LUNOS
energy-efficient

Comfort Control TAC
Installation Manual

Contents	Page:

About this manual

- Read this manual carefully and completely before assembly. Always observe the general safety instructions and the safety symbols with information in the text.
- Hand out this manual to the user (tenants, proprietors, property management etc.) after completing assembly.

Symbols in this manual

 This symbol warns you against risks of injury.

 This symbol warns you against risks of injury from electricity.

Safety instructions

Caution! Any assembly work to the ventilation device may only be carried out after disconnecting all poles of the supply voltage. The ventilation device is fitted with protective insulation according to Protection Class II, a protective conductor connection is not required.

Attention! The electric connection may only be made by authorised qualified personnel and according to the applicable version of VDE 0100.

Attention! This device must not be operated by children and persons (filter replacement/cleaning) who are not able to operate the device safely due to their physical, sensory or mental abilities or their inexperience or lack of knowledge. Children should be supervised to ensure that they do not play with the device.

Attention! In the case of installation in connection with heat systems dependent on room air, the ventilation units must be separated from the mains voltage via a safety device when deactivated.

Technical data

Supply Voltage:	100-240 VAC; 50-60 Hz
Output voltage:	12 VDC SELV
Protection Class:	IP 22

Disposal

The packaging must be sorted before disposal. If you wish to dispose of the ventilation device, observe the current regulations. The competent municipal authority will provide information.

Application

The TAC comfort control serves to provide common triggering for ventilation units of the company LUNOS with different functionality:

- Ventilation with heat recovery
- Exhaust air
- Supply air

The TAC is fitted with a standard humidity/temperature sensor. A CO_2 sensor can also be purchased as an optional accessory.

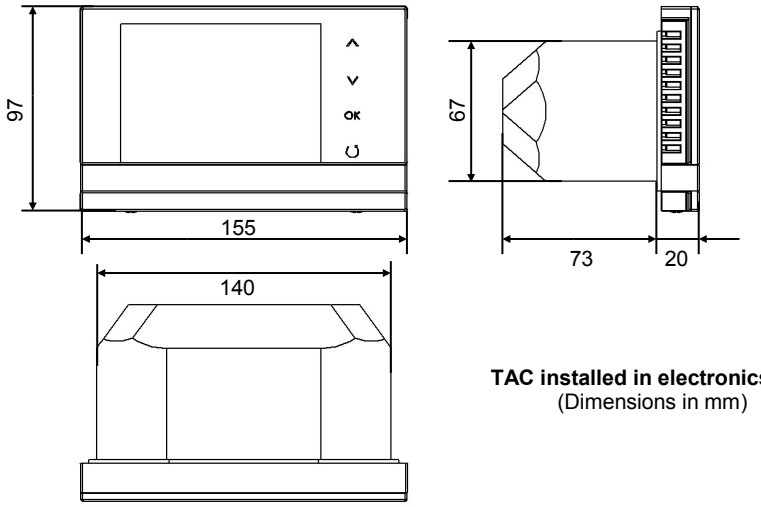
Important:
The TAC has three inlets and three outlets. If required, you can connect switches or push-buttons directly to the inlets (contact voltage range 100 to 240 VAC) and allocate the outlets via configuration software.
When using the universal control 5/UNI-FT in connection with the TAC you can only connect push-buttons to the 5/UNI FT.
You can trigger only **one** ventilation unit type with the same funtion via the outlets. The basic number of possible devices which can be connected per outlet is displayed in the adjacent table.
Which and how many devices are to be connected, and in which way, is normally defined by planning and the respective configuration code.

Fan type	Connection	Number of units
e²/e²neo	directly to 2 outlets	2 pairs
	via 1 x 5/UNI-FT to one outlet	3 pairs with power supply 18 W or 5 pairs with power supply 60 W
e^{go}	directly to 2 outlets	2 units
	Via 1 x 5/UNI-FT to one outlet	3 units with power supply 18 W or 5 units with power supply 60 W
RA 15-60	directly to 1 outlet*	1 unit
	via 1 x 5/UNI-FT to one outlet	1 unit with power supply 18 W or 2 units with power supply 60 W
Silvento ec	directly to 1 outlet	1 unit
Silvento 30/60	with 1 x 5/ACM to 1 outlet	1 unit
AB 30/60	with 1 x 5/ACM to 1 outlet	1 unit

Connection of several 5/UNI-FT or 5/ACM to one outlet is possible.

*when a RA 15-60 is directly connected to 1 outlet, additional RA 15-60 can only be connected via 5/UN-FT to other outlets.

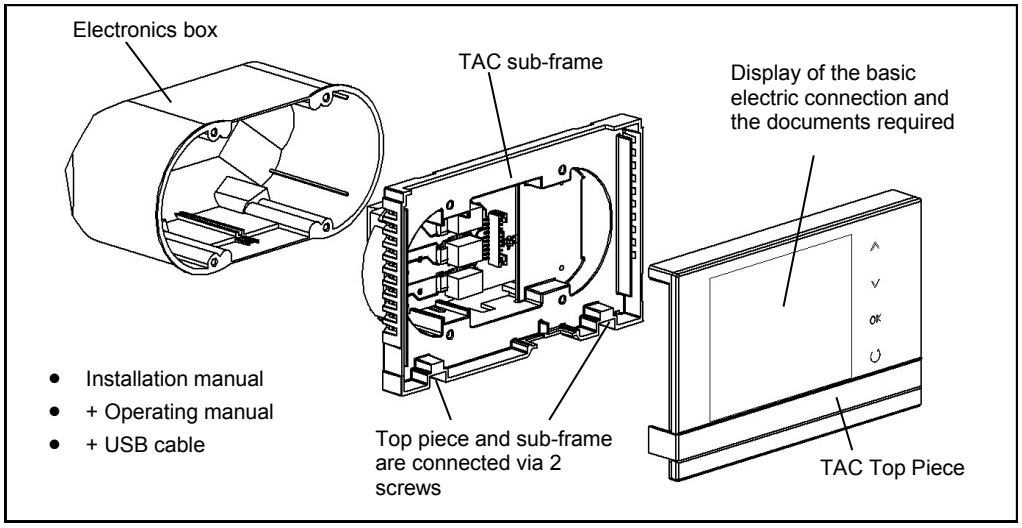
Dimension drawing



TAC installed in electronics box
(Dimensions in mm)

Shipping unit

Please check the supplies for completeness and mint condition

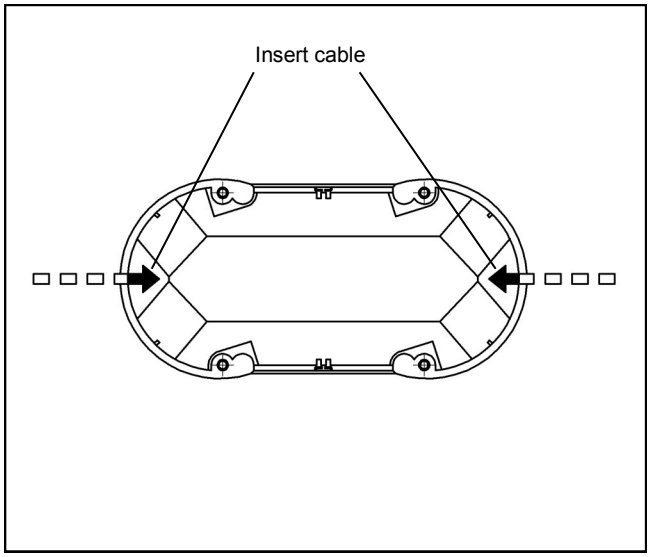


Operating range

Operating temperature range:	15°C – 40°C
Operating humidity range:	max. 65% relative humidity, non-condensing
Recommended installation location:	Living and sleeping areas Do not install in bathrooms, kitchens or damp locations

Assembly: Provision electronics box and cable

Install the electronics box in horizontal position at a recommended height of installation of approx. 1.5 m from the ground. Prepare all cables required in the respective cross-section in accordance with the plan. Connect the TAC subframe in accordance with the plan and the connection diagrams.



Electrical Connection

Safety instructions


Caution! Installation work must only be carried out when the mains voltage has been completely disconnected.


Make sure that all connection lines are disconnected and de-energized before connecting the TAC and the ventilation units (separation from mains with at least 3 mm contact opening, e.g. electric fuse).

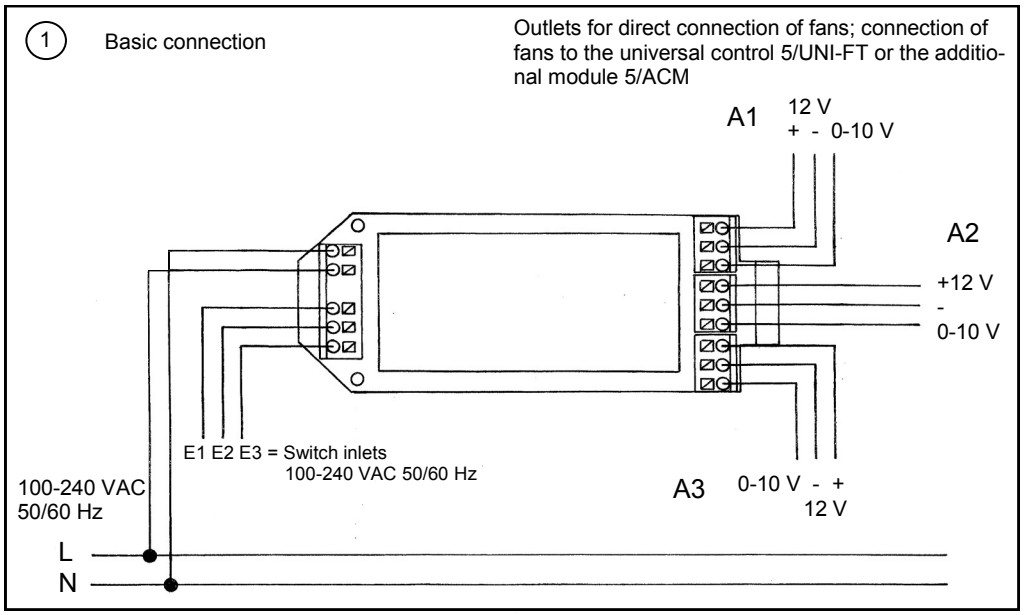

Each circuit connected to the fans must be fitted with residual current protection (e.g. FI switch/RCD switch).


Electric connection only by a specialist.

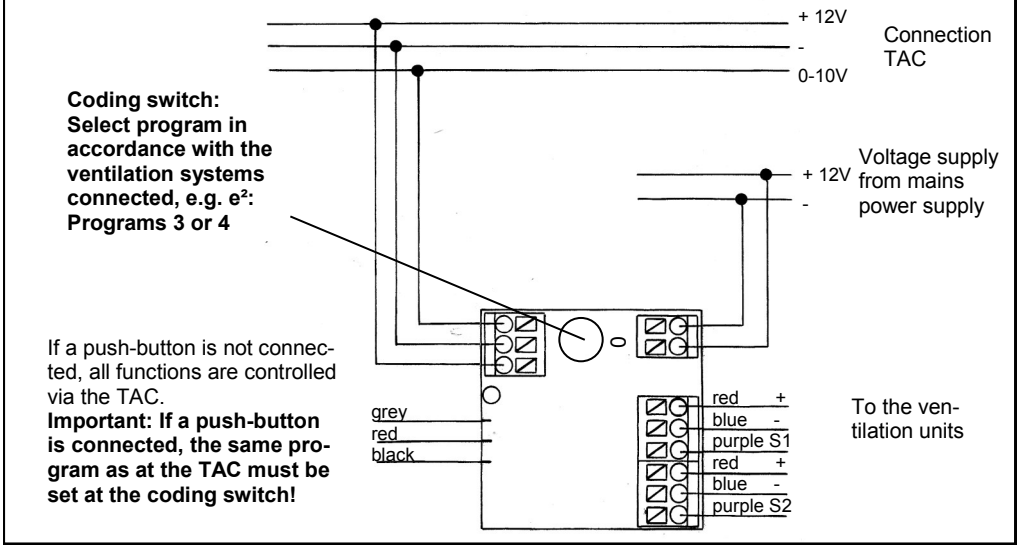
Additional installations and electrical components in the ventilation systems are not admissible.
Other connection diagrams available on request.

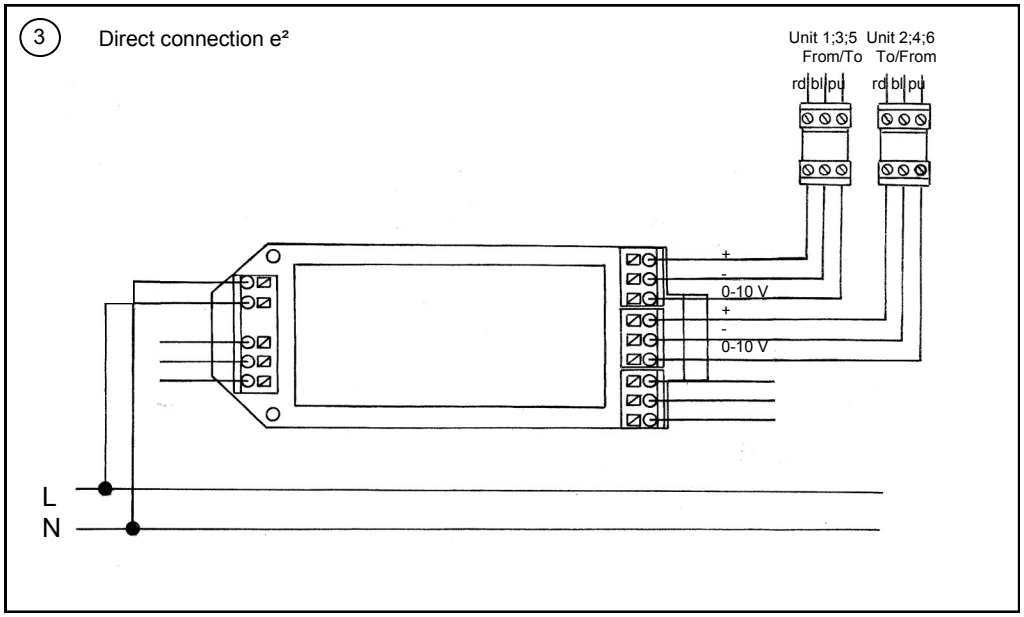
Use the following cables for electrical connections:

- Cable to the ventilation units e.g. J-Y(St)Y(2x2x0.8), max. 1.5 mm²
- Cable for connection to comfort control TAC: e.g. J-Y(St)Y(2x2x0.8), max. 1.5 mm²
- Cable for supply voltage e.g. NYM 3 x 1.5 mm²

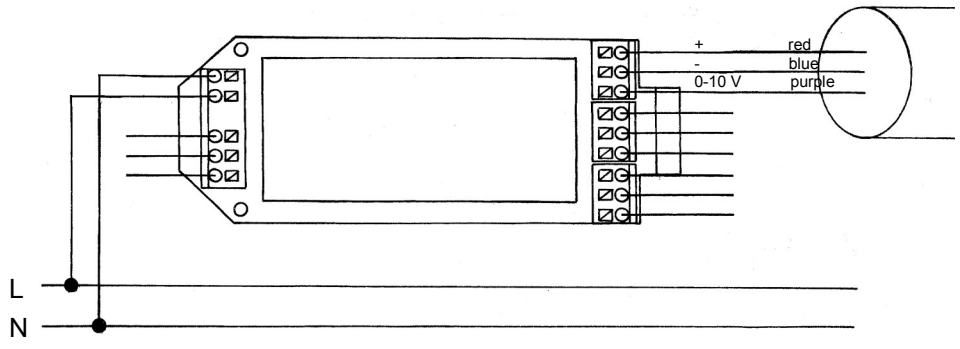

1
Basic connection
Outlets for direct connection of fans; connection of fans to the universal control 5/UNI-FT or the additional module 5/ACM
A1
12 V
+ - 0-10 V
A2
+12 V
-
0-10 V
E1 E2 E3 = Switch inlets
100-240 VAC 50/60 Hz
100-240 VAC
50/60 Hz
A3
0-10 V - +
12 V
L
N

2 Connection of universal control 5/UNI-FT

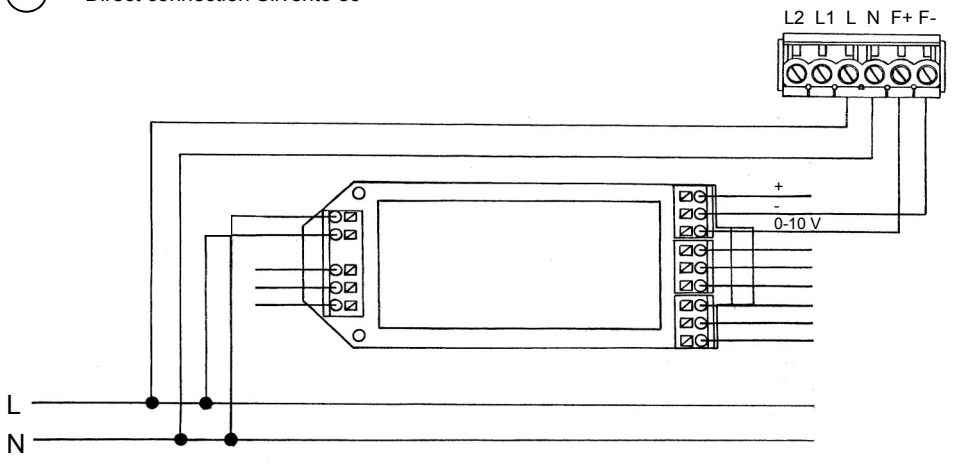


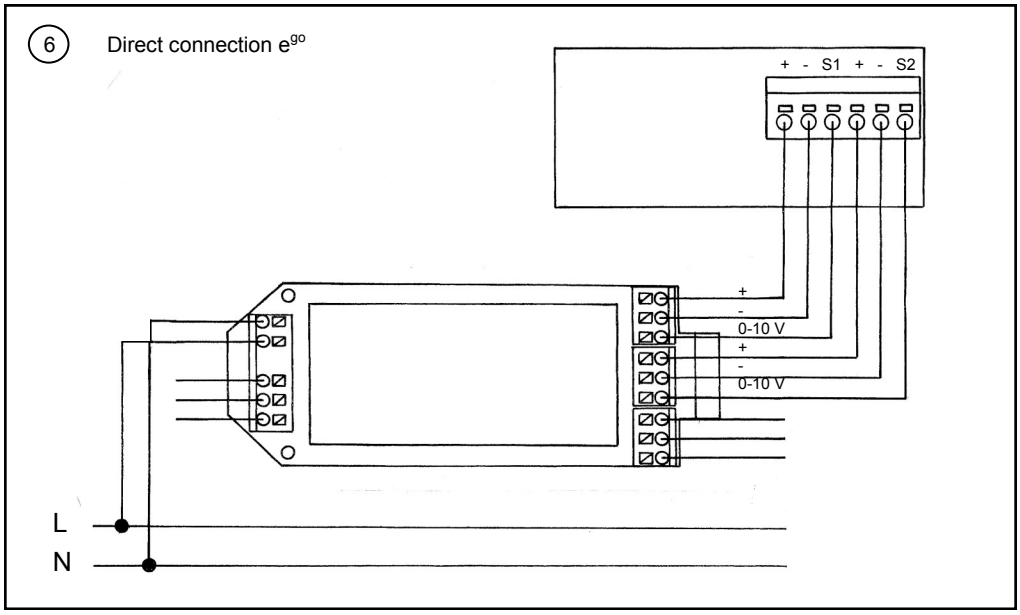

3
Direct connection e²
Unit 1;3;5
From/To
Unit 2;4;6
To/From
rd bl pu
rd bl pu
+
-
0-10 V
+
-
0-10 V
L
N

4 Direct connection RA 15-60

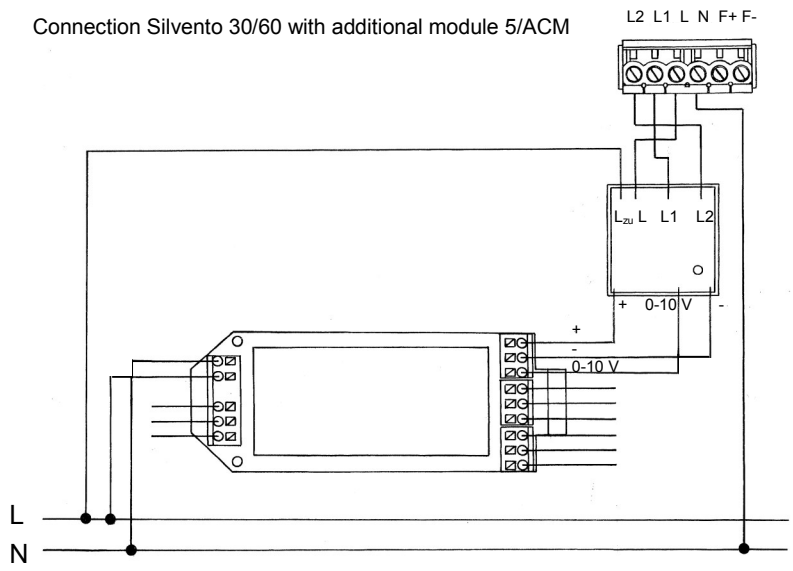


5 Direct connection Silvento ec

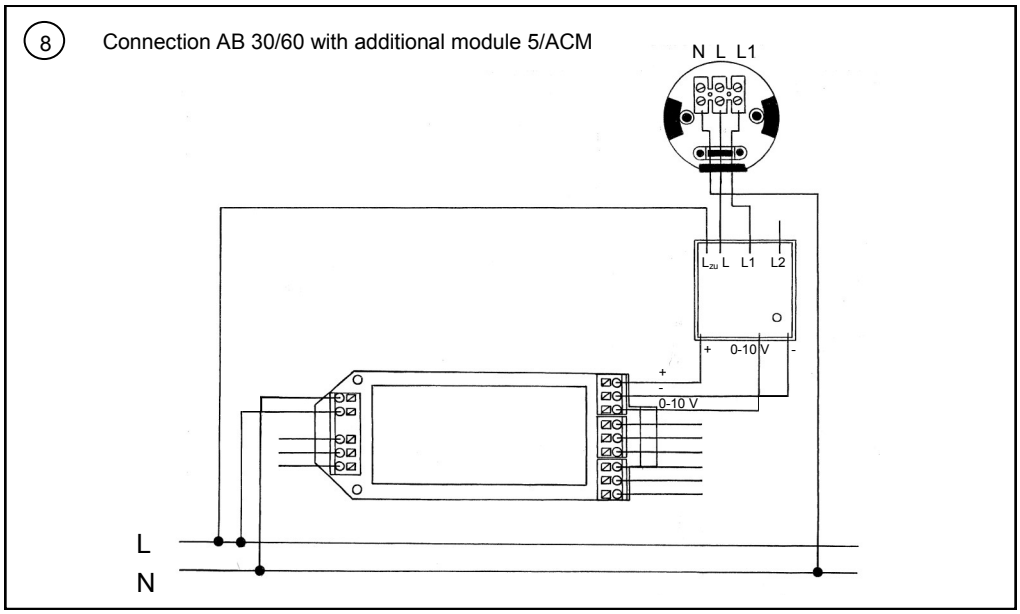



6
Direct connection e^go
+ - S1 + - S2
+
-
0-10 V
+
-
0-10 V
L
N

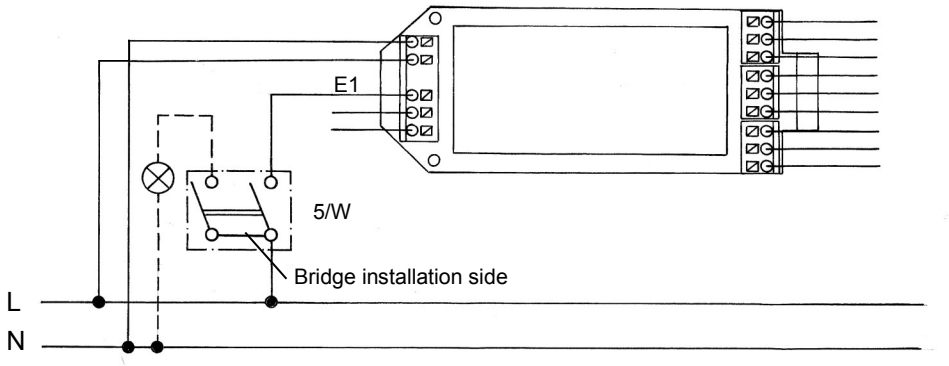
7 Connection Silvento 30/60 with additional module 5/ACM



8 Connection AB 30/60 with additional module 5/ACM

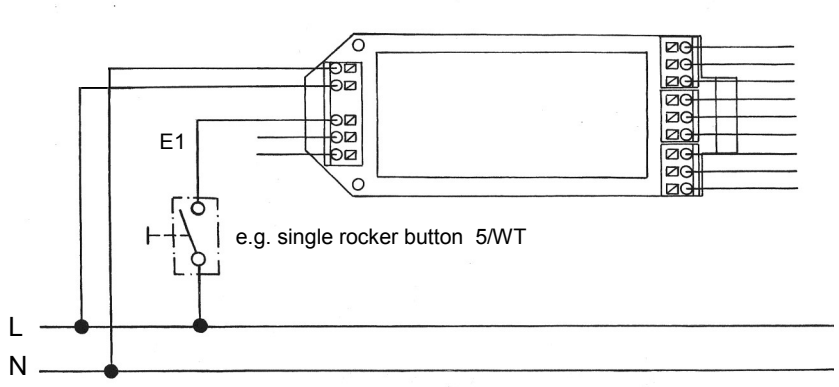


9 Connection of a switch e.g. 5/W
Observe the configuration code (DCC)!
e.g. in connection with all types of the fan type series Silvento.



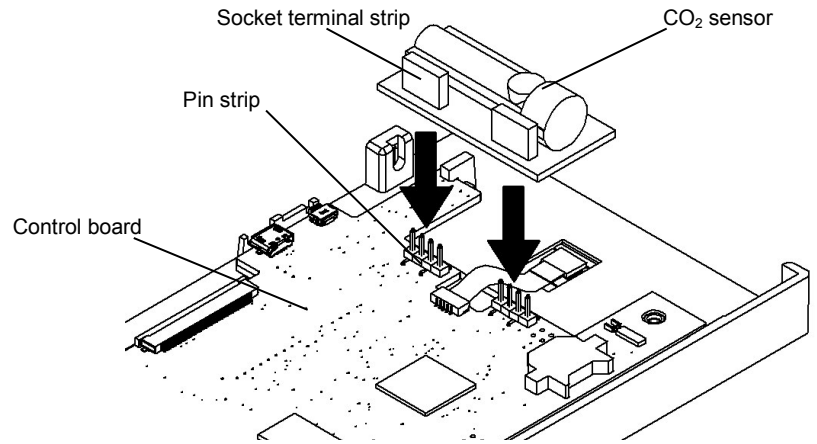
Note: When connecting a switch you can only switch **one fan stage** or **ON/OFF**!

(10) Connection of a push-button e.g. 5/WT
Observe configuration code (DCC)!
e.g. in connection with all types of the fan type series Silvento.



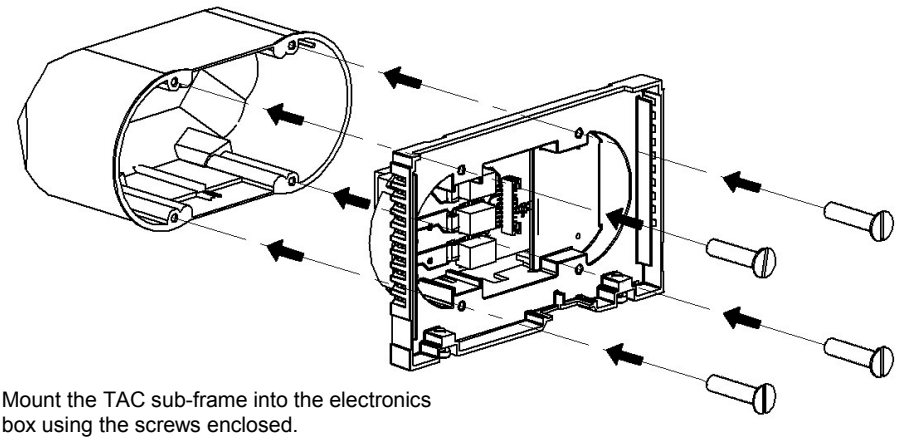
Note: When connecting a push-button you can switch **several fan stages** in series.

Assembly: CO_2 sensor type SCO_2 -TAC



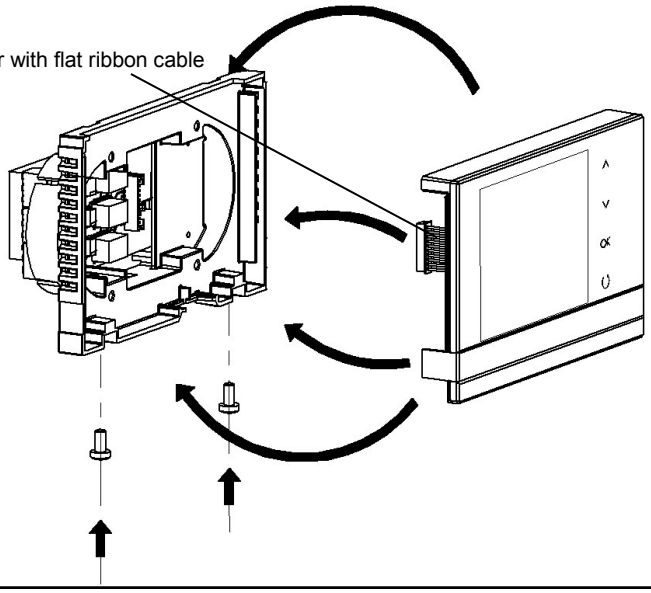
Push the CO_2 sensor with its two socket terminal strips onto the pin strips of the control board, as illustrated.

Final assembly

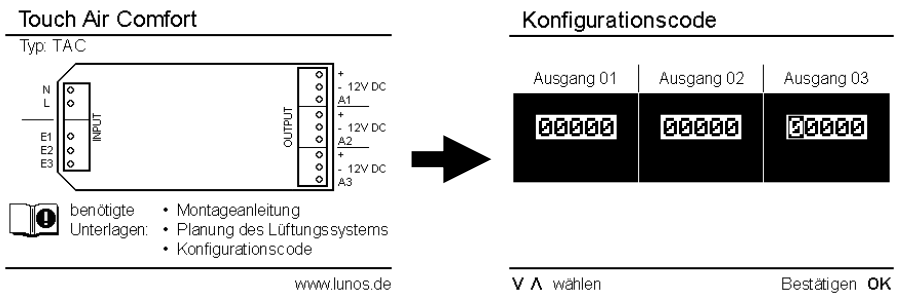


Mount the TAC sub-frame into the electronics box using the screws enclosed.

Connect the top piece and sub-frame to the connector positioned on a flat ribbon cable. Place the top piece on the sub-frame and connect these from underneath using the screws provided.



Commissioning

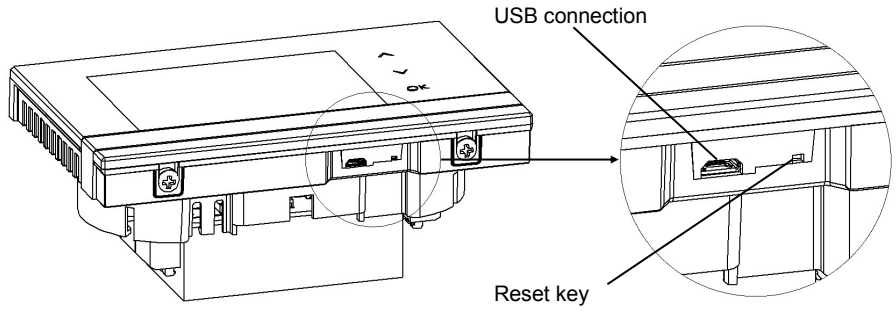


Apply the mains voltage. After the mains voltage has been connected, the display changes from the circuit diagram to the language selection. After the system language has been selected the display changes to the enter field of the configuration code. Enter the configuration code DCC (refer to plan) or generate the configuration code for your ventilation system with the aid of the planning tool (www.lunos.de) and confirm via “OK“ (press button for approx. 2 seconds). Check operation of the ventilation units connected in accordance with the plan. By pressing the button “↺“ (press for ca. 3 seconds) you cancel the operation without saving.

Changing the names of outlets

Via the configuration code you are provided with the standard term ‚Outlet 1', ‚Outlet 2' and ‚Outlet 3' for the fans connected to the respective outlet. If required, you can adjust this term to your specific needs and give names of the respective rooms to the outlets. This adjustment is easy to do via ‚intuitive' operation of the TAC:
Via the permanently displayed start screen (refer to the title page of this manual), you access the screen for the outlet to be changed via the key „V" (‚Outlet 1', ‚Outlet 2' or ‚Outlet 3'). Here you will find a line ‚Room Allocation' which you can access via the keys "V" and "Λ" and can activate via "OK". You will then see a screen in which you can change the preset names. You can delete these via "Delete' and can then select one or several names from those offered via "V" and "Λ" and confirm your decision via "OK". You can also number rooms with the same name e.g. Bathroom 1, Bathroom 2 etc. You can leave this screen and return to the start screen by actuating the key "↺" several times.

USB connection, firmware update and reset key



A USB connection and a reset key are located on the underside of the TAC. The USB connection is used for communication with the PC. To update the firmware you need to download the Update file (www.lunos.de). Connect the TAC and PC with the USB cable. Instructions for executing the update are included in each Update file. The reset button serves to enable a restart of the TAC in case of error.

Accessories

Universal Control 5/UNI-FT	Order No.: 040 089
Additional module 5/ACM	Order No.: 039 990
One-rocker switch 5/W	Order No.: 036 641
One-rocker push-button 5/WT	Order No.: 040 010
Two-rocker push-button 5/W2T	Order No.: 040 011
CO_2 Sensor SCO_2-TAC	Order No.: 040 000

Notes

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