Range: [0 .. 3] |
| 6 | | BOOST | Options: • OFF • ON |
| 7 | | SUPPLY FAN SPEED | [%] |
| 8 | | EXTRACT FAN SPEED | [%] |
| 9 | | FANS STATE | Options: • OFF • ON |
| 10 | | EXTRACT AIR RH | Range: [0 .. 99 %] |
| 11 | | SETPOINT | Range: [15 .. 30 °C] |
| 12 | | STANDBY | Options: • OFF • ON |

| NO. | ICON | LABEL | DESCRIPTION |
|-----|---|-----------------------------|---|
| 13 |  | SYSTEM MODE | Options: • OFF • STANDBY • MANUAL • WEEKLY SCHEDULE |
| 14 |  | HEATERS | Options: • OFF • ON |
| 15 |  | ROTOR | [RPM] |
| 16 |  | CO ₂ | [PPM] |
| 17 |  | SUPPLY FAN SPEED RPM | [RPM] |
| 18 |  | EXTRACT FAN SPEED RPM | [RPM] |
| 19 |  | RETURN WATER TEMPERATURE | [°C] |
| 20 |  | OUTDOOR AIR DAMPER ACTUATOR | Range: [0 .. 1] |
| 21 |  | SEASON | Range: [SUMMER; WINTER; ALWAYS] |
| 22 |  | SOFTWARE VERSION | |

5.2.2. NIGHT COOLING

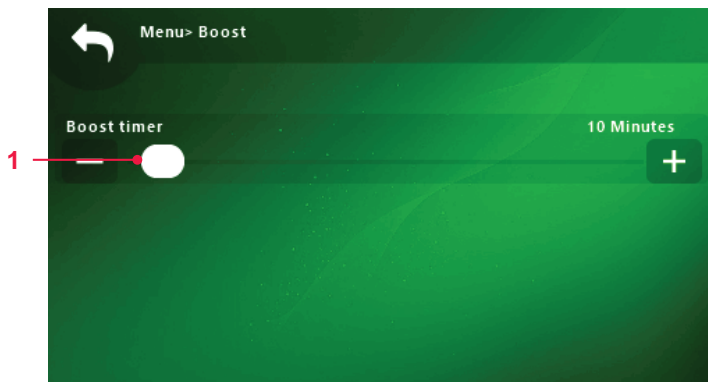
MENU » NIGHT COOLING



| NO. | LABEL | DESCRIPTION |
|-----|-------------------|-------------------------------------|
| 1 | NIGHT COOLING | Options: • DISABLED • ENABLED |
| 2 | DAY TEMPERATURE | Range: [15 .. 40 °C] |
| 3 | NIGHT TEMPERATURE | Range: [0 .. 25 °C] |
| 4 | ROOM TEMPERATURE | Range: [10 .. 30 °C] |
| 5 | SELF-TEST PERIOD | Range: [0 .. 5 HOURS] |

5.2.3. BOOST

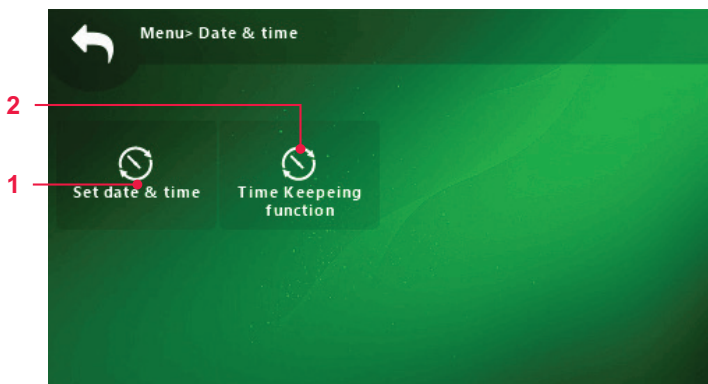
MENU » BOOST



| NO. | LABEL | DESCRIPTION |
|-----|-------------|-----------------------------|
| 1 | BOOST TIMER | Range: [0 .. 255 MINUTES] |

5.2.4. DATE & TIME

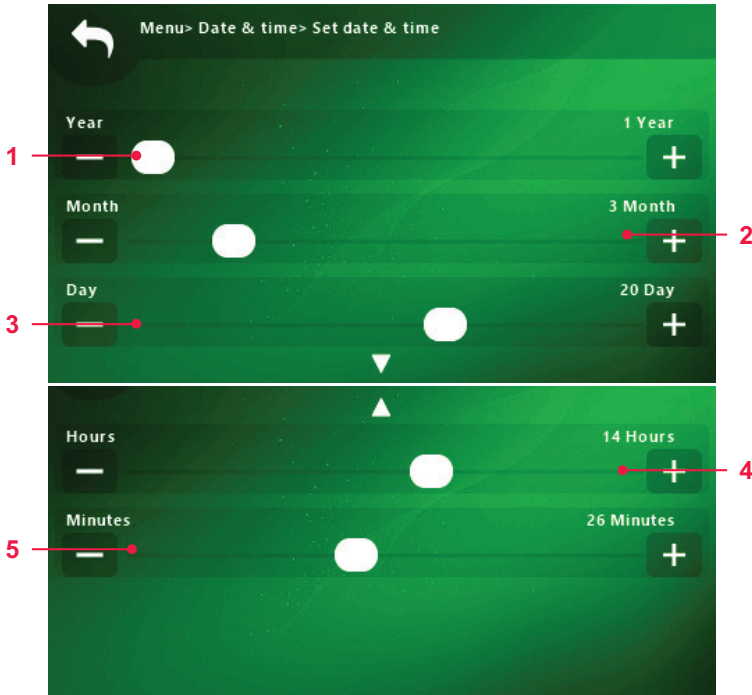
MENU » DATE & TIME



| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|---|-----------------|-----|---|-----------------------|
| 1 |  | SET DATE & TIME | 2 |  | TIME KEEPING FUNCTION |

5.2.4.1. SET DATE & TIME

MENU » DATE & TIME » SET DATE & TIME



| NO. | LABEL | DESCRIPTION |
|-----|---------|----------------------------|
| 1 | YEAR | Range: [0 .. 255 YEARS] |
| 2 | MONTH | Range: [1 .. 12 MONTH] |
| 3 | DAY | Range: [1 .. 31 DAY] |
| 4 | HOURS | Range: [0 .. 23 HOURS] |
| 5 | MINUTES | Range: [0 .. 59 MINUTES] |

5.2.4.2. TIME KEEPING FUNCTION

MENU » DATE & TIME » TIME KEEPING FUNCTION

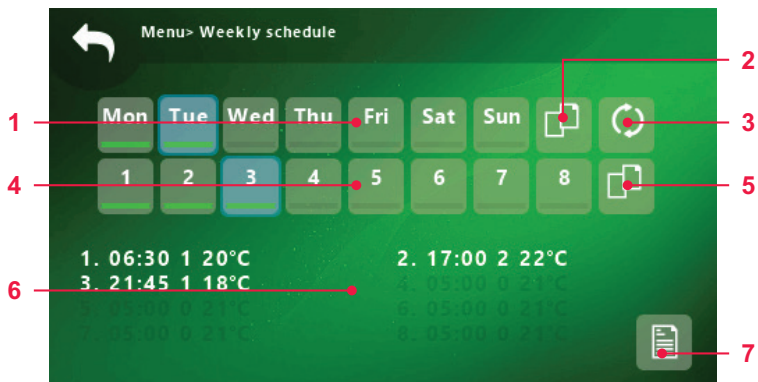


ST-SA-Control can keep the time for two days in case power is lost and provide time information for control board (needed for schedule function to work properly). If this function is disabled, time value will be read and displayed from control board (MCB control board). This function is mostly needed for PRV control board, since it does not have RTC (Real-Time-Clock) integrated.

| NO. | LABEL | DESCRIPTION |
|-----|-----------------------|-------------------------------------|
| 1 | TIME KEEPING FUNCTION | Options: • DISABLED • ENABLED |

5.2.5. WEEKLY SCHEDULE

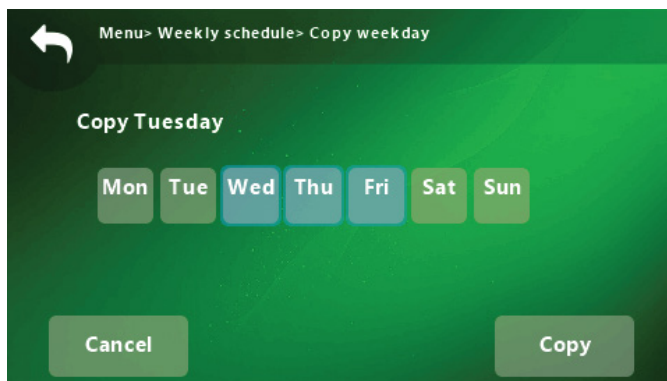
MENU » WEEKLY SCHEDULE



| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|----------------|------------------------------|
| 1 | | DAYS OF WEEK | Range: [Mon ... Sun] |
| 2 | | COPY WEEKDAY | |
| 3 | | RESET EVENTS | Reset all events in weekdays |
| 4 | | EVENT NUMBER | Range: [1 ... 8] |
| 5 | | COPY EVENT | |
| 6 | | EVENT OVERVIEW | Options: • OFF • ON |
| 7 | | EDIT EVENT | |

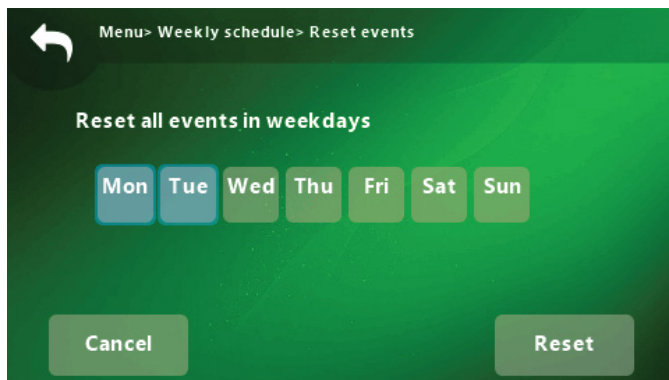
5.2.5.1. COPY WEEKDAY

MENU » WEEKLY SCHEDULE » COPY WEEKDAY



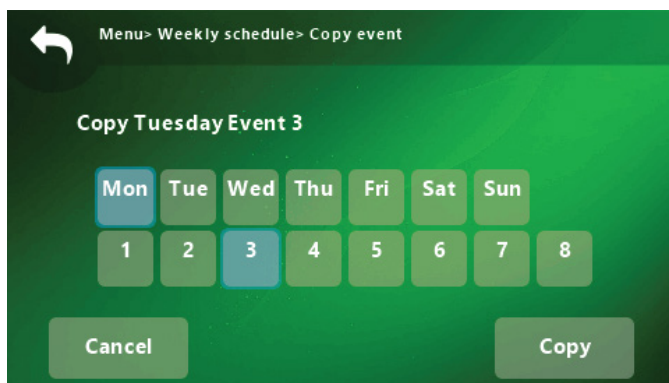
5.2.5.2. RESET EVENTS

MENU » WEEKLY SCHEDULE » RESET EVENTS



5.2.5.3. COPY EVENT

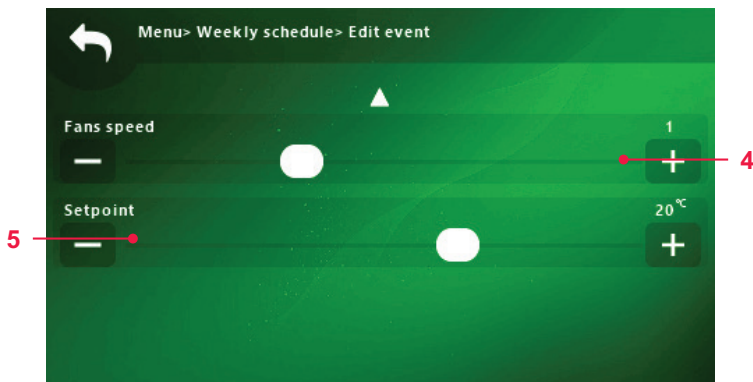
MENU » WEEKLY SCHEDULE » COPY EVENT



5.2.5.4. EDIT EVENT

MENU » WEEKLY SCHEDULE » EDIT EVENT



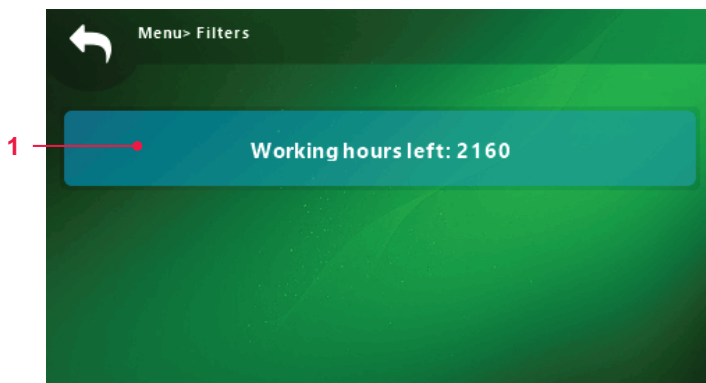


| NO. | LABEL | DESCRIPTION |
|-----|------------|-------------------------------------|
| 1 | EVENT | Options: • DISABLED • ENABLED |
| 2 | HOURS | Range: [0 .. 23 HOURS] |
| 3 | MINUTES | Range: [0 .. 59 MINUTES] |
| 4 | FANS SPEED | Range: [0 ... 3] |
| 5 | SETPOINT | Range: [0 .. 30 °C] |

5.2.6. FILTERS

MENU » FILTERS

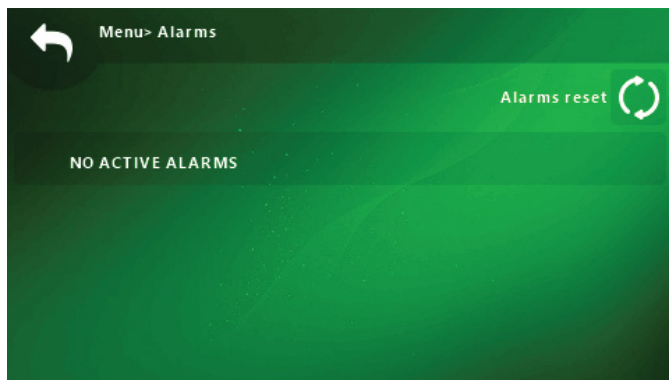
Tap on timer display to reset its value.



| NO. | LABEL | DESCRIPTION |
|-----|-------------|------------------------------------|
| 1 | RESET TIMER | Options: • NO ACTION • RESET |

5.2.7. ALARMS

MENU » ALARMS

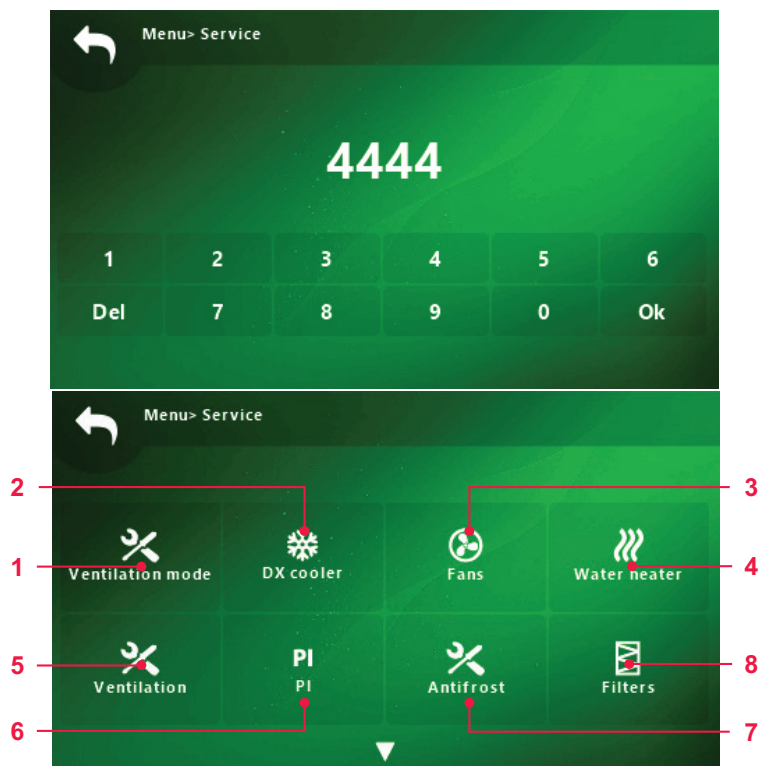


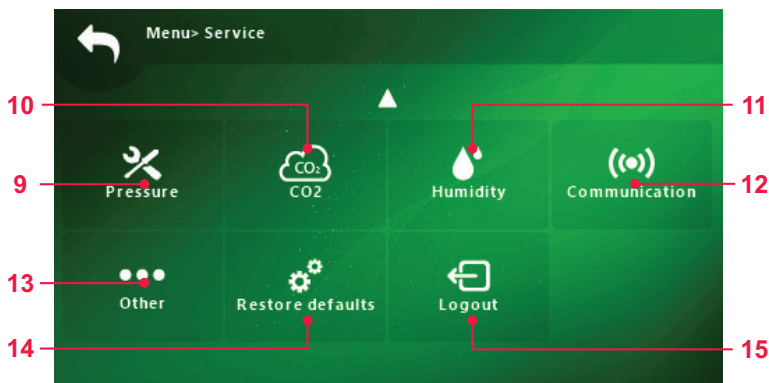
5.2.8. SERVICE

MENU » SERVICE



List of parameters depends on configuration of AHU and can be different.

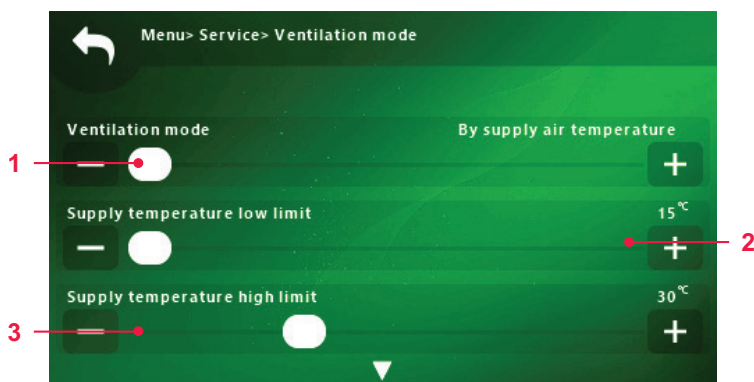


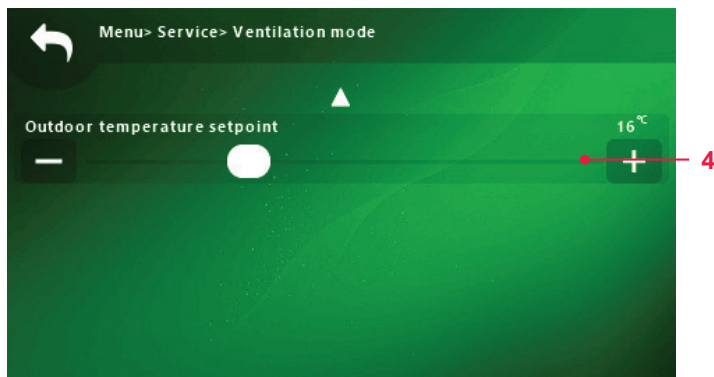


| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|------------------|-----|------|------------------|
| 1 | | VENTILATION MODE | 9 | | PRESSURE |
| 2 | | DX COOLER | 10 | | CO ₂ |
| 3 | | FANS | 11 | | HUMIDITY |
| 4 | | WATER HEATER | 12 | | COMMUNICATION |
| 5 | | VENTILATION | 13 | | OTHER |
| 6 | | PI | 14 | | RESTORE DEFAULTS |
| 7 | | ANTIFROST | 15 | | LOGOUT |
| 8 | | FILTERS | | | |

5.2.8.1. VENTILATION MODE

MENU » SERVICE » VENTILATION MODE

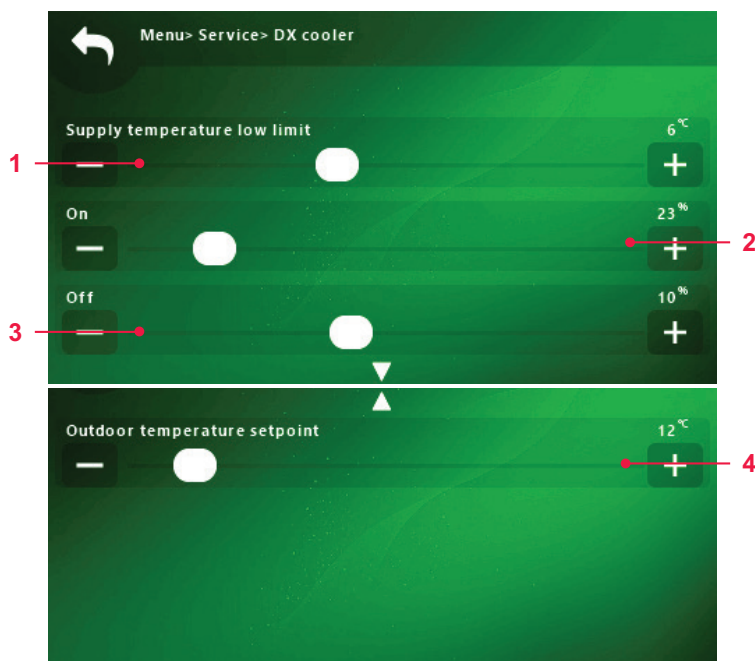




| NO. | LABEL | DESCRIPTION |
|-----|-------------------------------|--|
| 1 | VENTILATION MODE | Options: <ul style="list-style-type: none"> • BY SUPPLY AIR TEMPERATURE • BY EXTRACT AIR TEMPERATURE • BY 3 DAYS OUTDOOR AIR AVERAGE TEMPERATURE |
| 2 | SUPPLY TEMPERATURE LOW LIMIT | Range: [15 .. 24 °C] |
| 3 | SUPPLY TEMPERATURE HIGH LIMIT | Range: [25 .. 40 °C] |
| 4 | OUTDOOR TEMPERATURE SETPOINT | Range: [10 .. 30 °C] |

5.2.8.2. DX COOLER

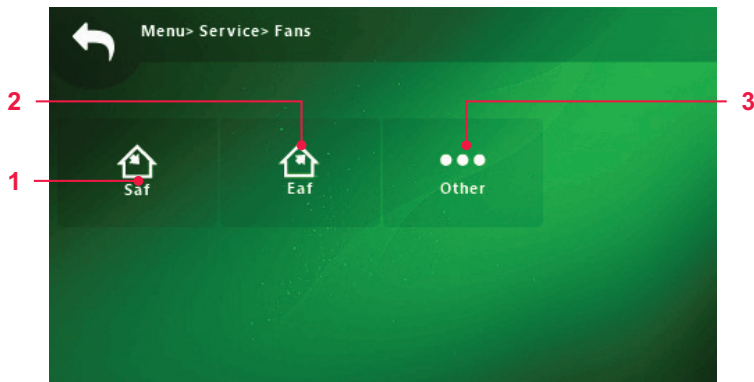
MENU » SERVICE » DX COOLER



| NO. | LABEL | DESCRIPTION |
|-----|------------------------------|------------------------|
| 1 | SUPPLY TEMPERATURE LOW LIMIT | Range: [0 .. 15 °C] |
| 2 | ON | Range: [0 .. 99 %] |
| 3 | OFF | Range: [0 .. 99 %] |
| 4 | OUTDOOR TEMPERATURE SETPOINT | Range: [10 .. 30 °C] |

5.2.8.3. FANS

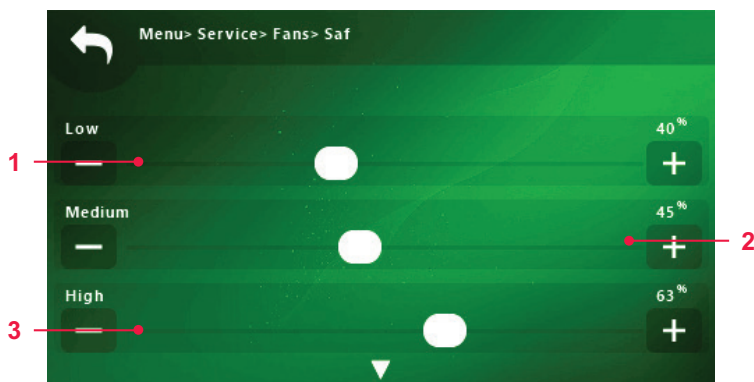
MENU » SERVICE » FANS

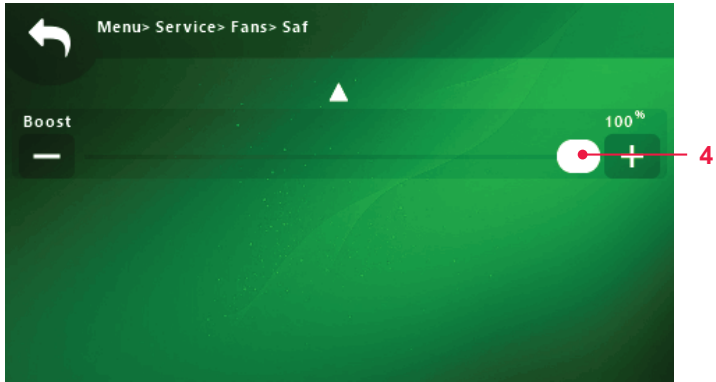


| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|-----------------------|-----|------|-------|
| 1 | | SAF (SUPPLY AIR FAN) | 3 | | OTHER |
| 2 | | EAF (EXTRACT AIR FAN) | | | |

5.2.8.3.1. SAF

MENU » SERVICE » FANS » SAF

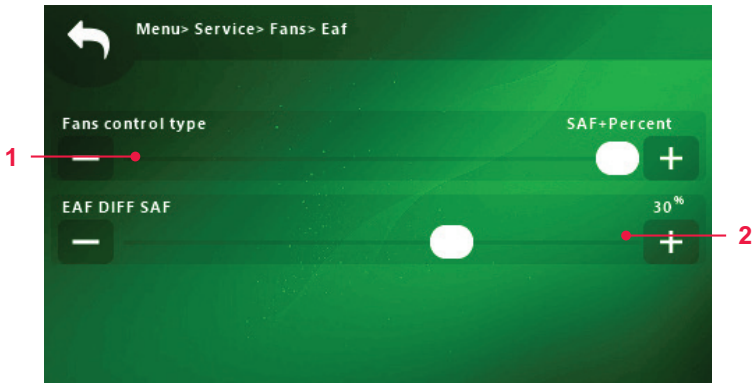




| NO. | LABEL | DESCRIPTION |
|-----|--------|-----------------------|
| 1 | LOW | Range: [0 .. 100 %] |
| 2 | MEDIUM | Range: [0 .. 100 %] |
| 3 | HIGH | Range: [0 .. 100 %] |
| 4 | BOOST | Range: [0 .. 100 %] |

5.2.8.3.2. EAF

MENU » SERVICE » FANS » EAF



| NO. | LABEL | DESCRIPTION |
|-----|-------------------|---|
| 1 | FANS CONTROL TYPE | Options: • PERCENTS • SAF+PERCENT |
| 2 | EAF DIFF SAF | Range: [-100 .. 100 %] |
| 3 | LOW | Range: [0 .. 100 %] |
| 4 | MEDIUM | Range: [0 .. 100 %] |
| 5 | HIGH | Range: [0 .. 100 %] |
| 6 | BOOST | Range: [0 .. 100 %] |

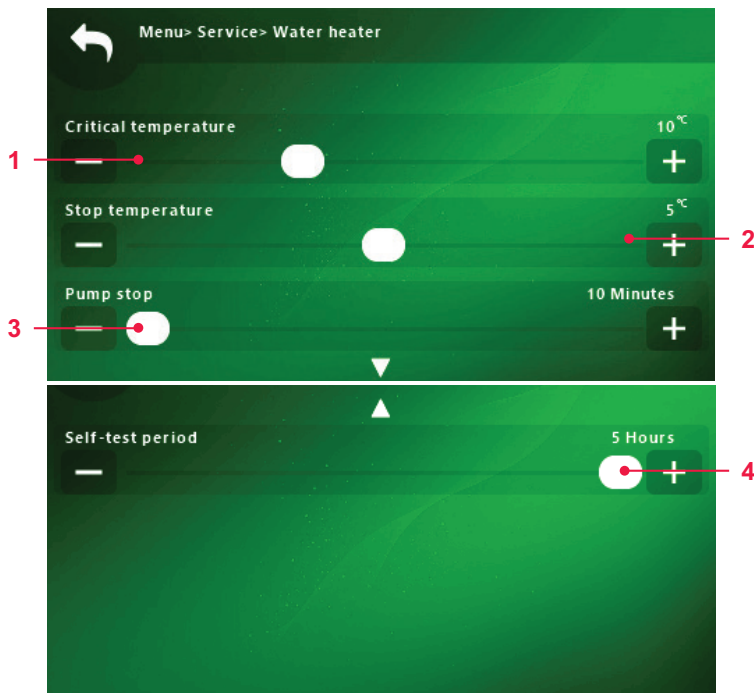
5.2.8.3.3. OTHER

MENU » SERVICE » FANS » OTHER

| NO. | LABEL | DESCRIPTION |
|-----|-----------------|-----------------------------------|
| 1 | FAIL INDICATION | Options: • NONE • COUNT RPM |

5.2.8.4. WATER HEATER

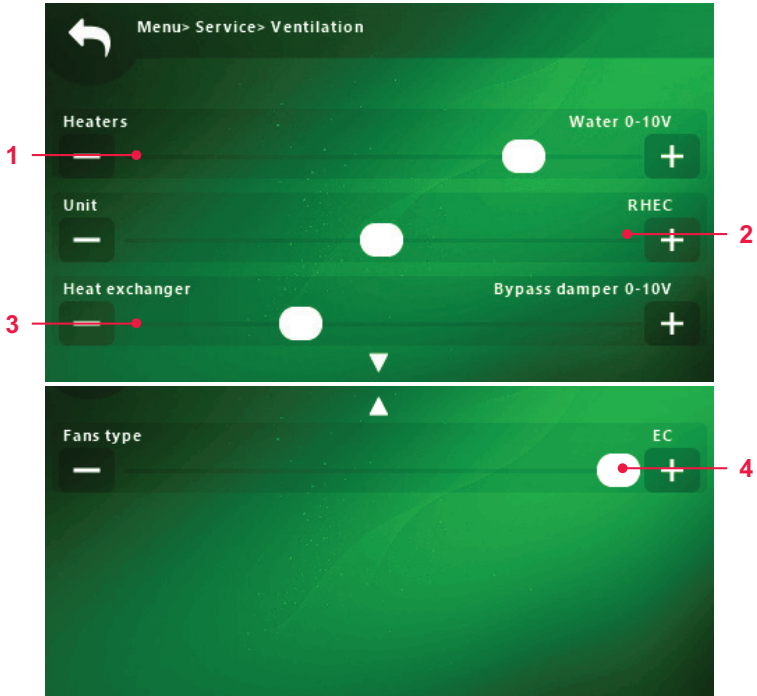
MENU » SERVICE » WATER HEATER



| NO. | LABEL | DESCRIPTION |
|-----|----------------------|-----------------------------|
| 1 | CRITICAL TEMPERATURE | Range: [0 .. 20 °C] |
| 2 | STOP TEMPERATURE | Range: [0 .. 20 °C] |
| 3 | PUMP STOP | Range: [10 .. 20 MINUTES] |
| 4 | SELF-TEST PERIOD | Range: [0 .. 5 HOURS] |

5.2.8.5. VENTILATION

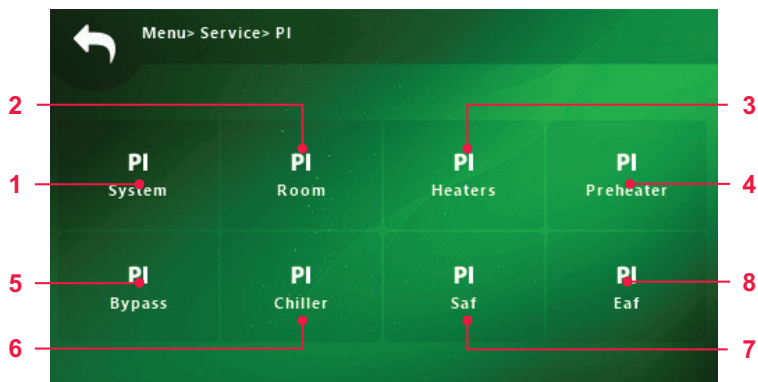
MENU » SERVICE » VENTILATION



| NO. | LABEL | DESCRIPTION |
|-----|----------------|---|
| 1 | HEATERS | Options: • ELECTRICAL ON/OFF • ELECTRICAL 0-10V • ELECTRICAL ESKM • WATER VAL+- • WATER 0-10V • H 0-10V |
| 2 | UNIT | Options: • RHC • RHEC • TK |
| 3 | HEAT EXCHANGER | Options: • BYPASS DAMPER DMP • BYPASS DAMPER 0-10V • ROTOR ON/OFF • ROTOR 0-10V |
| 4 | FANS TYPE | Options: • AC • EC |

5.2.8.6. PI

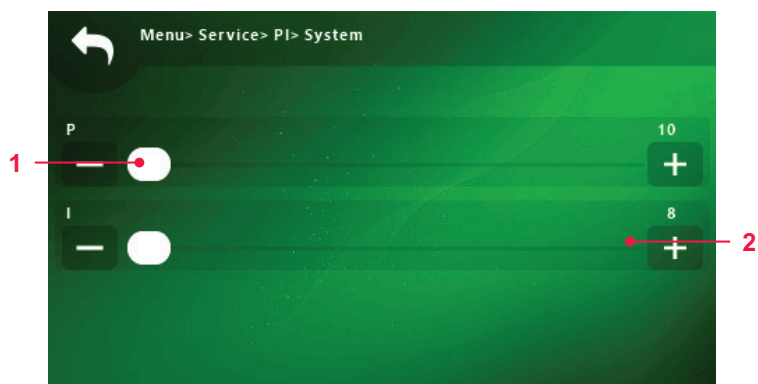
MENU » SERVICE » PI



| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|-----------|-----------|-----|-----------|---------|
| 1 | PI | SYSTEM | 5 | PI | BYPASS |
| 2 | PI | ROOM | 6 | PI | CHILLER |
| 3 | PI | HEATERS | 7 | PI | SAF |
| 4 | PI | PREHEATER | 8 | PI | EAF |

5.2.8.6.1. SYSTEM

MENU » SERVICE » PI » SYSTEM



| NO. | LABEL | DESCRIPTION |
|-----|-------|-----------------------|
| 1 | P | Range: [1 .. 1000] |
| 2 | I | Range: [1 .. 10000] |

5.2.8.6.2. ROOM

MENU » SERVICE » PI » ROOM

| NO. | LABEL | DESCRIPTION |
|-----|-------|-----------------------|
| 1 | P | Range: [1 .. 1000] |
| 2 | I | Range: [1 .. 10000] |

5.2.8.6.3. HEATERS

MENU » SERVICE » PI » HEATERS

| NO. | LABEL | DESCRIPTION |
|-----|-------|-----------------------|
| 1 | P | Range: [1 .. 1000] |
| 2 | I | Range: [1 .. 10000] |

5.2.8.6.4. PREHEATER

MENU » SERVICE » PI » PREHEATER

| NO. | LABEL | DESCRIPTION |
|-----|-------|-----------------------|
| 1 | P | Range: [1 .. 1000] |
| 2 | I | Range: [1 .. 10000] |

5.2.8.6.5. BYPASS

MENU » SERVICE » PI » BYPASS

| NO. | LABEL | DESCRIPTION |
|-----|-------|-----------------------|
| 1 | P | Range: [1 .. 1000] |
| 2 | I | Range: [1 .. 10000] |

5.2.8.6.6. CHILLER

MENU » SERVICE » PI » CHILLER

| NO. | LABEL | DESCRIPTION |
|-----|-------|-----------------------|
| 1 | P | Range: [1 .. 1000] |
| 2 | I | Range: [1 .. 10000] |

5.2.8.6.7. SAF

MENU » SERVICE » PI » SAF

| NO. | LABEL | DESCRIPTION |
|-----|-------|-----------------------|
| 1 | P | Range: [1 .. 65535] |
| 2 | I | Range: [1 .. 65535] |

5.2.8.6.8. EAF

MENU » SERVICE » PI » SAF

| NO. | LABEL | DESCRIPTION |
|-----|-------|-----------------------|
| 1 | P | Range: [1 .. 65535] |
| 2 | I | Range: [1 .. 65535] |

5.2.8.7. ANTIFROST

MENU » SERVICE » ANTIFROST

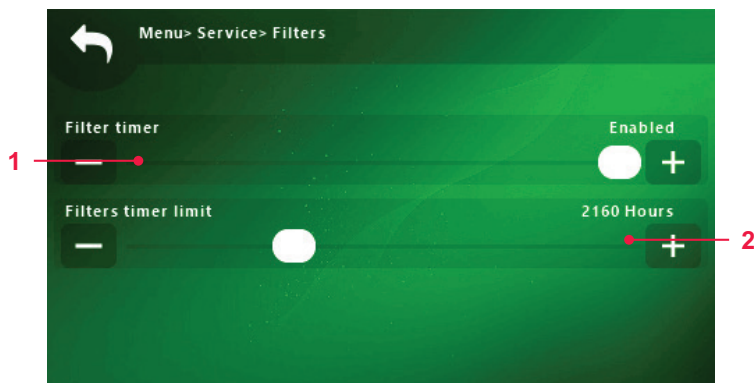


| NO. | LABEL | DESCRIPTION |
|-----|-----------------------------|---|
| 1 | DETECTION | Options: <ul style="list-style-type: none"> • HEATEX • KLINGB • TSETPOINT • TOUTSIDE • DEWP PLATET • OFF |
| 2 | FANS SPEED REDUCTION | Options: <ul style="list-style-type: none"> • OFF • ON |
| 3 | BYPASS/ROTOR | Options: <ul style="list-style-type: none"> • OFF • ON |
| 4 | PASSIVE TEMPERATURE CONTROL | Options: <ul style="list-style-type: none"> • OFF • ON |

| NO. | LABEL | DESCRIPTION |
|-----|-------------------------|-------------------------|
| 5 | PASSIVE TEMPERATURE | Range: [-10 .. 30 °C] |
| 6 | EXHAUST AIR TEMPERATURE | Range: [-30 .. 20 °C] |
| 7 | ROTOR PWM | Range: [0 .. 100 %] |
| 8 | DEFROST STOP TIME | Range: [0 .. 60] |

5.2.8.8. FILTERS

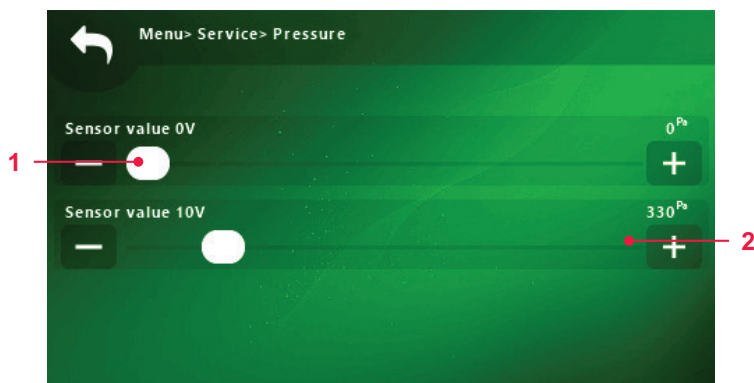
MENU » SERVICE » FILTERS



| NO. | LABEL | DESCRIPTION |
|-----|---------------------|-------------------------------------|
| 1 | FILTER TIMER | Options: • DISABLED • ENABLED |
| 2 | FILTERS TIMER LIMIT | Range: [168 .. 6480 HOURS] |

5.2.8.9. PRESSURE

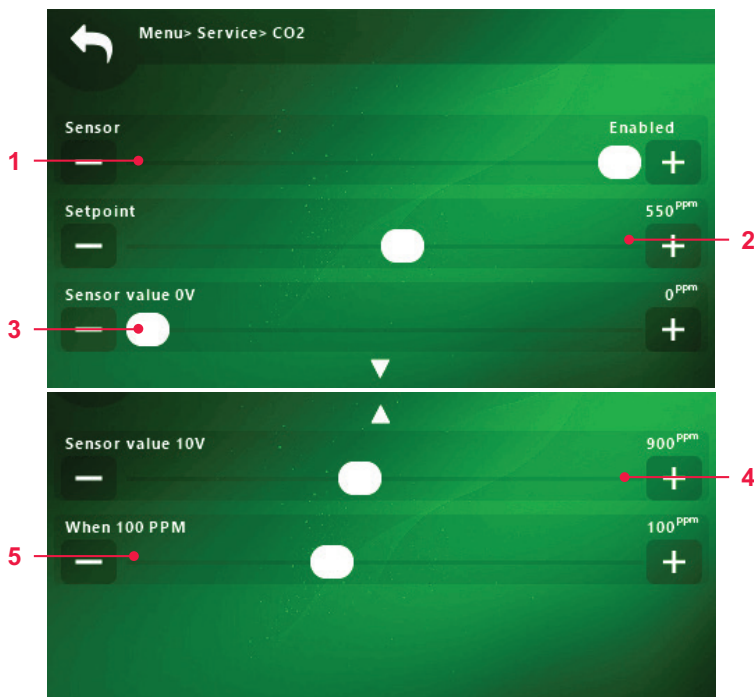
MENU » SERVICE » PRESSURE



| NO. | LABEL | DESCRIPTION |
|-----|------------------|-------------------------|
| 1 | SENSOR VALUE 0V | Range: [0 .. 2000 Pa] |
| 2 | SENSOR VALUE 10V | Range: [0 .. 2000 Pa] |

5.2.8.10. CO₂

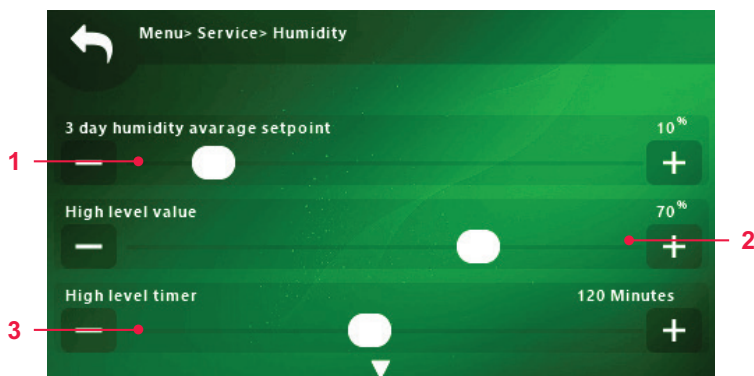
MENU » SERVICE » CO₂

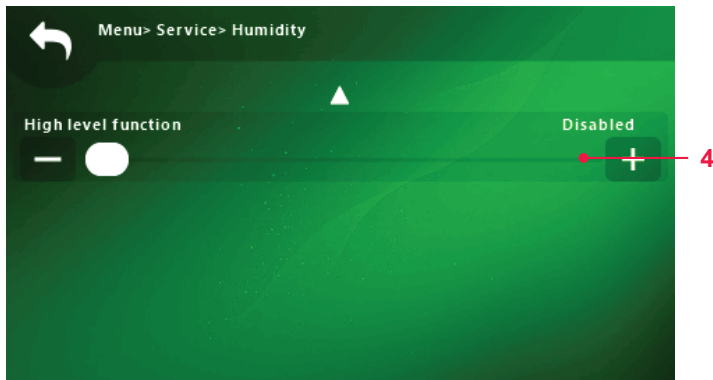


| NO. | LABEL | DESCRIPTION |
|-----|------------------|-------------------------------------|
| 1 | SENSOR | Options: • DISABLED • ENABLED |
| 2 | SETPOINT | Range: [10 .. 1000 ppm] |
| 3 | SENSOR VALUE 0V | Range: [0 .. 2000 ppm] |
| 4 | SENSOR VALUE 10V | Range: [0 .. 2000 ppm] |
| 5 | WHEN 100 PPM | Range: [0 .. 255 ppm] |

5.2.8.11. HUMIDITY

MENU » SERVICE » HUMIDITY

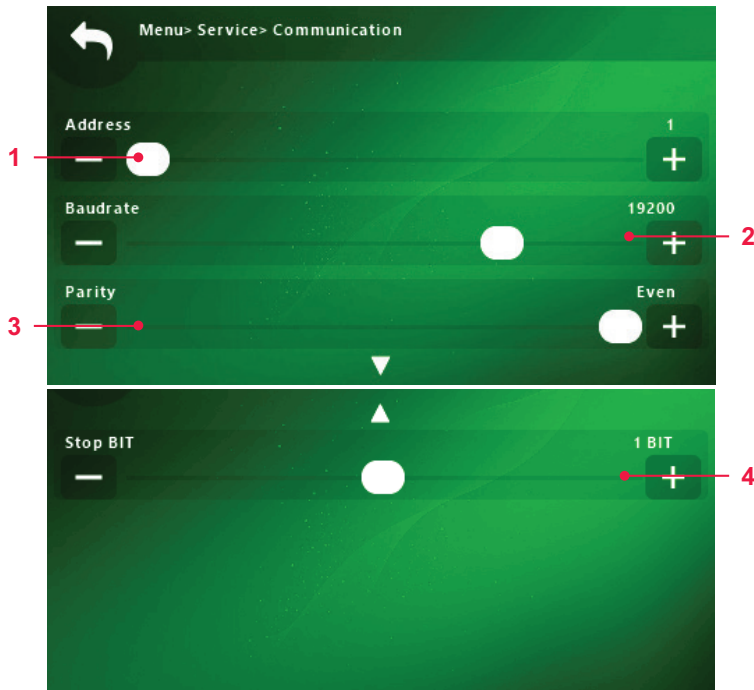




| NO. | LABEL | DESCRIPTION |
|-----|---------------------------------|-------------------------------------|
| 1 | 3 DAY HUMIDITY AVERAGE SETPOINT | Range: [0 .. 70 %] |
| 2 | HIGH LEVEL VALUE | Range: [0 .. 100 %] |
| 3 | HIGH LEVEL TIMER | Range: [0 .. 255 MINUTES] |
| 4 | HIGH LEVEL FUNCTION | Options: • DISABLED • ENABLED |

5.2.8.12. COMMUNICATION

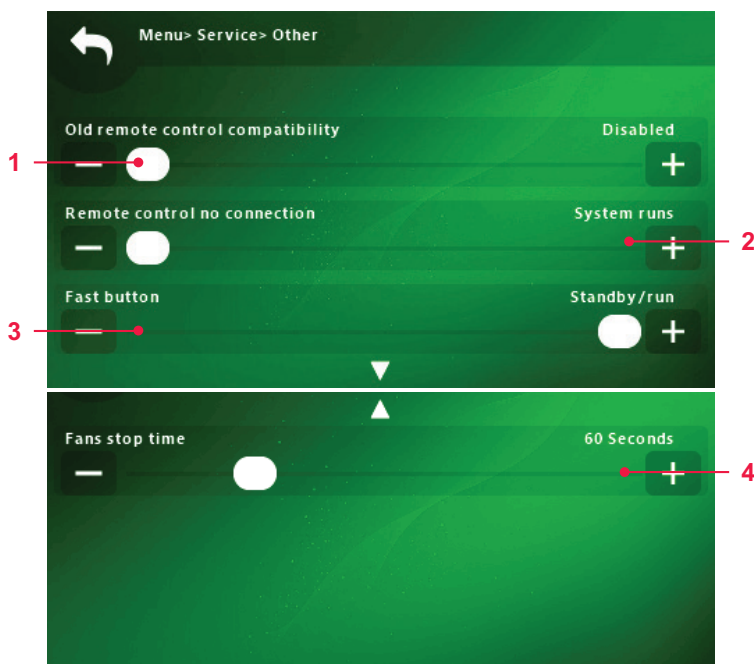
MENU » SERVICE » COMMUNICATION



| NO. | LABEL | DESCRIPTION |
|-----|----------|---|
| 1 | ADDRESS | Range: [1 .. 247] |
| 2 | BAUDRATE | Range: [2400; 4800; 9600; 19200; 38400] |
| 3 | PARITY | Options: • NONE • ODD • EVEN |
| 4 | STOP BIT | Options: • NONE • 1 BIT • 2 BITS |

5.2.8.13. OTHER

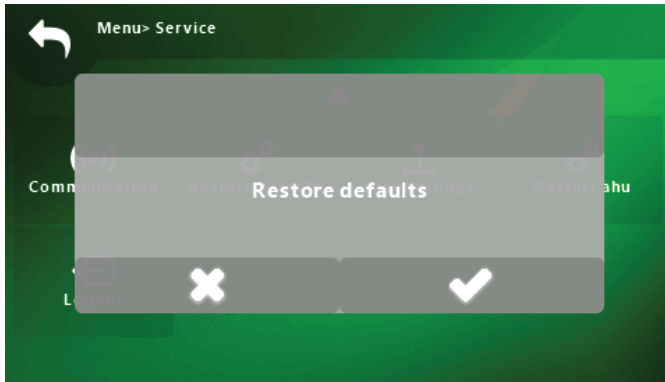
MENU » SERVICE » OTHER



| NO. | LABEL | DESCRIPTION |
|-----|----------------------------------|--|
| 1 | OLD REMOTE CONTROL COMPATIBILITY | Options: • DISABLED • ENABLED |
| 2 | REMOTE CONTROL NO CONNECTION | Options: • SYSTEM RUNS • SYSTEM STOPS |
| 3 | FAST BUTTON | Options: • NONE • BOOST • STANDBY/RUN |
| 4 | FANS STOP TIME | Range: [0 .. 255 SECONDS] |

5.2.8.14. RESTORE DEFAULTS

MENU » SERVICE » RESTORE DEFAULTS



| NO. | LABEL | DESCRIPTION |
|-----|------------------|--------------------------------------|
| 1 | RESTORE DEFAULTS | Options: • NO ACTION • RESTORE |

5.2.8.15. LOGOUT

MENU » SERVICE » LOGOUT



5.2.9. SETTINGS

MENU » SETTINGS

Settings of the ST-SA-Control remote controller. For detailed information see section "6.2.14. SETTINGS" on page 56, as the information provided is identical to MCB/MiniMCB control board's.

6. INSTRUCTIONS FOR DEVICES WITH MCB/MINIMCB CONTROL BOARD



For detailed information about particular functions check the MCB manual.

6.1. MAIN WINDOW

MAIN WINDOW



NO. LABEL

| | |
|---|-------------------|
| 1 | MENU |
| 2 | STATUS INDICATION |
| 3 | ALARMS |
| 4 | WIDGETS |
| 5 | BASIC OVERVIEW |

6.1.1. STATUS INDICATION

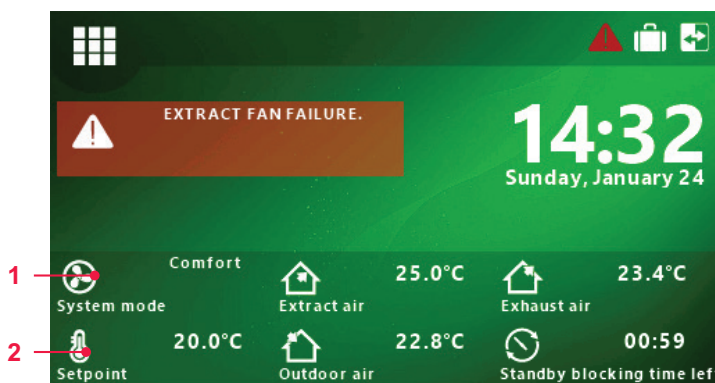
MAIN WINDOW » STATUS INDICATION

| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|------------------------------------|------------------------------------|
| 1 | | WORKING INDICATION | Options: • OFF • ON |
| 2 | | ALARM INDICATION OUTPUT | Options: • OFF • ON |
| 3 | | SLOWING DOWN FANS BY TEMPERATURE | Options: • ACTIVE • INACTIVE |
| 4 | | CO ₂ REDUCTION FUNCTION | Options: • ACTIVE • INACTIVE |
| 5 | | HYDRAULIC PUMP EXERCISE | Options: • ACTIVE • INACTIVE |
| 6 | | SEASON | Options: • ACTIVE • INACTIVE |
| 7 | | STANDBY BLOCKING MODE | Options: • ACTIVE • INACTIVE |

| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|-------------------------|------------------------------------|
| 8 | | NIGHT COOLING | Options: • ACTIVE • INACTIVE |
| 9 | | BLOCK AUTOMATIC CONTROL | Options: • ACTIVE • INACTIVE |
| 10 | | HOLIDAY SCHEDULE | Options: • ACTIVE • INACTIVE |
| 11 | | FANS SPEED SWITCH | Options: • ACTIVE • INACTIVE |
| 12 | | FULL RECIRCULATION | Options: • ACTIVE • INACTIVE |
| 13 | | REMOTE MODE | Options: • ACTIVE • INACTIVE |

6.1.2. WIDGETS

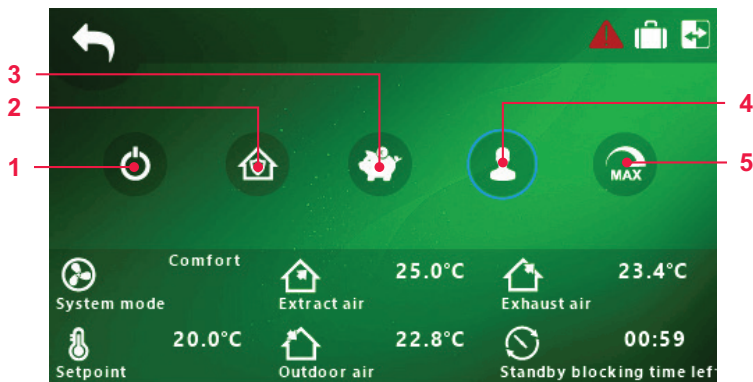
MAIN WINDOW » WIDGETS



| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|-------------|--|
| 1 | | SYSTEM MODE | Options: • STANDBY • BUILDING PROTECTION • ECONOMY • COMFORT |
| 2 | | SETPOINT | [°C] |

6.1.2.1. SYSTEM MODE

MAIN WINDOW » WIDGETS » SYSTEM MODE



| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|---------------------|---------------------------|
| 1 | | STANDBY | |
| 2 | | BUILDING PROTECTION | Options: • BOOST TIMER |
| 3 | | ECONOMY | Options: • BOOST TIMER |
| 4 | | COMFORT | Options: • BOOST TIMER |
| 5 | | BOOST TIMER | |

6.1.2.2. SETPOINT

MAIN WINDOW » WIDGETS » SETPOINT



6.1.3. BASIC OVERVIEW

MAIN WINDOW » BASIC OVERVIEW



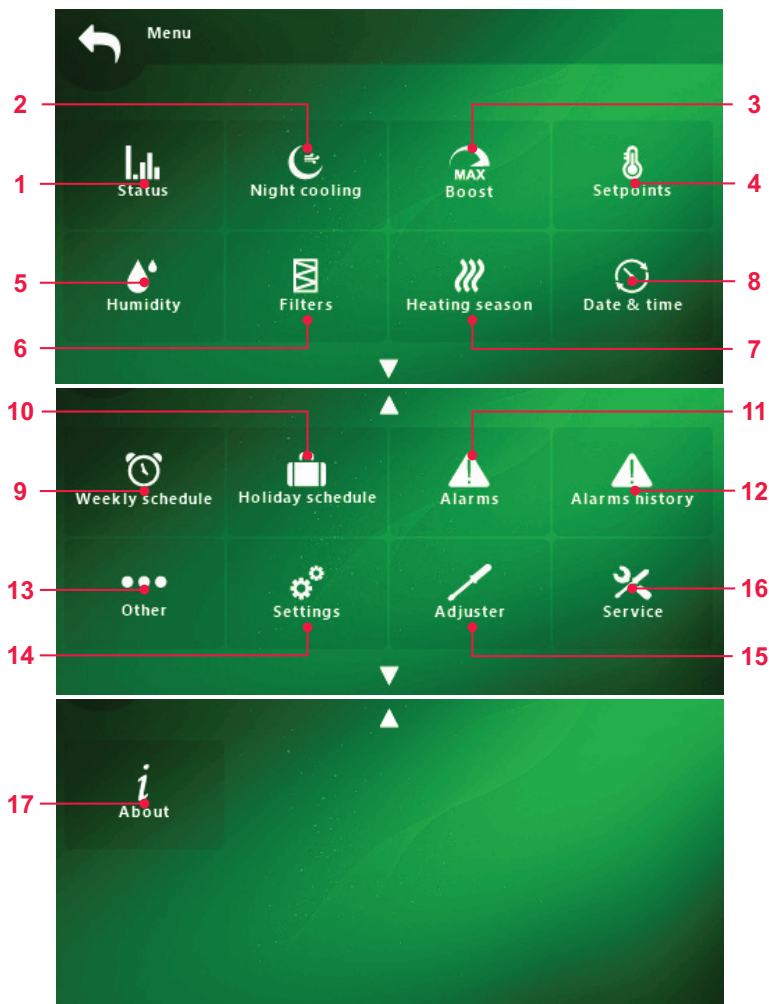
List of visible parameters depends on AHU.



| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|-------------------------------------|-----------------------------|
| 1 | | EXTRACT AIR | [°C] |
| 2 | | EXHAUST AIR | [°C] |
| 3 | | OUTDOOR AIR | [°C] |
| 4 | | STANDBY BLOCKING TIME LEFT THIS DAY | Range: [0 .. 500 MINUTES] |
| 5 | | NEXT EVENT IN | Range: [0 .. 24 HOURS] |

6.2. MENU

MENU



| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|----------------|-----|------|------------------|
| 1 | | STATUS | 10 | | HOLIDAY SCHEDULE |
| 2 | | NIGHT COOLING | 11 | | ALARMS |
| 3 | | BOOST | 12 | | ALARMS HISTORY |
| 4 | | SETPOINTS | 13 | | OTHER |
| 5 | | HUMIDITY | 14 | | SETTINGS |
| 6 | | FILTERS | 15 | | ADJUSTER |
| 7 | | HEATING SEASON | 16 | | SERVICE |

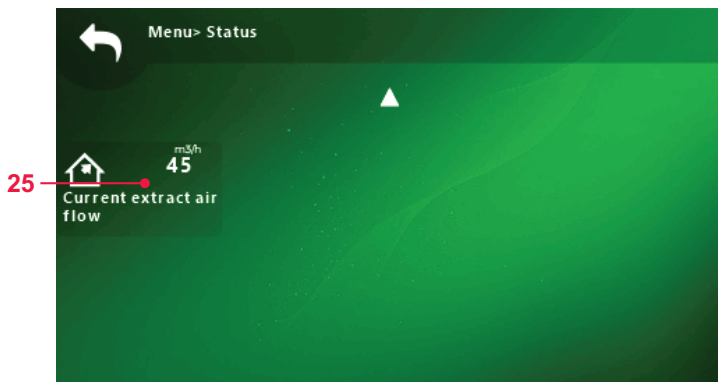
| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|-----------------|-----|------|-------|
| 8 | | DATE & TIME | 17 | | ABOUT |
| 9 | | WEEKLY SCHEDULE | | | |

6.2.1. STATUS
MENU » STATUS









Detailed status of AHU.

The screenshot shows the 'Menu- Status' screen for an AHU, divided into three sections. Red lines connect numbered callouts (1-24) to specific data points on the screen.

- Section 1 (Top):**
 - 1: Outdoor air temperature (22.8 °C)
 - 2: Supply air temperature (0.0 °C)
 - 3: Extract air temperature (25.0 °C)
 - 4: Exhaust air temperature (23.4 °C)
 - 5: System mode (Standby)
 - 6: Boost mode (MAX)
 - 7: Off mode (Off)
 - 8: Supply fan speed (0.0 rpm)
 - 9: Extract fan speed (0.0 rpm)
- Section 2 (Middle):**
 - 10: Required supply temp. (0.0 °C)
 - 11: Supply air RH (0.0 %)
 - 12: Extract air RH (0.0 %)
 - 13: Extract air CO2 (0.0 ppm)
 - 14: Software version (1.27)
 - 15: Configuration version (1.14)
 - 16: Hydraulic heater water (0.0 °C)
 - 17: Hydronic preheater water (0.0 °C)
- Section 3 (Bottom):**
 - 18: Hydronic cooler water (0.0 °C)
 - 19: Control box (96.9 °C)
 - 20: Heat transfer efficiency (0.0 %)
 - 21: After heat exchanger t. (0.0 °C)
 - 22: Current supply air flow (0.0 %)
 - 23: Current extract air flow (0.0 %)
 - 24: Current supply air duct pressure (-1.8 Pa)
 - 25: Current extract air duct pressure (0.4 Pa)

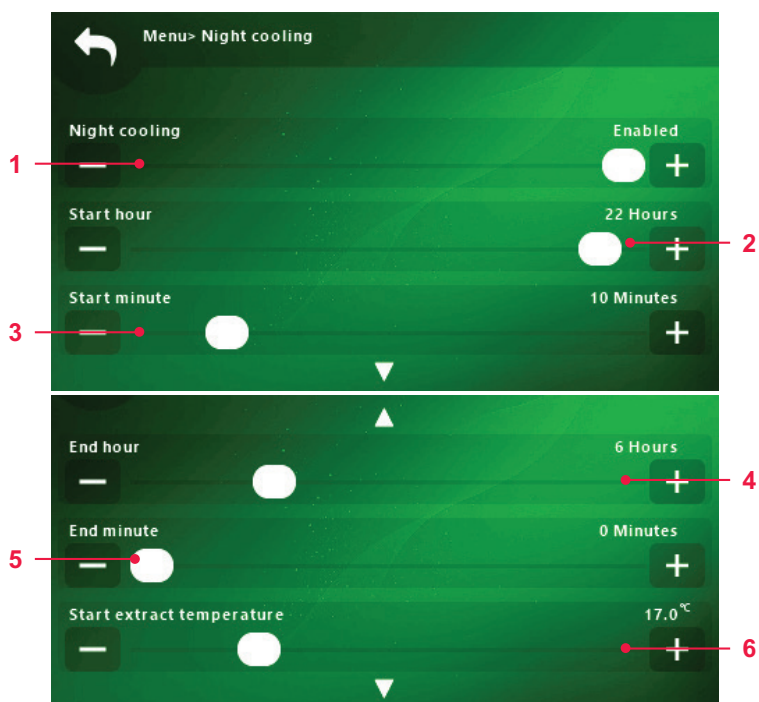


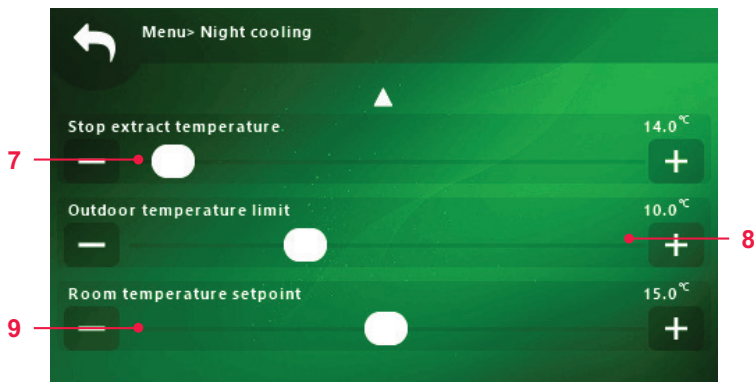
| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|-----------------------------|--|
| 1 | | OUTDOOR AIR | [°C] |
| 2 | | SUPPLY AIR | [°C] |
| 3 | | EXTRACT AIR | [°C] |
| 4 | | EXHAUST AIR | [°C] |
| 5 | | SYSTEM MODE | Options: <ul style="list-style-type: none"> • STANDBY • BUILDING PROTECTION • ECONOMY • COMFORT |
| 6 | | BOOST | Options: <ul style="list-style-type: none"> • OFF • ON |
| 7 | | SUPPLY FAN SPEED RPM | Range: [0 .. 5000 RPM] |
| 8 | | EXTRACT FAN SPEED RPM | Range: [0 .. 5000 RPM] |
| 9 | | REQUIRED SUPPLY TEMPERATURE | [°C] |
| 10 | | SUPPLY AIR RH | [%] |
| 11 | | EXTRACT AIR RH | Range: [0 .. 100 %] |
| 12 | | EXTRACT AIR CO ₂ | Range: [0 .. 2000 PPM] |
| 13 | | SOFTWARE VERSION | |
| 14 | | CONFIGURATION VERSION | |
| 15 | | HYDRAULIC HEATER WATER | [°C] |
| 16 | | HYDRONIC PREHEATER WATER | [°C] |
| 17 | | HYDRONIC COOLER WATER | [°C] |

| NO. | ICON | LABEL | DESCRIPTION |
|-----|---|-----------------------------------|-------------|
| 18 |  | CONTROL BOX | [°C] |
| 19 |  | HEAT TRANSFER EFFICIENCY | [%] |
| 20 |  | AFTER HEAT EXCHANGER TEMPERATURE | [°C] |
| 21 |  | CURRENT SUPPLY AIR FLOW | [%] |
| 22 |  | CURRENT EXTRACT AIR FLOW | [%] |
| 23 |  | CURRENT SUPPLY AIR DUCT PRESSURE | [Pa] |
| 24 |  | CURRENT EXTRACT AIR DUCT PRESSURE | [Pa] |
| 25 |  | CURRENT EXTRACT AIR FLOW | [m³/h] |

6.2.2. NIGHT COOLING

MENU » NIGHT COOLING

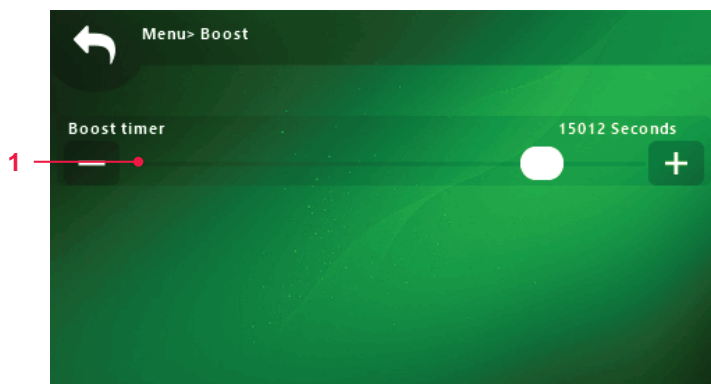




| NO. | LABEL | DESCRIPTION |
|-----|---------------------------|-------------------------------------|
| 1 | NIGHT COOLING | Options: • DISABLED • ENABLED |
| 2 | START HOUR | Range: [0 .. 23 HOURS] |
| 3 | START MINUTE | Range: [0 .. 59 MINUTES] |
| 4 | END HOUR | Range: [0 .. 23 HOURS] |
| 5 | END MINUTE | Range: [0 .. 59 MINUTES] |
| 6 | START EXTRACT TEMPERATURE | Range: [13 .. 30 °C] |
| 7 | STOP EXTRACT TEMPERATURE | Range: [13 .. 30 °C] |
| 8 | OUTDOOR TEMPERATURE LIMIT | Range: [0 .. 30 °C] |
| 9 | ROOM TEMPERATURE SETPOINT | Range: [0 .. 30 °C] |

6.2.3. BOOST

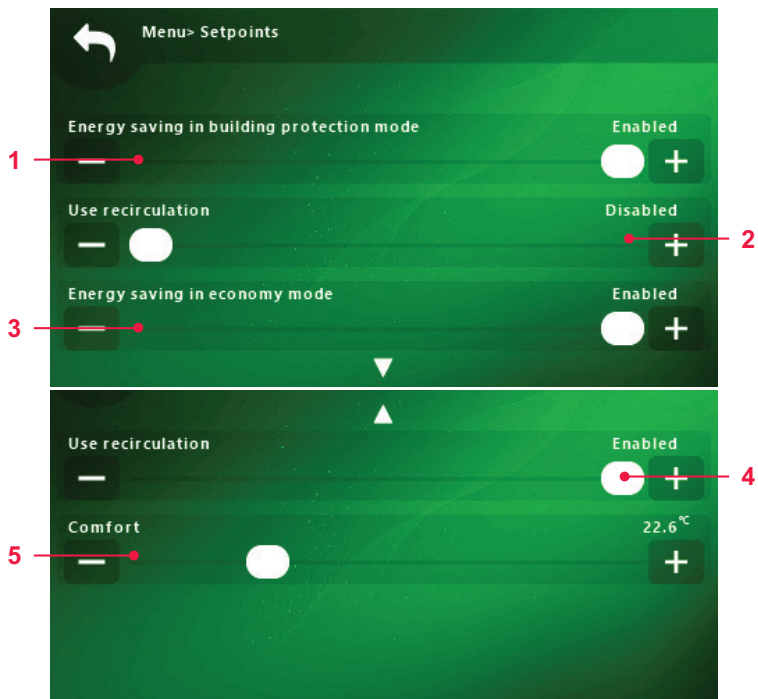
MENU » BOOST



| NO. | LABEL | DESCRIPTION |
|-----|-------------|-------------------------------|
| 1 | BOOST TIMER | Range: [0 .. 18000 SECONDS] |

6.2.4. SETPOINTS

MENU » SETPOINTS



| NO. | LABEL | DESCRIPTION |
|-----|---|--|
| 1 | ENERGY SAVING IN BUILDING PROTECTION MODE | Options: <ul style="list-style-type: none"> • DISABLED ◦ <i>BUILDING PROTECTION</i> — Range: [16.5 .. 40 °C] • ENABLED |
| 2 | USE RECIRCULATION | Options: <ul style="list-style-type: none"> • DISABLED • ENABLED |
| 3 | ENERGY SAVING IN ECONOMY MODE | Options: <ul style="list-style-type: none"> • DISABLED ◦ <i>ECONOMY</i> — Range: [16.5 .. 40 °C] • ENABLED |
| 4 | USE RECIRCULATION | Options: <ul style="list-style-type: none"> • DISABLED • ENABLED |
| 5 | COMFORT | Range: [16.5 .. 40 °C] |

6.2.5. HUMIDITY

MENU » HUMIDITY

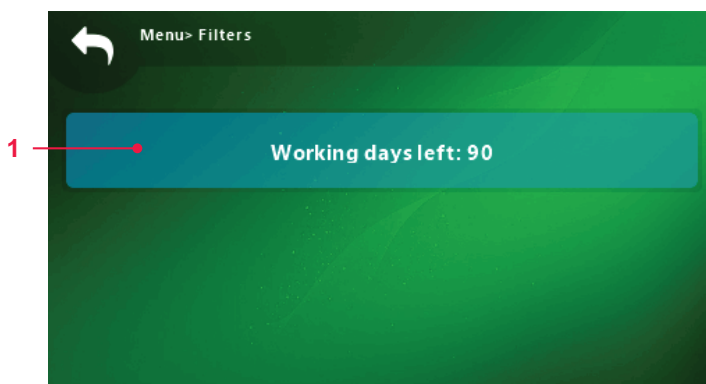


| NO. | LABEL | DESCRIPTION |
|-----|--------------------------------|--|
| 1 | DRYNESS PROTECTION | Options: <ul style="list-style-type: none"> • DISABLED • ENABLED <ul style="list-style-type: none"> ◦ <i>DRYNESS PROTECTION SETPOINT</i> — Range: [0 .. 100 %] |
| 2 | AIR FLOW CONTROL BY EXTRACT RH | Options: <ul style="list-style-type: none"> • DISABLED • ENABLED <ul style="list-style-type: none"> ◦ <i>SUMMER SETPOINT</i> — Range: [0 .. 100 %] ◦ <i>WINTER SETPOINT</i> — Range: [0 .. 100 %] ◦ <i>TOO HIGH RH BOOSTING TIME</i> — Range: [0 .. 600 MINUTES] |

6.2.6. FILTERS

MENU » FILTERS

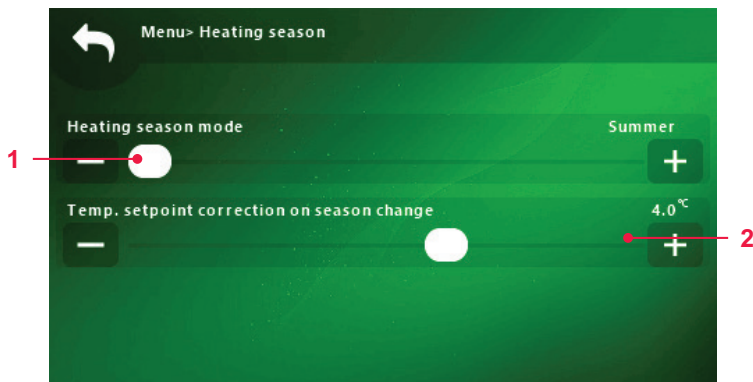
Tap on timer display to reset its value.



| NO. | LABEL | DESCRIPTION |
|-----|-------------|--|
| 1 | RESET TIMER | Options: <ul style="list-style-type: none"> • NO ACTION • RESET |

6.2.7. HEATING SEASON

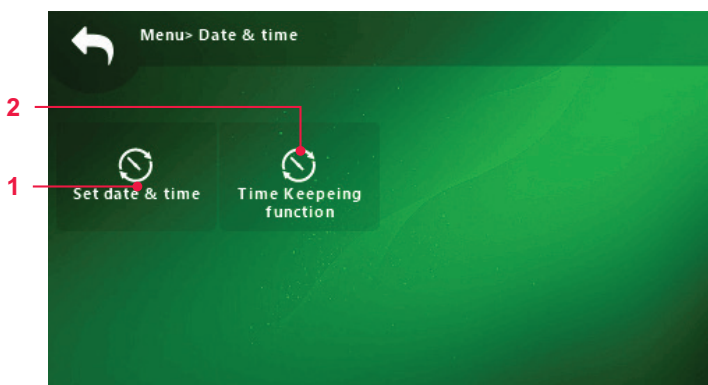
MENU » HEATING SEASON



| NO. | LABEL | DESCRIPTION |
|-----|--|--|
| 1 | HEATING SEASON MODE | Options: <ul style="list-style-type: none"> • SUMMER • WINTER • BY DATE <ul style="list-style-type: none"> ◦ START MONTH — Range: [1 .. 12 MONTH] ◦ START DAY — Range: [1 .. 31 DAY] ◦ END MONTH — Range: [1 .. 12 MONTH] ◦ END DAY — Range: [1 .. 31 DAY] • BY 3 DAY AVERAGE <ul style="list-style-type: none"> ◦ TEMPERATURE LIMIT — Range: [0 .. 30 °C] |
| 2 | TEMP. SETPOINT CORRECTION ON SEASON CHANGE | Range: [-15 .. 15 °C] |

6.2.8. DATE & TIME

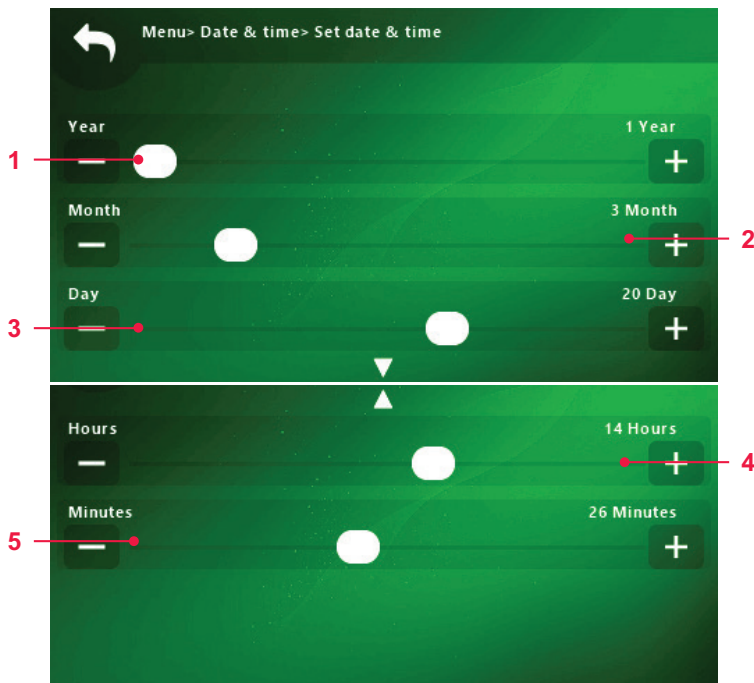
MENU » DATE & TIME



| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|-----------------|-----|------|-----------------------|
| 1 | | SET DATE & TIME | 2 | | TIME KEEPING FUNCTION |

6.2.8.1. SET DATE & TIME

MENU » DATE & TIME » SET DATE & TIME



| NO. | LABEL | DESCRIPTION |
|-----|---------|----------------------------|
| 1 | YEAR | Range: [0 .. 99 YEARS] |
| 2 | MONTH | Range: [1 .. 12 MONTH] |
| 3 | DAY | Range: [1 .. 31 DAY] |
| 4 | HOURS | Range: [0 .. 23 HOURS] |
| 5 | MINUTES | Range: [0 .. 59 MINUTES] |

6.2.8.2. TIME KEEPING FUNCTION

MENU » DATE & TIME » TIME KEEPING FUNCTION

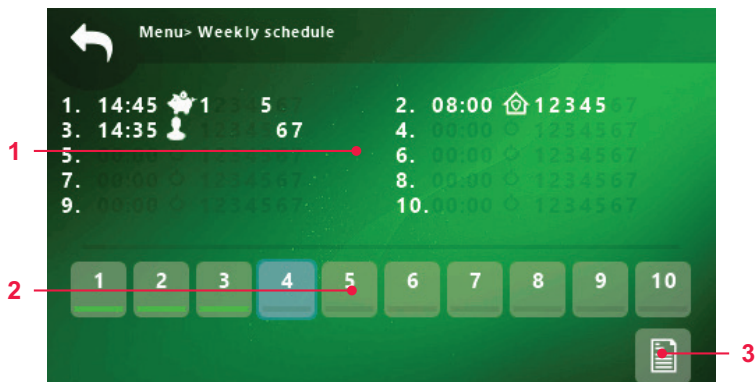


ST-SA-Control can keep the time for two days in case power is lost and provide time information for control board (needed for schedule function to work properly). If this function is disabled, time value will be read and displayed from control board (MCB control board). This function is mostly needed for PRV control board, since it does not have RTC (Real-Time-Clock) integrated.

| NO. | LABEL | DESCRIPTION |
|-----|-----------------------|-------------------------------------|
| 1 | TIME KEEPING FUNCTION | Options: • DISABLED • ENABLED |

6.2.9. WEEKLY SCHEDULE

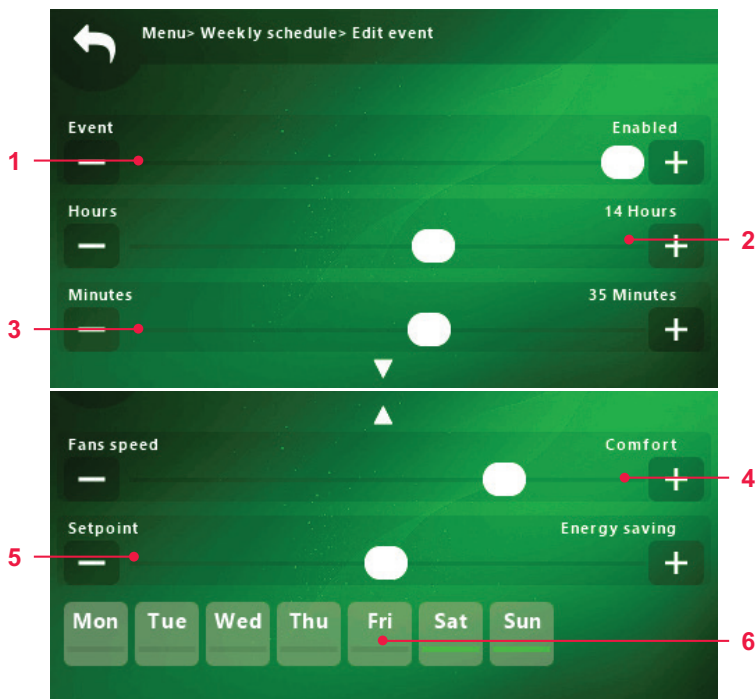
MENU » WEEKLY SCHEDULE



| NO. | LABEL |
|-----|----------------|
| 1 | EVENT OVERVIEW |
| 2 | EVENT NUMBER |
| 3 | EDIT EVENT |

6.2.9.1. EDIT EVENT

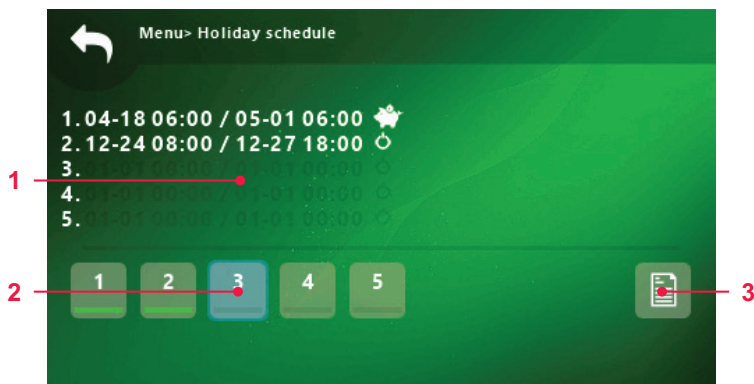
MENU » WEEKLY SCHEDULE » EDIT EVENT



| NO. | LABEL | DESCRIPTION |
|-----|--------------|---|
| 1 | EVENT | Options: • DELETED • DISABLED • ENABLED |
| 2 | HOURS | Range: [0 .. 23 HOURS] |
| 3 | MINUTES | Range: [0 .. 59 MINUTES] |
| 4 | FANS SPEED | Options: • STANDBY • BUILDING PROTECTION • ECONOMY • COMFORT • BOOST |
| 5 | SETPOINT | Options: • AUTO • ENERGY SAVING • TEMPERATURE LIMIT — Range: [16 .. 30 °C] |
| 6 | DAYS OF WEEK | Range: [Mon ... Sun] |

6.2.10. HOLIDAY SCHEDULE

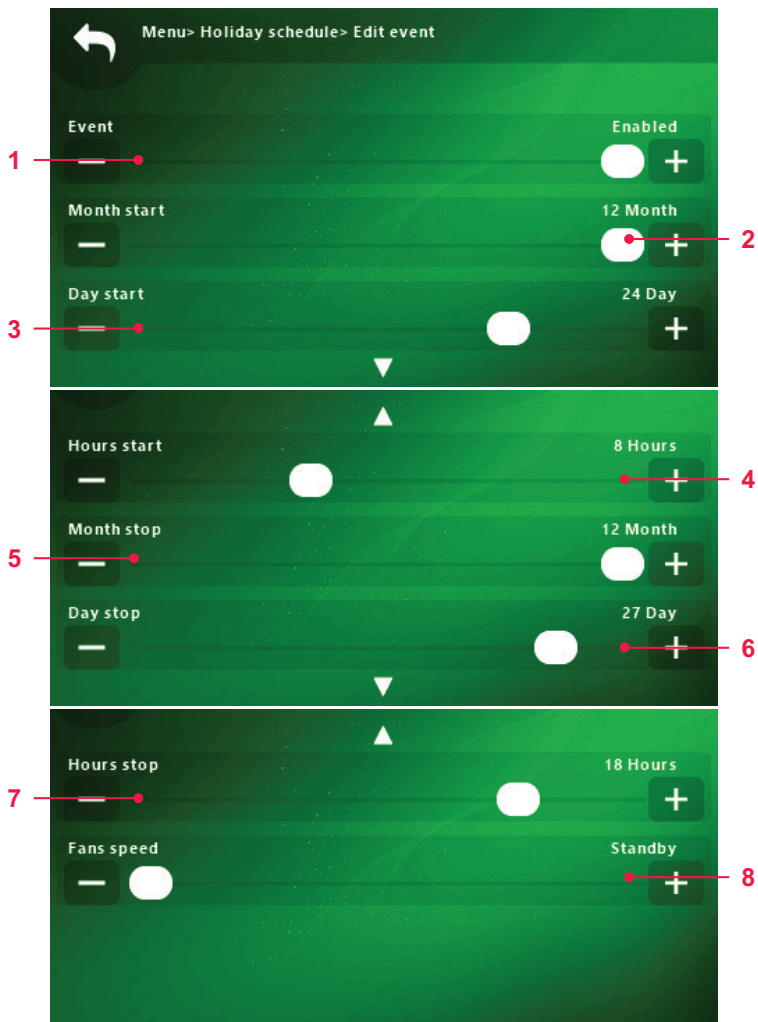
MENU » HOLIDAY SCHEDULE



| NO. | LABEL |
|-----|----------------|
| 1 | EVENT OVERVIEW |
| 2 | EVENT NUMBER |
| 3 | EDIT EVENT |

6.2.10.1. EDIT EVENT

MENU » HOLIDAY SCHEDULE » EDIT EVENT



| NO. | LABEL | DESCRIPTION |
|-----|-------------|--|
| 1 | EVENT | Options: • DELETED • DISABLED • ENABLED |
| 2 | MONTH START | Range: [1 .. 12 MONTH] |
| 3 | DAY START | Range: [1 .. 31 DAY] |
| 4 | HOURS START | Range: [0 .. 23 HOURS] |
| 5 | MONTH STOP | Range: [1 .. 12 MONTH] |
| 6 | DAY STOP | Range: [1 .. 31 DAY] |
| 7 | HOURS STOP | Range: [0 .. 23 HOURS] |

| NO. | LABEL | DESCRIPTION |
|-----|------------|--|
| 8 | FANS SPEED | Options: <ul style="list-style-type: none"> • STANDBY • BUILDING PROTECTION • ECONOMY • COMFORT |

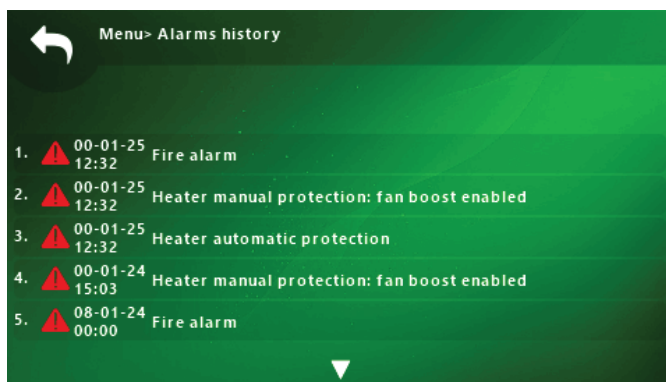
6.2.11. ALARMS

MENU » ALARMS



6.2.12. ALARMS HISTORY

MENU » ALARMS HISTORY



6.2.13. OTHER

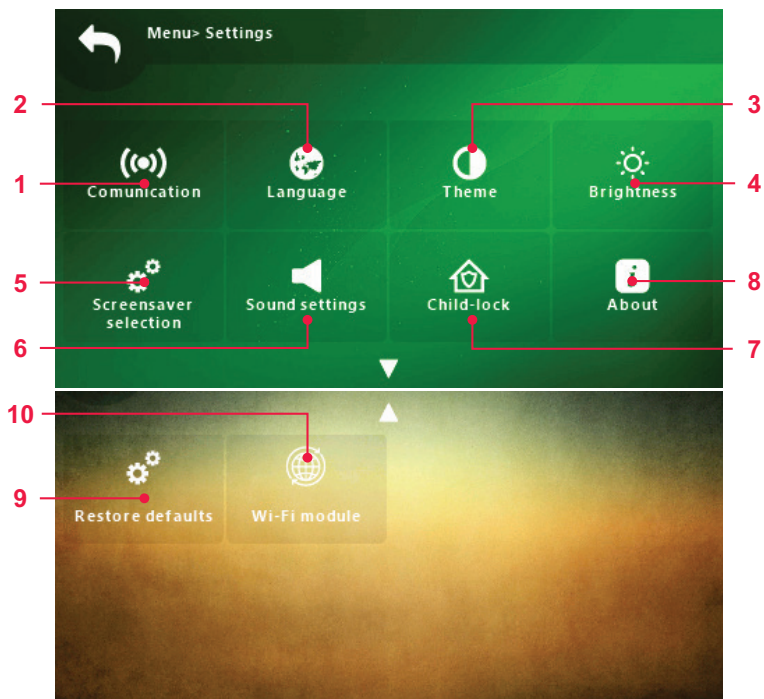
MENU » OTHER

| NO. | LABEL | DESCRIPTION |
|-----|--------------------------|--------------------------|
| 1 | FIRE DAMPER TESTING HOUR | Range: [0 .. 23 HOURS] |

6.2.14. SETTINGS

MENU » SETTINGS

Settings of the ST-SA-Control remote controller.

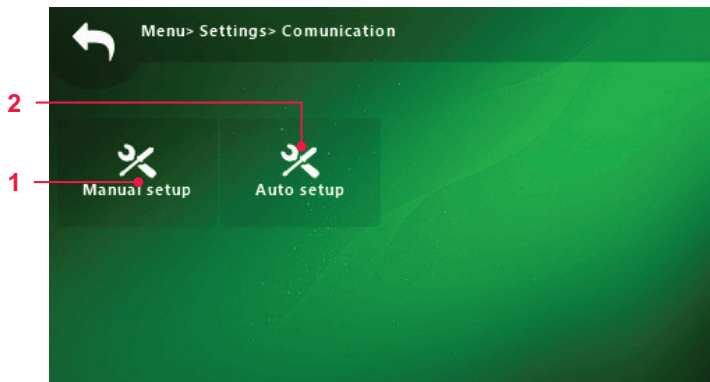


| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|-----------------------|-----|------|------------------|
| 1 | | COMMUNICATION | 6 | | SOUND SETTINGS |
| 2 | | LANGUAGE | 7 | | CHILD-LOCK |
| 3 | | THEME | 8 | | ABOUT |
| 4 | | BRIGHTNESS | 9 | | RESTORE DEFAULTS |
| 5 | | SCREENSAVER SELECTION | 10 | | WI-FI MODULE |

6.2.14.1. COMMUNICATION

MENU » SETTINGS » COMMUNICATION

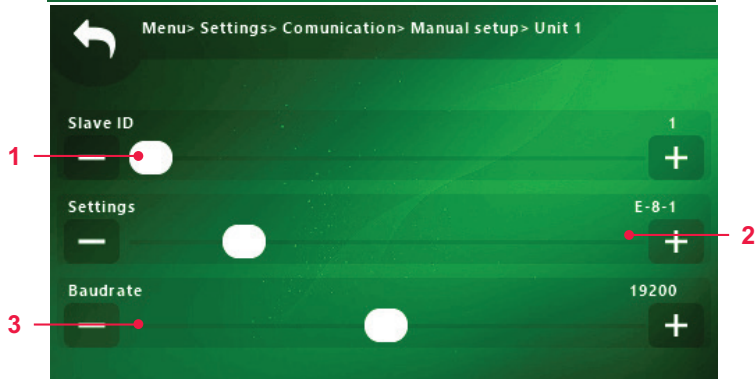
Settings of the RS485 connection.



| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|---|--------------|-----|---|------------|
| 1 |  | MANUAL SETUP | 2 |  | AUTO SETUP |

6.2.14.1.1. MANUAL SETUP

MENU » SETTINGS » COMMUNICATION » MANUAL SETUP



| NO. | LABEL | DESCRIPTION |
|-----|----------|--|
| 1 | SLAVE ID | Range: [1 .. 247] |
| 2 | SETTINGS | Range: [N-8-1; E-8-1; O-8-1; N-8-2; E-8-2; O-8-2] |
| 3 | BAUDRATE | Range: [2400; 4800; 9600; 19200; 38400; 57600; 115200] |

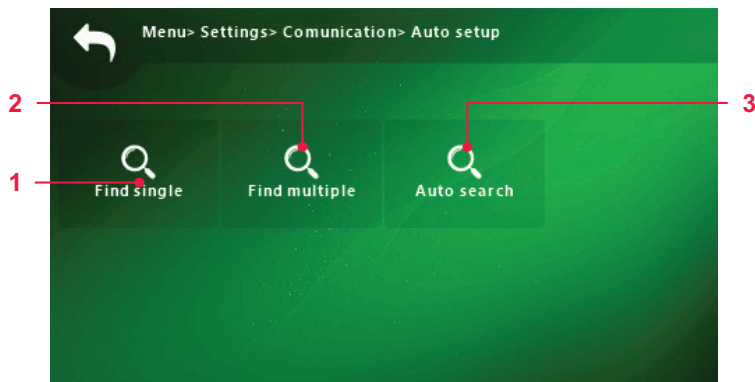
6.2.14.1.2. AUTO SETUP

MENU » SETTINGS » COMMUNICATION » AUTO SETUP

Find single - search for connected device on Modbus ID1 (don't know baudrate and/or parity settings).

Find multiple - search for multiple devices (don't know device ID) with baudrate and parity settings from selected Manual setup device.

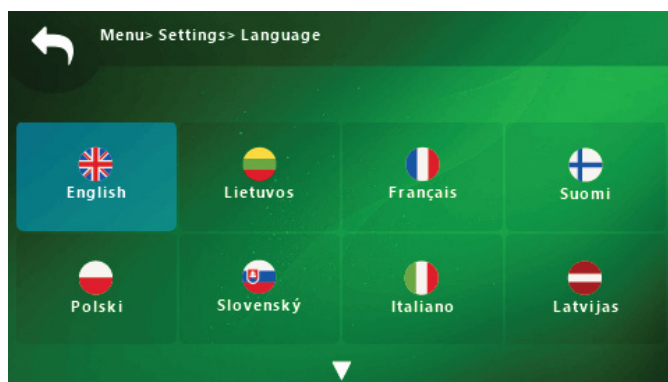
Auto search - search for multiple devices with different settings (don't know ID and other settings).



| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|---------------|-----|------|-------------|
| 1 | | FIND SINGLE | 3 | | AUTO SEARCH |
| 2 | | FIND MULTIPLE | | | |

6.2.14.2. LANGUAGE

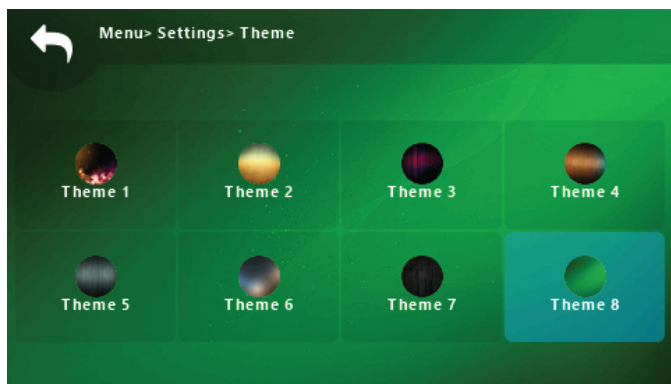
MENU » SETTINGS » LANGUAGE





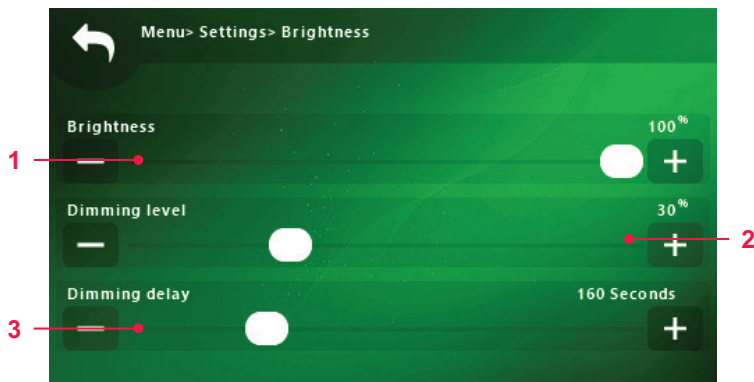
6.2.14.3. THEME

MENU » SETTINGS » THEME



6.2.14.4. BRIGHTNESS

MENU » SETTINGS » BRIGHTNESS

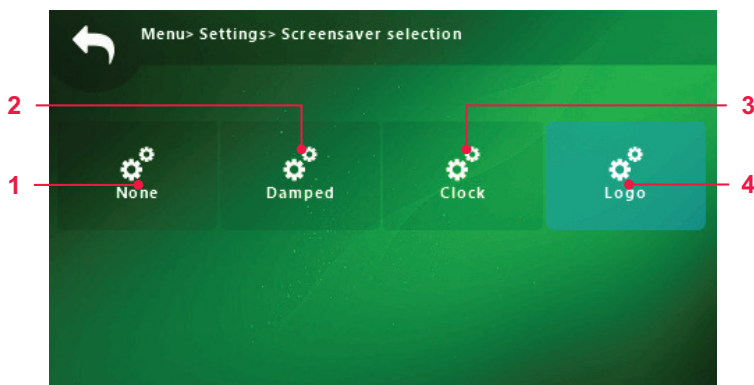


| NO. | LABEL | DESCRIPTION |
|-----|---------------|------------------------------|
| 1 | BRIGHTNESS | Range: [10 .. 100 %] |
| 2 | DIMMING LEVEL | Range: [0 .. 100 %] |
| 3 | DIMMING DELAY | Range: [10 .. 600 SECONDS] |

6.2.14.5. SCREENSAVER SELECTION

MENU » SETTINGS » SCREENSAVER SELECTION

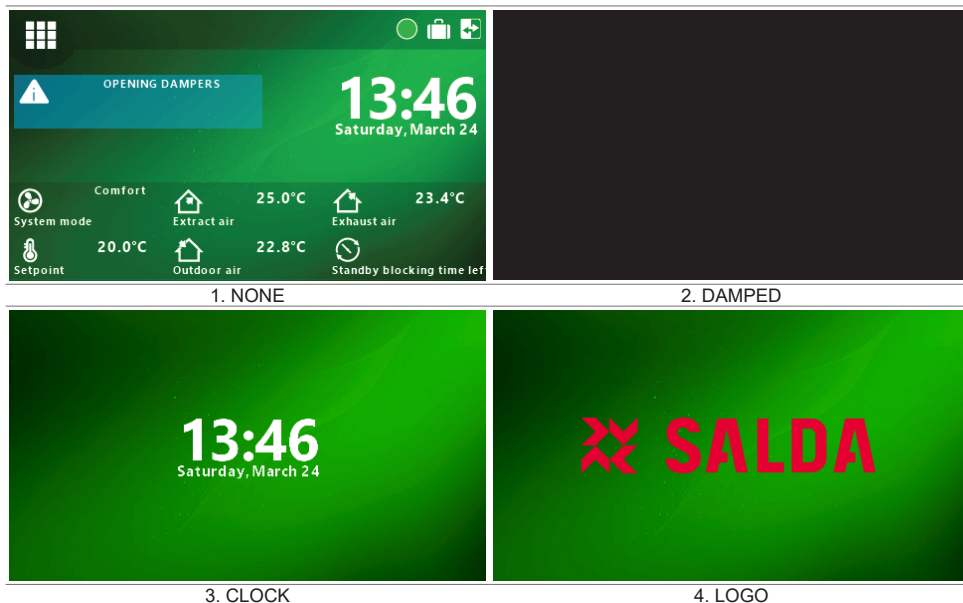
Screensaver will turn on after "Dimming delay" time runs out (MENU » SETTINGS » BRIGHTNESS).



| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|--------|-----|------|-------|
| 1 | | NONE | 3 | | CLOCK |
| 2 | | DAMPED | 4 | | LOGO |



NOTE. Screensaver will only work if there is no active warnings or alarms.



1. NONE

2. DAMPED

3. CLOCK

4. LOGO

6.2.14.6. SOUND SETTINGS

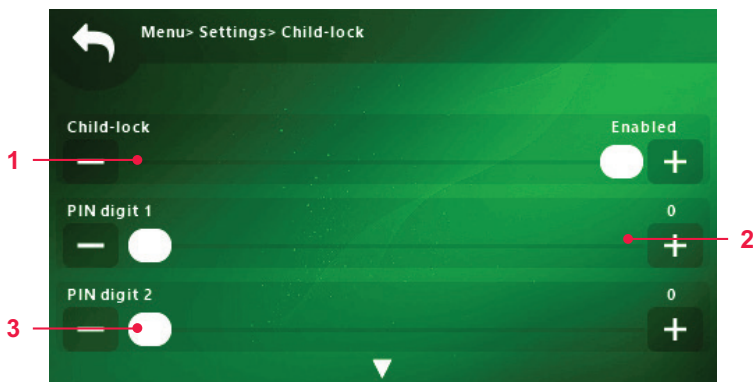
MENU » SETTINGS » SOUND SETTINGS

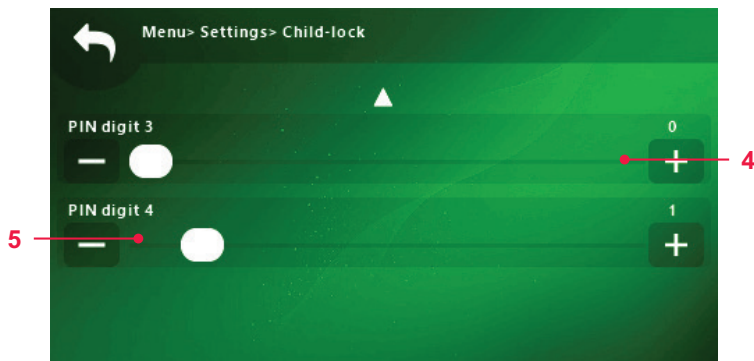
| NO. | LABEL | DESCRIPTION |
|-----|----------|-------------------------------------|
| 1 | SETTINGS | Options: • DISABLED • ENABLED |

6.2.14.7. CHILD-LOCK

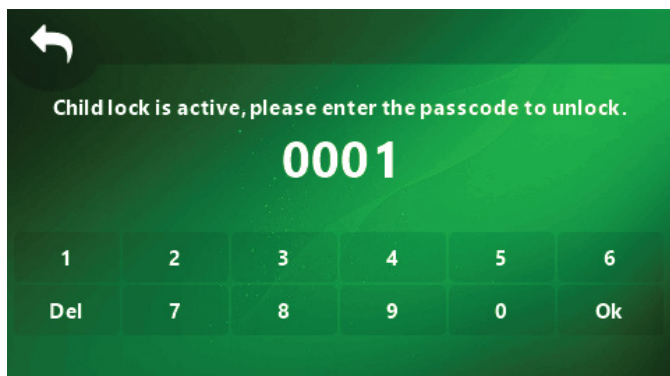
MENU » SETTINGS » CHILD-LOCK

Child lock will activate after "Dimming delay" time runs out (MENU » SETTINGS » BRIGHTNESS).



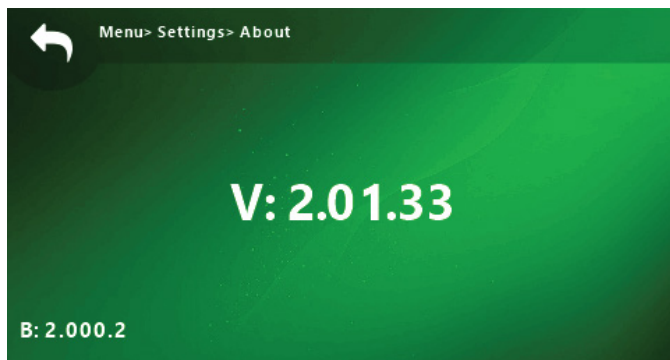


| NO. | LABEL | DESCRIPTION |
|-----|-------------|-------------------------------------|
| 1 | SETTINGS | Options: • DISABLED • ENABLED |
| 2 | PIN DIGIT 1 | Range: [0 .. 9] |
| 3 | PIN DIGIT 2 | Range: [0 .. 9] |
| 4 | PIN DIGIT 3 | Range: [0 .. 9] |
| 5 | PIN DIGIT 4 | Range: [0 .. 9] |



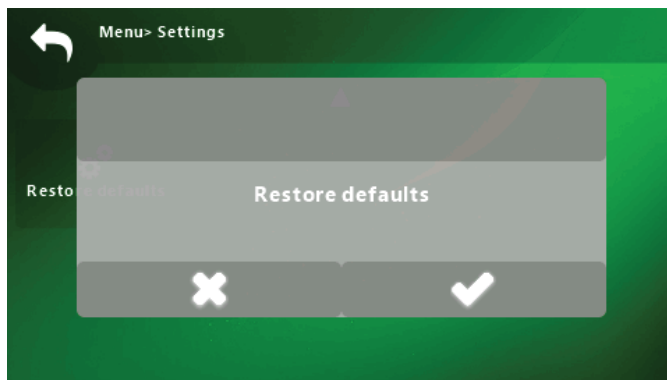
6.2.14.8. ABOUT

MENU » SETTINGS » ABOUT



6.2.14.9. RESTORE DEFAULTS

MENU » SETTINGS » RESTORE DEFAULTS

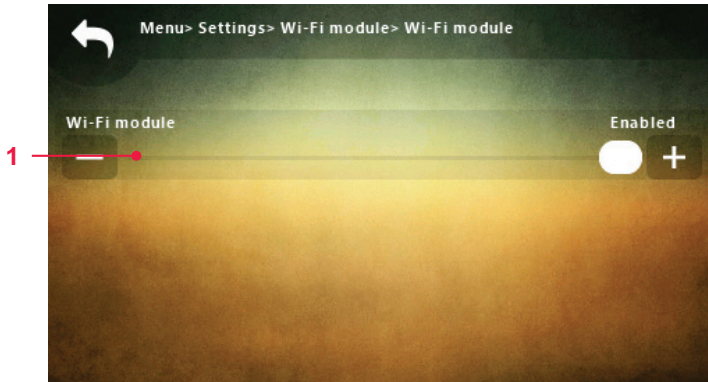


| NO. | LABEL | DESCRIPTION |
|-----|------------------|--------------------------------------|
| 1 | RESTORE DEFAULTS | Options: • NO ACTION • RESTORE |

6.2.14.10. WI-FI MODULE

MENU » SETTINGS » WI-FI MODULE » WI-FI MODULE

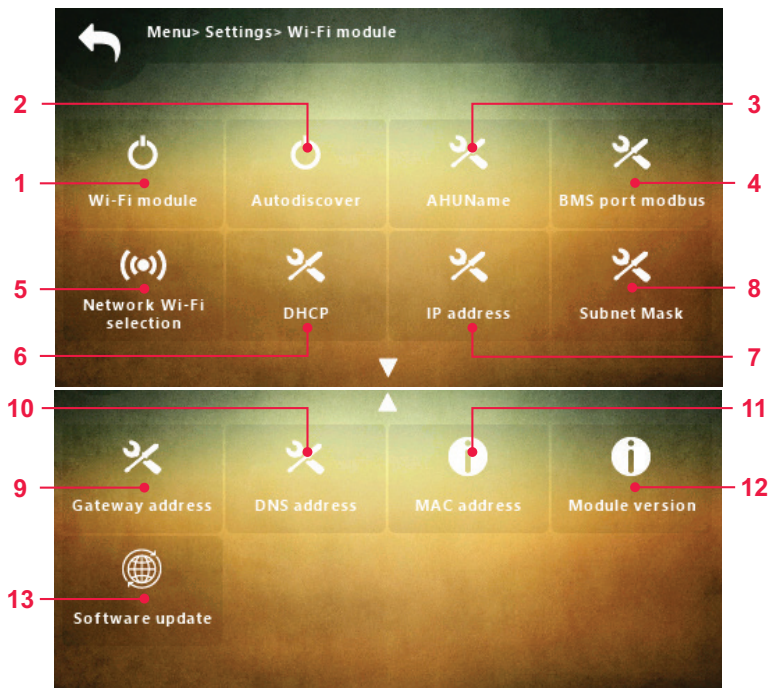
To use a Wi-Fi module enable it. By default Wi-Fi module is disabled.
















| NO. | LABEL | DESCRIPTION |
|-----|--------------|-------------------------------------|
| 1 | WI-FI MODULE | Options: • DISABLED • ENABLED |

6.2.14.10.1. WI-FI MODULE

MENU » SETTINGS » WI-FI MODULE

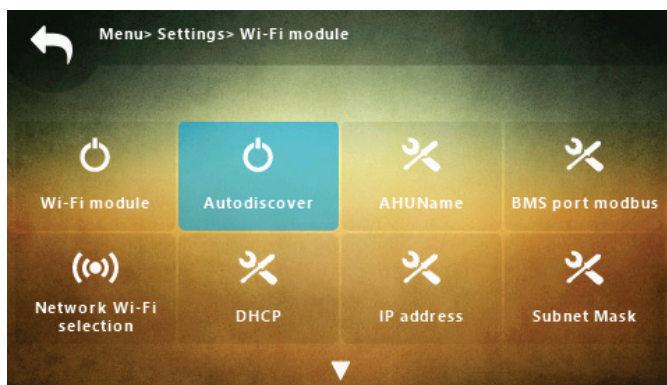


| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|---|-------------------------|-----|---|-----------------|
| 1 |  | WI-FI MODULE | 8 |  | SUBNET MASK |
| 2 |  | AUTODISCOVER | 9 |  | GATEWAY ADDRESS |
| 3 |  | AHUNAME | 10 |  | DNS ADDRESS |
| 4 |  | BMS PORT MODBUS | 11 |  | MAC ADDRESS |
| 5 |  | NETWORK WI-FI SELECTION | 12 |  | MODULE VERSION |
| 6 |  | DHCP | 13 |  | SOFTWARE UPDATE |
| 7 |  | IP ADDRESS | | | |

6.2.14.10.2. AUTODISCOVER

MENU » SETTINGS » WI-FI MODULE » AUTODISCOVER

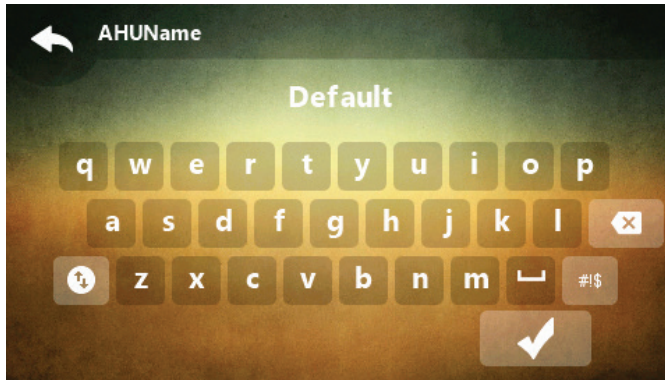
Autodiscover is used to automatically find a device in SALDA Air App. Autodiscover is enabled by default.



6.2.14.10.3. AHUNAME

MENU » SETTINGS » WI-FI MODULE » AHUNAME

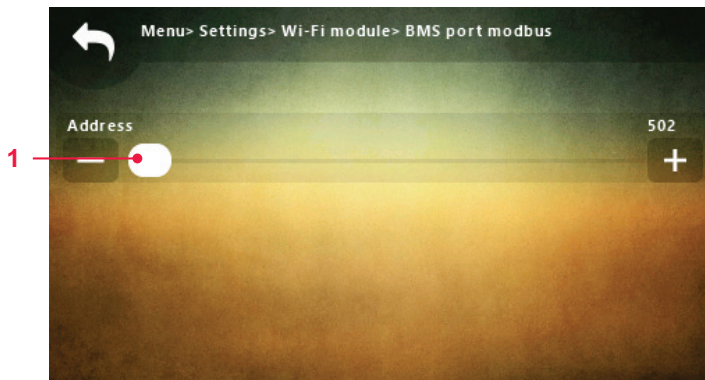
AHU name which is visible in SALDA Air app. Default name is "Default".



6.2.14.10.4. BMS PORT MODBUS

MENU » SETTINGS » WI-FI MODULE » BMS PORT MODBUS

Modbus TCP/IP port number. Default is 502.

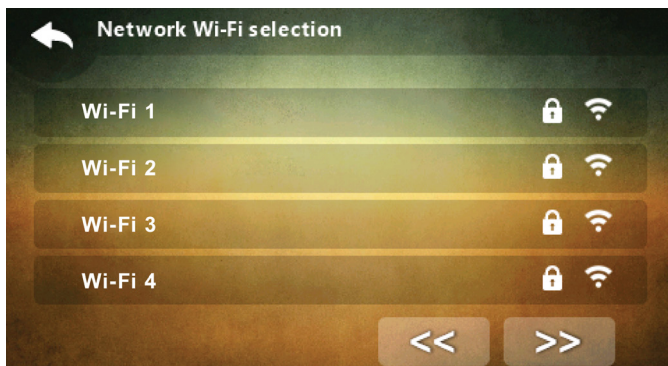


| NO. | LABEL | DESCRIPTION |
|-----|---------|------------------------|
| 1 | ADDRESS | Range: [1 ... 65535] |

6.2.14.10.5. NETWORK WI-FI SELECTION

MENU » SETTINGS » WI-FI MODULE » NETWORK WI-FI SELECTION

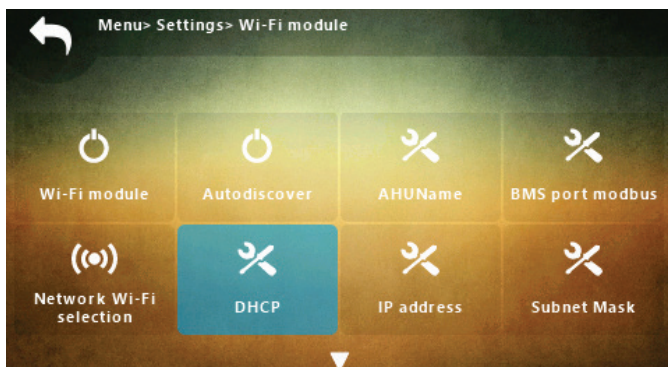
Click on **NETWORK WI-FI SELECTION**. The available Wi-Fi networks will be displayed. Select the Wi-Fi network you want to connect. Enter Wi-Fi network password.



6.2.14.10.6. DHCP

MENU » SETTINGS » WI-FI MODULE » DHCP

Enables/disables DHCP. Enabled by default.



6.2.14.10.7. IP ADDRESS

MENU » SETTINGS » WI-FI MODULE » IP ADDRESS

IP address of Wi-Fi module. Use this menu to enter IP address if DHCP is disabled.



6.2.14.10.8. SUBNET MASK

MENU » SETTINGS » WI-FI MODULE » SUBNET MASK

Subnet mask of Wi-Fi module. Use this menu to enter Subnet mask if DHCP is disabled.

**6.2.14.10.9. GATEWAY ADDRESS**

MENU » SETTINGS » WI-FI MODULE » GATEWAY ADDRESS

Gateway IP address of Wi-Fi module. Use this menu to enter Gateway IP address if DHCP is disabled.



6.2.14.10.10. DNS ADDRESS

MENU » SETTINGS » WI-FI MODULE » DNS ADDRESS

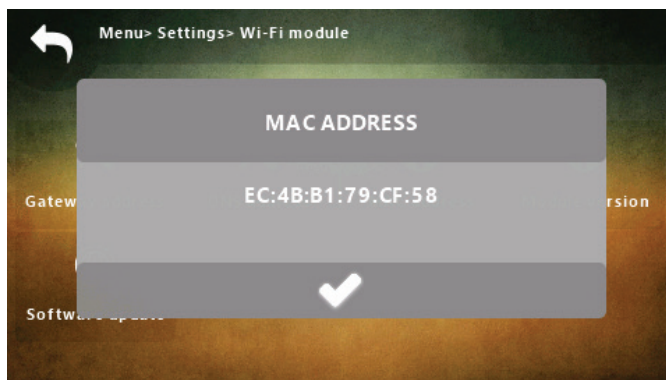
DNS IP address of Wi-Fi module. Use this menu to enter DNS IP address if DHCP is disabled.



6.2.14.10.11. MAC ADDRESS

MENU » SETTINGS » WI-FI MODULE » MAC ADDRESS

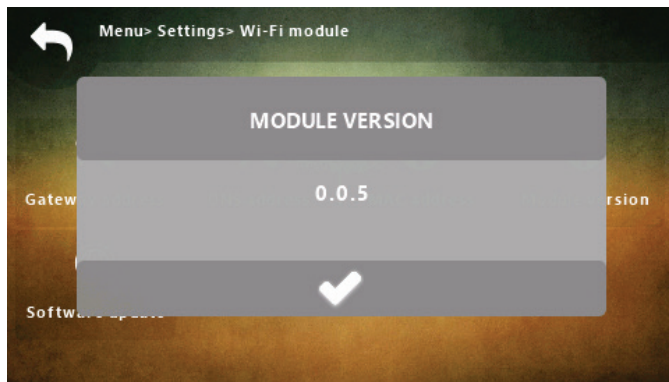
MAC address of Wi-Fi module.



6.2.14.10.12. MODULE VERSION

MENU » SETTINGS » WI-FI MODULE » MODULE VERSION

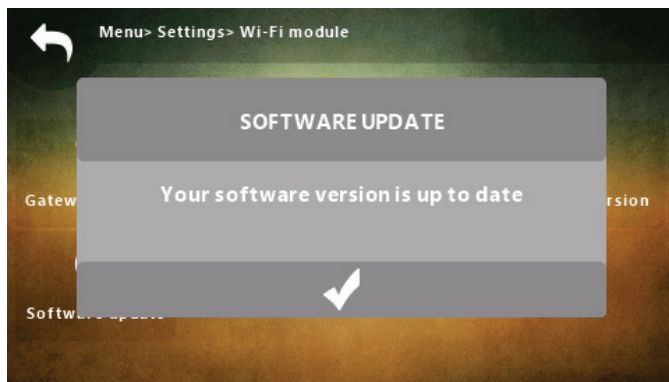
Software version of Wi-Fi module.



6.2.14.10.13. SOFTWARE UPDATE

MENU » SETTINGS » WI-FI MODULE » SOFTWARE UPDATE

Use this function to update Wi-Fi module software. ST-SA-Control must be online to use this function.



6.2.15. ADJUSTER

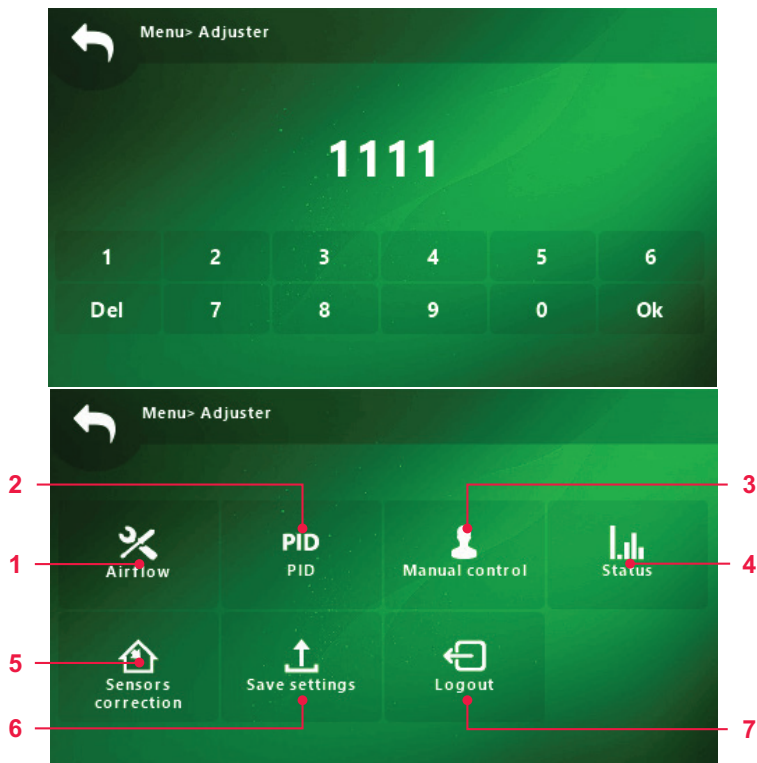
MENU » ADJUSTER



For detailed information about particular functions check the MCB manual. List of parameters depends on configuration of AHU and can be different.



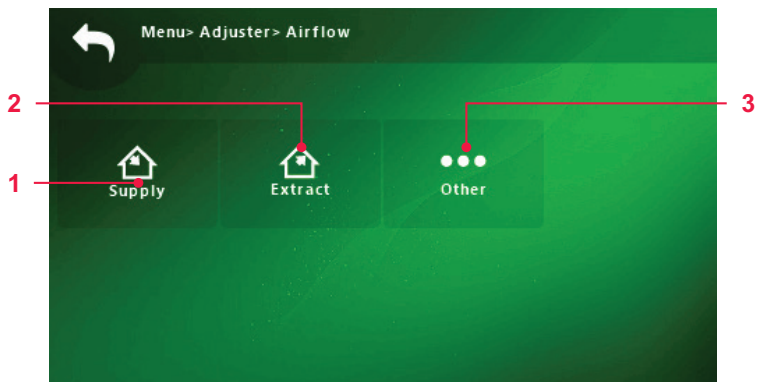
After changing settings, do not forget to save settings in MENU » ADJUSTER » SAVE SETTINGS.



| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------------|----------------|-----|------|--------------------|
| 1 | | AIRFLOW | 5 | | SENSORS CORRECTION |
| 2 | PID | PID | 6 | | SAVE SETTINGS |
| 3 | | MANUAL CONTROL | 7 | | LOGOUT |
| 4 | | STATUS | | | |

6.2.15.1. AIRFLOW

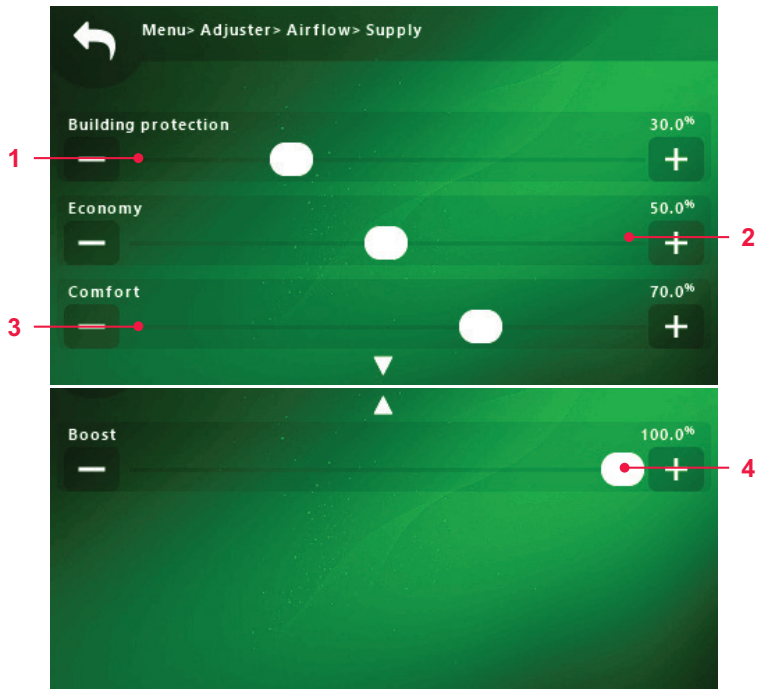
MENU » ADJUSTER » AIRFLOW



| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|---------|-----|------|-------|
| 1 | | SUPPLY | 3 | | OTHER |
| 2 | | EXTRACT | | | |

6.2.15.1.1. SUPPLY

MENU » ADJUSTER » AIRFLOW » SUPPLY



| NO. | LABEL | DESCRIPTION |
|-----|---------------------|-----------------------|
| 1 | BUILDING PROTECTION | Range: [0 .. 100 %] |
| 2 | ECONOMY | Range: [0 .. 100 %] |
| 3 | COMFORT | Range: [0 .. 100 %] |
| 4 | BOOST | Range: [0 .. 100 %] |

6.2.15.1.2. EXTRACT

MENU » ADJUSTER » AIRFLOW » EXTRACT

| NO. | LABEL | DESCRIPTION |
|-----|---------------------|-----------------------|
| 1 | BUILDING PROTECTION | Range: [0 .. 100 %] |
| 2 | ECONOMY | Range: [0 .. 100 %] |
| 3 | COMFORT | Range: [0 .. 100 %] |
| 4 | BOOST | Range: [0 .. 100 %] |

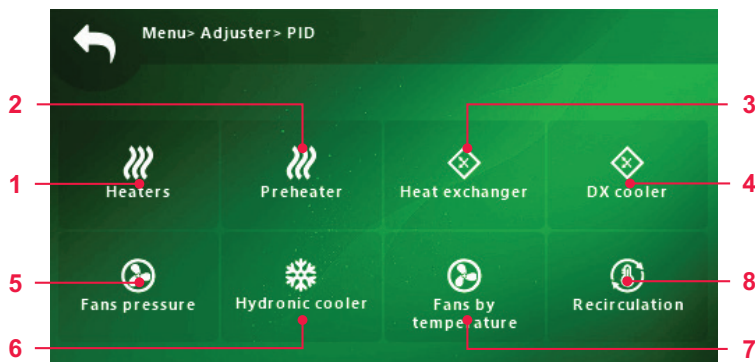
6.2.15.1.3. OTHER

MENU » ADJUSTER » AIRFLOW » OTHER

| NO. | LABEL | DESCRIPTION |
|-----|--|--------------------------|
| 1 | EXTRACT FAN SPEED FROM SUPPLY FAN SPEED DIFFERENCE | Range: [-100 .. 100 %] |

6.2.15.2. PID

MENU » ADJUSTER » PID



| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|----------------|-----|------|---------------------|
| 1 | | HEATERS | 5 | | FANS PRESSURE |
| 2 | | PREHEATER | 6 | | HYDRONIC COOLER |
| 3 | | HEAT EXCHANGER | 7 | | FANS BY TEMPERATURE |
| 4 | | DX COOLER | 8 | | RECIRCULATION |

6.2.15.2.1. HEATERS

MENU » ADJUSTER » PID » HEATERS



| NO. | LABEL | DESCRIPTION |
|-----|-------|----------------------|
| 1 | P | Range: [0 .. 1000] |
| 2 | I | Range: [0 .. 1000] |
| 3 | D | Range: [0 .. 1000] |

6.2.15.2.2. PREHEATER

MENU » ADJUSTER » PID » PREHEATER

| NO. | LABEL | DESCRIPTION |
|-----|-------|----------------------|
| 1 | P | Range: [0 .. 1000] |
| 2 | I | Range: [0 .. 1000] |
| 3 | D | Range: [0 .. 1000] |

6.2.15.2.3. HEAT EXCHANGER

MENU » ADJUSTER » PID » HEAT EXCHANGER

| NO. | LABEL | DESCRIPTION |
|-----|-------|----------------------|
| 1 | P | Range: [0 .. 1000] |
| 2 | I | Range: [0 .. 1000] |
| 3 | D | Range: [0 .. 1000] |

6.2.15.2.4. DX COOLER

MENU » ADJUSTER » PID » DX COOLER

| NO. | LABEL | DESCRIPTION |
|-----|-------|----------------------|
| 1 | P | Range: [0 .. 1000] |
| 2 | I | Range: [0 .. 1000] |
| 3 | D | Range: [0 .. 1000] |

6.2.15.2.5. FANS PRESSURE

MENU » ADJUSTER » PID » FANS PRESSURE

| NO. | LABEL | DESCRIPTION |
|-----|-------|----------------------|
| 1 | P | Range: [0 .. 1000] |
| 2 | I | Range: [0 .. 1000] |
| 3 | D | Range: [0 .. 1000] |

6.2.15.2.6. HYDRONIC COOLER

MENU » ADJUSTER » PID » HYDRONIC COOLER

| NO. | LABEL | DESCRIPTION |
|-----|-------|----------------------|
| 1 | P | Range: [0 .. 1000] |
| 2 | I | Range: [0 .. 1000] |
| 3 | D | Range: [0 .. 1000] |

6.2.15.2.7. FANS BY TEMPERATURE

MENU » ADJUSTER » PID » FANS BY TEMPERATURE

| NO. | LABEL | DESCRIPTION |
|-----|-------|----------------------|
| 1 | P | Range: [0 .. 1000] |
| 2 | I | Range: [0 .. 1000] |
| 3 | D | Range: [0 .. 1000] |

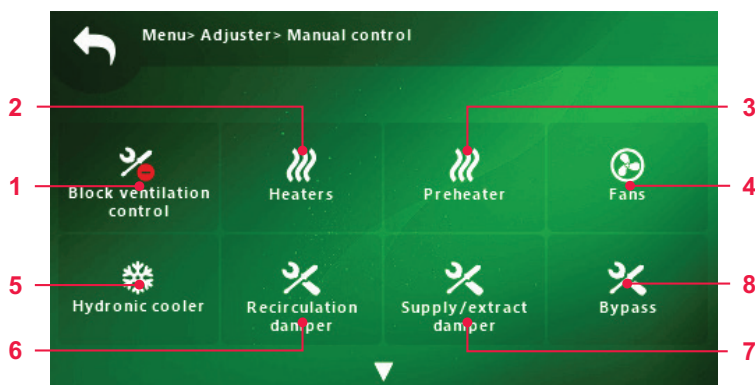
6.2.15.2.8. RECIRCULATION

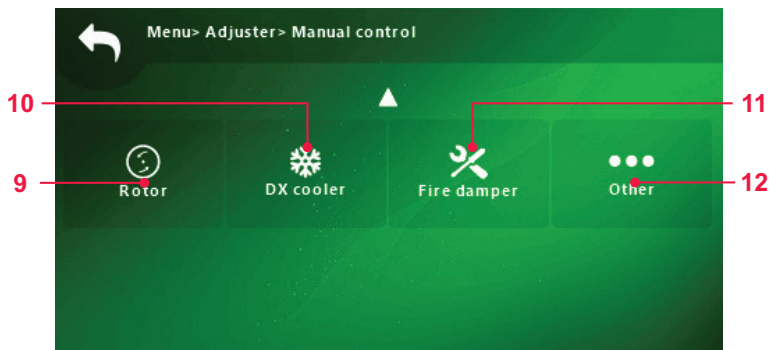
MENU » ADJUSTER » PID » RECIRCULATION

| NO. | LABEL | DESCRIPTION |
|-----|-------|----------------------|
| 1 | P | Range: [0 .. 1000] |
| 2 | I | Range: [0 .. 1000] |
| 3 | D | Range: [0 .. 1000] |

6.2.15.3. MANUAL CONTROL

MENU » ADJUSTER » MANUAL CONTROL





| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|---------------------------|-----|------|-----------------------|
| 1 | | BLOCK VENTILATION CONTROL | 7 | | SUPPLY/EXTRACT DAMPER |
| 2 | | HEATERS | 8 | | BYPASS |
| 3 | | PREHEATER | 9 | | ROTOR |
| 4 | | FANS | 10 | | DX COOLER |
| 5 | | HYDRONIC COOLER | 11 | | FIRE DAMPER |
| 6 | | RECIRCULATION DAMPER | 12 | | OTHER |

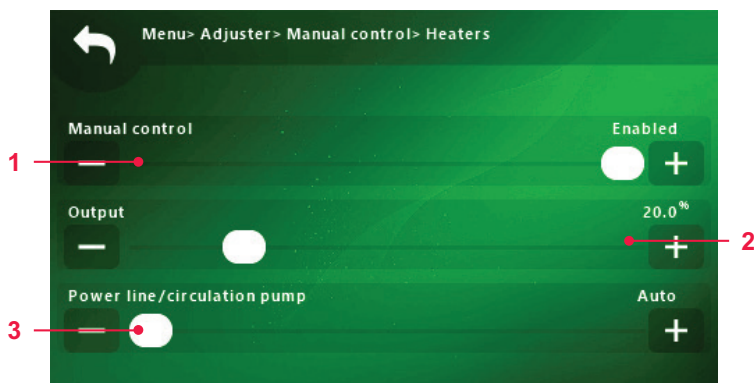
6.2.15.3.1. BLOCK VENTILATION CONTROL

MENU » ADJUSTER » MANUAL CONTROL » BLOCK VENTILATION CONTROL

| NO. | LABEL | DESCRIPTION |
|-----|---------------------------|-------------------------------------|
| 1 | BLOCK VENTILATION CONTROL | Options: • DISABLED • ENABLED |

6.2.15.3.2. HEATERS

MENU » ADJUSTER » MANUAL CONTROL » HEATERS



| NO. | LABEL | DESCRIPTION |
|-----|-----------------------------|---|
| 1 | MANUAL CONTROL | Options: • DISABLED • ENABLED |
| 2 | OUTPUT | Range: [0 .. 100 %] |
| 3 | POWER LINE/CIRCULATION PUMP | Options: • AUTO • DISABLED • ENABLED |

6.2.15.3.3. PREHEATER

MENU » ADJUSTER » MANUAL CONTROL » PREHEATER

| NO. | LABEL | DESCRIPTION |
|-----|-----------------------------|---|
| 1 | MANUAL CONTROL | Options: • DISABLED • ENABLED |
| 2 | OUTPUT | Range: [0 .. 100 %] |
| 3 | POWER LINE/CIRCULATION PUMP | Options: • AUTO • DISABLED • ENABLED |

6.2.15.3.4. FANS

MENU » ADJUSTER » MANUAL CONTROL » FANS

| NO. | LABEL | DESCRIPTION |
|-----|------------------------|---|
| 1 | SUPPLY MANUAL CONTROL | Options: • DISABLED • ENABLED |
| 2 | OUTPUT | Range: [0 .. 100 %] |
| 3 | EXTRACT MANUAL CONTROL | Options: • DISABLED • ENABLED |
| 4 | OUTPUT | Range: [0 .. 100 %] |
| 5 | POWER LINE | Options: • AUTO • DISABLED • ENABLED |

6.2.15.3.5. HYDRONIC COOLER

MENU » ADJUSTER » MANUAL CONTROL » HYDRONIC COOLER

| NO. | LABEL | DESCRIPTION |
|-----|------------------|---|
| 1 | MANUAL CONTROL | Options: • DISABLED • ENABLED |
| 2 | OUTPUT | Range: [0 .. 100 %] |
| 3 | CIRCULATION PUMP | Options: • AUTO • DISABLED • ENABLED |

6.2.15.3.6. RECIRCULATION DAMPER

MENU » ADJUSTER » MANUAL CONTROL » RECIRCULATION DAMPER



| NO. | LABEL | DESCRIPTION |
|-----|---|---|
| 1 | SUPPLY RECIRCULATION DAMPER POSITION | Options: • AUTO • MANUAL |
| 2 | SUPPLY RECIRCULATION DAMPER POSITION | Range: [0 .. 100 %] |
| 3 | SUPPLY RECIRCULATION DAMPER OPEN OUTPUT | Options: • AUTO • DISABLED • ENABLED |

| NO. | LABEL | DESCRIPTION |
|-----|---|---|
| 4 | SUPPLY RECIRCULATION DAMPER CLOSE OUTPUT | Options: • AUTO • DISABLED • ENABLED |
| 5 | OUTSIDE RECIRCULATION DAMPER POSITION | Options: • AUTO • MANUAL |
| 6 | OUTSIDE RECIRCULATION DAMPER POSITION | Range: [0 .. 100 %] |
| 7 | OUTSIDE RECIRCULATION DAMPER OPEN OUTPUT | Options: • AUTO • DISABLED • ENABLED |
| 8 | OUTSIDE RECIRCULATION DAMPER CLOSE OUTPUT | Options: • AUTO • DISABLED • ENABLED |

6.2.15.3.7. SUPPLY/EXTRACT DAMPER

MENU » ADJUSTER » MANUAL CONTROL » SUPPLY/EXTRACT DAMPER

| NO. | LABEL | DESCRIPTION |
|-----|---------------------------------|---|
| 1 | EXTRACT AIR DAMPER POSITION | Options: • AUTO • MANUAL |
| 2 | EXTRACT AIR DAMPER POSITION | Range: [0 .. 100 %] |
| 3 | EXTRACT AIR DAMPER OPEN OUTPUT | Options: • AUTO • DISABLED • ENABLED |
| 4 | EXTRACT AIR DAMPER CLOSE OUTPUT | Options: • AUTO • DISABLED • ENABLED |
| 5 | SUPPLY AIR DAMPER POSITION | Options: • AUTO • MANUAL |
| 6 | SUPPLY AIR DAMPER POSITION | Range: [0 .. 100 %] |
| 7 | SUPPLY AIR DAMPER OPEN OUTPUT | Options: • AUTO • DISABLED • ENABLED |
| 8 | SUPPLY AIR DAMPER CLOSE OUTPUT | Options: • AUTO • DISABLED • ENABLED |

6.2.15.3.8. BYPASS

MENU » ADJUSTER » MANUAL CONTROL » BYPASS

| NO. | LABEL | DESCRIPTION |
|-----|----------------|-------------------------------------|
| 1 | MANUAL CONTROL | Options: • DISABLED • ENABLED |
| 2 | OUTPUT | Range: [0 .. 100 %] |

| NO. | LABEL | DESCRIPTION |
|-----|----------------------|---|
| 3 | OUTPUT: DAMPER OPEN | Options: • AUTO • DISABLED • ENABLED |
| 4 | OUTPUT: DAMPER CLOSE | Options: • AUTO • DISABLED • ENABLED |

6.2.15.3.9. ROTOR

MENU » ADJUSTER » MANUAL CONTROL » ROTOR

| NO. | LABEL | DESCRIPTION |
|-----|----------------|---|
| 1 | MANUAL CONTROL | Options: • DISABLED • ENABLED |
| 2 | OUTPUT | Range: [0 .. 100 %] |
| 3 | POWER LINE | Options: • AUTO • DISABLED • ENABLED |

6.2.15.3.10. DX COOLER

MENU » ADJUSTER » MANUAL CONTROL » DX COOLER

| NO. | LABEL | DESCRIPTION |
|-----|-------------------|---|
| 1 | MANUAL CONTROL | Options: • DISABLED • ENABLED |
| 2 | OUTPUT | Range: [0 .. 100 %] |
| 3 | POWER LINE | Options: • AUTO • DISABLED • ENABLED |
| 4 | REVERSE | Options: • AUTO • DISABLED • ENABLED |
| 5 | DX DEFROST OUTPUT | Options: • AUTO • DISABLED • ENABLED |

6.2.15.3.11. FIRE DAMPER

MENU » ADJUSTER » MANUAL CONTROL » FIRE DAMPER

| NO. | LABEL | DESCRIPTION |
|-----|---------------------|---|
| 1 | MANUAL CONTROL | Options: • DISABLED • ENABLED |
| 2 | OUTPUT | Range: [0 .. 100 %] |
| 3 | OUTPUT: DAMPER OPEN | Options: • AUTO • DISABLED • ENABLED |

| NO. | LABEL | DESCRIPTION |
|-----|----------------------|---|
| 4 | OUTPUT: DAMPER CLOSE | Options: • AUTO • DISABLED • ENABLED |

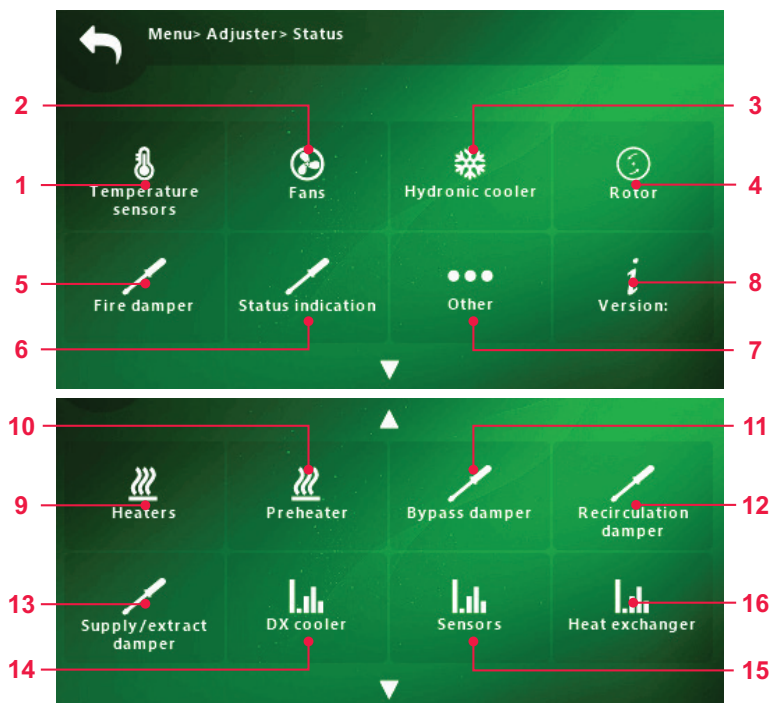
6.2.15.3.12. OTHER

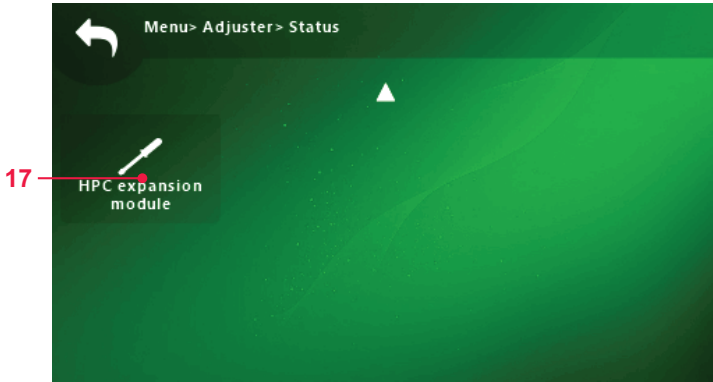
MENU » ADJUSTER » MANUAL CONTROL » OTHER

| NO. | LABEL | DESCRIPTION |
|-----|----------------------------------|---|
| 1 | CONTROLLER CABINET HEATER OUTPUT | Options: • AUTO • DISABLED • ENABLED |
| 2 | WORKING INDICATION OUTPUT: | Options: • AUTO • DISABLED • ENABLED |
| 3 | ALARM INDICATION OUTPUT: | Options: • AUTO • DISABLED • ENABLED |

6.2.15.4. STATUS

MENU » ADJUSTER » STATUS

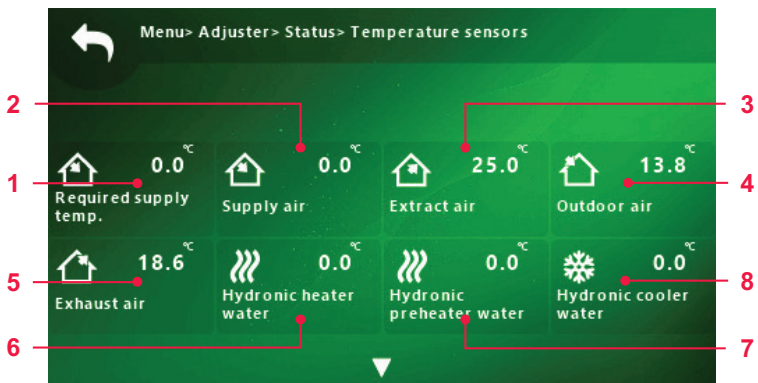


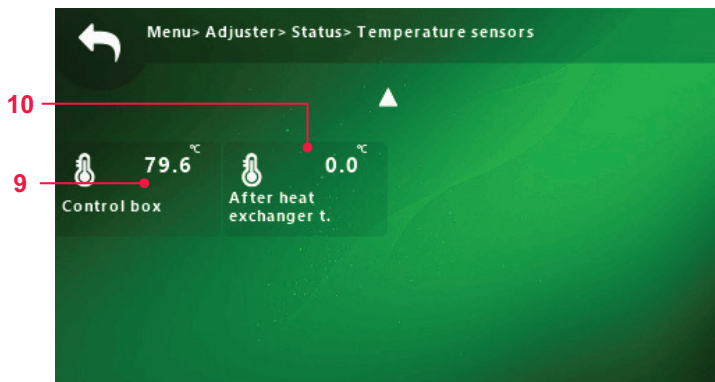


| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|---------------------|-----|------|-----------------------|
| 1 | | TEMPERATURE SENSORS | 10 | | PREHEATER |
| 2 | | FANS | 11 | | BYPASS DAMPER |
| 3 | | HYDRONIC COOLER | 12 | | RECIRCULATION DAMPER |
| 4 | | ROTOR | 13 | | SUPPLY/EXTRACT DAMPER |
| 5 | | FIRE DAMPER | 14 | | DX COOLER |
| 6 | | STATUS INDICATION | 15 | | SENSORS |
| 7 | | OTHER | 16 | | HEAT EXCHANGER |
| 8 | | VERSION | 17 | | HPC EXPANSION MODULE |
| 9 | | HEATERS | | | |

6.2.15.4.1. TEMPERATURE SENSORS

MENU » ADJUSTER » STATUS » TEMPERATURE SENSORS





| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|----------------------------------|-------------|
| 1 | | REQUIRED SUPPLY TEMPERATURE | [°C] |
| 2 | | SUPPLY AIR | [°C] |
| 3 | | EXTRACT AIR | [°C] |
| 4 | | OUTDOOR AIR | [°C] |
| 5 | | EXHAUST AIR | [°C] |
| 6 | | HYDRONIC HEATER WATER | [°C] |
| 7 | | HYDRONIC PREHEATER WATER | [°C] |
| 8 | | HYDRONIC COOLER WATER | [°C] |
| 9 | | CONTROL BOX | [°C] |
| 10 | | AFTER HEAT EXCHANGER TEMPERATURE | [°C] |

6.2.15.4.2. FANS

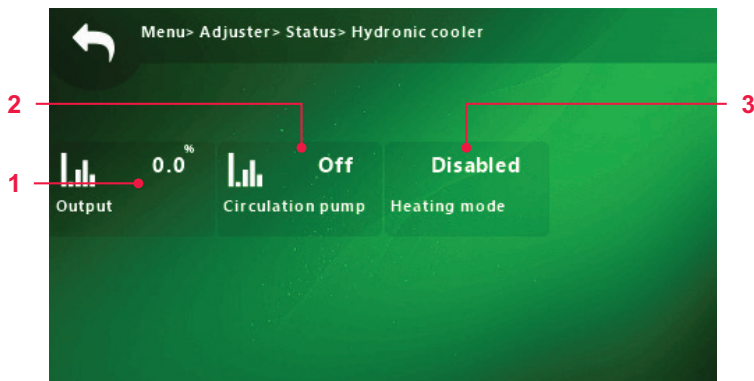
MENU » ADJUSTER » STATUS » FANS



| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|-------------------------------|------------------------------------|
| 1 | | SUPPLY FAN SPEED | Range: [0 .. 10 V] |
| 2 | | EXTRACT FAN SPEED | Range: [0 .. 10 V] |
| 3 | | POWER LINE | Options: • OFF • ON |
| 4 | | SUPPLY FAN PROTECTION | Options: • OFF • ON |
| 5 | | EXTRACT FAN PROTECTION | Options: • OFF • ON |
| 6 | | SUPPLY FILTER PRESSURE RELAY | Options: • INACTIVE • ACTIVE |
| 7 | | EXTRACT FILTER PRESSURE RELAY | Options: • INACTIVE • ACTIVE |
| 8 | | SUPPLY FAN WARNING | Options: • INACTIVE • ACTIVE |
| 9 | | EXTRACT FAN WARNING | Options: • INACTIVE • ACTIVE |

6.2.15.4.3. HYDRONIC COOLER

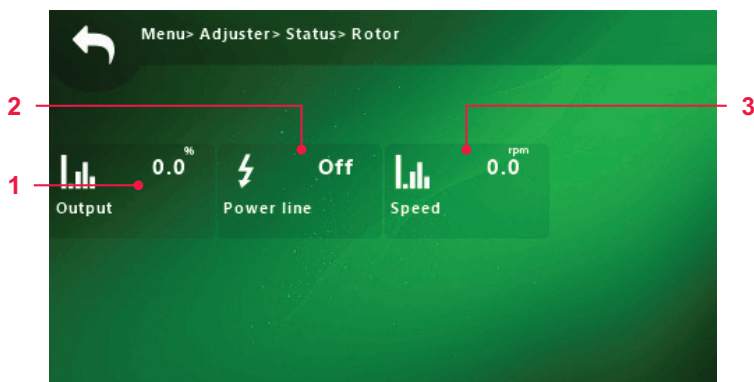
MENU » ADJUSTER » STATUS » HYDRONIC COOLER



| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|------------------|-------------------------------------|
| 1 | | OUTPUT | Range: [0 .. 100 %] |
| 2 | | CIRCULATION PUMP | Options: • OFF • ON |
| 3 | | HEATING MODE | Options: • DISABLED • ENABLED |

6.2.15.4.4. ROTOR

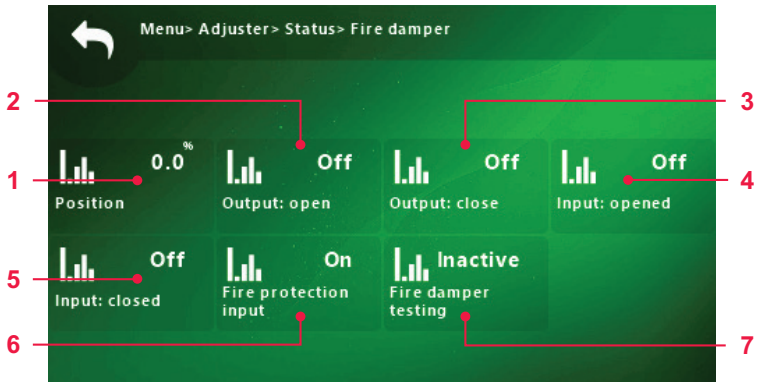
MENU » ADJUSTER » STATUS » ROTOR



| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|------------|---------------------------|
| 1 | | OUTPUT | Range: [0 .. 100 %] |
| 2 | | POWER LINE | Options: • OFF • ON |
| 3 | | SPEED | Range: [0 .. 100 rpm] |

6.2.15.4.5. FIRE DAMPER

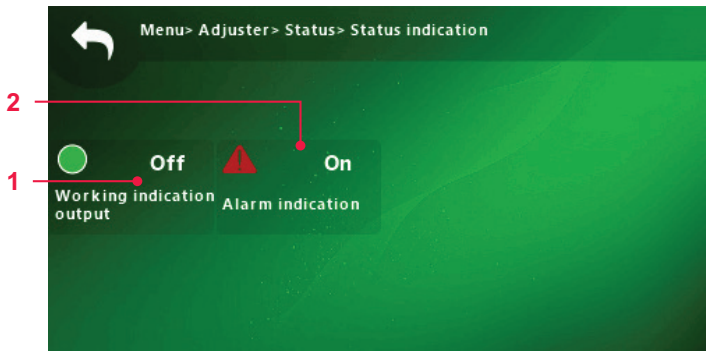
MENU » ADJUSTER » STATUS » FIRE DAMPER



| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|-----------------------|------------------------------------|
| 1 | | POSITION | Range: [0 .. 100 %] |
| 2 | | OUTPUT: OPEN | Options: • OFF • ON |
| 3 | | OUTPUT: CLOSE | Options: • OFF • ON |
| 4 | | INPUT: OPENED | Options: • OFF • ON |
| 5 | | INPUT: CLOSED | Options: • OFF • ON |
| 6 | | FIRE PROTECTION INPUT | Options: • OFF • ON |
| 7 | | FIRE DAMPER TESTING | Options: • INACTIVE • ACTIVE |

6.2.15.4.6. STATUS INDICATION

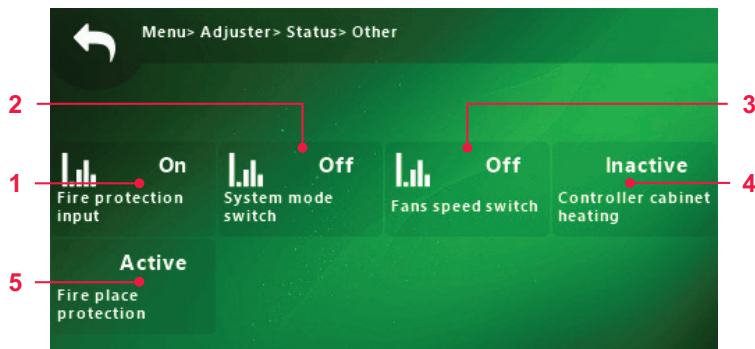
MENU » ADJUSTER » STATUS » STATUS INDICATION






| NO. | ICON | LABEL | DESCRIPTION |
|-----|---|---------------------------|---------------------------|
| 1 |  | WORKING INDICATION OUTPUT | Options: • OFF • ON |
| 2 |  | ALARM INDICATION | Options: • OFF • ON |

6.2.15.4.7. OTHER

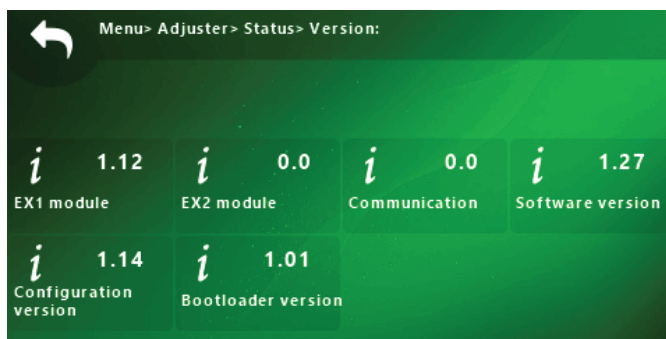
MENU » ADJUSTER » STATUS » OTHER



| NO. | ICON | LABEL | DESCRIPTION |
|-----|---|----------------------------|------------------------------------|
| 1 |  | FIRE PROTECTION INPUT | Options: • OFF • ON |
| 2 |  | SYSTEM MODE SWITCH | Options: • OFF • ON |
| 3 |  | FANS SPEED SWITCH | Options: • OFF • ON |
| 4 | | CONTROLLER CABINET HEATING | Options: • INACTIVE • ACTIVE |
| 5 | | FIRE PLACE PROTECTION | Options: • INACTIVE • ACTIVE |

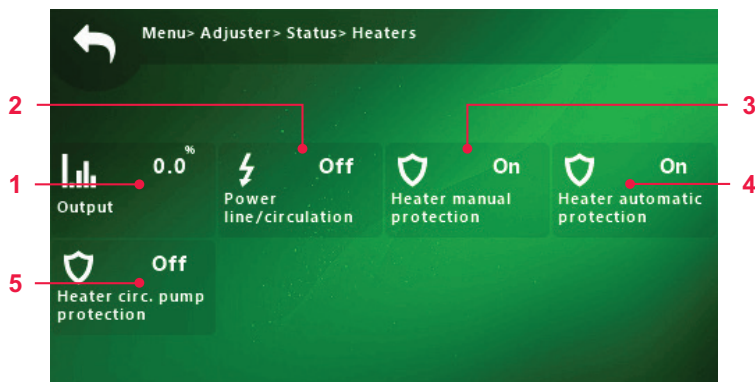
6.2.15.4.8. VERSION

MENU » ADJUSTER » STATUS » VERSION



6.2.15.4.9. HEATERS

MENU » ADJUSTER » STATUS » HEATERS



| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|------------------------------------|---------------------------|
| 1 | | OUTPUT | Range: [0 .. 100 %] |
| 2 | | POWER LINE/CIRCULATION PUMP | Options: • OFF • ON |
| 3 | | HEATER MANUAL PROTECTION | Options: • OFF • ON |
| 4 | | HEATER AUTOMATIC PROTECTION | Options: • OFF • ON |
| 5 | | HEATER CIRCULATION PUMP PROTECTION | Options: • OFF • ON |

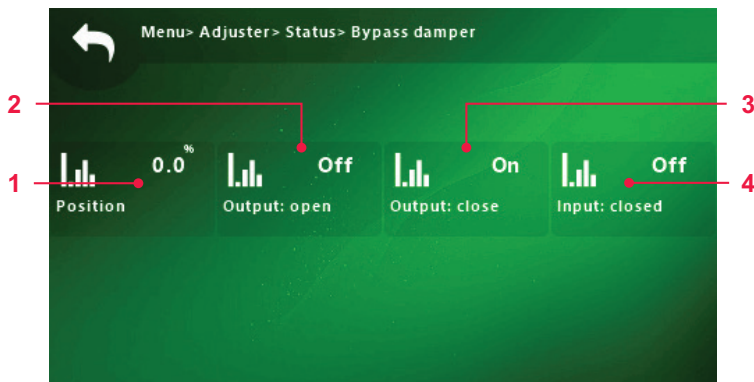
6.2.15.4.10. PREHEATER

MENU » ADJUSTER » STATUS » PREHEATER

| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|---------------------------------------|---------------------------|
| 1 | | OUTPUT | Range: [0 .. 100 %] |
| 2 | | POWER LINE/CIRCULATION PUMP | Options: • OFF • ON |
| 3 | | PREHEATER MANUAL PROTECTION | Options: • OFF • ON |
| 4 | | PREHEATER AUTOMATIC PROTECTION | Options: • OFF • ON |
| 5 | | PREHEATER CIRCULATION PUMP PROTECTION | Options: • OFF • ON |

6.2.15.4.11. BYPASS DAMPER

MENU » ADJUSTER » STATUS » BYPASS DAMPER



| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|---------------|---------------------------|
| 1 | | POSITION | Range: [0 .. 100 %] |
| 2 | | OUTPUT: OPEN | Options: • OFF • ON |
| 3 | | OUTPUT: CLOSE | Options: • OFF • ON |
| 4 | | INPUT: CLOSED | Options: • OFF • ON |

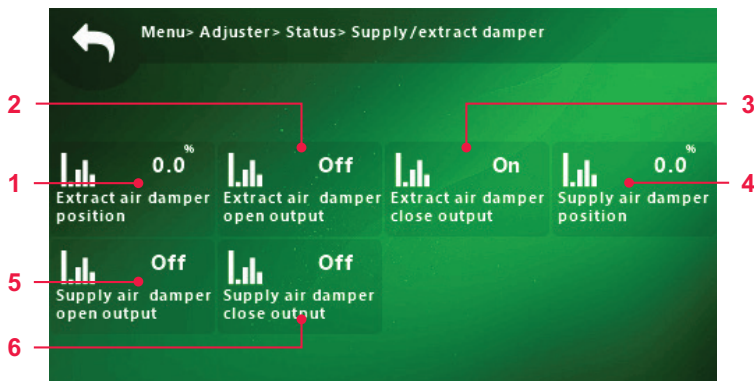
6.2.15.4.12. RECIRCULATION DAMPER

MENU » ADJUSTER » STATUS » RECIRCULATION DAMPER

| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|---------------|------------------------------------|
| 1 | | INPUT: CLOSED | Options: • INACTIVE • ACTIVE |

6.2.15.4.13. SUPPLY/EXTRACT DAMPER

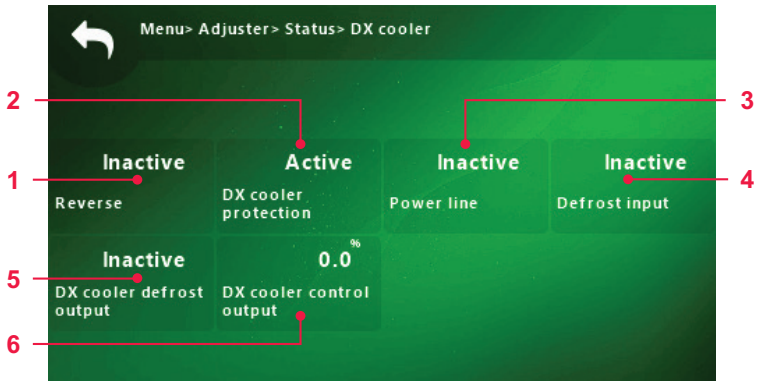
MENU » ADJUSTER » STATUS » SUPPLY/EXTRACT DAMPER



| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|---------------------------------|---------------------------|
| 1 | | EXTRACT AIR DAMPER POSITION | Range: [0 .. 100 %] |
| 2 | | EXTRACT AIR DAMPER OPEN OUTPUT | Options: • OFF • ON |
| 3 | | EXTRACT AIR DAMPER CLOSE OUTPUT | Options: • OFF • ON |
| 4 | | SUPPLY AIR DAMPER POSITION | Options: • OFF • ON |
| 5 | | SUPPLY AIR DAMPER OPEN OUTPUT | Options: • OFF • ON |
| 6 | | SUPPLY AIR DAMPER CLOSE OUTPUT | Options: • OFF • ON |

6.2.15.4.14. DX COOLER

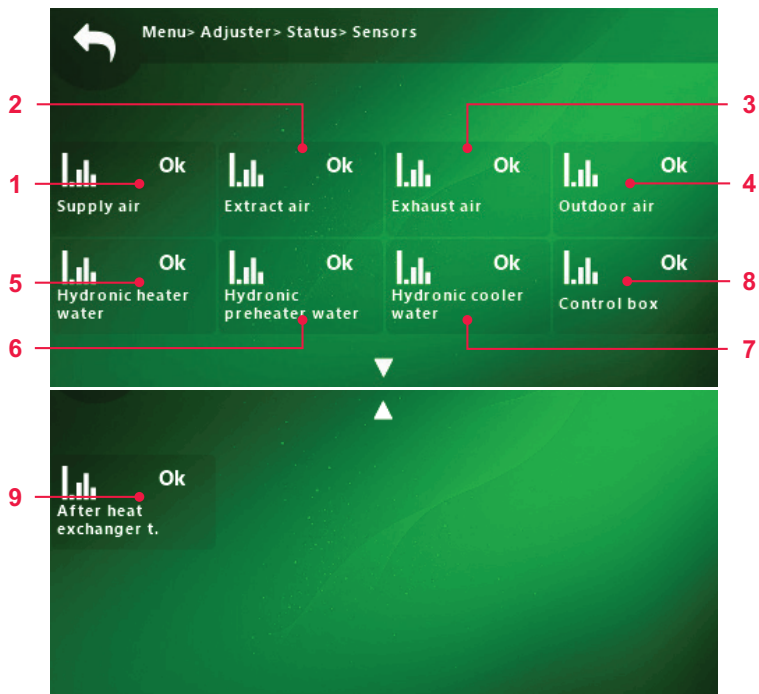
MENU » ADJUSTER » STATUS » DX COOLER



| NO. | LABEL | DESCRIPTION |
|-----|--------------------------|------------------------------------|
| 1 | REVERSE | Options: • INACTIVE • ACTIVE |
| 2 | DX COOLER PROTECTION | Options: • INACTIVE • ACTIVE |
| 3 | POWER LINE | Options: • INACTIVE • ACTIVE |
| 4 | DEFROST INPUT | Options: • INACTIVE • ACTIVE |
| 5 | DX COOLER DEFROST OUTPUT | Options: • INACTIVE • ACTIVE |
| 6 | DX COOLER CONTROL OUTPUT | Range: [0 .. 100 %] |

6.2.15.4.15. SENSORS

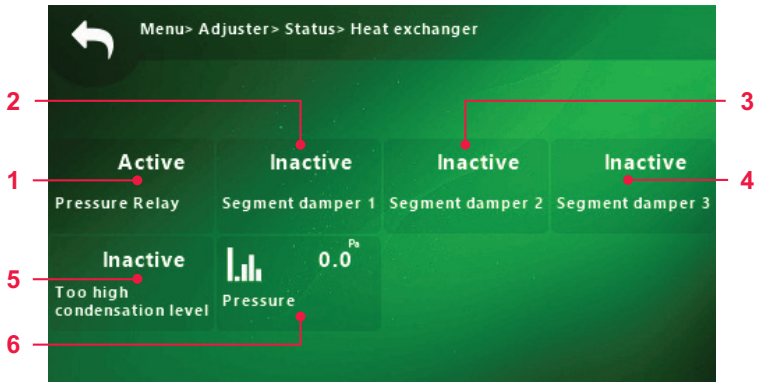
MENU » ADJUSTER » STATUS » SENSORS



| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|----------------------------------|-------------------------------|
| 1 | | SUPPLY AIR | Options: • FAILURE • OK |
| 2 | | EXTRACT AIR | Options: • FAILURE • OK |
| 3 | | EXHAUST AIR | Options: • FAILURE • OK |
| 4 | | OUTDOOR AIR | Options: • FAILURE • OK |
| 5 | | HYDRONIC HEATER WATER | Options: • FAILURE • OK |
| 6 | | HYDRONIC PREHEATER WATER | Options: • FAILURE • OK |
| 7 | | HYDRONIC COOLER WATER | Options: • FAILURE • OK |
| 8 | | CONTROL BOX | Options: • FAILURE • OK |
| 9 | | AFTER HEAT EXCHANGER TEMPERATURE | Options: • FAILURE • OK |

6.2.15.4.16. HEAT EXCHANGER

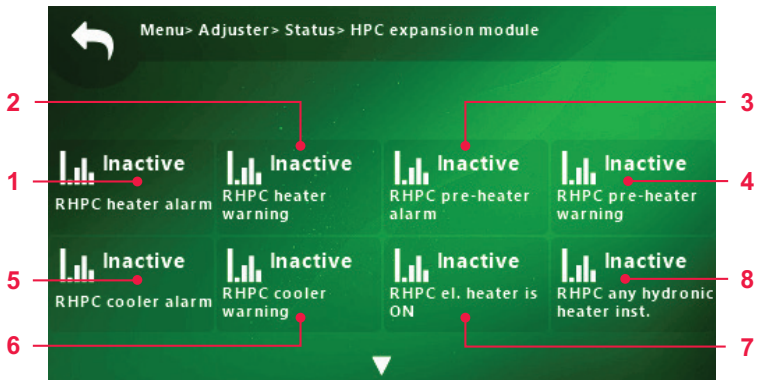
MENU » ADJUSTER » STATUS » HEAT EXCHANGER

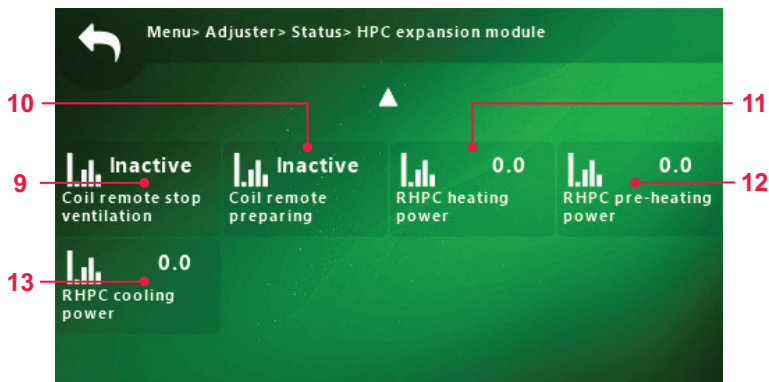


| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|-----------------------------|------------------------------------|
| 1 | | PRESSURE RELAY | Options: • INACTIVE • ACTIVE |
| 2 | | SEGMENT DAMPER 1 | Options: • INACTIVE • ACTIVE |
| 3 | | SEGMENT DAMPER 2 | Options: • INACTIVE • ACTIVE |
| 4 | | SEGMENT DAMPER 3 | Options: • INACTIVE • ACTIVE |
| 5 | | TOO HIGH CONDENSATION LEVEL | Options: • INACTIVE • ACTIVE |
| 6 | | PRESSURE | [Pa] |

6.2.15.4.17. HPC EXPANSION MODULE

MENU » ADJUSTER » STATUS » HPC EXPANSION MODULE

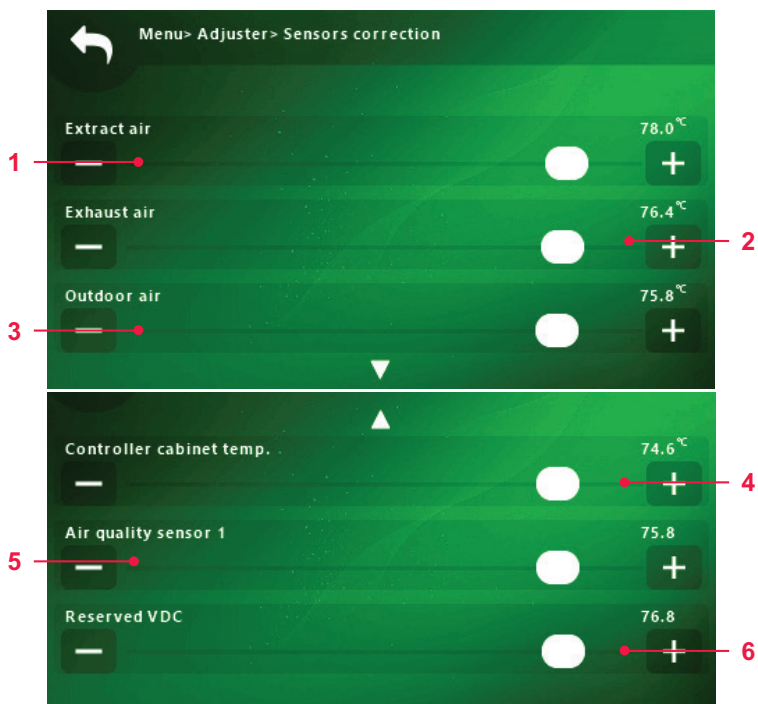




| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|--------------------------------|------------------------------------|
| 1 | | RHPC HEATER ALARM | Options: • INACTIVE • ACTIVE |
| 2 | | RHPC HEATER WARNING | Options: • INACTIVE • ACTIVE |
| 3 | | RHPC PREHEATER ALARM | Options: • INACTIVE • ACTIVE |
| 4 | | RHPC PREHEATER WARNING | Options: • INACTIVE • ACTIVE |
| 5 | | RHPC COOLER ALARM | Options: • INACTIVE • ACTIVE |
| 6 | | RHPC COOLER WARNING | Options: • INACTIVE • ACTIVE |
| 7 | | RHPC EL. HEATER IS ON | Options: • INACTIVE • ACTIVE |
| 8 | | RHPC ANY HYDRONIC HEATER INST. | Options: • INACTIVE • ACTIVE |
| 9 | | COIL REMOTE STOP VENTILATION | Options: • INACTIVE • ACTIVE |
| 10 | | COIL REMOTE PREPARING | Options: • INACTIVE • ACTIVE |
| 11 | | RHPC HEATING POWER | |
| 12 | | RHPC PREHEATING POWER | |
| 13 | | RHPC COOLING POWER | |

6.2.15.5. SENSORS CORRECTION

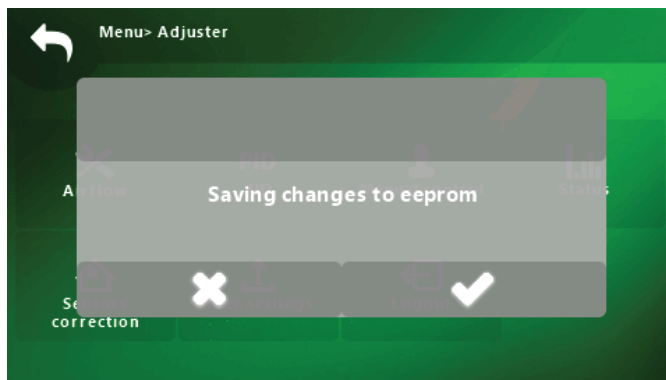
MENU » ADJUSTER » SENSORS CORRECTION



| NO. | LABEL | DESCRIPTION |
|-----|--------------------------|---------------------------|
| 1 | EXTRACT AIR | Range: [-100 .. 100 °C] |
| 2 | EXHAUST AIR | Range: [-100 .. 100 °C] |
| 3 | OUTDOOR AIR | Range: [-100 .. 100 °C] |
| 4 | CONTROLLER CABINET TEMP. | Range: [-100 .. 100 °C] |
| 5 | AIR QUALITY SENSOR 1 | Range: [-100 .. 100] |
| 6 | RESERVED VDC | Range: [-100 .. 100] |

6.2.15.6. SAVE SETTINGS

MENU » ADJUSTER » SAVE SETTINGS



| NO. | LABEL | DESCRIPTION |
|-----|------------------------|-----------------------------------|
| 1 | SAVE CHANGES TO EEPROM | Options: • NO ACTION • SAVE |

6.2.15.7. LOGOUT

MENU » ADJUSTER » LOGOUT

6.2.16. SERVICE

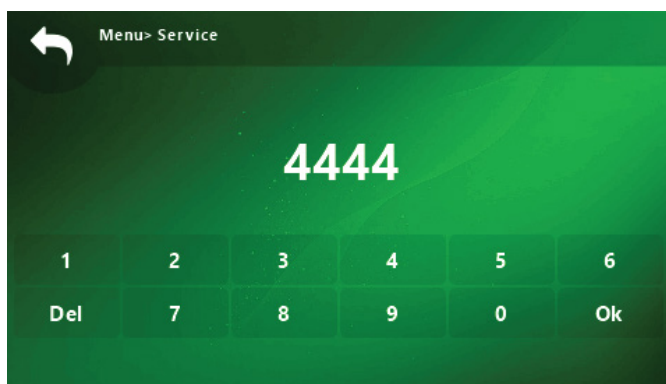
MENU » SERVICE

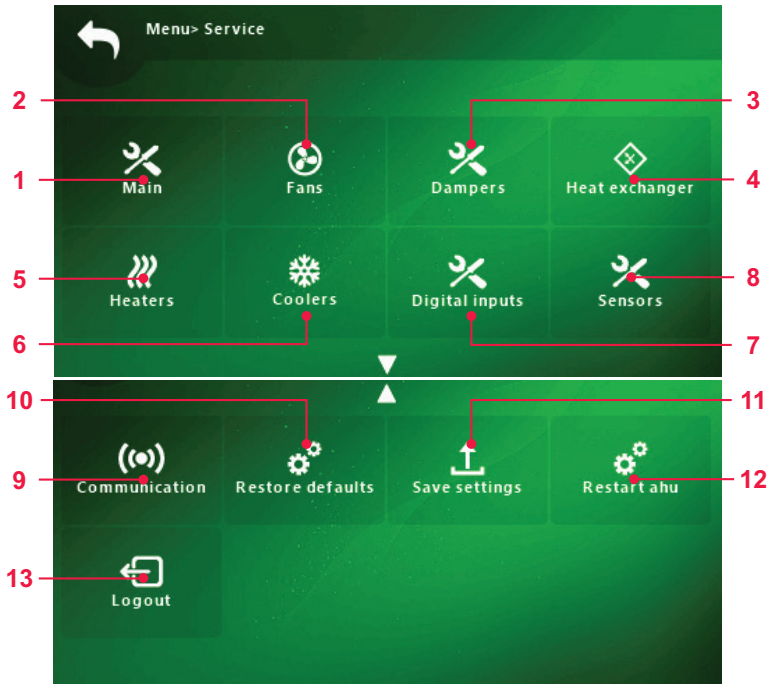


For detailed information about particular functions check the MCB manual.



After changing settings, do not forget to save settings in MENU » SERVICE » SAVE SETTINGS.

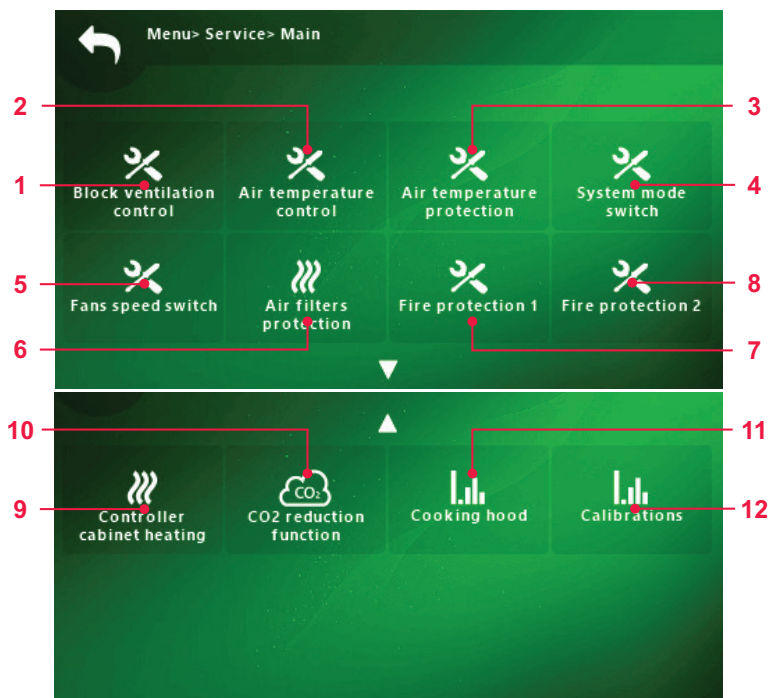




| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|----------------|-----|------|------------------|
| 1 | | MAIN | 8 | | SENSORS |
| 2 | | FANS | 9 | | COMMUNICATION |
| 3 | | DAMPERS | 10 | | RESTORE DEFAULTS |
| 4 | | HEAT EXCHANGER | 11 | | SAVE SETTINGS |
| 5 | | HEATERS | 12 | | RESTART AHU |
| 6 | | COOLERS | 13 | | LOGOUT |
| 7 | | DIGITAL INPUTS | | | |

6.2.16.1. MAIN

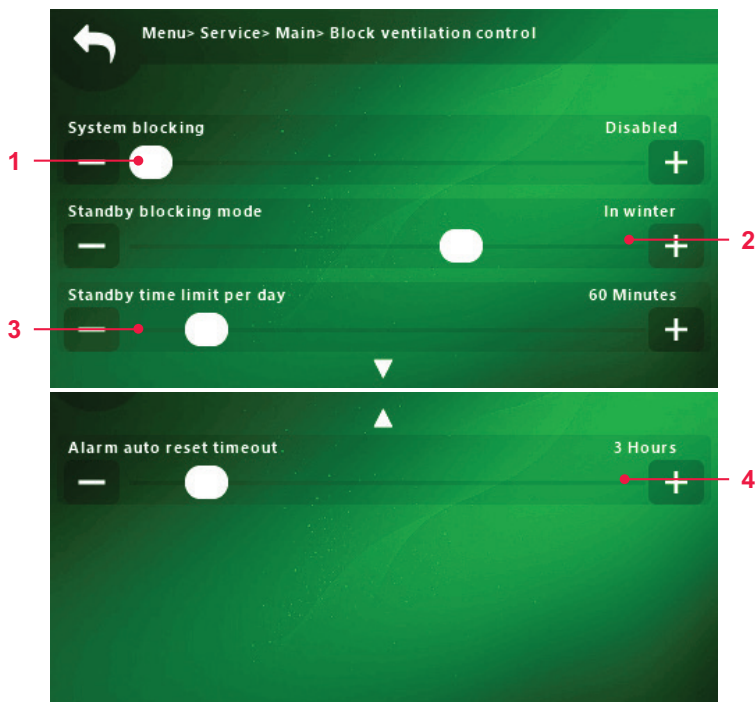
MENU » SERVICE » MAIN



| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|----------------------------|-----|------|------------------------------------|
| 1 | | BLOCK VENTILATION CONTROL | 7 | | FIRE PROTECTION 1 |
| 2 | | AIR TEMPERATURE CONTROL | 8 | | FIRE PROTECTION 2 |
| 3 | | AIR TEMPERATURE PROTECTION | 9 | | CONTROLLER CABINET HEATING |
| 4 | | SYSTEM MODE SWITCH | 10 | | CO ₂ REDUCTION FUNCTION |
| 5 | | FANS SPEED SWITCH | 11 | | COOKING HOOD |
| 6 | | AIR FILTERS PROTECTION | 12 | | CALIBRATIONS |

6.2.16.1.1. BLOCK VENTILATION CONTROL

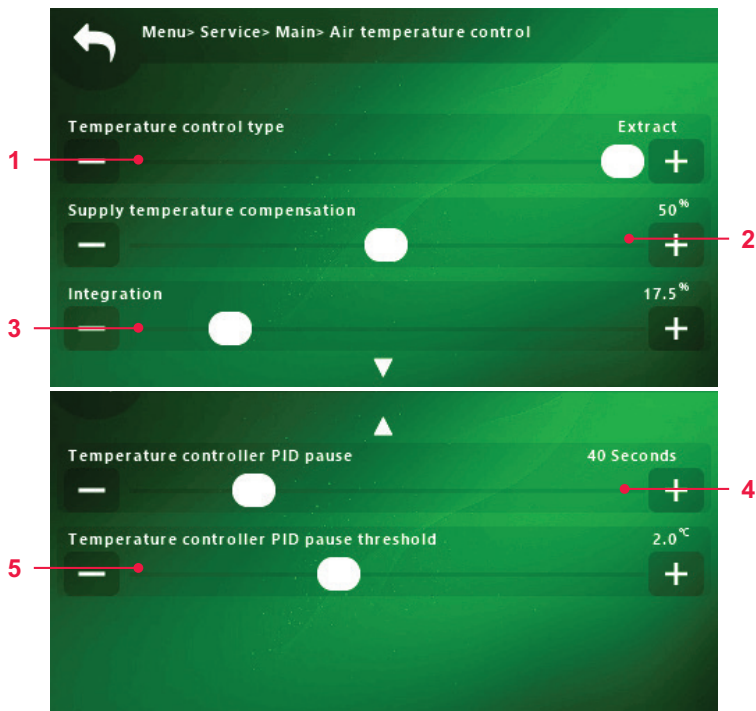
MENU » SERVICE » MAIN » BLOCK VENTILATION CONTROL



| NO. | LABEL | DESCRIPTION |
|-----|----------------------------|---|
| 1 | SYSTEM BLOCKING | Options: • DISABLED • ENABLED |
| 2 | STANDBY BLOCKING MODE | Options: • NEVER • ALWAYS • IN WINTER • IN SUMMER |
| 3 | STANDBY TIME LIMIT PER DAY | Range: [0 .. 500 MINUTES] |
| 4 | ALARM AUTO RESET TIMEOUT | Options: • DISABLED • Range: [1 .. 24 HOURS] |

6.2.16.1.2. AIR TEMPERATURE CONTROL

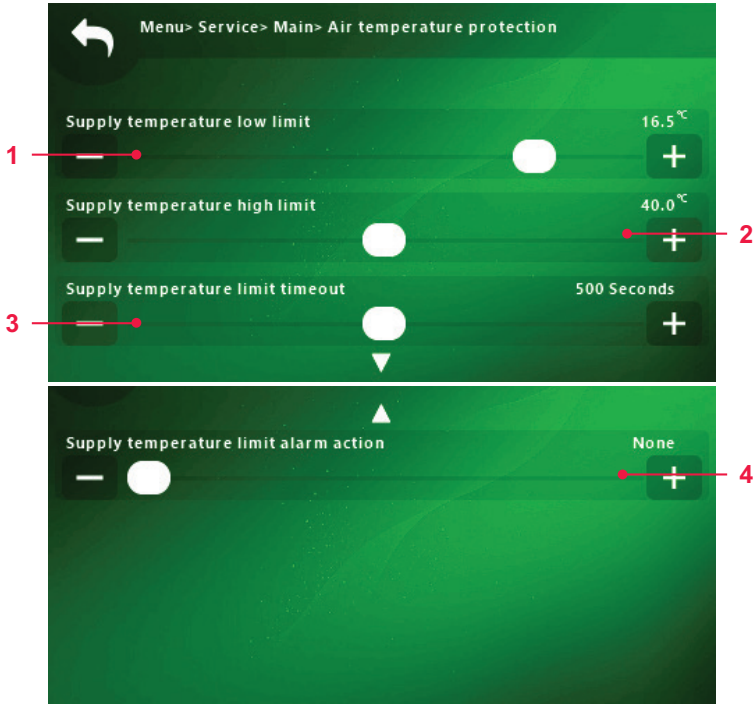
MENU » SERVICE » MAIN » AIR TEMPERATURE CONTROL



| NO. | LABEL | DESCRIPTION |
|-----|--|-----------------------------------|
| 1 | TEMPERATURE CONTROL TYPE | Options: • SUPPLY • EXTRACT |
| 2 | SUPPLY TEMPERATURE COMPENSATION | Range: [0 .. 100 %] |
| 3 | INTEGRATION | Range: [0 .. 100 %] |
| 4 | TEMPERATURE CONTROLLER PID PAUSE | Range: [0 .. 180 SECONDS] |
| 5 | TEMPERATURE CONTROLLER PID PAUSE THRESHOLD | Range: [0 .. 5 °C] |

6.2.16.1.3. AIR TEMPERATURE PROTECTION

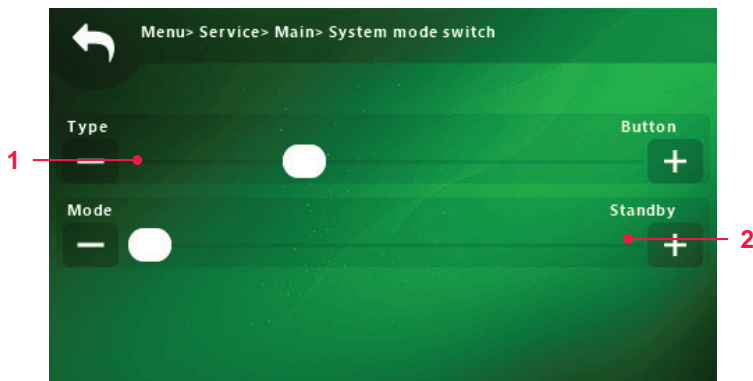
MENU » SERVICE » MAIN » AIR TEMPERATURE PROTECTION



| NO. | LABEL | DESCRIPTION |
|-----|---------------------------------------|---|
| 1 | SUPPLY TEMPERATURE LOW LIMIT | Range: [0 .. 20 °C] |
| 2 | SUPPLY TEMPERATURE HIGH LIMIT | Range: [20 .. 60 °C] |
| 3 | SUPPLY TEMPERATURE LIMIT TIMEOUT | Range: [0 .. 1000 SECONDS] |
| 4 | SUPPLY TEMPERATURE LIMIT ALARM ACTION | Options: <ul style="list-style-type: none"> • NONE • SHOW WARNING • STOP SYSTEM |

6.2.16.1.4. SYSTEM MODE SWITCH

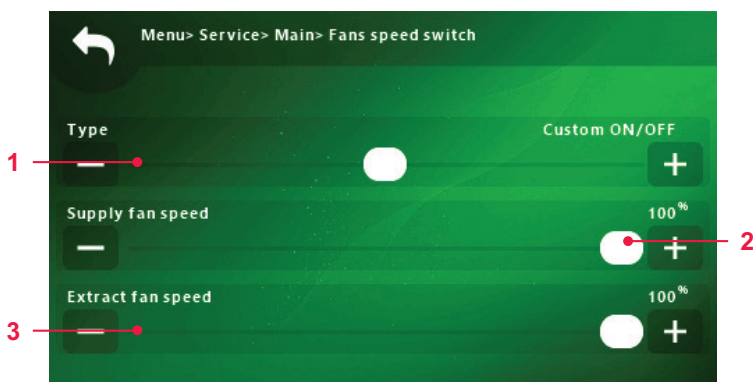
MENU » SERVICE » MAIN » SYSTEM MODE SWITCH



| NO. | LABEL | DESCRIPTION |
|-----|-------|--|
| 1 | TYPE | Options: • NONE • BUTTON • ON/OFF • PIR |
| 2 | MODE | Options: • STANDBY • BUILDING PROTECTION • ECONOMY • COMFORT |

6.2.16.1.5. FANS SPEED SWITCH

MENU » SERVICE » MAIN » FANS SPEED SWITCH

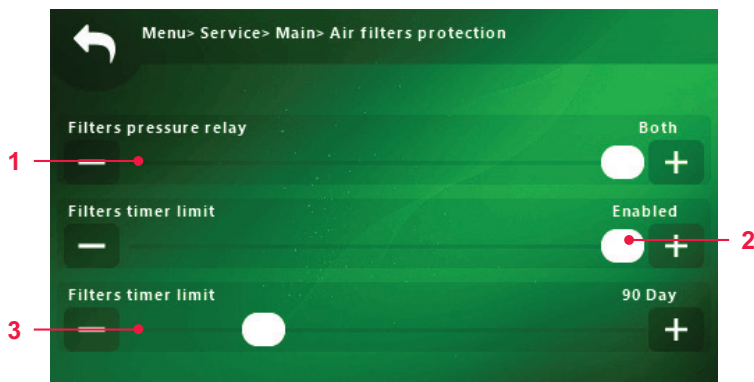


| NO. | LABEL | DESCRIPTION |
|-----|-------|--|
| 1 | TYPE | Options: • NONE • PULSE - CUSTOM • CUSTOM ON/OFF • PULSE - BOOST • BOOST - ON/OFF |

| NO. | LABEL | DESCRIPTION |
|-----|-------------------|-----------------------|
| 2 | SUPPLY FAN SPEED | Range: [0 .. 100 %] |
| 3 | EXTRACT FAN SPEED | Range: [0 .. 100 %] |

6.2.16.1.6. AIR FILTERS PROTECTION

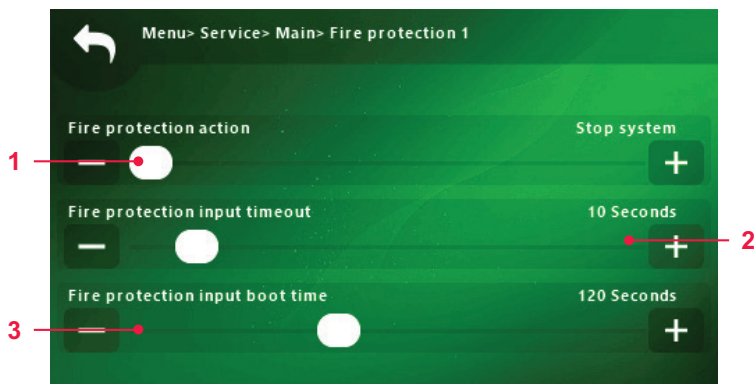
MENU » SERVICE » MAIN » AIR FILTERS PROTECTION



| NO. | LABEL | DESCRIPTION |
|-----|------------------------|---|
| 1 | FILTERS PRESSURE RELAY | Options: • NONE • SUPPLY AIR • EXTRACT AIR • BOTH |
| 2 | FILTERS TIMER LIMIT | Options: • DISABLED • ENABLED |
| 3 | FILTERS TIMER LIMIT | Range: [1 .. 365 DAY] |

6.2.16.1.7. FIRE PROTECTION 1

MENU » SERVICE » MAIN » FIRE PROTECTION 1



| NO. | LABEL | DESCRIPTION |
|-----|---------------------------------|--|
| 1 | FIRE PROTECTION ACTION | Options: • STOP SYSTEM • SUPPLY AIR • EXTRACT AIR • BOTH |
| 2 | FIRE PROTECTION INPUT TIMEOUT | Range: [0 .. 100 SECONDS] |
| 3 | FIRE PROTECTION INPUT BOOT TIME | Range: [0 .. 300 SECONDS] |

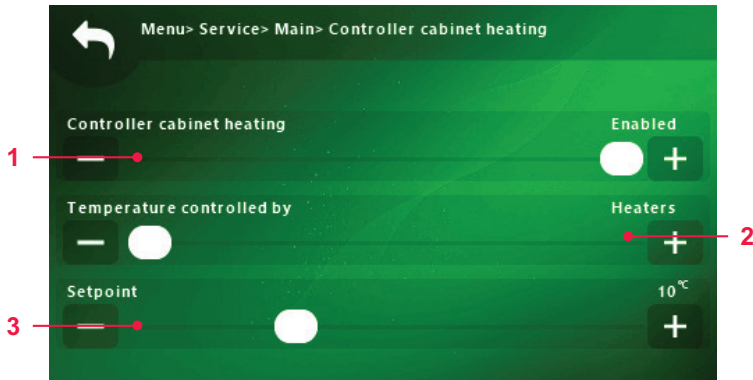
6.2.16.1.8. FIRE PROTECTION 2

MENU » SERVICE » MAIN » FIRE PROTECTION 2

| NO. | LABEL | DESCRIPTION |
|-----|---------------------------------|--|
| 1 | FIRE PROTECTION ACTION | Options: • STOP SYSTEM • SUPPLY AIR • EXTRACT AIR • BOTH |
| 2 | FIRE PROTECTION INPUT TIMEOUT | Range: [0 .. 100 SECONDS] |
| 3 | FIRE PROTECTION INPUT BOOT TIME | Range: [0 .. 300 SECONDS] |

6.2.16.1.9. CONTROLLER CABINET HEATING

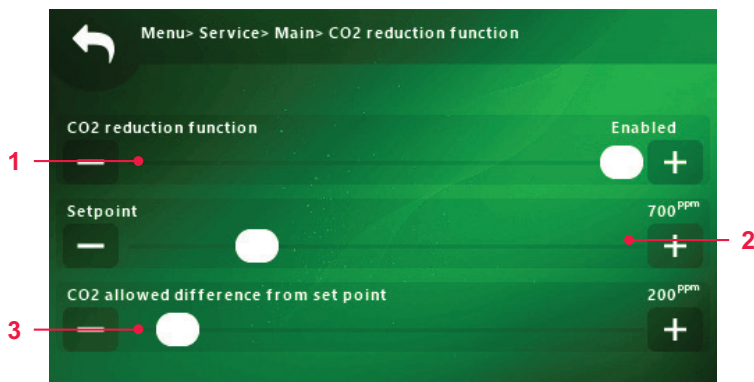
MENU » SERVICE » MAIN » CONTROLLER CABINET HEATING



| NO. | LABEL | DESCRIPTION |
|-----|----------------------------|-------------------------------------|
| 1 | CONTROLLER CABINET HEATING | Options: • DISABLED • ENABLED |
| 2 | TEMPERATURE CONTROLLED BY | Options: • HEATERS • FANS |
| 3 | SETPOINT | Range: [1 .. 30 °C] |

6.2.16.1.10. CO₂ REDUCTION FUNCTION

MENU » SERVICE » MAIN » CO₂ REDUCTION FUNCTION



| NO. | LABEL | DESCRIPTION |
|-----|---|-------------------------------------|
| 1 | CO ₂ REDUCTION FUNCTION | Options: • DISABLED • ENABLED |
| 2 | SETPOINT | Range: [0 .. 3000 ppm] |
| 3 | CO ₂ ALLOWED DIFFERENCE FROM SET POINT | Range: [0 .. 3000 ppm] |

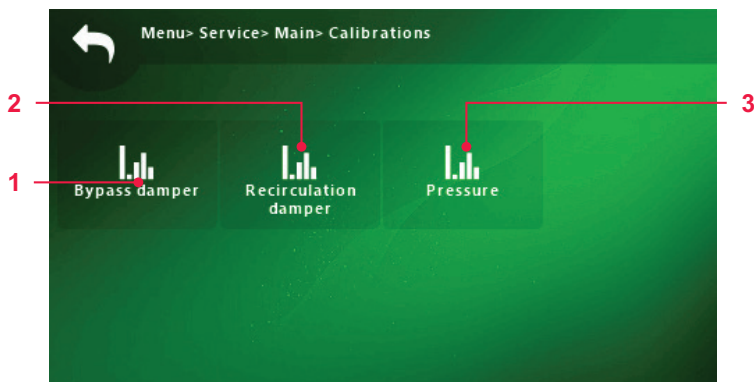
6.2.16.1.11. COOKING HOOD

MENU » SERVICE » MAIN » COOKING HOOD

| NO. | LABEL | DESCRIPTION |
|-----|-----------------------------|-------------------------------------|
| 1 | SHOW ALARMS ON COOKING HOOD | Options: • DISABLED • ENABLED |

6.2.16.1.12. CALIBRATIONS

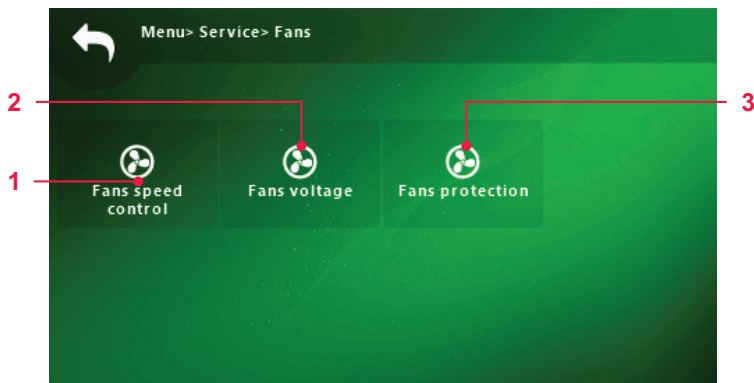
MENU » SERVICE » MAIN » CALIBRATIONS



| NO. | ICON | LABEL | DESCRIPTION |
|-----|------|----------------------|---------------------------------------|
| 1 | | BYPASS DAMPER | Options: • NO ACTION • ACTIVATE |
| 2 | | RECIRCULATION DAMPER | Options: • NO ACTION • ACTIVATE |
| 3 | | PRESSURE | Options: • NO ACTION • ACTIVATE |

6.2.16.2. FANS

MENU » SERVICE » FANS



| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|--------------------|-----|------|-----------------|
| 1 | | FANS SPEED CONTROL | 3 | | FANS PROTECTION |
| 2 | | FANS VOLTAGE | | | |

6.2.16.2.1. FANS SPEED CONTROL

MENU » SERVICE » FANS » FANS SPEED CONTROL

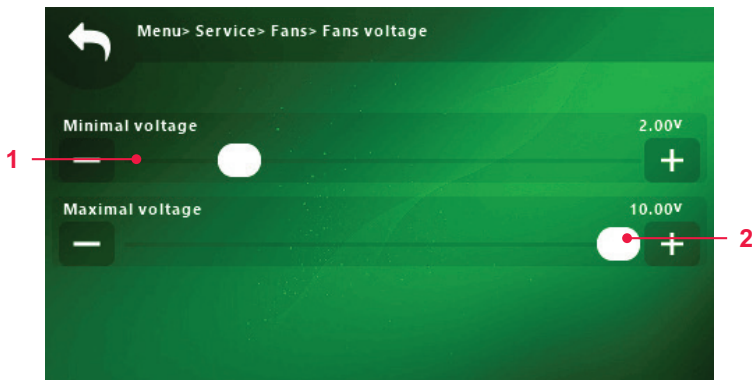




| NO. | LABEL | DESCRIPTION |
|-----|--|---|
| 1 | FIXED AIR FLOWS | Options: • DISABLED • ENABLED |
| 2 | FANS CONTROL TYPE | Options: • PERCENTS • PRESSURE ◦ MAXIMAL AIR FLOW PRESSURE — Range: [0 .. 30000 Pa] • AIR FLOW ◦ SUPPLY K FACTOR — Range: [0 .. 1000] ◦ EXTRACT K FACTOR — Range: [0 .. 1000] ◦ MAXIMAL AIR FLOW — Range: [0 .. 30000 m³/h] ◦ NOMINAL SUPPLY AIR FLOW — Range: [0 .. 30000 m³/h] ◦ NOMINAL EXTRACT AIR FLOW — Range: [0 .. 30000 m³/h] |
| 3 | EXTRACT AIR FLOW CONTROL BY SUPPLY AIR FLOW | Options: • DISABLED • ENABLED |
| 4 | EXTRACT AIR FAN CONTROL BY SUPPLY AIR FAN | Options: • DISABLED • ENABLED |
| 5 | EXTRACT FAN SPEED FROM SUPPLY FAN SPEED DIFFERENCE | Range: [-100 .. 100 %] |

6.2.16.2.2. FANS VOLTAGE

MENU » SERVICE » FANS » FANS VOLTAGE



| NO. | LABEL | DESCRIPTION |
|-----|-----------------|----------------------|
| 1 | MINIMAL VOLTAGE | Range: [2 .. 10 V] |
| 2 | MAXIMAL VOLTAGE | Range: [0 .. 10 V] |

6.2.16.2.3. FANS PROTECTION

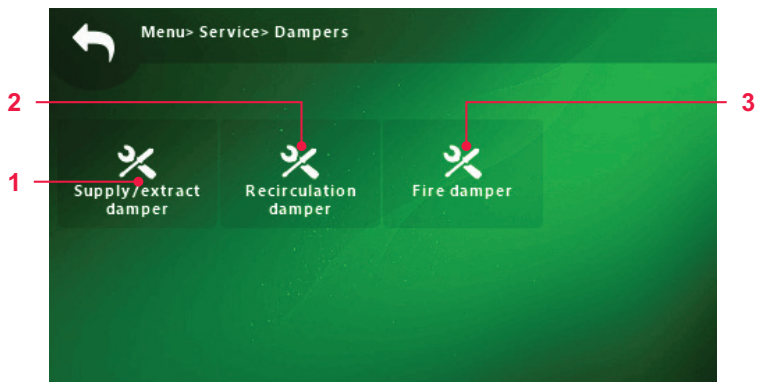
MENU » SERVICE » FANS » FANS PROTECTION



| NO. | LABEL | DESCRIPTION |
|-----|--|-------------------------------------|
| 1 | FANS PROTECTION BY RPM | Options: • DISABLED • ENABLED |
| 2 | TACHO PULSES PER REVOLUTION | Range: [1 .. 10 rpm] |
| 3 | PRESSURE PROTECTION | Options: • DISABLED • ENABLED |
| 4 | PRESSURE PROTECTION TIME LIMIT | Range: [0 .. 1000 SECONDS] |
| 5 | FIREPLACE PROTECTION ACTIVATED | Options: • DISABLED • ENABLED |
| 6 | ALLOW SLOWING DOWN FANS BY TEMPERATURE | Options: • DISABLED • ENABLED |

6.2.16.3. DAMPERS

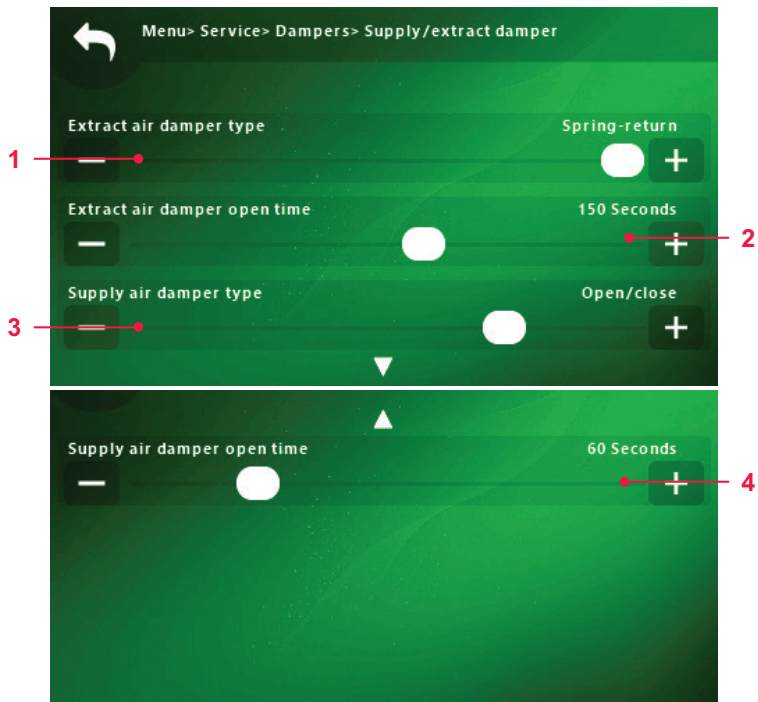
MENU » SERVICE » DAMPERS



| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|-----------------------|-----|------|-------------|
| 1 | | SUPPLY/EXTRACT DAMPER | 3 | | FIRE DAMPER |
| 2 | | RECIRCULATION DAMPER | | | |

6.2.16.3.1. SUPPLY/EXTRACT DAMPER

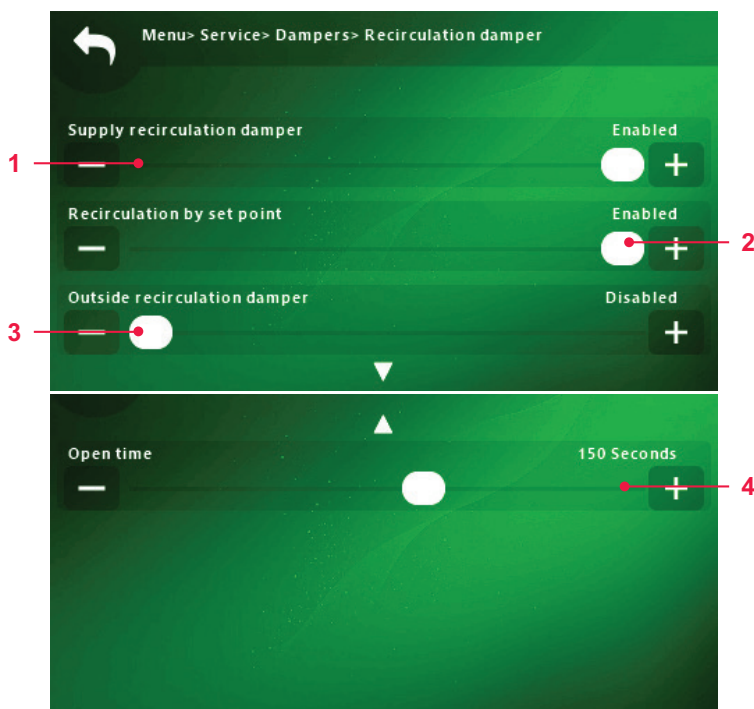
MENU » SERVICE » DAMPERS » SUPPLY/EXTRACT DAMPER



| NO. | LABEL | DESCRIPTION |
|-----|------------------------------|---|
| 1 | EXTRACT AIR DAMPER TYPE | Options: • NONE • ON/OFF • 3P • OPEN/CLOSE • SPRING-RETURN |
| 2 | EXTRACT AIR DAMPER OPEN TIME | Range: [1 .. 225 SECONDS] |
| 3 | SUPPLY AIR DAMPER TYPE | Options: • NONE • ON/OFF • 3P • OPEN/CLOSE • SPRING-RETURN |
| 4 | SUPPLY AIR DAMPER OPEN TIME | Range: [1 .. 225 SECONDS] |

6.2.16.3.2. RECIRCULATION DAMPER

MENU » SERVICE » DAMPERS » RECIRCULATION DAMPER

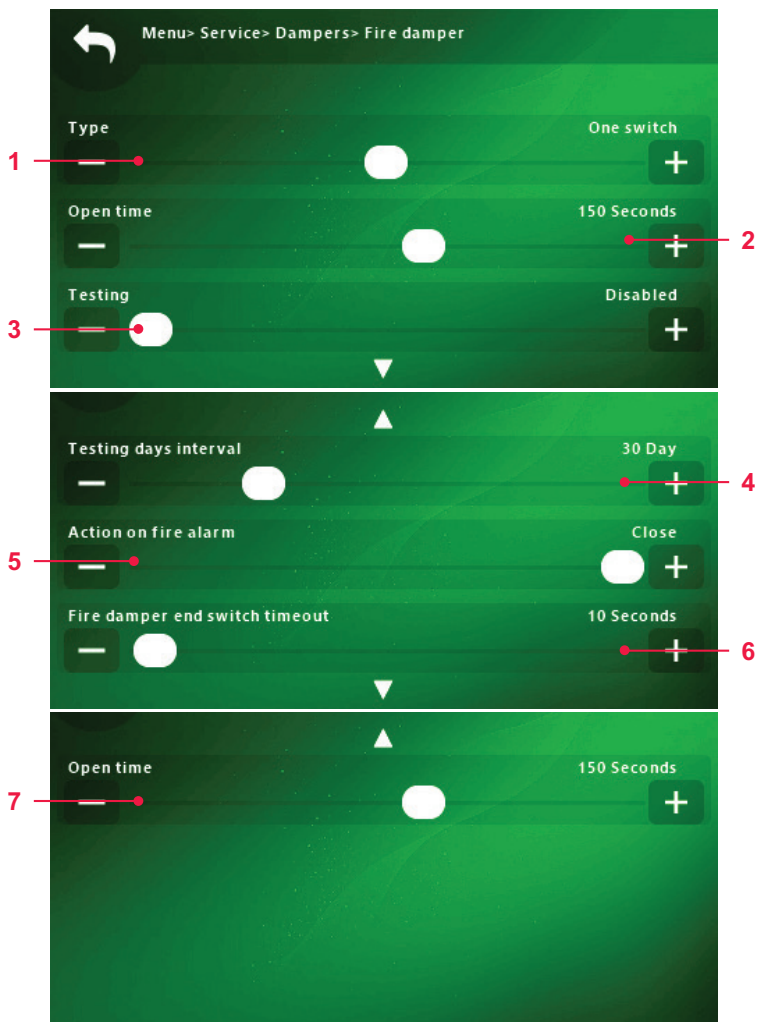


| NO. | LABEL | DESCRIPTION |
|-----|------------------------------|-------------------------------------|
| 1 | SUPPLY RECIRCULATION DAMPER | Options: • DISABLED • ENABLED |
| 2 | OUTSIDE RECIRCULATION DAMPER | Options: • DISABLED • ENABLED |

| NO. | LABEL | DESCRIPTION |
|-----|----------------------------|-------------------------------------|
| 3 | RECIRCULATION BY SET POINT | Options: • DISABLED • ENABLED |
| 4 | OPEN TIME | Range: [1 .. 225 SECONDS] |

6.2.16.3.3. FIRE DAMPER

MENU » SERVICE » DAMPERS » FIRE DAMPER

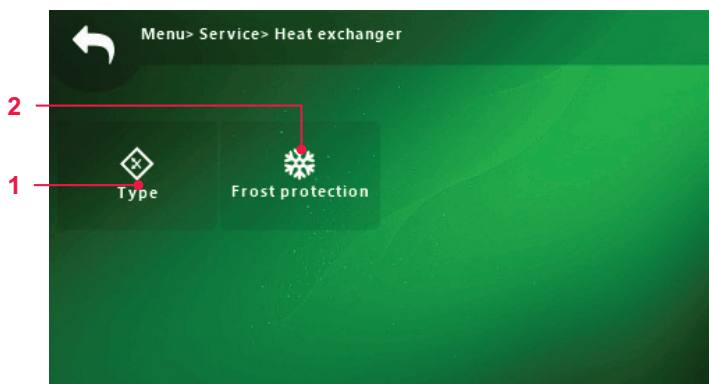


| NO. | LABEL | DESCRIPTION |
|-----|-----------|--|
| 1 | TYPE | Options: • NONE • ONE SWITCH • TWO SWITCH |
| 2 | OPEN TIME | Range: [0 .. 225 SECONDS] |

| NO. | LABEL | DESCRIPTION |
|-----|--------------------------------|-------------------------------------|
| 3 | TESTING | Options: • DISABLED • ENABLED |
| 4 | TESTING DAYS INTERVAL | Range: [1 .. 120 DAY] |
| 5 | ACTION ON FIRE ALARM | Options: • OPEN • CLOSE |
| 6 | FIRE DAMPER END SWITCH TIMEOUT | Range: [0 .. 600 SECONDS] |
| 7 | DO FIRE DAMPER TEST | Options: • DISABLED • ENABLED |

6.2.16.4. HEAT EXCHANGER

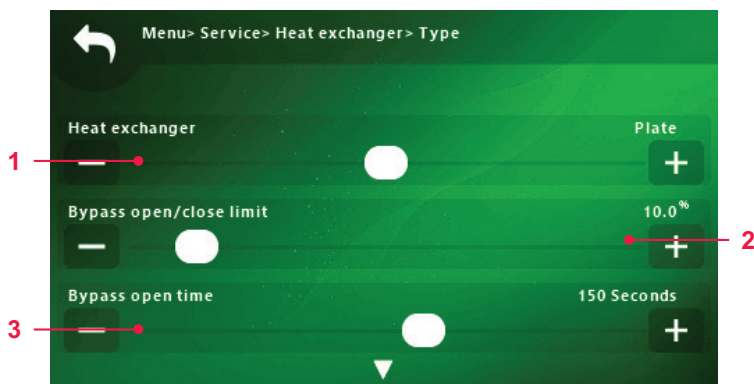
MENU » SERVICE » HEAT EXCHANGER

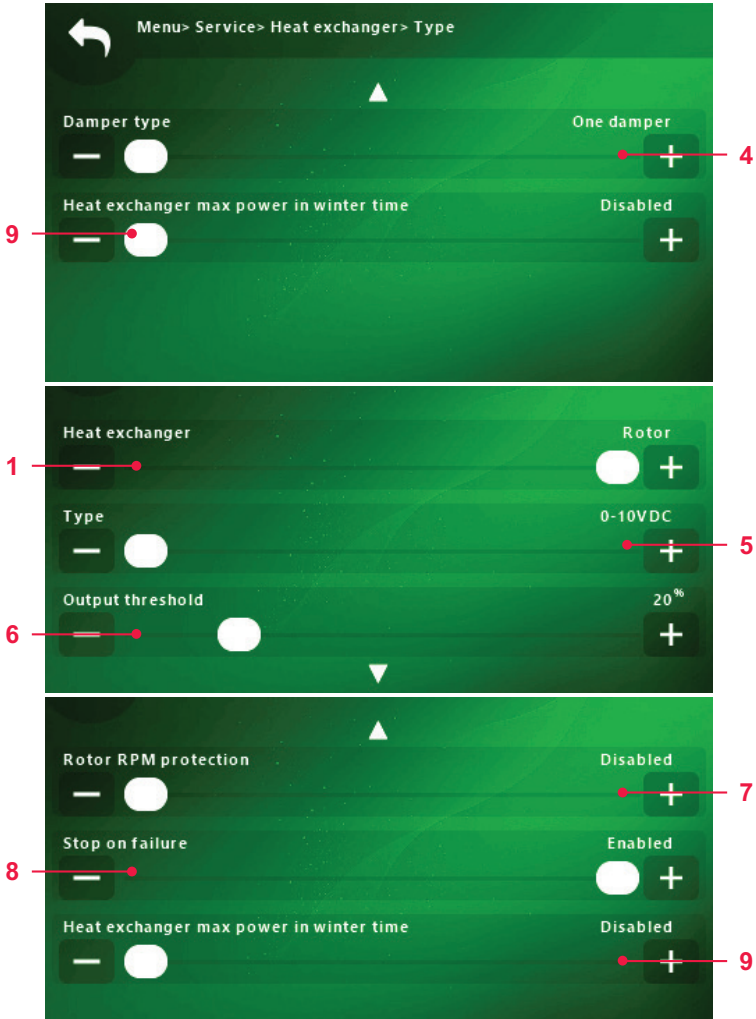


| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|-------|-----|------|------------------|
| 1 | | TYPE | 2 | | FROST PROTECTION |

6.2.16.4.1. TYPE

MENU » SERVICE » HEAT EXCHANGER » TYPE



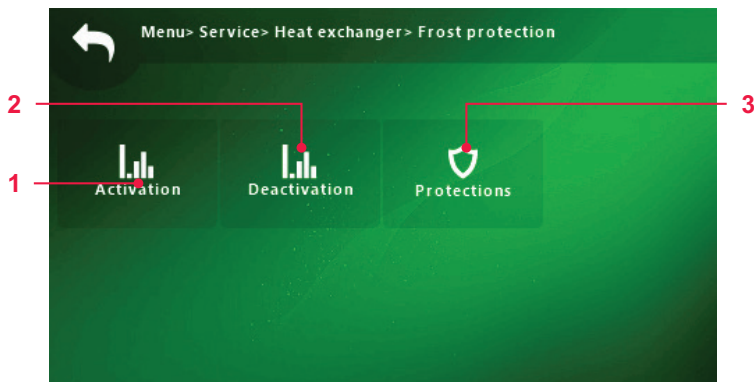


| NO. | LABEL | DESCRIPTION |
|-----|-------------------------|---|
| 1 | HEAT EXCHANGER | Options: • NONE • PLATE • ROTOR |
| 2 | BYPASS OPEN/CLOSE LIMIT | Range: [0 .. 100 %] |
| 3 | BYPASS OPEN TIME | Range: [0 .. 225 SECONDS] |
| 4 | DAMPER TYPE | Options: • ONE DAMPER • TWO SEGMENTS • THREE SEGMENTS • REMOTE CONTROLLER |
| 5 | TYPE | Options: • 0-10VDC • ON/OFF |
| 6 | OUTPUT THRESHOLD | Range: [0 .. 100 %] |

| NO. | LABEL | DESCRIPTION |
|-----|---|-------------------------------------|
| 7 | ROTOR RPM PROTECTION | Options: • DISABLED • ENABLED |
| 8 | STOP ON FAILURE | Options: • DISABLED • ENABLED |
| 9 | HEAT EXCHANGER MAX POWER IN WINTER TIME | Options: • DISABLED • ENABLED |

6.2.16.4.2. FROST PROTECTION

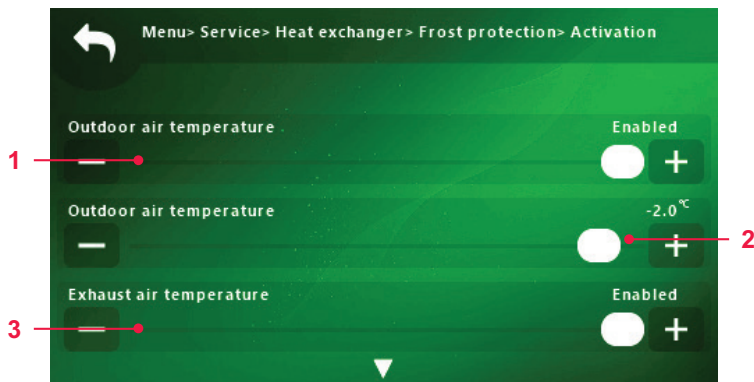
MENU » SERVICE » HEAT EXCHANGER » FROST PROTECTION

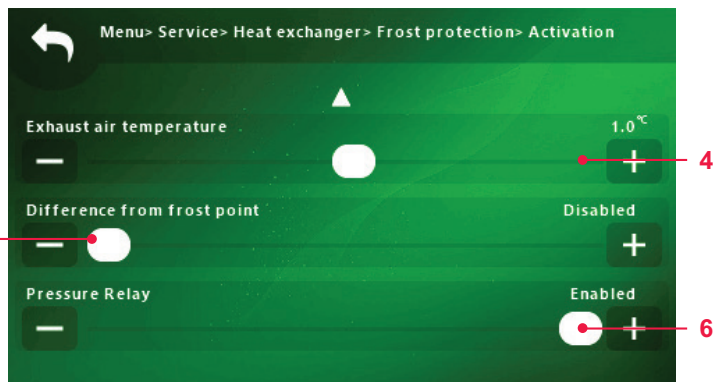


| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|--------------|-----|------|-------------|
| 1 | | ACTIVATION | 3 | | PROTECTIONS |
| 2 | | DEACTIVATION | | | |

6.2.16.4.2.1. ACTIVATION

MENU » SERVICE » HEAT EXCHANGER » FROST PROTECTION » ACTIVATION





| NO. | LABEL | DESCRIPTION |
|-----|-----------------------------|-------------------------------------|
| 1 | OUTDOOR AIR TEMPERATURE | Options: • DISABLED • ENABLED |
| 2 | OUTDOOR AIR TEMPERATURE | Range: [-40 .. -0.1 °C] |
| 3 | EXHAUST AIR TEMPERATURE | Options: • DISABLED • ENABLED |
| 4 | EXHAUST AIR TEMPERATURE | Range: [-20 .. 20 °C] |
| 5 | DIFFERENCE FROM FROST POINT | Options: • DISABLED • ENABLED |
| 6 | DIFFERENCE FROM FROST POINT | Range: [0.1 .. 10 °C] |
| 7 | PRESSURE RELAY | Options: • DISABLED • ENABLED |

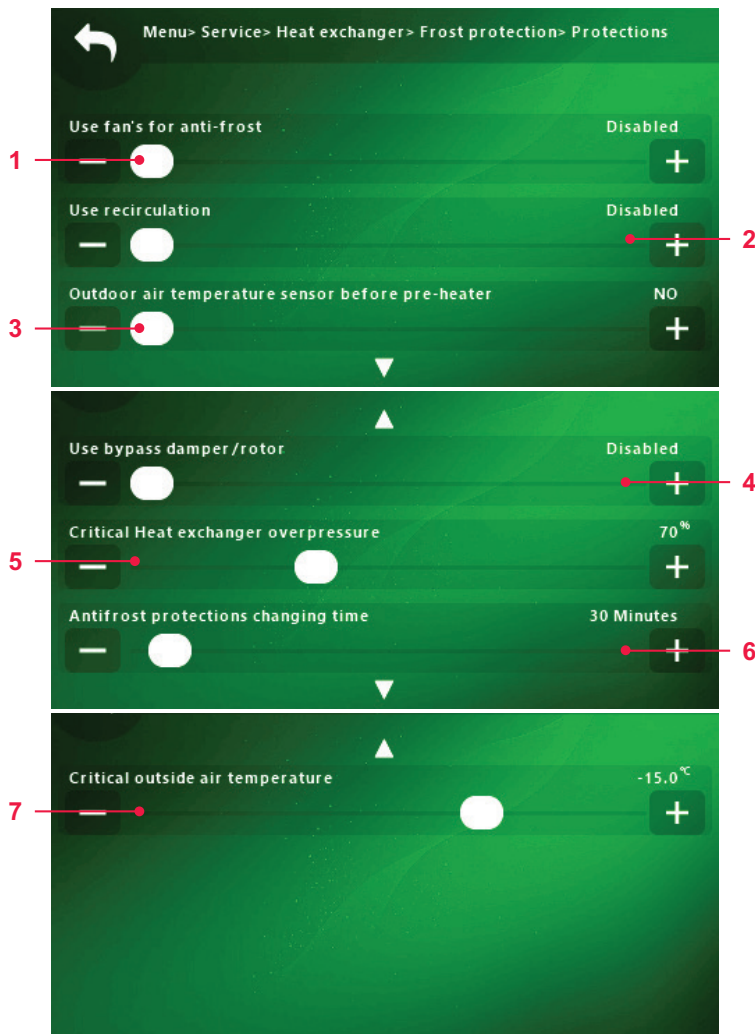
6.2.16.4.2.2. DEACTIVATION

MENU » SERVICE » HEAT EXCHANGER » FROST PROTECTION » DEACTIVATION

| NO. | LABEL | DESCRIPTION |
|-----|--------------------------------------|-----------------------|
| 1 | ANTIFROST DEACTIVATION T. DIFFERENCE | Range: [0 .. 10 °C] |

6.2.16.4.2.3. PROTECTIONS

MENU » SERVICE » HEAT EXCHANGER » FROST PROTECTION » PROTECTIONS

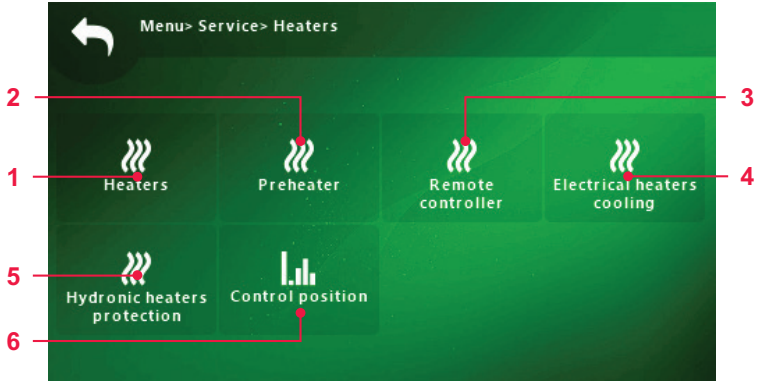


| NO. | LABEL | DESCRIPTION |
|-----|---|---|
| 1 | USE FAN'S FOR ANTI-FROST | Options: • DISABLED • DISBALANCE • SLOW DOWN BY EXH. T. • ENABLED |
| 2 | USE RECIRCULATION | Options: • DISABLED • ENABLED |
| 3 | OUTDOOR AIR TEMPERATURE SENSOR BEFORE PREHEATER | Options: • NO • YES |
| 4 | USE BYPASS DAMPER/ ROTOR | Options: • DISABLED • ENABLED |

| NO. | LABEL | DESCRIPTION |
|-----|--------------------------------------|-----------------------------|
| 5 | CRITICAL HEAT EXCHANGER OVERPRESSURE | Range: [0 .. 200 %] |
| 6 | ANTIFROST PROTECTIONS CHANGING TIME | Range: [1 .. 600 MINUTES] |
| 7 | CRITICAL OUTSIDE AIR TEMPERATURE | Range: [-50 .. 0 °C] |

6.2.16.5. HEATERS

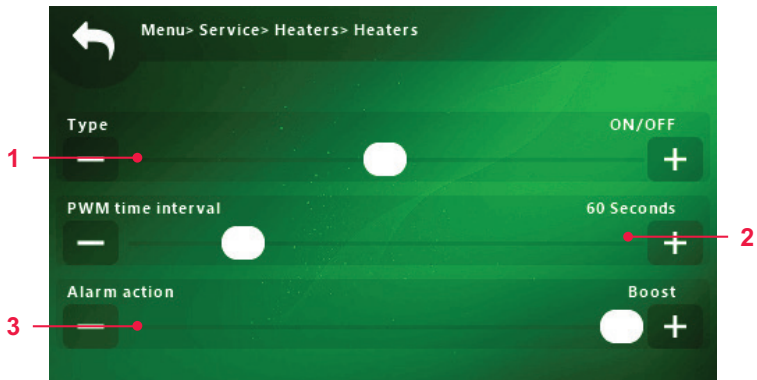
MENU » SERVICE » HEATERS



| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|-------------------|-----|------|-----------------------------|
| 1 | | HEATERS | 4 | | ELECTRICAL HEATERS COOLING |
| 2 | | PREHEATER | 5 | | HYDRONIC HEATERS PROTECTION |
| 3 | | REMOTE CONTROLLER | 6 | | CONTROL POSITION |

6.2.16.5.1. HEATERS

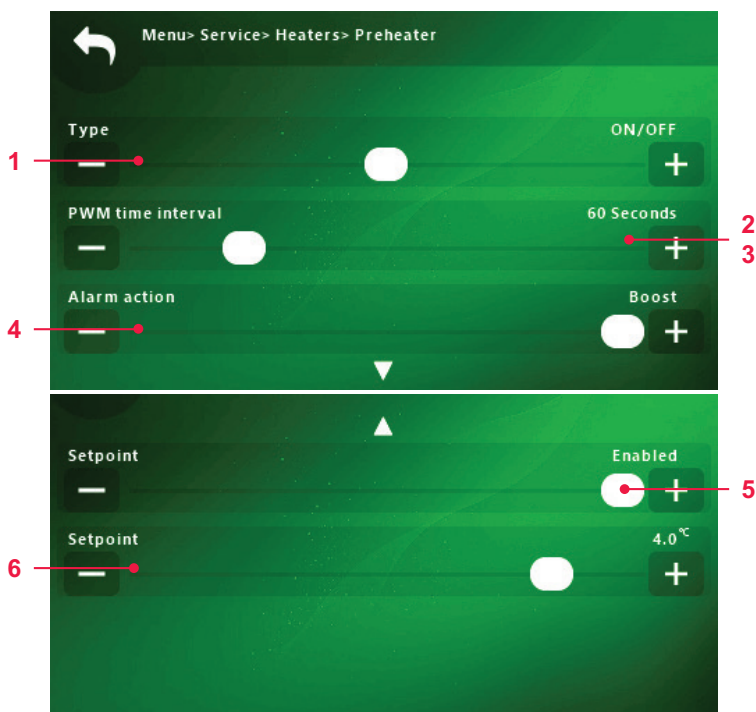
MENU » SERVICE » HEATERS » HEATERS



| NO. | LABEL | DESCRIPTION |
|-----|-------------------|--|
| 1 | TYPE | Options: • NONE • 0-10VDC • ON/OFF • HYDRONIC • GAS |
| 2 | PWM TIME INTERVAL | Range: [0 .. 300 SECONDS] |
| 3 | ALARM ACTION | Options: • SYSTEM STOPS • BOOST |

6.2.16.5.2. PREHEATER

MENU » SERVICE » HEATERS » PREHEATER



| NO. | LABEL | DESCRIPTION |
|-----|-------------------|--|
| 1 | TYPE | Options: • NONE • 0-10VDC • ON/OFF • HYDRONIC • GAS |
| 2 | PWM TIME INTERVAL | Range: [0 .. 300 SECONDS] |
| 3 | FROST TEMPERATURE | Range: [-30 .. 10 °C] |
| 4 | ALARM ACTION | Options: • SYSTEM STOPS • BOOST |

| NO. | LABEL | DESCRIPTION |
|-----|----------|-------------------------------------|
| 5 | SETPOINT | Options: • DISABLED • ENABLED |
| 6 | SETPOINT | Range: [-30 .. 10 °C] |

6.2.16.5.3. REMOTE CONTROLLER

MENU » SERVICE » HEATERS » REMOTE CONTROLLER

| NO. | LABEL | DESCRIPTION |
|-----|---------------------------|-------------------------------------|
| 1 | HEATERS/COOLERS EXPANSION | Options: • DISABLED • ENABLED |

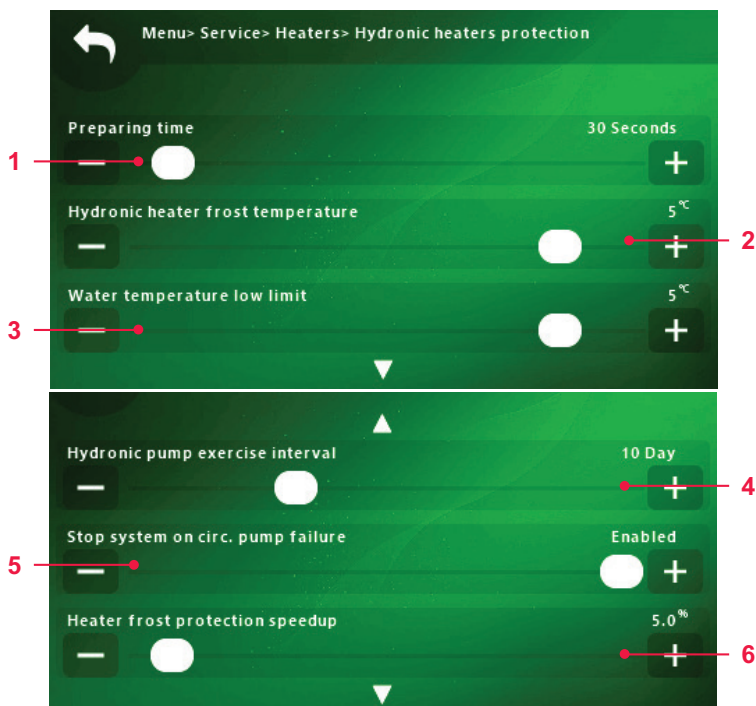
6.2.16.5.4. ELECTRICAL HEATERS COOLING

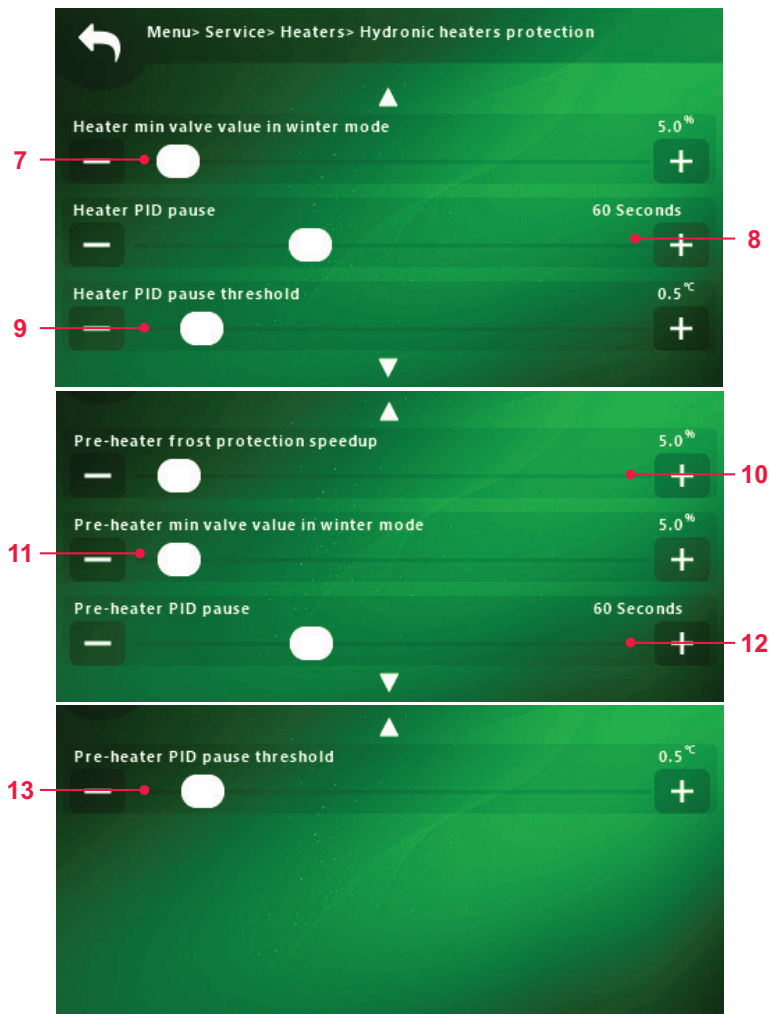
MENU » SERVICE » HEATERS » ELECTRICAL HEATERS COOLING

| NO. | LABEL | DESCRIPTION |
|-----|----------------------------|-----------------------------|
| 1 | ELECTRICAL HEATERS COOLING | Range: [0 .. 100 SECONDS] |

6.2.16.5.5. HYDRONIC HEATERS PROTECTION

MENU » SERVICE » HEATERS » HYDRONIC HEATERS PROTECTION





| NO. | LABEL | DESCRIPTION |
|-----|---------------------------------------|-------------------------------------|
| 1 | PREPARING TIME | Range: [0 .. 600 SECONDS] |
| 2 | HYDRONIC HEATER FROST TEMPERATURE | Range: [-30 .. 10 °C] |
| 3 | WATER TEMPERATURE LOW LIMIT | Range: [-30 .. 10 °C] |
| 4 | HYDRONIC PUMP EXERCISE INTERVAL | Range: [1 .. 30 DAY] |
| 5 | STOP SYSTEM ON CIRC. PUMP FAILURE | Options: • DISABLED • ENABLED |
| 6 | HEATER FROST PROTECTION SPEEDUP | Range: [0 .. 100 %] |
| 7 | HEATER MIN VALVE VALUE IN WINTER MODE | Range: [0 .. 100 %] |
| 8 | HEATER PID PAUSE | Range: [0 .. 180 SECONDS] |

| NO. | LABEL | DESCRIPTION |
|-----|--|-----------------------------|
| 9 | HEATER PID PAUSE THRESHOLD | Range: [0 .. 5 °C] |
| 10 | PREHEATER FROST PROTECTION SPEEDUP | Range: [0 .. 100 %] |
| 11 | PREHEATER MIN VALVE VALUE IN WINTER MODE | Range: [0 .. 100 %] |
| 12 | PREHEATER PID PAUSE | Range: [0 .. 180 SECONDS] |
| 13 | PREHEATER PID PAUSE THRESHOLD | Range: [0 .. 5 °C] |

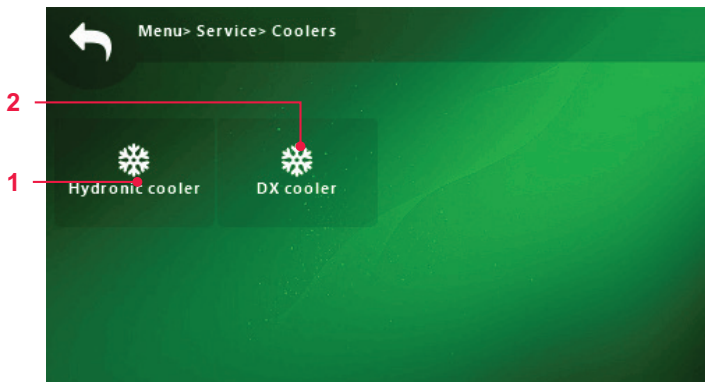
6.2.16.5.6. CONTROL POSITION


MENU » SERVICE » HEATERS » CONTROL POSITION

| NO. | LABEL | DESCRIPTION |
|-----|------------------|---|
| 1 | CONTROL POSITION | Options: • HEATER ON BASIC • PREHEATER ON BASIC |

6.2.16.6. COOLERS

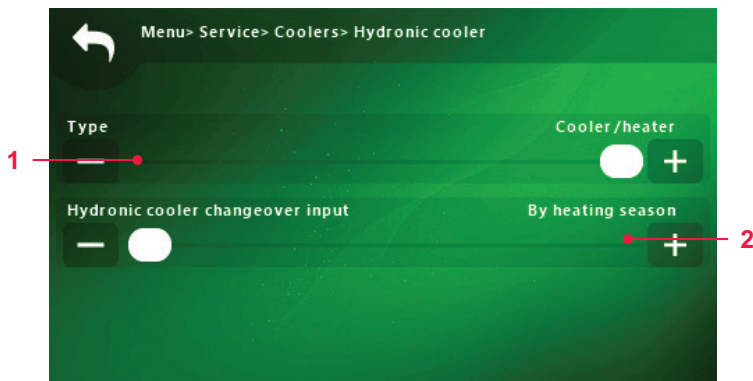
MENU » SERVICE » COOLERS



| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|---|-----------------|-----|---|-----------|
| 1 |  | HYDRONIC COOLER | 2 |  | DX COOLER |

6.2.16.6.1. HYDRONIC COOLER

MENU » SERVICE » COOLERS » HYDRONIC COOLER



| NO. | LABEL | DESCRIPTION |
|-----|----------------------------------|--|
| 1 | TYPE | Options: • NONE • COOLER • COOLER/HEATER |
| 2 | HYDRONIC COOLER CHANGEOVER INPUT | Options: • BY HEATING SEASON • BY LIQUID TEMPERATURE • BY DIGITAL INPUT |

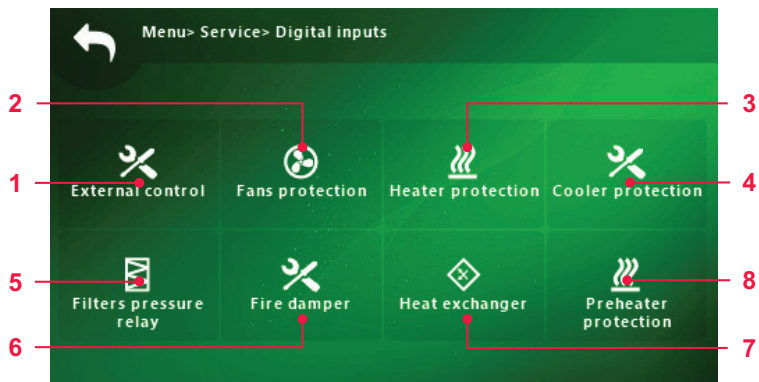
6.2.16.6.2. DX COOLER

MENU » SERVICE » COOLERS » DX COOLER

| NO. | LABEL | DESCRIPTION |
|-----|--|-------------------------------------|
| 1 | PREPARING TIME | Range: [0 .. 600 SECONDS] |
| 2 | HYDRONIC HEATER FROST TEMPERATURE | Range: [-30 .. 10 °C] |
| 3 | WATER TEMPERATURE LOW LIMIT | Range: [-30 .. 10 °C] |
| 4 | HYDRONIC PUMP EXERCISE INTERVAL | Range: [1 .. 30 DAY] |
| 5 | STOP SYSTEM ON CIRC. PUMP FAILURE | Options: • DISABLED • ENABLED |
| 6 | HEATER FROST PROTECTION SPEEDUP | Range: [0 .. 100 %] |
| 7 | HEATER MIN VALVE VALUE IN WINTER MODE | Range: [0 .. 100 %] |
| 8 | HEATER PID PAUSE | Range: [0 .. 180 SECONDS] |
| 9 | HEATER PID PAUSE THRESHOLD | Range: [0 .. 5 °C] |
| 10 | PREHEATER FROST PROTECTION SPEEDUP | Range: [0 .. 100 %] |
| 11 | PREHEATER MIN VALVE VALUE IN WINTER MODE | Range: [0 .. 100 %] |
| 12 | PREHEATER PID PAUSE | Range: [0 .. 180 SECONDS] |
| 13 | PREHEATER PID PAUSE THRESHOLD | Range: [0 .. 5 °C] |

6.2.16.7. DIGITAL INPUTS

MENU » SERVICE » DIGITAL INPUTS

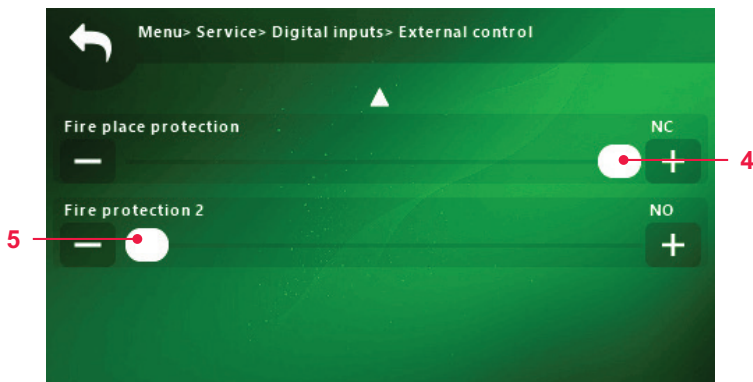


| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|-------------------|-----|------|------------------------|
| 1 | | EXTERNAL CONTROL | 5 | | FILTERS PRESSURE RELAY |
| 2 | | FANS PROTECTION | 6 | | FIRE DAMPER |
| 3 | | HEATER PROTECTION | 7 | | HEAT EXCHANGER |
| 4 | | COOLER PROTECTION | 8 | | PREHEATER PROTECTION |

6.2.16.7.1. EXTERNAL CONTROL

MENU » SERVICE » DIGITAL INPUTS » EXTERNAL CONTROL





| NO. | LABEL | DESCRIPTION |
|-----|-----------------------|--------------------------|
| 1 | FIRE PROTECTION INPUT | Options: • NO • NC |
| 2 | SYSTEM MODE SWITCH | Options: • NO • NC |
| 3 | FANS SPEED SWITCH | Options: • NO • NC |
| 4 | FIRE PLACE PROTECTION | Options: • NO • NC |
| 5 | FIRE PROTECTION 2 | Options: • NO • NC |

6.2.16.7.2. FANS PROTECTION

MENU » SERVICE » DIGITAL INPUTS » FANS PROTECTION

| NO. | LABEL | DESCRIPTION |
|-----|------------------------|--------------------------|
| 1 | SUPPLY FAN PROTECTION | Options: • NO • NC |
| 2 | SUPPLY FAN WARNING | Options: • NO • NC |
| 3 | EXTRACT FAN PROTECTION | Options: • NO • NC |
| 4 | EXTRACT FAN WARNING | Options: • NO • NC |

6.2.16.7.3. HEATER PROTECTION

MENU » SERVICE » DIGITAL INPUTS » HEATER PROTECTION

| NO. | LABEL | DESCRIPTION |
|-----|--|--------------------------|
| 1 | HEATER MANUAL PROTECTION | Options: • NO • NC |
| 2 | HEATER AUTOMATIC PROTECTION | Options: • NO • NC |
| 3 | HEATER CIRCULATION PUMP PROTECTION INPUT | Options: • NO • NC |

6.2.16.7.4. COOLER PROTECTION

MENU » SERVICE » DIGITAL INPUTS » COOLER PROTECTION

| NO. | LABEL | DESCRIPTION |
|-----|----------------------------------|--------------------------|
| 1 | DX COOLER PROTECTION | Options: • NO • NC |
| 2 | DX COOLER DEFROST INPUT | Options: • NO • NC |
| 3 | HYDRONIC COOLER CHANGEOVER INPUT | Options: • NO • NC |

6.2.16.7.5. FILTERS PRESSURE RELAY

MENU » SERVICE » DIGITAL INPUTS » FILTERS PRESSURE RELAY

| NO. | LABEL | DESCRIPTION |
|-----|--------------------|--------------------------|
| 1 | SUPPLY AIR FILTER | Options: • NO • NC |
| 2 | EXTRACT AIR FILTER | Options: • NO • NC |

6.2.16.7.6. FIRE DAMPER

MENU » SERVICE » DIGITAL INPUTS » FIRE DAMPER

| NO. | LABEL | DESCRIPTION |
|-----|--------|--------------------------|
| 1 | OPENED | Options: • NO • NC |
| 2 | CLOSED | Options: • NO • NC |

6.2.16.7.7. HEAT EXCHANGER

MENU » SERVICE » DIGITAL INPUTS » HEAT EXCHANGER

| NO. | LABEL | DESCRIPTION |
|-----|-----------------------------|--------------------------|
| 1 | PRESSURE RELAY | Options: • NO • NC |
| 2 | BYPASS DAMPER CLOSED | Options: • NO • NC |
| 3 | TOO HIGH CONDENSATION LEVEL | Options: • NO • NC |

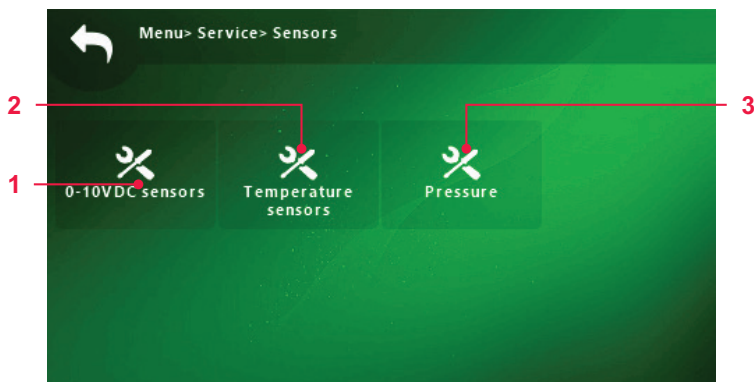
6.2.16.7.8. PREHEATER PROTECTION

MENU » SERVICE » DIGITAL INPUTS » PREHEATER PROTECTION

| NO. | LABEL | DESCRIPTION |
|-----|---|--------------------------|
| 1 | PREHEATER MANUAL PROTECTION | Options: • NO • NC |
| 2 | PREHEATER AUTOMATIC PROTECTION | Options: • NO • NC |
| 3 | PREHEATER CIRCULATION PUMP PROTECTION INPUT | Options: • NO • NC |

6.2.16.8. SENSORS

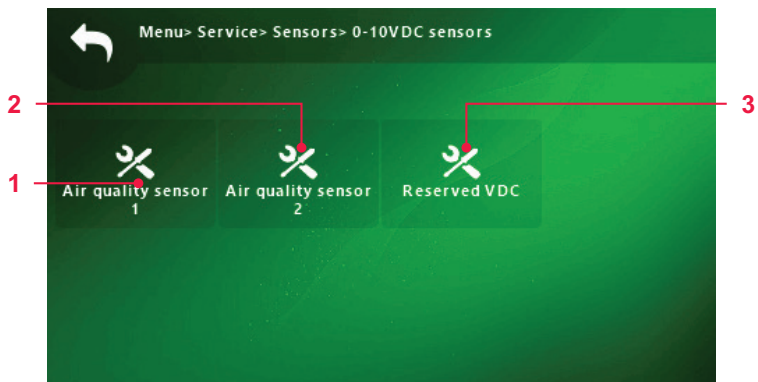
MENU » SERVICE » SENSORS



| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|---------------------|-----|------|----------|
| 1 | | 0-10VDC SENSORS | 3 | | PRESSURE |
| 2 | | TEMPERATURE SENSORS | | | |

6.2.16.8.1. 0-10VDC SENSORS

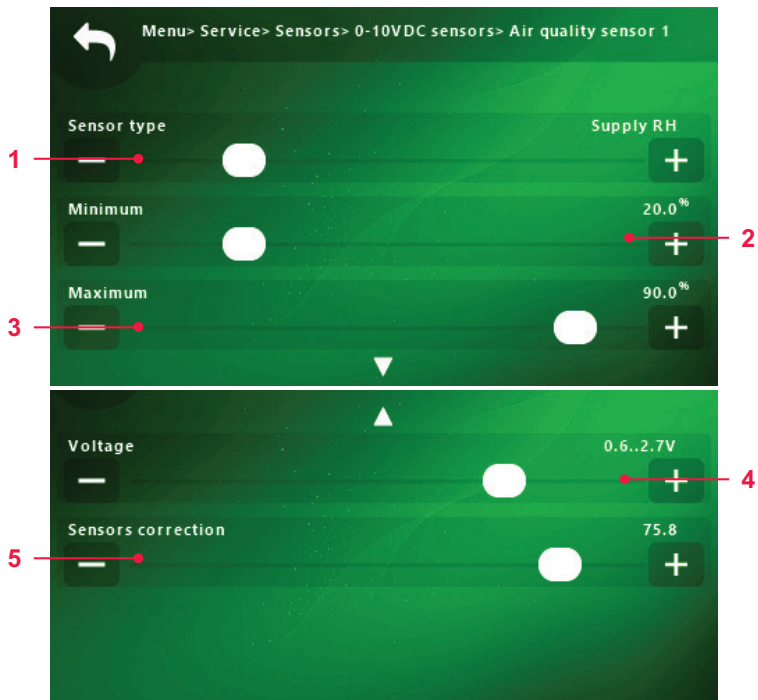
MENU » SERVICE » SENSORS » 0-10VDC SENSORS



| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|----------------------|-----|------|--------------|
| 1 | | AIR QUALITY SENSOR 1 | 3 | | RESERVED VDC |
| 2 | | AIR QUALITY SENSOR 2 | | | |

6.2.16.8.1.1. AIR QUALITY SENSOR 1

MENU » SERVICE » SENSORS » 0-10VDC SENSORS » AIR QUALITY SENSOR 1



| NO. | LABEL | DESCRIPTION |
|-----|--------------------|---|
| 1 | SENSOR TYPE | Options: <ul style="list-style-type: none"> • NONE • SUPPLY RH • EXTRACT RH • EXTRACT CO₂ • SUPPLY PRESSURE • SUPPLY PRESSURE 2 |
| 2 | MINIMUM | Options: <ul style="list-style-type: none"> • Range: [0 .. 100 %] • Range: [0 .. 3000 ppm] • Range: [0 .. 3000 Pa] |
| 3 | MAXIMUM | Options: <ul style="list-style-type: none"> • Range: [0 .. 100 %] • Range: [0 .. 3000 ppm] • Range: [0 .. 3000 Pa] |
| 4 | VOLTAGE | Range: [0-10 VDC; 1..10V; 0..5 V; 0.6..2.7V; 0..3.3V] |
| 5 | SENSORS CORRECTION | Range: [-100 .. 100] |

6.2.16.8.1.2. AIR QUALITY SENSOR 2

MENU » SERVICE » SENSORS » 0-10VDC SENSORS » AIR QUALITY SENSOR 2

| NO. | LABEL | DESCRIPTION |
|-----|--------------------|---|
| 1 | SENSOR TYPE | Options: <ul style="list-style-type: none"> • NONE • SUPPLY RH • EXTRACT RH • EXTRACT CO₂ • SUPPLY PRESSURE • SUPPLY PRESSURE 2 |
| 2 | MINIMUM | Options: <ul style="list-style-type: none"> • Range: [0 .. 100 %] • Range: [0 .. 3000 ppm] • Range: [0 .. 3000 Pa] |
| 3 | MAXIMUM | Options: <ul style="list-style-type: none"> • Range: [0 .. 100 %] • Range: [0 .. 3000 ppm] • Range: [0 .. 3000 Pa] |
| 4 | VOLTAGE | Range: [0-10 VDC; 1..10V; 0..5 V; 0.6..2.7V; 0..3.3V] |
| 5 | SENSORS CORRECTION | Range: [-100 .. 100] |

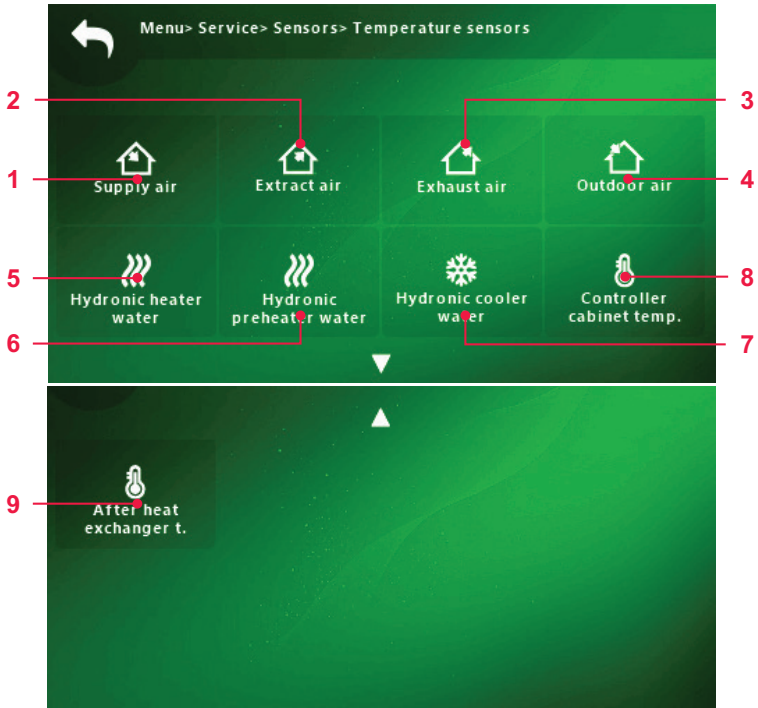
6.2.16.8.1.3. RESERVED VDC

MENU » SERVICE » SENSORS » 0-10VDC SENSORS » RESERVED VDC

| NO. | LABEL | DESCRIPTION |
|-----|--------------------|---|
| 1 | SENSOR TYPE | Options: <ul style="list-style-type: none"> • NONE • HEAT EXCHANGER PRESSURE • DX COIL PRESSURE |
| 2 | MINIMUM | Range: [0 .. 3000 Pa] |
| 3 | MAXIMUM | Range: [0 .. 3000 Pa] |
| 4 | VOLTAGE | Range: [0-10 VDC; 1..10V; 0..5 V; 0.6..2.7V; 0..3.3V] |
| 5 | SENSORS CORRECTION | Range: [-100 .. 100] |

6.2.16.8.2. TEMPERATURE SENSORS

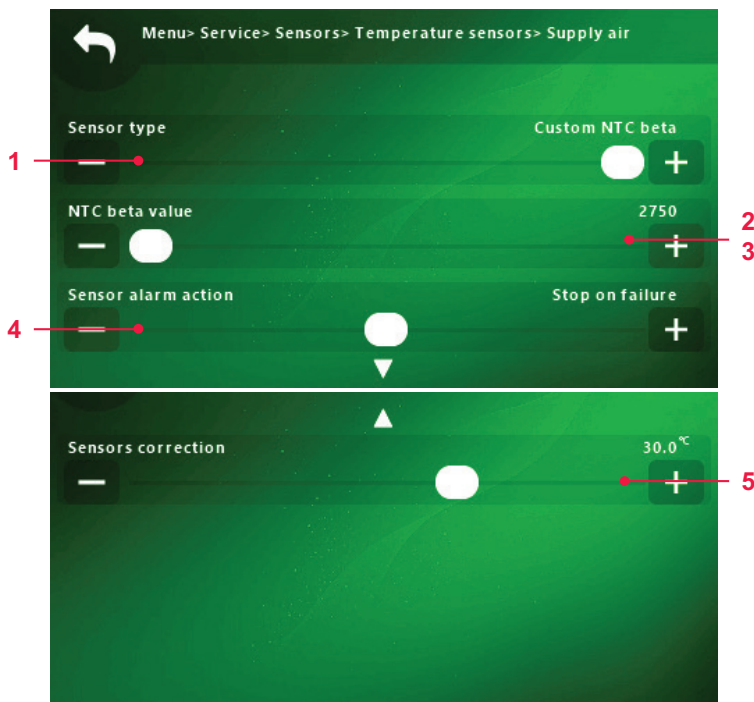
MENU » SERVICE » SENSORS » TEMPERATURE SENSORS



| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|-----------------------|-----|------|----------------------------------|
| 1 | | SUPPLY AIR | 6 | | HYDRONIC PREHEATER WATER |
| 2 | | EXTRACT AIR | 7 | | HYDRONIC COOLER WATER |
| 3 | | EXHAUST AIR | 8 | | CONTROLLER CABINET TEMPERATURE |
| 4 | | OUTDOOR AIR | 9 | | AFTER HEAT EXCHANGER TEMPERATURE |
| 5 | | HYDRONIC HEATER WATER | | | |

6.2.16.8.2.1. SUPPLY AIR

MENU » SERVICE » SENSORS » TEMPERATURE SENSORS » SUPPLY AIR



| NO. | LABEL | DESCRIPTION |
|-----|---------------------|---|
| 1 | SENSOR TYPE | Options: • NONE • REMOTE • NTC 10K 3997 • CUSTOM NTC BETA |
| 2 | VALUE | Range: [-50 .. 100 °C] |
| 3 | NTC BETA VALUE | Range: [2750 .. 5000] |
| 4 | SENSOR ALARM ACTION | Options: • NONE • STOP ON FAILURE • EMERGENCY RUN |
| 5 | SENSORS CORRECTION | Range: [-100 .. 100] |

6.2.16.8.2.2. EXTRACT AIR

MENU » SERVICE » SENSORS » TEMPERATURE SENSORS » EXTRACT AIR

| NO. | LABEL | DESCRIPTION |
|-----|----------------|---|
| 1 | SENSOR TYPE | Options: • NONE • REMOTE • NTC 10K 3997 • CUSTOM NTC BETA |
| 2 | VALUE | Range: [-50 .. 100 °C] |
| 3 | NTC BETA VALUE | Range: [2750 .. 5000] |

| NO. | LABEL | DESCRIPTION |
|-----|---------------------|--|
| 4 | SENSOR ALARM ACTION | Options: • NONE • STOP ON FAILURE • EMERGENCY RUN |
| 5 | SENSORS CORRECTION | Range: [-100 .. 100] |

6.2.16.8.2.3. EXHAUST AIR

MENU » SERVICE » SENSORS » TEMPERATURE SENSORS » EXHAUST AIR

| NO. | LABEL | DESCRIPTION |
|-----|---------------------|---|
| 1 | SENSOR TYPE | Options: • NONE • REMOTE • NTC 10K 3997 • CUSTOM NTC BETA |
| 2 | VALUE | Range: [-50 .. 100 °C] |
| 3 | NTC BETA VALUE | Range: [2750 .. 5000] |
| 4 | SENSOR ALARM ACTION | Options: • NONE • STOP ON FAILURE • EMERGENCY RUN |
| 5 | SENSORS CORRECTION | Range: [-100 .. 100] |

6.2.16.8.2.4. OUTDOOR AIR

MENU » SERVICE » SENSORS » TEMPERATURE SENSORS » OUTDOOR AIR

| NO. | LABEL | DESCRIPTION |
|-----|---------------------|---|
| 1 | SENSOR TYPE | Options: • NONE • REMOTE • NTC 10K 3997 • CUSTOM NTC BETA |
| 2 | VALUE | Range: [-50 .. 100 °C] |
| 3 | NTC BETA VALUE | Range: [2750 .. 5000] |
| 4 | SENSOR ALARM ACTION | Options: • NONE • STOP ON FAILURE • EMERGENCY RUN |
| 5 | SENSORS CORRECTION | Range: [-100 .. 100] |

6.2.16.8.2.5. HYDRONIC HEATER WATER

MENU » SERVICE » SENSORS » TEMPERATURE SENSORS » HYDRONIC HEATER WATER

| NO. | LABEL | DESCRIPTION |
|-----|----------------|---|
| 1 | SENSOR TYPE | Options: • NONE • REMOTE • NTC 10K 3997 • CUSTOM NTC BETA |
| 2 | VALUE | Range: [-50 .. 100 °C] |
| 3 | NTC BETA VALUE | Range: [2750 .. 5000] |

| NO. | LABEL | DESCRIPTION |
|-----|---------------------|--|
| 4 | SENSOR ALARM ACTION | Options: • NONE • STOP ON FAILURE • EMERGENCY RUN |
| 5 | SENSORS CORRECTION | Range: [-100 .. 100] |

6.2.16.8.2.6. HYDRONIC PREHEATER WATER

MENU » SERVICE » SENSORS » TEMPERATURE SENSORS » HYDRONIC PREHEATER WATER

| NO. | LABEL | DESCRIPTION |
|-----|---------------------|---|
| 1 | SENSOR TYPE | Options: • NONE • REMOTE • NTC 10K 3997 • CUSTOM NTC BETA |
| 2 | VALUE | Range: [-50 .. 100 °C] |
| 3 | NTC BETA VALUE | Range: [2750 .. 5000] |
| 4 | SENSOR ALARM ACTION | Options: • NONE • STOP ON FAILURE • EMERGENCY RUN |
| 5 | SENSORS CORRECTION | Range: [-100 .. 100] |

6.2.16.8.2.7. HYDRONIC COOLER WATER

MENU » SERVICE » SENSORS » TEMPERATURE SENSORS » HYDRONIC COOLER WATER

| NO. | LABEL | DESCRIPTION |
|-----|---------------------|---|
| 1 | SENSOR TYPE | Options: • NONE • REMOTE • NTC 10K 3997 • CUSTOM NTC BETA |
| 2 | VALUE | Range: [-50 .. 100 °C] |
| 3 | NTC BETA VALUE | Range: [2750 .. 5000] |
| 4 | SENSOR ALARM ACTION | Options: • NONE • STOP ON FAILURE • EMERGENCY RUN |
| 5 | SENSORS CORRECTION | Range: [-100 .. 100] |

6.2.16.8.2.8. CONTROLLER CABINET TEMPERATURE

MENU » SERVICE » SENSORS » TEMPERATURE SENSORS » CONTROLLER CABINET TEMPERATURE

| NO. | LABEL | DESCRIPTION |
|-----|----------------|---|
| 1 | SENSOR TYPE | Options: • NONE • REMOTE • NTC 10K 3997 • CUSTOM NTC BETA |
| 2 | VALUE | Range: [-50 .. 100 °C] |
| 3 | NTC BETA VALUE | Range: [2750 .. 5000] |

| NO. | LABEL | DESCRIPTION |
|-----|---------------------|--|
| 4 | SENSOR ALARM ACTION | Options: • NONE • STOP ON FAILURE • EMERGENCY RUN |
| 5 | SENSORS CORRECTION | Range: [-100 .. 100] |

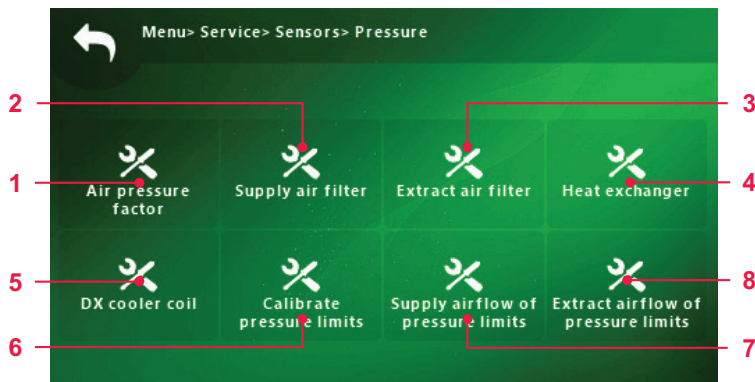
6.2.16.8.2.9. AFTER HEAT EXCHANGER TEMPERATURE

MENU » SERVICE » SENSORS » TEMPERATURE SENSORS » AFTER HEAT EXCHANGER TEMPERATURE

| NO. | LABEL | DESCRIPTION |
|-----|---------------------|---|
| 1 | SENSOR TYPE | Options: • NONE • REMOTE • NTC 10K 3997 • CUSTOM NTC BETA |
| 2 | VALUE | Range: [-50 .. 100 °C] |
| 3 | NTC BETA VALUE | Range: [2750 .. 5000] |
| 4 | SENSOR ALARM ACTION | Options: • NONE • STOP ON FAILURE • EMERGENCY RUN |
| 5 | SENSORS CORRECTION | Range: [-100 .. 100] |

6.2.16.8.3. PRESSURE

MENU » SERVICE » SENSORS » PRESSURE



| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|---------------------|-----|------|------------------------------------|
| 1 | | AIR PRESSURE FACTOR | 5 | | DX COOLER COIL |
| 2 | | SUPPLY AIR FILTER | 6 | | CALIBRATE PRESSURE LIMITS |
| 3 | | EXTRACT AIR FILTER | 7 | | SUPPLY AIRFLOW OF PRESSURE LIMITS |
| 4 | | HEAT EXCHANGER | 8 | | EXTRACT AIRFLOW OF PRESSURE LIMITS |

6.2.16.8.3.1. AIR PRESSURE FACTOR

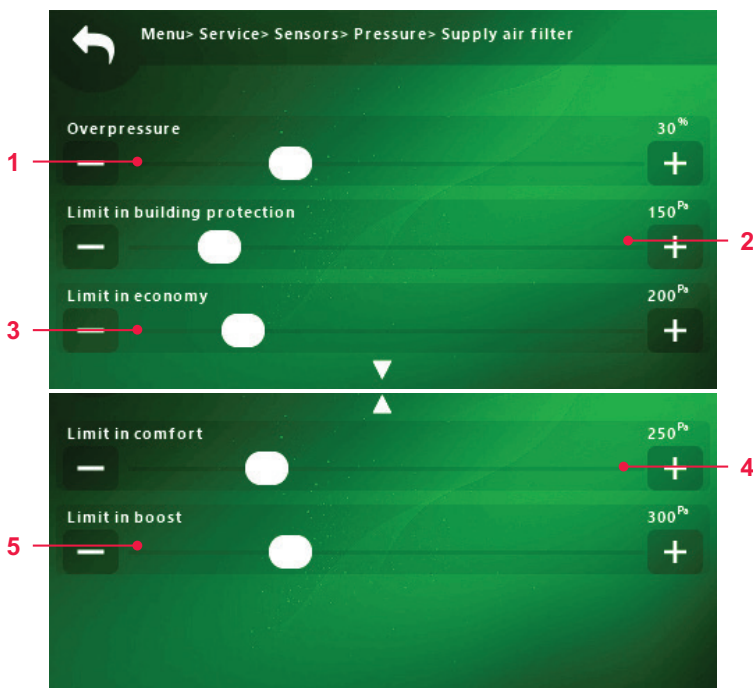
MENU » SERVICE » SENSORS » PRESSURE » AIR PRESSURE FACTOR



| NO. | LABEL | DESCRIPTION |
|-----|---------------------|-------------------|
| 1 | AIR PRESSURE FACTOR | Range: [0.1; 1] |

6.2.16.8.3.2. SUPPLY AIR FILTER

MENU » SERVICE » SENSORS » PRESSURE » SUPPLY AIR FILTER



| NO. | LABEL | DESCRIPTION |
|-----|--------------|-----------------------|
| 1 | OVERPRESSURE | Range: [0 .. 100 %] |

| NO. | LABEL | DESCRIPTION |
|-----|------------------------------|-------------------------|
| 2 | LIMIT IN BUILDING PROTECTION | Range: [0 .. 1000 Pa] |
| 3 | LIMIT IN ECONOMY | Range: [0 .. 1000 Pa] |
| 4 | LIMIT IN COMFORT | Range: [0 .. 1000 Pa] |
| 5 | LIMIT IN BOOST | Range: [0 .. 1000 Pa] |

6.2.16.8.3.3. EXTRACT AIR FILTER

MENU » SERVICE » SENSORS » PRESSURE » EXTRACT AIR FILTER

| NO. | LABEL | DESCRIPTION |
|-----|------------------------------|-------------------------|
| 1 | OVERPRESSURE | Range: [0 .. 100 %] |
| 2 | LIMIT IN BUILDING PROTECTION | Range: [0 .. 1000 Pa] |
| 3 | LIMIT IN ECONOMY | Range: [0 .. 1000 Pa] |
| 4 | LIMIT IN COMFORT | Range: [0 .. 1000 Pa] |
| 5 | LIMIT IN BOOST | Range: [0 .. 1000 Pa] |

6.2.16.8.3.4. HEAT EXCHANGER

MENU » SERVICE » SENSORS » PRESSURE » HEAT EXCHANGER

| NO. | LABEL | DESCRIPTION |
|-----|------------------------------|-------------------------|
| 1 | OVERPRESSURE | Range: [0 .. 100 %] |
| 2 | LIMIT IN BUILDING PROTECTION | Range: [0 .. 1000 Pa] |
| 3 | LIMIT IN ECONOMY | Range: [0 .. 1000 Pa] |
| 4 | LIMIT IN COMFORT | Range: [0 .. 1000 Pa] |
| 5 | LIMIT IN BOOST | Range: [0 .. 1000 Pa] |

6.2.16.8.3.5. DX COOLER COIL

MENU » SERVICE » SENSORS » PRESSURE » DX COOLER COIL

| NO. | LABEL | DESCRIPTION |
|-----|------------------------------|-------------------------|
| 1 | OVERPRESSURE | Range: [0 .. 100 %] |
| 2 | LIMIT IN BUILDING PROTECTION | Range: [0 .. 1000 Pa] |
| 3 | LIMIT IN ECONOMY | Range: [0 .. 1000 Pa] |
| 4 | LIMIT IN COMFORT | Range: [0 .. 1000 Pa] |
| 5 | LIMIT IN BOOST | Range: [0 .. 1000 Pa] |

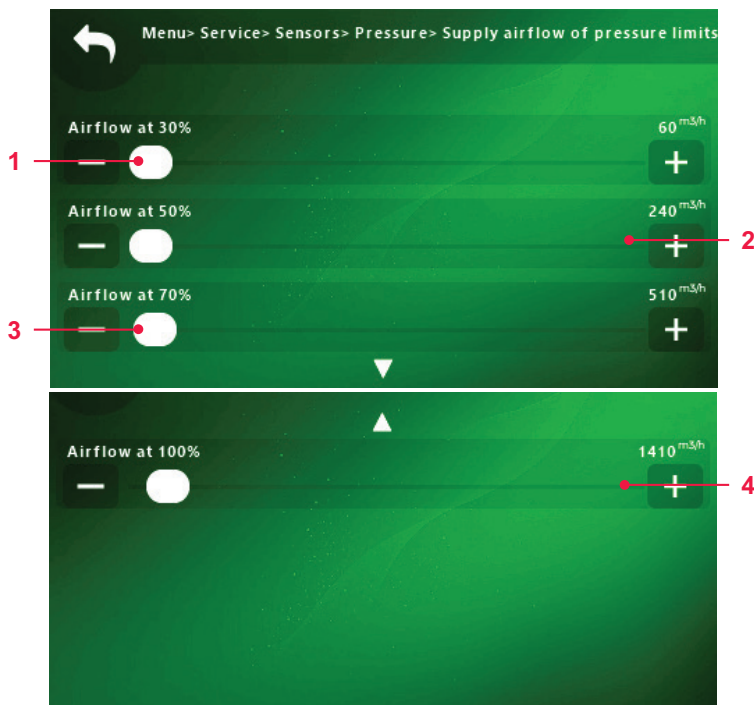
6.2.16.8.3.6. CALIBRATE PRESSURE LIMITS

MENU » SERVICE » SENSORS » PRESSURE » CALIBRATE PRESSURE LIMITS

| NO. | LABEL | DESCRIPTION |
|-----|---------------------------|---------------------------------------|
| 1 | CALIBRATE PRESSURE LIMITS | Options: • NO ACTION • ACTIVATE |

6.2.16.8.3.7. SUPPLY AIRFLOW OF PRESSURE LIMITS

MENU » SERVICE » SENSORS » PRESSURE » SUPPLY AIRFLOW OF PRESSURE LIMITS



| NO. | LABEL | DESCRIPTION |
|-----|-----------------|----------------------------|
| 1 | AIRFLOW AT 30% | Range: [0 .. 30000 m³/h] |
| 2 | AIRFLOW AT 50% | Range: [0 .. 30000 m³/h] |
| 3 | AIRFLOW AT 70% | Range: [0 .. 30000 m³/h] |
| 4 | AIRFLOW AT 100% | Range: [0 .. 30000 m³/h] |

6.2.16.8.3.8. EXTRACT AIRFLOW OF PRESSURE LIMITS

MENU » SERVICE » SENSORS » PRESSURE » EXTRACT AIRFLOW OF PRESSURE LIMITS

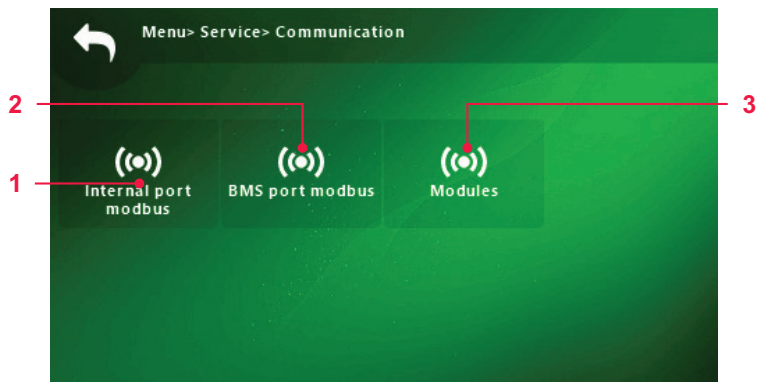
| NO. | LABEL | DESCRIPTION |
|-----|-----------------|----------------------------|
| 1 | AIRFLOW AT 30% | Range: [0 .. 30000 m³/h] |
| 2 | AIRFLOW AT 50% | Range: [0 .. 30000 m³/h] |
| 3 | AIRFLOW AT 70% | Range: [0 .. 30000 m³/h] |
| 4 | AIRFLOW AT 100% | Range: [0 .. 30000 m³/h] |

6.2.16.9. COMMUNICATION

MENU » SERVICE » COMMUNICATION



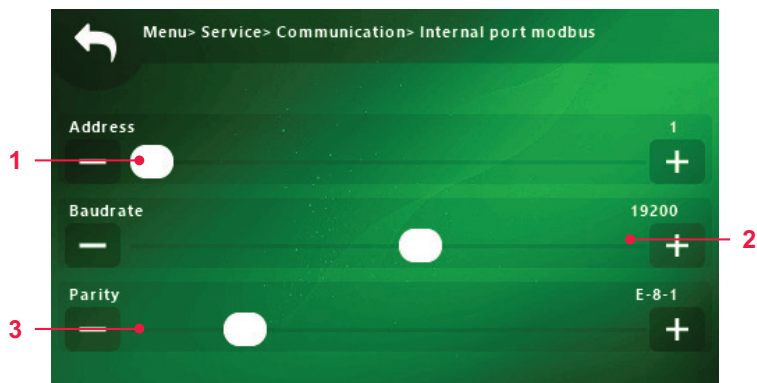
NOTE: In order for communication parameters changes to apply, control board must be restarted. Take a note of communication setting entered.



| NO. | ICON | LABEL | NO. | ICON | LABEL |
|-----|------|----------------------|-----|------|---------|
| 1 | | INTERNAL PORT MODBUS | 3 | | MODULES |
| 2 | | BMS PORT MODBUS | | | |

6.2.16.9.1. INTERNAL PORT MODBUS

MENU » SERVICE » COMMUNICATION » INTERNAL PORT MODBUS



| NO. | LABEL | DESCRIPTION |
|-----|----------|--|
| 1 | ADDRESS | Range: [1 .. 247] |
| 2 | BAUDRATE | Range: [2400; 4800; 9600; 19200; 38400; 57600; 115200] |
| 3 | PARITY | Range: [N-8-1; E-8-1; O-8-1; N-8-2; E-8-2; O-8-2] |

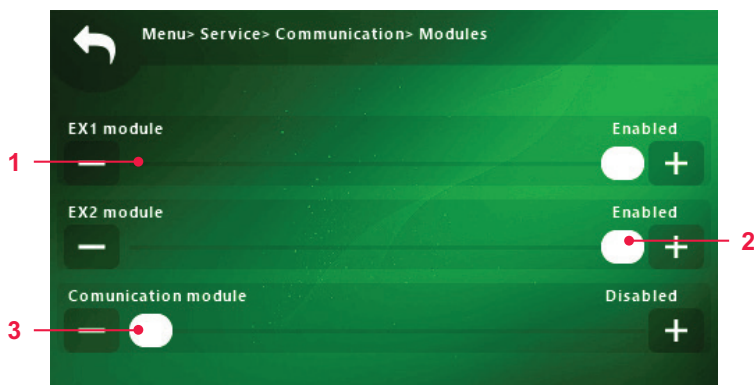
6.2.16.9.2. BMS PORT MODBUS

MENU » SERVICE » COMMUNICATION » BMS PORT MODBUS

| NO. | LABEL | DESCRIPTION |
|-----|----------|--|
| 1 | ADDRESS | Range: [1 .. 247] |
| 2 | BAUDRATE | Range: [2400; 4800; 9600; 19200; 38400; 57600; 115200] |
| 3 | PARITY | Range: [N-8-1; E-8-1; O-8-1; N-8-2; E-8-2; O-8-2] |

6.2.16.9.3. MODULES

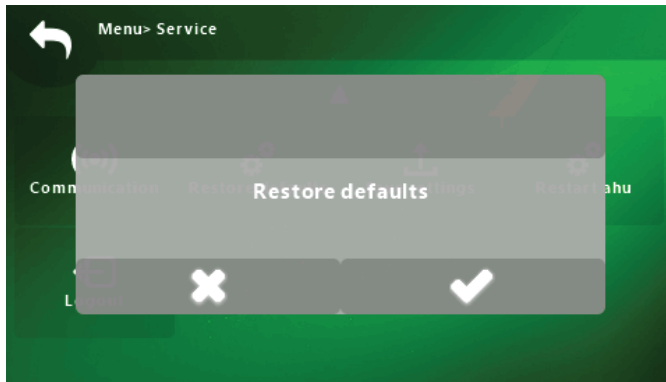
MENU » SERVICE » COMMUNICATION » MODULES



| NO. | LABEL | DESCRIPTION |
|-----|----------------------|-------------------------------------|
| 1 | EX1 MODULE | Options: • DISABLED • ENABLED |
| 2 | EX2 MODULE | Options: • DISABLED • ENABLED |
| 3 | COMMUNICATION MODULE | Options: • DISABLED • ENABLED |

6.2.16.10. RESTORE DEFAULTS

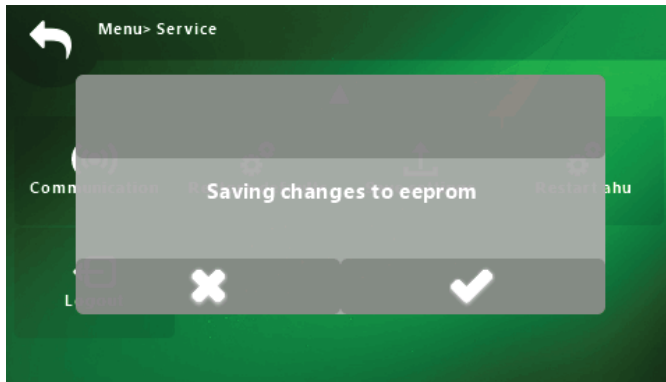
MENU » SERVICE » RESTORE DEFAULTS



| NO. | LABEL | DESCRIPTION |
|-----|------------------|--------------------------------------|
| 1 | RESTORE DEFAULTS | Options: • NO ACTION • RESTORE |

6.2.16.11. SAVE SETTINGS

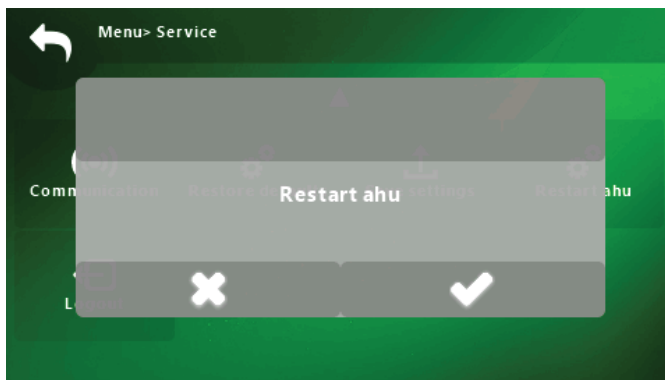
MENU » SERVICE » SAVE SETTINGS



| NO. | LABEL | DESCRIPTION |
|-----|------------------------|-----------------------------------|
| 1 | SAVE CHANGES TO EEPROM | Options: • NO ACTION • SAVE |

6.2.16.12. RESTART AHU

MENU » SERVICE » RESTART AHU



| NO. | LABEL | DESCRIPTION |
|-----|-------------|--------------------------------------|
| 1 | RESTART AHU | Options: • NO ACTION • RESTART |

6.2.16.13. LOGOUT

MENU » SERVICE » LOGOUT

6.2.17. ABOUT

MENU » ABOUT

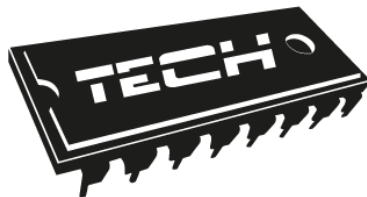


7. RECYCLING

Electrical and electronic waste.

- Follow local regulations regarding disposal of the equipment.
- Bring the equipment to a recycling area or container in order to minimize the effect on the environment and public health.
- For further information on recycling, please contact the seller or the supplier.

8. DECLARATION OF CONFORMITY



EU Declaration of conformity

Hereby, we declare under our sole responsibility that **SA-control (ST-343)** manufactured by TECH, headquartered in Wieprz Biała Droga 31, 34-122 Wieprz, is compliant with:

- Directive 2014/35/EU of the European Parliament and of the Council of February 26, 2014 on the harmonisation of the laws of Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits (EU Journal of Laws L 96, of 29.03.2014, p. 357),
- Directive 2014/30/EU of the European Parliament and of the Council of February 26, 2014 on the harmonisation of the laws of Member States relating to electromagnetic compatibility (EU Journal of Laws L 96 of 29.03.2014, p.79),
- Directive 2009/125/EC establishing a framework for the setting of ecodesign requirements for energy-related products,
- the regulation by the Ministry of Economy of May 8, 2013 concerning the essential requirements as regards the restriction of the use of certain hazardous substances in electrical and electronic equipment, implementing provisions of RoHS directive 2011/65/EU.

For compliance assessment, harmonized standards were used: **PN-EN 60730-2-9:2011**, **PN-EN 60730-1:2016-10**.



PAWEŁ JURA **JANUSZ MASTER**
WŁAŚCICIELE TECH SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, SP. K.

Wieprz, 20.05.2019

9. WARRANTY

1. All equipment manufactured in our factory is checked in operating conditions and tested before delivery. The test protocol is supplied together with the unit. The equipment is shipped in good working condition to the end client. The unit is warrantied for the period of two years from the date of the invoice.
2. If equipment is found to have been damaged during transportation, a claim should be made against the carrier, as we assume no responsibility for such damage.
3. This warranty does not apply:
 - 3.1. when transportation, storage, installation and maintenance instructions of the unit are violated;
 - 3.2. when the equipment is improperly maintained, mounted - inadequate maintenance;
 - 3.3. when the equipment without our knowledge and permission has been upgraded or unskilled repairs were made;
 - 3.4. when the unit was used not for its original purpose.
 - 3.5. Company SALDA UAB is not responsible for potential loss of property or personal injury in cases where the Air Handling unit is manufactured without the control system and the control system is installed by the client or the third parties. The manufacturer's warranty does not cover devices that will be damaged by installing the control system.
4. This warranty does not apply to these malfunction cases:
 - 4.1. mechanical damage;
 - 4.2. damage caused by entering outside objects, materials and liquids;
 - 4.3. damage caused by natural disasters, accidents (voltage change in the electricity network, lightning, etc.).
5. The company assumes no liability for the damage to its products neither directly nor indirectly, if the damage is caused by failure to comply with the installation and mounting regulations, deliberate or careless users or third-party behaviour.

These conditions are readily discernible when the equipment is returned to our factory for inspection.

If the direct client determines that equipment is found to be faulty, or a breakdown occurred, he should inform the manufacturer within five working days and deliver the equipment to the manufacturer. Delivery costs should be covered by the customer.



The manufacturer reserves the right to change this technical passport at any time without prior notice if some typographic errors or inaccurate information is found, as well as after improving the apps and/or the devices. Such changes will be included in the new issues of the technical passport. All illustrations are just for information and thus may differ from the original device. The newest manual version is available at <https://select.salda.lt>

9.1. LIMITED WARRANTY COUPON

Warranty term

24 months*

I received the complete package and technical manual of the product ready for usage. I have read the warranty terms and conditions and agree with them:

.....
Customer's signature

*Refer to the WARRANTY CONDITIONS

Dear User, we appreciate your choice and do hereby guarantee that all ventilation equipment manufactured by our Company is inspected and thoroughly tested. An operational and high-quality product is sold to the direct buyer and shipped from the territory of the factory. It is provided with a 24-month warranty from the issue date of the invoice. Your opinion is important to us, thus we always look forward to hearing your comments, feedback, or suggestions regarding technical and operational characteristics of the Products.

In order to avoid any misunderstandings, please read the instructions for installation and operation of the product as well as other technical documents of the product carefully. The number of the Limited Warranty Coupon and the serial number of the product specified on the silver identification sticker attached to the housing must match.

The Limited Warranty Coupon shall be valid provided that the seller's stamps and records are clear. It is not allowed to change, delete, or rewrite the data specified on it in any manner – such a coupon shall be invalid.

With this Limited Warranty Coupon the manufacturer confirms his obligations to implement the imperative requirements established by effective laws on protection of consumer rights in the event of identification of any defects of the products.

The manufacturer reserves the right to refuse provision of free warranty servicing in cases when the warranty conditions listed below are disregarded.

PRODUCT MAINTENANCE TABLE

Product name*

SERIAL number*

* - Look at the product label.



NOTE. The customer shall be required to complete the Product Maintenance Table.

LINKS TO OTHER DOCUMENTS

MCB MANUAL



<https://select.salda.lt/file/mcb-en>

MINIMCB MANUAL



<https://select.salda.lt/file/minimcb-en>

MB-GATEWAY QUICK LAUNCH
GUIDE



<https://select.salda.lt/file/mbgatewayen>

