

Controller Manual

The controller controls the humidifier based on the relative humidity (RH) and temperature measured in the room.

The following are shown on the display of the controller:

- **Functions**
Humidify (HUMIDIFY), Cool (Cool) or both (AUT) depending on the equipment connected.
- **Status**
batteries, RF connection and control.

Operation

The controller communicates with the unit via a wireless RF signal (902MHz). Based on the (pre-)set values (setpoints) the controller sends a signal to the unit that responds to this. The (pre-)set values (setpoints) can be adjusted by the user.


N.B.! The display switches off automatically after 8 seconds to optimise the battery life. The controller connects 3 times per hour to the unit to update the measured values and to adjust the humidification control to this.




Activate the Evap controller display:

- Press **mode**


Switch between temperature and RH (relative humidity):

- Press: 

Change RH setpoint:

- Activate the controller by pressing **mode**.
- Ensure that the RH value is visible by pressing 
- Briefly press **mode** again.
- Then press the arrow button to change the RH setpoint.
- Press **mode** to confirm the new value.

Change temperature setpoint:

- Activate the controller by pressing **mode**.
- Ensure that the temperature value is visible by pressing 
- Briefly press **mode** again.
- Then press the arrow button to change the temperature.
- Press **mode** to confirm the new value.


Technical menu

In the technical menu you can view the integrated temperature and relative humidity (RH) measurements.


In this menu you can also reset the **alarm** and change the setpoint of the air flow sensor (SHC80).

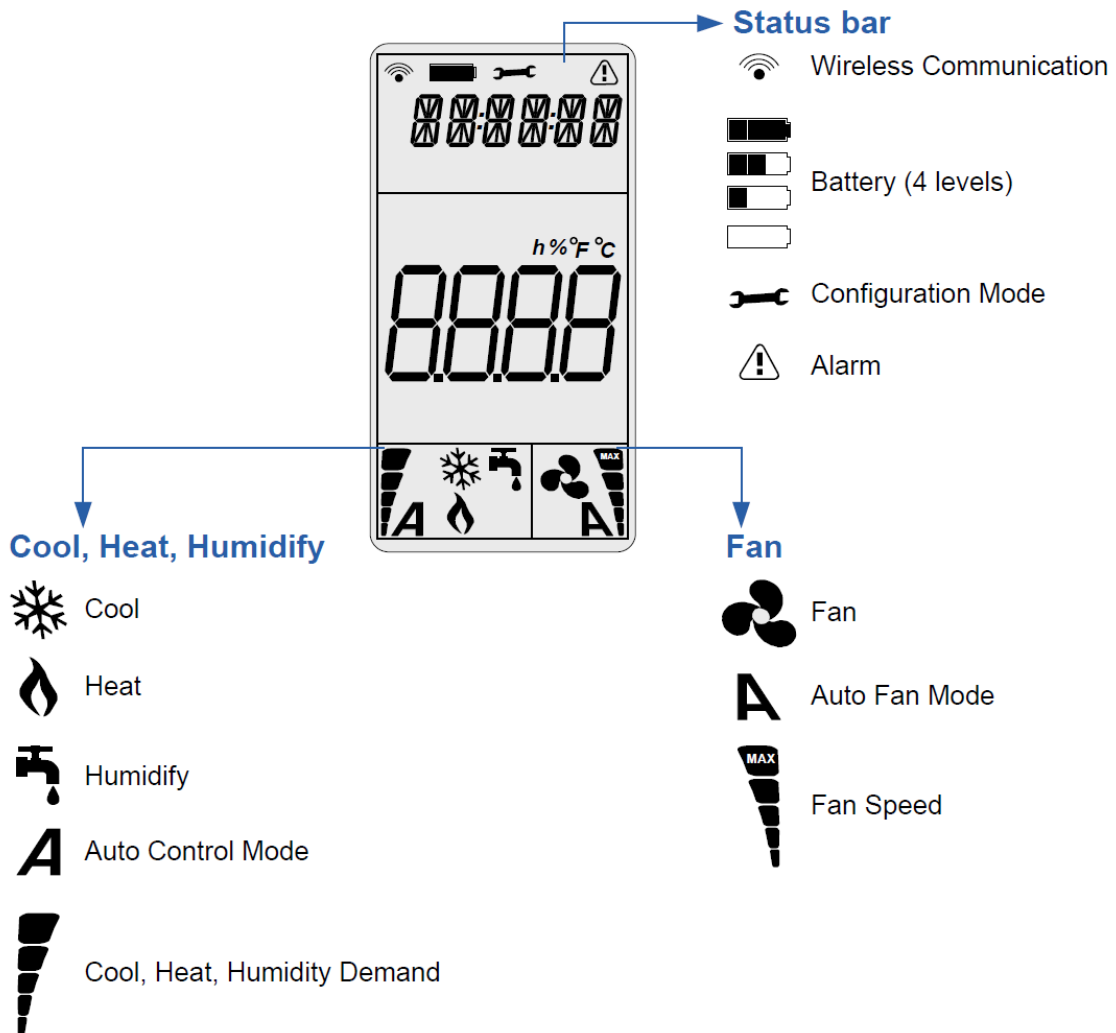
This menu can be accessed by holding down the **mode button** for **2 sec.**

Main menu	Submenu	Description	
SETPNT	SP001	Setpoint temperature in the duct	
	SP002	Setpoint RH duct	
TEMP	TS001	Measured duct temperature	
	TS002	Measured temperature after HRV	
	TS003	Measured outside temperature T3	Only Combi Comfort otherwise always 50
	TS004	Setpoint temp humidifier	Only Combi Comfort
	TS005	Setpoint temp indirect cooler	Only Combi Comfort
	TS006	Setpoint temp direct cooler	Only Combi Comfort
HUM	RH001	Measured humidity in duct	
COUNTR	CT001	Count valve humidifier	
	CT002	Count valve cooler	
ALARM	AL001	Turn off service alarm	
	AL002	Turn off alarm	

Menu navigation
1. Use the arrow buttons to change to the main menu
2. Press mode to select the menu
3. Use the arrow buttons to scroll between the submenus
4. Press mode to select a submenu
5. Use the arrow buttons to change the values
6. Press mode to confirm the change
7. Press  to go back one step

Example of changing setpoint RH and temperature duct

- Press the **mode** button for 2 seconds.
- Scroll with the arrow keys to SETPNT.
- Press **mode** to select menu.
- Scroll with the arrow keys to SP001 for temperature and SP002 for RH.
- Press **mode** to select submenu SP001/SP002.
- Use the arrow buttons to change the values
- Press **mode** to confirm value.
- Use  to confirm value.



Symbols general:

- Wireless Communication: displays the signal strength.
- Battery: remaining life of the batteries (4 x AAA).
- Alarm: the text indicates signal. Look under Faults for explanation.
- Demand: the level of operation, the higher the demand the more bars.

Symbols relevant for Evap:

- Humidify: humidify function
- Heat: heat function. This does not mean that this is actually on or that it is present

FAULTS AND ALARMS


Ref	ALARM	Conditions	Action	Reset
1	Water	No increase in duct RH% (T1) after a certain time	Close water valve	Manual reset after search via technical menu
2	No communication	Controller has lost contact with wireless control panel	Evap switches off	Auto reset when contact is restored
3	No Duct temp sensor	Duct temperature and RH% sensor(T1) SHC80 is not connected	Evap switches off	Auto reset when contact is restored with duct temperature sensor
4	Heater default	Measurement Delta T between T2 and T1 (If T1 is 7°C is lower than T2) OR RH%/T sensor is not connected to controller	Heater switches off	Manual reset after search, by resetting alarm.
5	No air flow	Humidifier and heater are activated, if temperature of T2 rises appreciably by 20°C within 2 min	Evap switches off	Manual reset after search, by resetting alarm.
	No air flow or No water flow	Humidifier but no heater (duct from temperature T1 ≥ 16°C) Measurement Delta T between T2 and T1, if no Delta T = no air flow or no water	Evap switches off	Manual reset after search, by resetting alarm.
6	No air flow	Measurement Delta T between T2 and T1, if no Delta T = no air flow or no water	Evap switches off	Manual reset after search, by resetting alarm.

EXAMPLE

The display shows: **“WATER”** and an **“alarm”** triangle.

Use of Humidifier: cause no water supply, or no increase in RH% measurement by SHC80. Actions: check that the tap is open, check that the valve is working by turning off power to the Evap system module and switching it on again. Listen to see whether water is flowing for min 20 seconds.

RESET procedure:

- Activate LCD by pressing **mode**, wait 2 seconds, press **mode** again for 2 sec to go to the reset menu.
- Display shows **STPT**.
- Use the arrow buttons to scroll through the menu
- If the display shows **ALARM**, press **mode**. Display indicates **AL01**, press the arrow buttons until the display shows **AL02**. Press **mode** - the display shows **NO**
- Press arrow buttons until display shows **Rst**.
- Confirm reset by pressing **mode** and then the button 
- Check reset by pressing **mode** again.
- The ‘water’ and ‘alarm’ triangle should now have disappeared.