

Sensor unit

Overview



General remarks



SAVE THE OVERVIEW FOR FURTHER REFERENCE!

THE SENSOR UNIT CAN ONLY BE USED IN COMBINATION WITH A TOUCH CONTROL UNIT. WHEN RETROFITTING A SENSOR, THE TOUCH CONTROL UNIT MIGHT NEED A SOFTWARE UPDATE.

Functioning

The sensor enables a zone to be automatically controlled via the temperature and humidity levels measured there. Desired levels for the zone can be set. The control unit checks the sensor results, ascertaining whether outdoor conditions can help achieve or maintain the desired levels in the zone. The measured humidity level is used to set the fan speed, while the measured temperature sets the function mode.

Humidity regulation

Fan speed	Prevalent condition
1	The outdoor humidity has a negative impact on the desired indoor humidity.
2	The desired indoor humidity has been achieved.
3	The outdoor humidity can improve the desired indoor humidity.
4	The level of indoor humidity exceeds 90%.



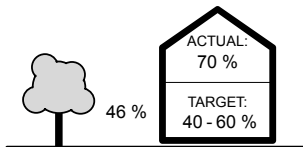
THE CONTROL ALGORITHM COMPARES THE ABSOLUTE INDOOR AND OUTDOOR HUMIDITY TO SET THE REQUIRED FAN SPEED.

Temperature regulation

Mode	Existing condition
Eco-Mode	The outdoor temperature has a negative impact on the desired indoor temperature.
Full-blast mode	The desired indoor temperature has been achieved or is boosted by inflowing higher-temperature outside air.

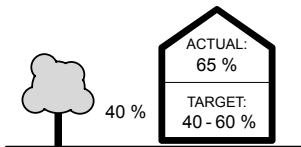
Examples humidity regulation

Indoor humidity



Indoor relative humidity is higher than the desired level and can be lowered by the outdoor humidity. The system runs at fan speed 3.

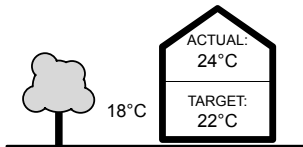
Cellars in summer



The cellar temperature is lower than the outdoor temperature. Ventilating the cellar means that inflowing outside air is cooled. Its relative humidity increases to above the desired level. To prevent the cellar air getting more humid, the system runs at fan speed 1.

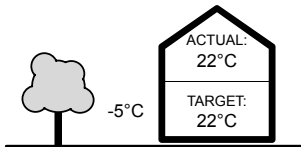
Examples temperature regulation

Night cooling



The lower-temperature outside air at night is used to cool the room. The system runs in full-blast mode.

Winter weather



The outdoor temperature is lower than the desired indoor temperature. The system runs in eco-mode.

Installation



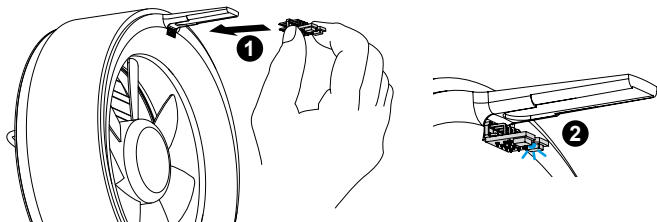
DISCONNECT THE SYSTEM FROM THE MAINS BEFORE INSTALLING THE SENSOR. TO PROTECT THE CIRCUIT BOARD FROM ELECTROSTATIC DISCHARGE, BRIEFLY TOUCH AN EARTHED OBJECT (SUCH AS A RADIATOR) BEFORE TOUCHING THE SENSOR.



CAREFULLY BRING THE SENSOR CLOSE TO THE BOARD (AS SHOWN IN THE DIAGRAM) TO PREVENT DAMAGE.



JUST ONE SENSOR PER ZONE MAY BE INSTALLED. INSTALL THE SENSOR IN A ROOM OF YOUR CHOICE (FOR INSTANCE, A ROOM WITH HIGH HUMIDITY).



1. Pull off the foil protecting the sensor plug-in slot on the back of the fan unit.
2. Insert the sensor (see Diagram 1) into the slot of the fan unit.
3. Push the fan unit back into the mounting tube.
4. Restore power and activate the control unit. The sensor is powered up and ready when the LED starts blinking blue (see Diagram 2)

Operation

Start-up



AFTER THE SENSOR HAS BEEN INSTALLED, TWO NEW SYMBOLS WILL APPEAR IN THE TOUCH CONTROL UNIT'S MAIN MENU.



Automatic mode

The respective zone is controlled completely automatically, in line with the desired levels, via the measured temperature and humidity levels. Each time automatic mode is activated, an 8-minute measurement cycle begins. Dependent on the fan speed, this is repeated at regular intervals with a varying duration. A corresponding message will be seen on the control unit.



Sensor information and settings

Shows the measured temperature and humidity levels of the groups controlled by a sensor. In addition, the temperature and humidity settings can be changed.



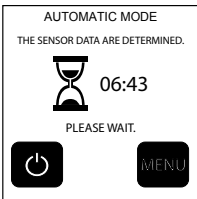
SHOULD THE SENSOR NOT BE SHOWN FOR A FEW MOMENTS, THE SYSTEM IS RECALIBRATING ITSELF.



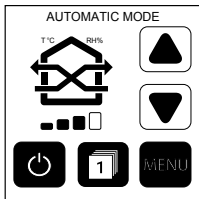
AUTOMATIC MODE APPLIES SOLELY TO THE SELECTED ZONE, NOT FOR THE WHOLE SYSTEM.

Settings

Automatic mode



Each time automatic mode is activated, a measurement cycle begins. A countdown shows the remaining time.



In the main screen, T°C and RH% display the active temperature and humidity control.

Sensor informationen

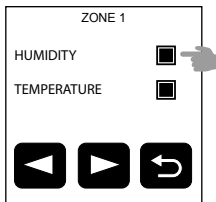
SENSOR INFORMATION		
	T°C	RH%
ZONE 1	21	35
ZONE 2	22	37
ZONE 3	19	30

Buttons: Settings, Back

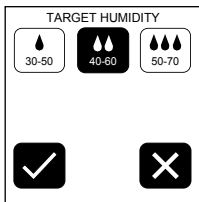
This screenshot shows the 'Sensor Information' screen. It features a table with three columns: 'ZONE', 'T°C', and 'RH%'. The table contains data for three zones. Below the table, there are two buttons: a settings gear icon on the left and a back arrow icon on the right.

The sensor information screen displays the measured indoor parameters of each zone. Press the button at the bottom left to enter the sensor settings.

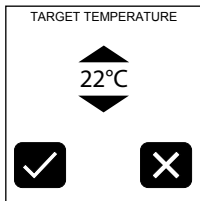
Sensor settings



The humidity and temperature settings can be applied for each zone.



You can choose between three target humidity levels. The system is pre-set at 40-60% relative humidity.



Press here to adjust the target temperature.
The system is pre-set at 20° C.



ONLY ONE OF THE TWO CONTROLS (TEMPERATURE OR HUMIDITY) CAN BE DEACTIVATED AT ANY ONE TIME. WHEN FOR INSTANCE TEMPERATURE CONTROL IS DEACTIVATED, THE X BUTTON FOR SETTING THE HUMIDITY LEVEL IS NOT SHOWN (AND VICE VERSA).

Maintenance

The sensor should be visually checked as part of annual maintenance. Dirty sensors can be carefully cleaned using a soft paintbrush.

Disposal

Packaging material should be sorted before disposal. Electronic devices or batteries do not belong in normal household refuse. Contact the appropriate authority and dispose the product in accordance with current national regulations.

Warranty

The same warranty as for the fan units applies. These can be found in the system's operating instructions.

Service

Save the overview for further reference! For queries relating to this product please provide the ID on the label below.

