I DE Erweiterte Funktionsbeschreibung
Smart Comfort 5/SC-FT

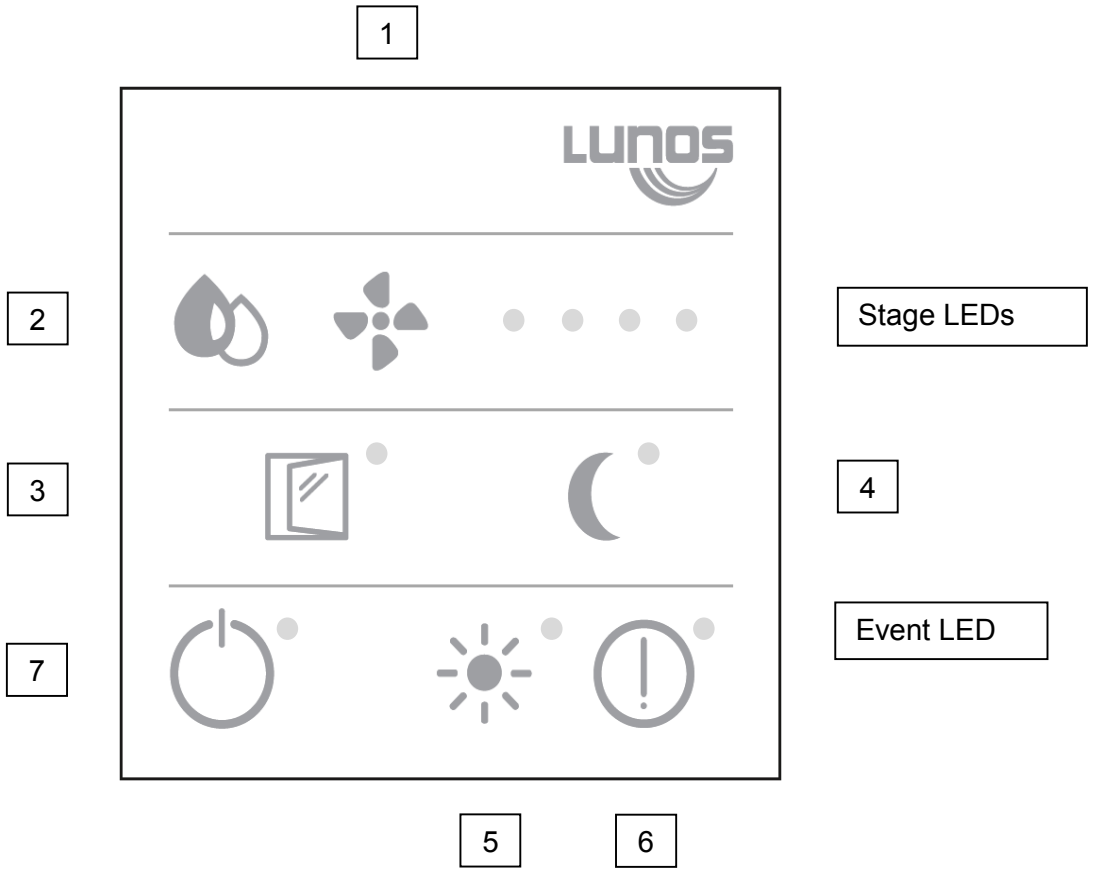
- Bitte an den Nutzer weiterleiten -

II EN Advanced Functional Description
Smart Comfort 5/SC-FT

- Please pass on to user -

Contents

1 Symbol description, button functions



1.1 Fan

1.1.1 Single button press

The "Fan" button is used to set the ventilation stage. The manual setting of the ventilation stage is to be carried out in a rolling manner, i.e. each press of the button increases the stage by 1. The highest stage is followed by the lowest stage (OFF) again. In this way, only one button is required to set the ventilation stages.

A manual change of the ventilation stage when the automatic mode is activated has a validity period of 1 hour. After this time has elapsed, the control changes back to the automatic mode.

1.1.2 Button pressed for 3 seconds

If the button is pressed and held for 3 seconds, a changeover between 5-stage and 8-stage operation takes place. While in 5-stage operation one LED is assigned to each stage, in 8-stage operation the full stages are signalled by one and the intermediate stages by 2 LEDs. No LED illuminates when the "OFF" stage is set. This applies to both operating modes. The changeover only affects the manual change of stages. The automatic mode always comprises 8 stages. The changeover is signalled by the Event LED flashing once (4-stage operation) or flashing twice (8-stage operation).

1.2 Drop

1.2.1 Single button press

The humidity-sensitive automatic mode is activated or deactivated via the button with the Drop symbol. In automatic mode the behaviour of the LEDs are changed. The Stage LEDs 1-4 illuminate permanently with low brightness as a status display. The active stage is displayed with full brightness. In the standard, the first stage is switched at a relative humidity of 50%. The highest ventilation stage is switched from a humidity value of 70%.

The humidity control is equipped with the well-known intelligence (TAC, Silvento ec and 5 / UNI-FT), i.e. the moving average of relative humidity over a period of 24 hours is additionally used. This makes it possible to distinguish between a permanently high external humidity and a rapidly increasing local humidity.

When the humidity control is activated, the control remains in the reduced operation mode for most of the time (permanently at stage 1, as long as the room humidity is less than the lower control limit).

If the humidity level rises higher than or equal to 8% within an hour compared to the background humidity (average and minimum of the last hours), the control changes to active humidity control, thus calculating the ventilation stage (1-7) according to the measured room air humidity.

The control returns to the reduced operation mode if one of the following conditions is met:

• Difference between current humidity and background humidity ≤ 4%

• The active humidity control has been performed for more than 2 hours.

If a permanently high humidity of greater than or equal to 65% (with reference to 22 °C) is measured over a period of 24 hours, the control remains in the reduced operation mode.

1.2.2 Button pressed for 3 seconds

If the button is pressed and held for 3 seconds, the lowest ventilation stage of the automatic mode is set. The Event LED flashes. The stage is set via the button 1 and is signalled by one of the four Stage LEDs illuminating. The stage is accepted after 5 seconds without input. The Event LED lights up for a long time and goes out.

1.2.3 Button pressed for 10 seconds

Press and hold the button for 10 seconds to set the lower control limit. The LED with the Sun symbol begins to flash. The lower limit value is adjusted via the Fan button 1 and is signalled via the Stage LEDs 1-4.

The limit value is accepted after 5 seconds without input. The Event LED lights up for a long time and goes out.

LED 1: 40%

LED 2: 45%

LED 3: 50% (factory setting)

LED 4: 55%

1.3 Window

1.3.1 Single button press

The Window symbol stands for the intensive ventilation mode. If it is active, the LED next to the symbol illuminates permanently. The fans change to the highest available ventilation stage. The mode ends automatically after the set time. The ventilation system returns to the previous operating mode (manual or automatic mode).

1.3.2 Button pressed for 3 seconds

If the button is pressed for 3 seconds, the user can set the duration of intensive ventilation in 30 minute increments. The Event LED flashes. The runtime can be set via button 1. One LED of the Stage LEDs lights up for one 30 minutes' increment, that is, the runtime can be set in 30 minute increments between 30 minutes and 2 hours. The time is accepted after 5 seconds without input. The Event LED lights up for a long time and goes out. The set runtime remains stored until reprogramming or reset to factory settings. The factory setting is a runtime of one hour.

1.3.3 Button pressed for 10 seconds

Pressing and holding the button for 10 seconds allows you to set the stage for the intensive ventilation. The LED next to the Window symbol starts flashing. Again, the setting of the stage is carried out via the Fan button 1 and is signalled by the four Stage LEDs.

LED 1: Stage 1

LED 2: Stage 2

LED 3: Stage 3

LED 4: Stage 4 (factory setting)

The selected stage is accepted after 5 seconds without input. The Event LED lights up for a long time and goes out.

1.4 Moon

1.4.1 Single button press

Pressing the button activates or deactivates the night-time reduction. When the mode is activated, the adjacent LED lights up for 5 seconds. Then all LEDs go out. The ventilation system changes to the stage "OFF" and automatically returns to the previous mode after the set time has elapsed. Only then the LEDs go on again, too. Any button press during the night-time reduction mode first activates the LED next to the Moon symbol. The next button press will again have an influence on the setting of the control.

1.4.2 Button pressed for 3 seconds

By keeping the button pressed for 3 seconds, the user can set the duration of the night-time reduction. The Event LED flashes. The runtime is set via button 1. It can be set between one and eight hours. One illuminating Stage LED stands for 1 hour, two LEDs for 2 hours, three LEDs for 4 hours, and four LEDs for 8 hours. The time is accepted after 5 seconds without input. During these 5 seconds, the Event LED will illuminate continuously. In the night-time reduction mode, all LEDs are set to brightness level "dark". The set runtime remains stored until reprogramming or reset to factory settings. The factory setting is a runtime of 2 hours.

1.4.3 Button pressed for 10 seconds

Pressing and holding the button for 10 seconds will set the stage for the night-time reduction. The LED of the Sun symbol flashes. The setting of the stage can be changed with the button 1 (Fan) and is signalled by the Stage LEDs 1-4.

LED 1-4 off: Stage 0 (factory setting)

LED 1: Stage 1

LED 2: Stage 2

LED 3: Stage 3

LED 4: Stage 4

The stage is accepted after 5 seconds without input. The Event LED lights up for a long time and goes out.

1.5 Sun

1.5.1 Single button press

The button is used to activate and deactivate the summer mode. When the mode is active, the LED next to the symbol illuminates. The activation only extends the reversing time to one hour. The mode runs according to the set runtime.

1.5.2 Button pressed for 3 seconds

By pressing the button with the Sun symbol for 3 seconds, the operating time of the mode can be selected or adjusted. The Event LED flashes. The operating time is set by pressing button 1. One illuminated Stage LED stands for 1 hour, two LEDs for 2 hours, three LEDs for 4 hours, and four LEDs for 8 hours. The time is accepted after 5 seconds without input. The Event LED lights up for a long time and goes out.

1.6 Event

1.6.1 Button pressed for 3 seconds

The filter replacement is confirmed and the runtime is reset by pressing the Event button for 3 seconds. If the filter runtime has been successfully reset, the Event LED lights up three times.

1.6.2 Button pressed for 10 seconds

See programming of the device type.

1.7 ON/OFF

1.7.1 Single button press

The brightness setting of the LEDs can be changed by a single press on the ON/OFF button. In doing so, the light is switched in a rolling manner between the brightness levels off, dark and bright (factory setting).

1.7.2 Button pressed for 3 seconds

If the button is pressed for 3 seconds, the ventilation system switches off completely.

1.8 Overview

Symbol	Single button press	Button pressed for 3 seconds	Button pressed for 10 seconds
	Activating or deactivating the humidity-sensitive automatic mode	Setting of the lowest ventilation stage in the automatic mode	Adjustment of the lower control limit in the automatic mode
	Setting of the airflow volume	Changeover between 5-stage and 8-stage operation	-
	Activating or deactivating the intensive ventilation	Changing the runtime of the intensive ventilation	Setting of the stage for the intensive ventilation
	Activating or deactivating the night-time reduction	Defining the runtime of the night-time reduction	Defining the active stage during night-time reduction
	Activating or deactivating the summer mode	Defining the operating time of the summer mode	-
	-	Resetting the filter replacement	Programming of the device type
	Setting of the LED brightness level	Switching off the ventilation system	-

2 Protective functions

2.1 Frost protection

If the room temperature drops below 8°C for more than 1 hour, the fan is switched off. After a temperature of 15°C has been exceeded, the fan switches on again.

The Event LED lights up briefly three times every three seconds.

2.2 Filter replacement

Indication by the Event LED illuminating permanently. The usual, weighted counting of the operating hours is stored.

3 Programming

3.1 Programming of the device type

If the Event button is pressed for 10 seconds or longer, the user enters the device mode. This is confirmed by a permanent flashing of the Event LED. Using the Fan button, the fan type connected to the control can now be selected. 15 (2^4-1) different devices can be stored and selected via LED combination. The type is accepted after 10 seconds without input. The Event LED lights up for a long time and goes out.

	Type	Display	Stage 1	Stage 2	Stage 3	Stage 4
1	e²	●○○○	15 m³/h	20 m³/h	30 m³/h	38 m³/h
2	e²neo	○●○○	5 m³/h	15 m³/h	30 m³/h	38 m³/h
3	e²kurz	○○●○	15 m³/h	20 m³/h	30 m³/h	38 m³/h
4	e²mini	○○○●	5 m³/h	10 m³/h	15 m³/h	20 m³/h
5	e^{go}	●●○○	5 m³/h	10 m³/h	15 m³/h	20 m³/h
6	e^{go}	●●●○	5 m³/h	10 m³/h	20 m³/h	45 m³/h
7	RA 15-60	●●●●	15 m³/h	30 m³/h	45 m³/h	60 m³/h
8	5/UNI-FT	○●●●	1,4 V	2,4 V	3,9 V	4,9 V

3.2 Calibration of the airflow volumes

The airflow volume calibration mode is activated by pressing the Fan button for 10 seconds. The following prerequisites must be met for the calibration.

- Manual mode: Active, 5-stage indicator
- Automatic operation: Off
- Intensive ventilation: Off
- Night-time reduction: Off
- Summer mode: Off

When the calibration mode is activated, the LED next to the Sun symbol lights up twice per second. The brightness level of the LED is automatically set to the highest stage.

The stage set manually when activating the calibration mode will be the stage to be calibrated from then on.

The channel to be calibrated can be changed by a single press of the Moon button. The selected channel is signalled by a flashing of the respective stages of the LED.

The calibration is always performed individually for each fan or output of the control. During the calibration of a fan or output, the respective other one is deactivated.

LED 1: Output 1 supply air

LED 2: Output 1 exhaust air

LED 3: Output 2 supply air

LED 4: Output 2 exhaust air

The actual calibration is carried out by a single press of the Drop button, increasing the airflow volume, and the Fan button, reducing the airflow volume. The change step is approx. 0.01 V (per button press).

The successful calibration is accepted and stored by pressing the On/Off button for 3 seconds. To reject the operation and continue without saving the change, press the Sun button for 3 seconds. In either case, the control will perform a restart.

3.3 Factory settings

The factory settings can be restored by simultaneously pressing and holding the Sun and Event buttons for 10 seconds. After a reset to factory settings, the control will carry out a restart. All LEDs will briefly flash three times simultaneously.

The factory settings are as follows:

- Device type: e²
- Automatic mode: the lowest stage in the humidity-sensitive mode is the lowest fan stage, i.e. **without OFF**. Control range **50%** - 70%
- Intensive ventilation: active for **30 minutes**, **highest ventilation stage**

- Night-time reduction: active for **8 hours**, **ventilation stage OFF**
- Summer ventilation: active for **8 hours**, **reversing time 1 hour** (reversing time cannot be set)
- Manually selectable stages: 5
- LED brightness level: bright (volatile)

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