

CAIROX



S-TOUCH user manual

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Technical data

Name	Description
Power supply	24 VDC
Way of control	touch screen
Temperature adjustment range	+5 ÷ +45°C
Operating temperature range	-10 ÷ +60°C
Temperature sensor	built-in
Protection degree	IP20
Installation	on the wall
Casing	ABS plastic, RAL 9003
Max. number of connected units	31
Dimensions (HxWxD)	130 x 115 x 35 mm

General information

S-TOUCH intelligent controller with touch screen enables control all air curtains SOLANO.

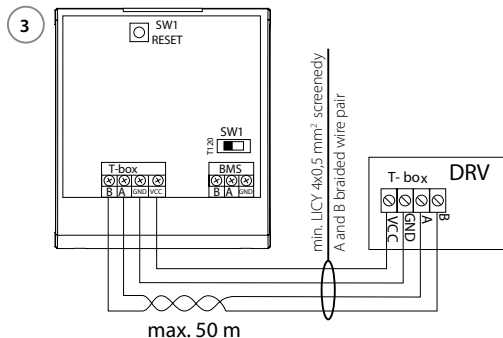
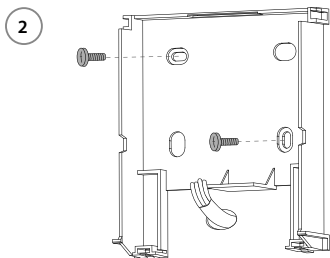
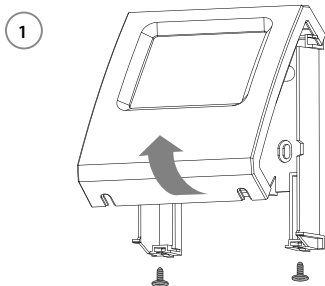
Each unit must have its own individual address in S-ECM control module.



Installation









S-TOUCH controller has a built-in sensor for measuring air temperature in the room. To ensure proper measurements, the controller should be installed at a height of approx. 1.5 m above the ground in a place with good air circulation. Do not place it near heat sources, lighting, air inlets, windows and door openings, etc.

If temperature sensor was chosen in a S-TOUCH menu as „installed in unit“ (p.32), S-TOUCH controller can be mounted out of area i.e. technical room.

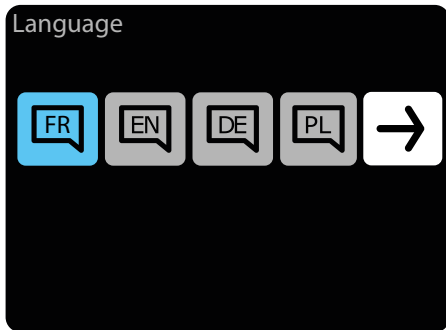


In the case, when S-TOUCH in BMS network is the last device, SW1 switch should be set in T120 position.


Navigation

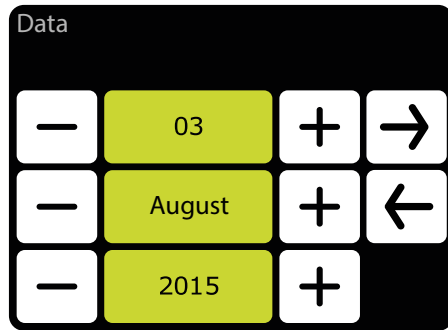
-  return to previous screen with save of changes
-  return to previous screen without save of changes
-   menu navigation
-   change of parameter value
-   change of unit group

First run

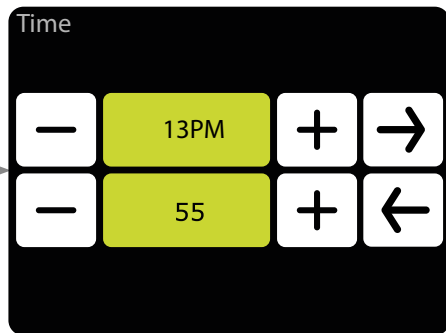


Selection of language

 active language




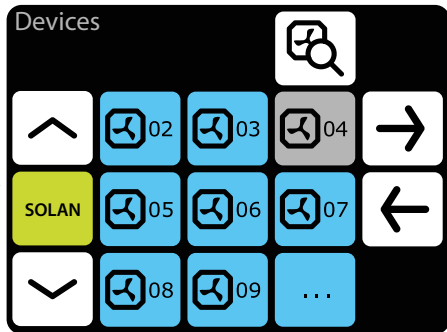
Setting of date



Setting of time

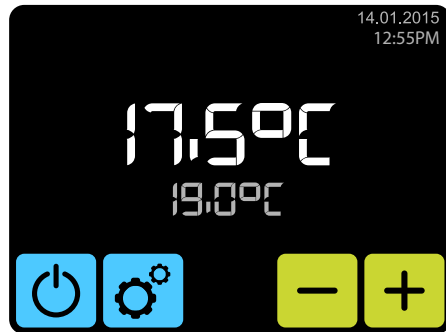


 Searching of connected units



Verify if all units have been found. If not, check:

- correct connection of communication signal A-A, B-B,
- power supply of the unit,
- correct setting of addresses, each unit must have different address,
- if in the last unit dip-switch SW2 is set in T120 position.



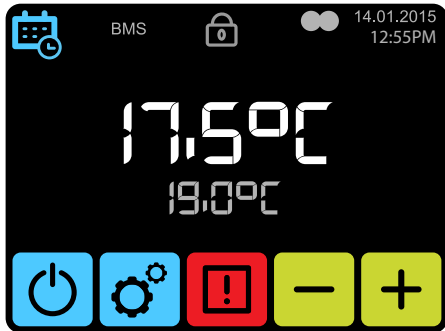
- + Setting of desired temperature.


Set individual address in S-ECM module for each unit.


DRV address

1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
...						
31	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	1	2	4	8	16	Y1



Main screen



 **long press** turn on/off of the controller

 **long press** main menu
short press units menu


 alarms

  setting of desired temperature


19.0°C desired temperature


17.5°C measured temperature

14.01.2015 date, time
14:50

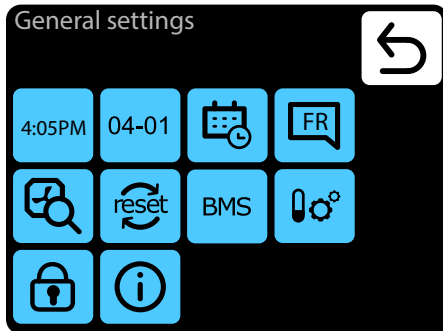
 settings lock active

BMS BMS mode active


 calendar active


 calendar active – settings forced

long press Main menu




Enter to the menu after entering the password: 2014


 time setting


 date setting

 calendar

 language selection


 integrated units

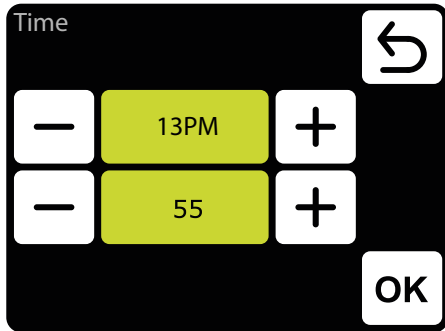
 selection of leading sensor

 controller lock

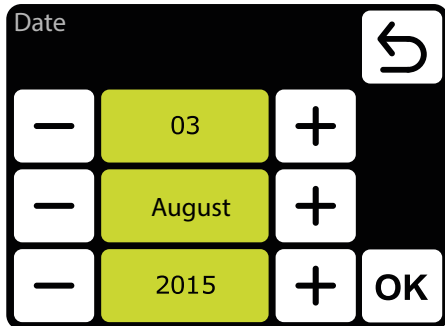
 hardware version

 BMS settings

 restore factory settings



Setting of time



Setting of date

- For each day you can set up to 20 on/off events,
- Start time of new event is also the end time of previous event,
- For each event you can set any temperature for units, in the range of 5 – 45°C,
- Events for each day can be set individually or can be copied from day, which was already set.

Activation of calendar is signaled on main screen via following icons:



calendar active – SYSTEM ON



calendar active – SYSTEM OFF



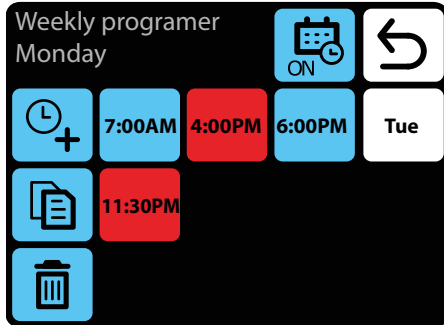
calendar active – settings forced.


There were ad hoc set other parameters than the settings programmed in the calendar:


- desired temperature,
- system were OFF and was turned on (to turn on the system press and hold for 2 s the calendar icon on main screen),
- system were ON and was turned off (to turn off the system press and hold for 2 s the calendar icon on main screen).


Ad hoc settings stays as long as time of current event in calendar. With start of next event, units will operate according to programmed settings.


Calendar





 activation / deactivation of calendar


 adding the event

 copying events on the following days

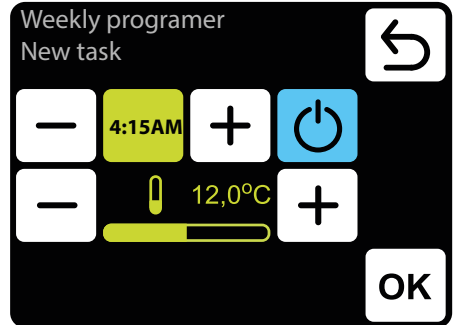
 removing the events

 moving to the next day

 event – system ON

 event – system OFF

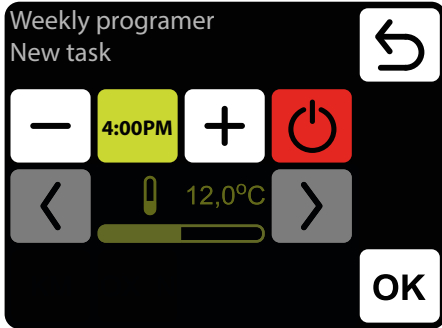
Calendar – Adding the ON event



In given example SYSTEM will be turned on at 6:15 and the units will maintain temp. 12°C.

SYSTEM WILL OPERATE USING CURRENT SETTINGS UNTIL NEW EVENT WILL BE SET.

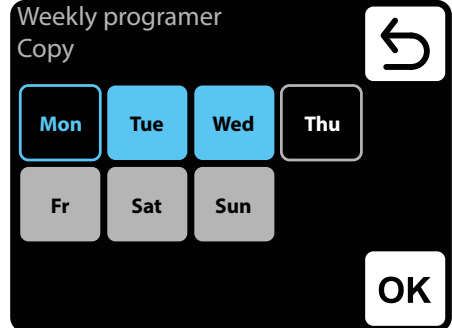
Calendar – Adding the OFF event



In given example units will be turned off at 16:00.

SYSTEM WILL BE TURNED OFF UNTIL THE NEXT EVENT,
ACCORDING TO CALENDAR SETTINGS.

Calendar – Copying events



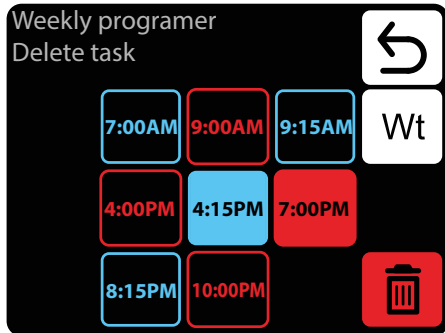
Mon day from which events will be copied

Tue day selected for copying events from PN day

Thu day with already programmed operation
schedule – you can also copy here the events
from PN day

Fr day without programmed operation schedule

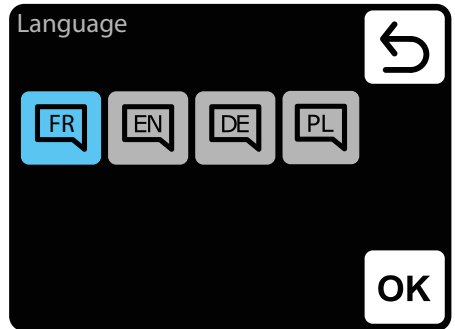
Calendar – Removing events




  events selected to remove

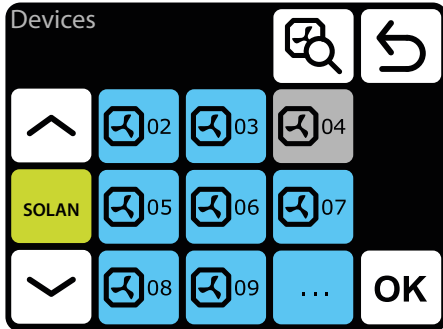
 confirmation of events removal


Language





 active language

Integrated units



 searching for units integrated with system

 active unit

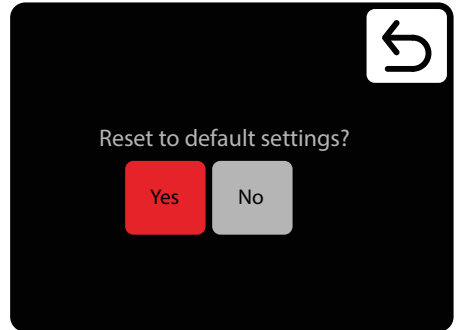
 deactivated unit
– not operating

System information

SOLANO01
CURTAIN MAIN
DRV-V 2.1
2.0.0-2d-G8B342117
25-05-2016

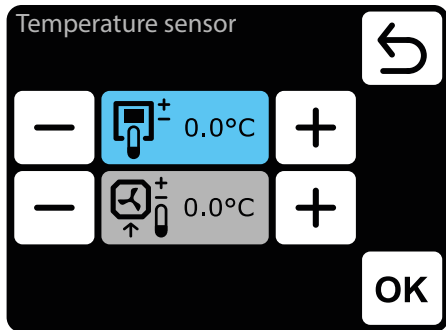
 long press displays the S-ECM software

Reset





Restore default settings

Leading sensor



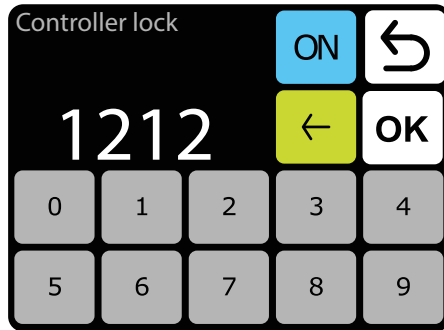
 active temperature sensor

 leading sensor is the sensor built in S-TOUCH controller

 leading sensor is the local sensor. When it is selected, operation of each unit is regulated locally

The correction of sensor measurements is also possible.

Controller lock



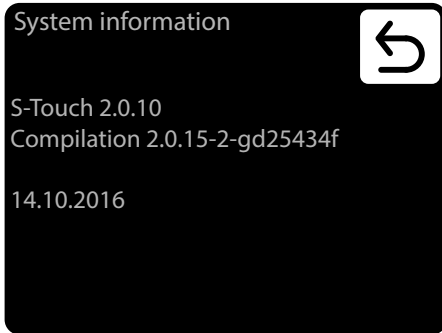
To activate the lock:

1. Set password
2. Confirm OK

Free 4-digit password can be set.

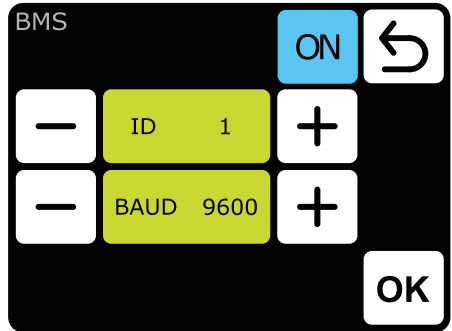
After returning to main screen and 30s of inactivity, controller will be locked automatically.

Information menu



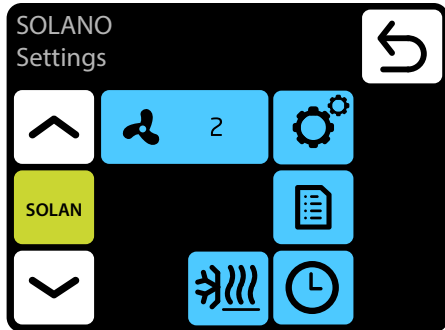
Basic information about software and hardware version


BMS BMS – settings





ID – setting unit adress: from 1 to 247


BAUD – setting data transmission speed: from 9600 to 115200 bit/s




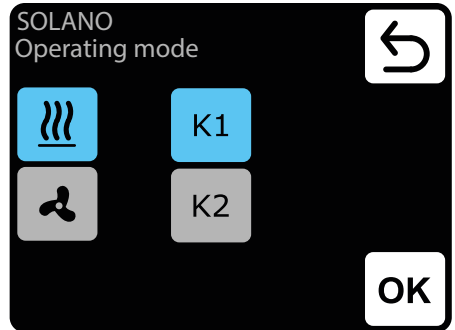
 2 air flow setting – 3-steps


 selection of operating mode


 setting of delay times


 readings


 antifreeze




 active operating mode

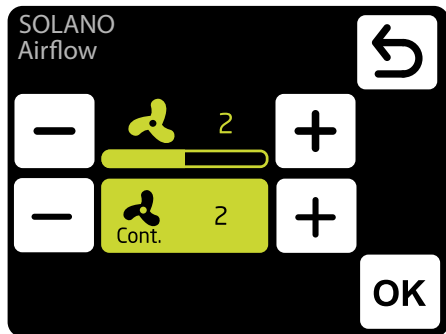
 K1 air curtain operates according to door sensor and thermostat, whose priority is equivalent


 K2 air curtain operates according to door sensor and thermostat. Door sensor has a priority. Without it's signal unit will not run


 heating – valve is opened when measured temperature is lower than desired temperature

 ventilation – valve is constantly closed, fan operates continuously at selected step

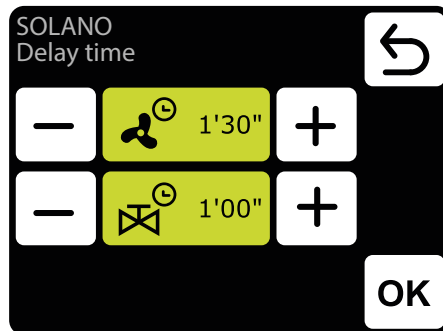
Air flow setting





 air flow setting

 Cont. After the disappearance of signal from the door sensor (or thermostat if K1 mode is activated), fan of air curtain can operate on selected step for a specified period of time or be turned off - select OFF.

Setting of delay time

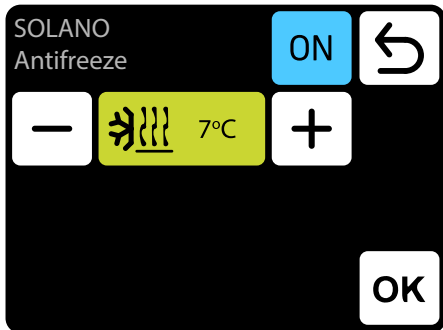


 Fan switch off delay time – it can be set in the range 0:00 - 10:00 minutes, every 0:30s. It is possible to set ∞ value, then fan operates continuously.

 Valve switch off delay time - it can be set in the range 0:00 - 10:00 minutes, every 0:30s. It is possible to set ∞ value, then valve is constantly open.

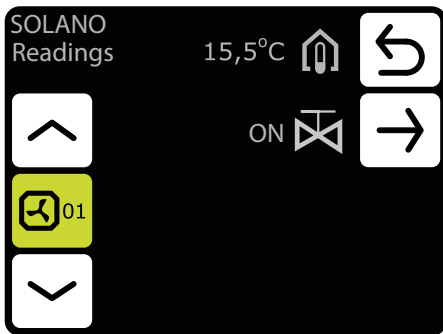
Valve delay time must be shorter than fan delay time.

Antifreeze



Antifreeze protection of the heat exchanger. When temperature in the room drops below desired temperature fans stops and valve is open to 100%.


Readings





To read temperatures near the unit, external temperature sensors PT-1000 must be connected to S-ECM control module.


short press **SOLANO COMBI** air curtain-in-fan heater combo units





 2 air flow setting for air curtain part – 3-steps

 2 air flow setting for fan heater part – 3-steps

 selection of operating mode

 setting of delay times

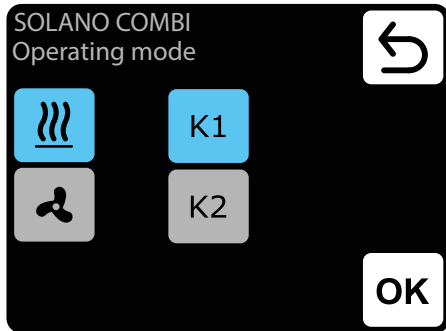
 readings






 antifreeze

ON/OFF valve

temperature in the room

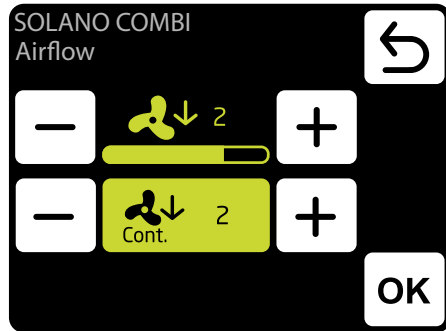

Operating modes





-  active operating mode
-  K1 air curtain operates according to door sensor and thermostat, whose priority is equivalent
-  K2 air curtain operates according to door sensor and thermostat. Door sensor has a priority. Without it's signal unit will not run
-  **heating** – valve is opened when measured temperature is lower than desired temperature
-  **ventilation** – valve is constantly closed, fan operates continuously at selected step

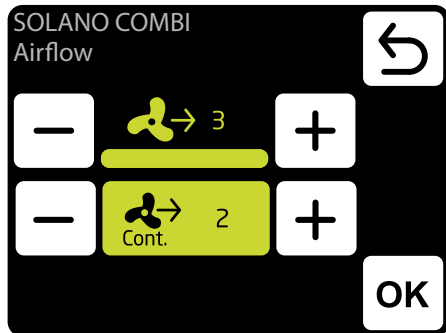
Fan heater operates always according to temperature set on the controller, regardless K1/K2 mode.


Air flow setting




-  air flow setting

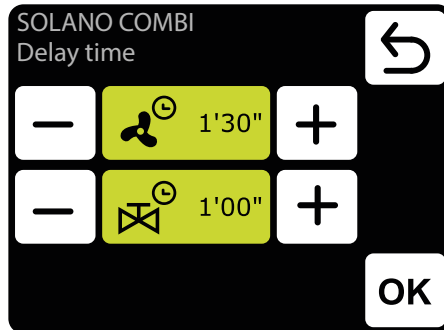
 **Cont.** After the disappearance of signal from the door sensor (or thermostat if K1 mode is activated), fan of air curtain can operate on selected step for a specified period of time or be turned off – select OFF.





 air flow setting

 After reaching desired temperature fan of the heater can operate continuously on selected step: 1, 2, 3 or be turned off – select OFF.

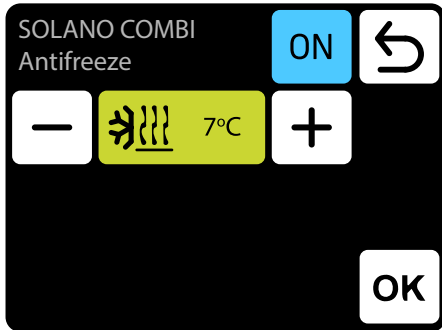
Setting of delay time



 Fan switch off delay time can be set in the range 0:00–10:00 minutes, every 0:30s. Value ∞ – fan operates continuously.

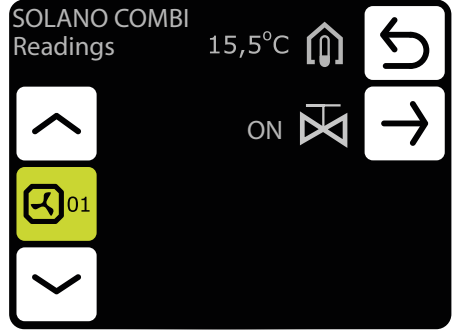
 Valve switch off delay time can be set in the range 0:00–10:00 minutes, every 0:30s. Value ∞ – valve is constantly open.



Antifreeze



Antifreeze protection of the heat exchanger. When temperature in the room drops below desired temperature fans stops and valve is open to 100%.

Readings



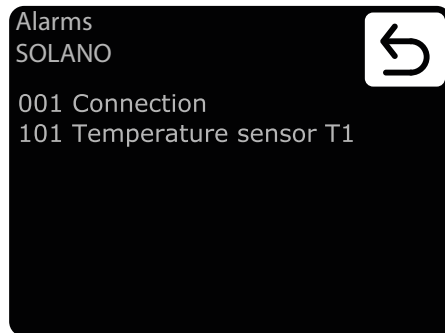
 temperature in the room  ON/OFF valve

To read temperatures near the unit, external temperature sensors PT-1000 must be connected to S-ECM control module.

Alarms



List of alarms



alarms

- **Real time clock error**
set the S-TOUCH time again
- **Internal temperature sensor error**
S-TOUCH built-in temperature sensor is damagedx
- **Temperature sensor T1/T2/T3/T4/T5**
check temperature sensor
- **Antifreeze water exchanger ON**
antifreeze mode of water heat exchanger is on
- **S-ECM group error**
Addressing failure. Check binary address set in S-ECM and use search button again
- **Connect error**
no communication between S-ECM and S-TOUCH, check connection and S-ECM power supply
- **COMBI heater not connected**
no communication between S-ECM of fan heater part of SOLANO COMBI, check connection between S-ECM of air curtain part and S-ECM of fan heater part

