Comfort Control TAC
Installation Instructions

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Concerning the Instructions

- Before executing installation work, please read these instructions carefully and fully! The general safety instructions and the safety symbols with instructions in the respective text must be observed.
- After completion of installation work, these instructions are to be passed on to the user (tenant, owner, building administration etc.).

Symbols in these instructions


This symbol warns of a risk of injury.


This symbol warns of risk of injury from electrocution.

Safety Instructions

Caution! The mains voltage must be completely disconnected before any installation work is carried out on the ventilation unit. The control element has protective insulation pursuant to Protection Class II, protective earth connection is not required!

Attention! Electric connections must only be executed by authorized staff pursuant current VDE 0100 regulations and requirements!

Attention! This unit must not be operated by children and persons (filter change/cleaning) who are not able to handle it safely on account of physical, sensoric or mental disability or on account of their inexperience of lack of know-how. Children should be supervised to ensure they do not play with the unit.

Attention! In the case of installation in connection with heat systems dependent on ambient 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

Packaging must be sorted before disposal. If you wish to dispose of the device, you must observe respective regulations. Information is available from your community waste management.

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

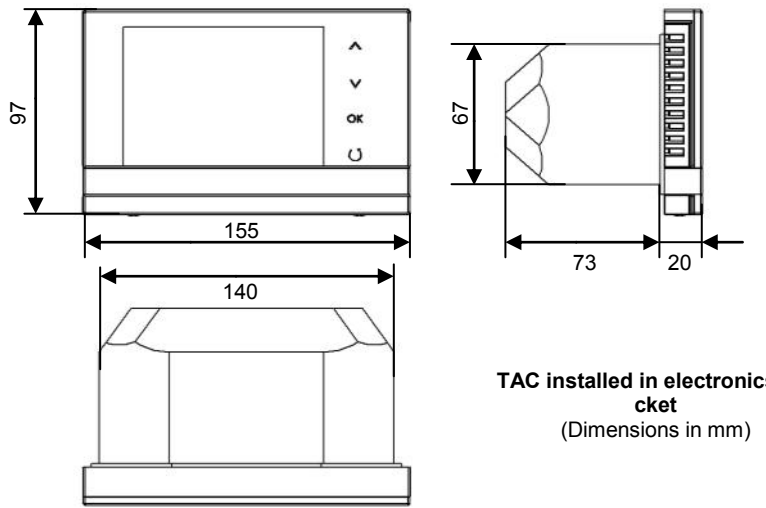
The TAC is fitted with a standard humidity/temperature sensor. A CO_2 sensor can also be purchased as an optional accessory.

Important:
The TAC has three inlets and three outlets. If required, you can connect switches or keys 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 in connection with the TAC you can only connect keys to the 5/UNI. You can trigger only one ventilation unit type respectively 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
e^2	Directly to 2 outlets	2 pairs
	via 1 x 5/UNI 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 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 to one outlet	1 unit with power supply 18 W or 2 units with power supply 60 W
Silvento 30-60 FK	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 or 5/ACM to one outlet is possible.

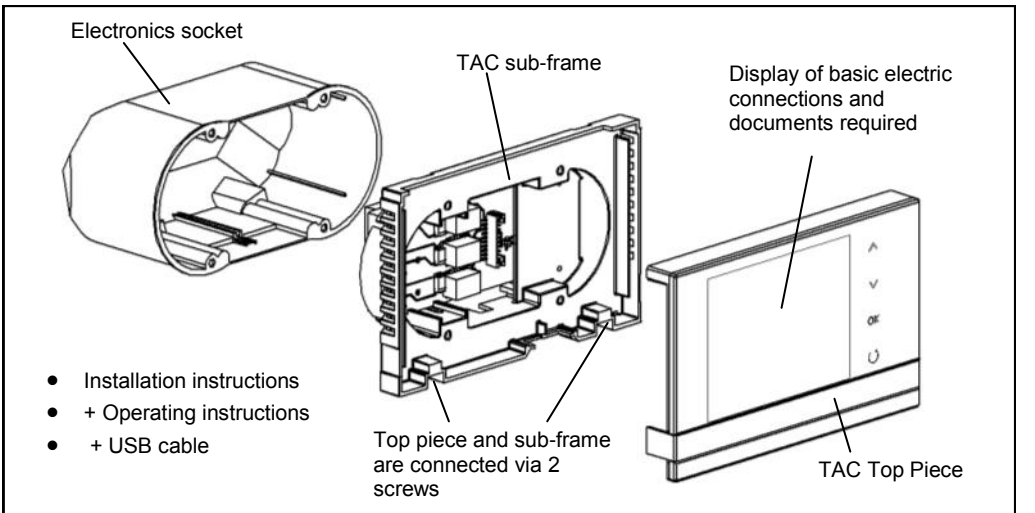
Dimension Drawing



TAC installed in electronics socket
(Dimensions in mm)

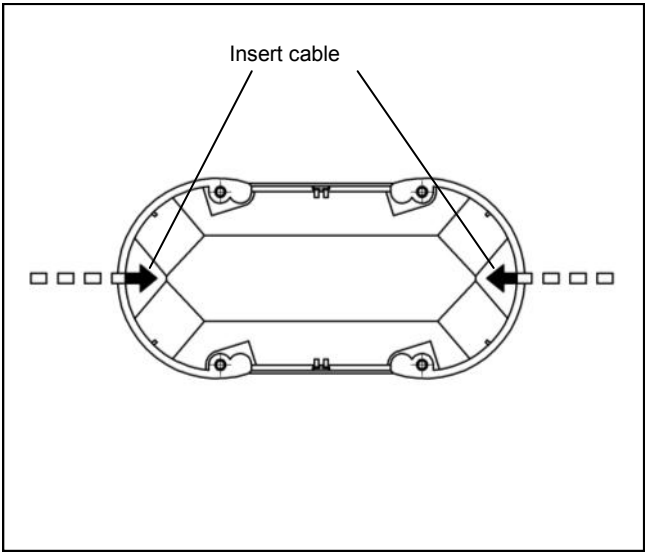
Shipment Unit

Please check the delivery to ensure it is complete and in perfect condition



Installation Provision Electronics Socket and Cable

Install the electronics socket 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 sub-frame 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).

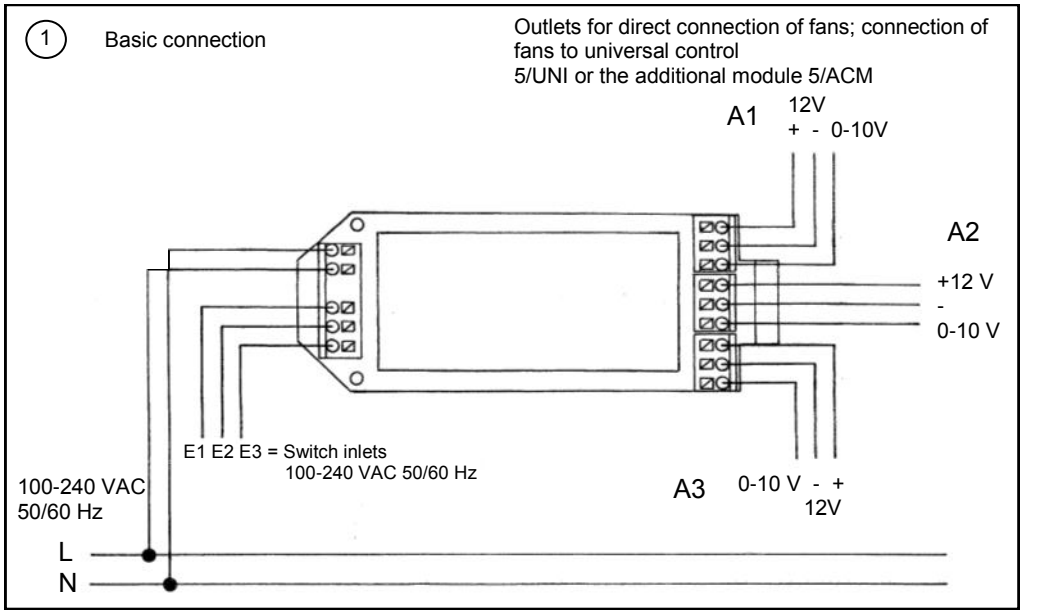
Each circuit connected to the fans must be fitted with residual current protection (e.g. RCD switch)!

All electrical connection work must be carried out by qualified specialists!

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

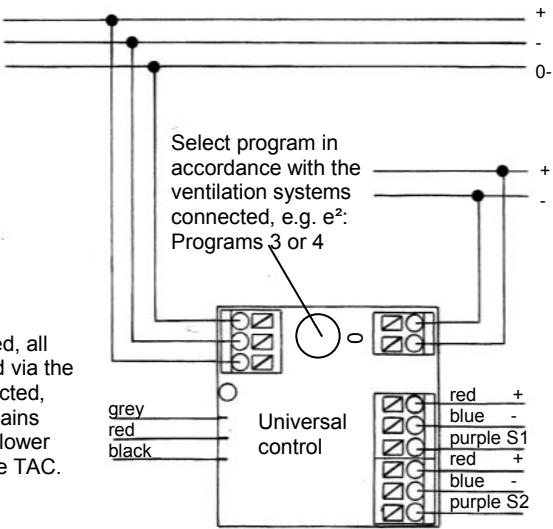
Use the following cables for electrical connections:

- 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 universal control
5/UNI or the additional module 5/ACM
A1
12V
+ - 0-10V
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 - +
12V
L
N

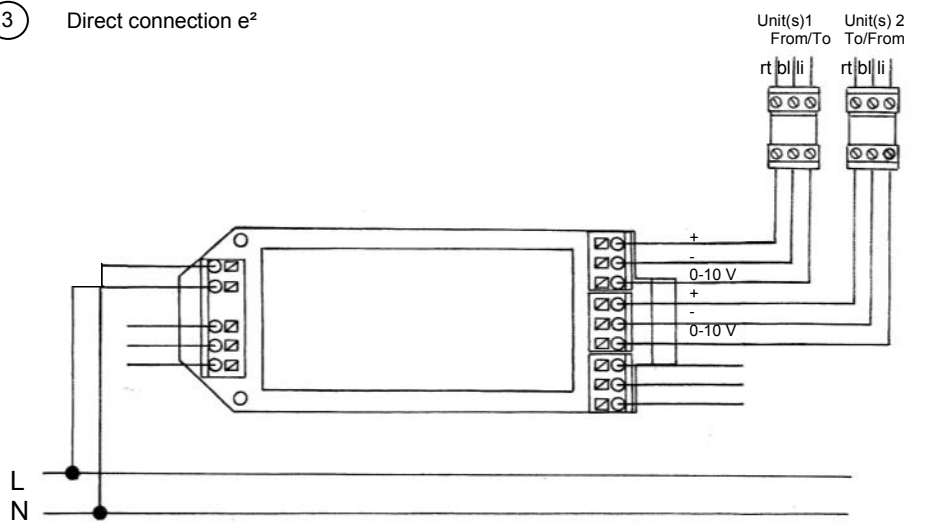
(2) Conversion to universal control 5/UNI

Note: for connection of ventilation units to universal control, also refer to Installation Instructions for Universal Control

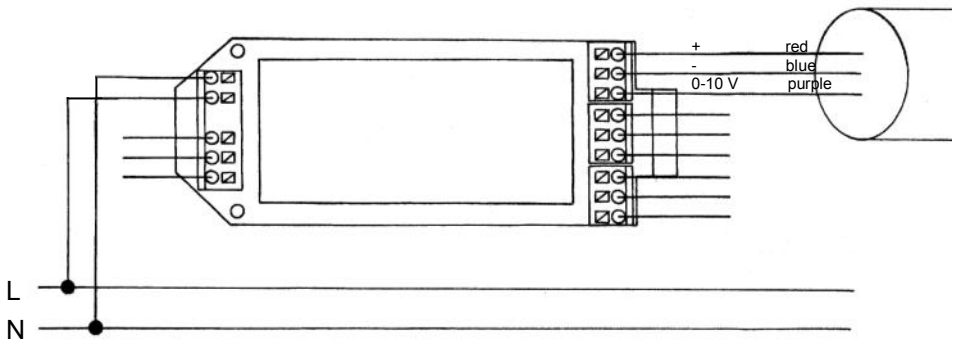


If a key is not connected, all functions are controlled via the TAC. If a key is connected, the stage selected remains active until a higher or lower level is switched via the TAC.

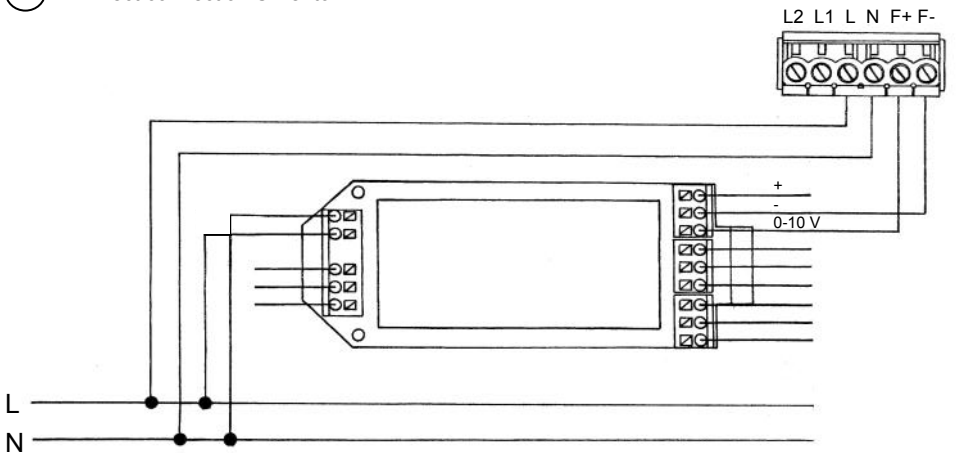
3 Direct connection e²



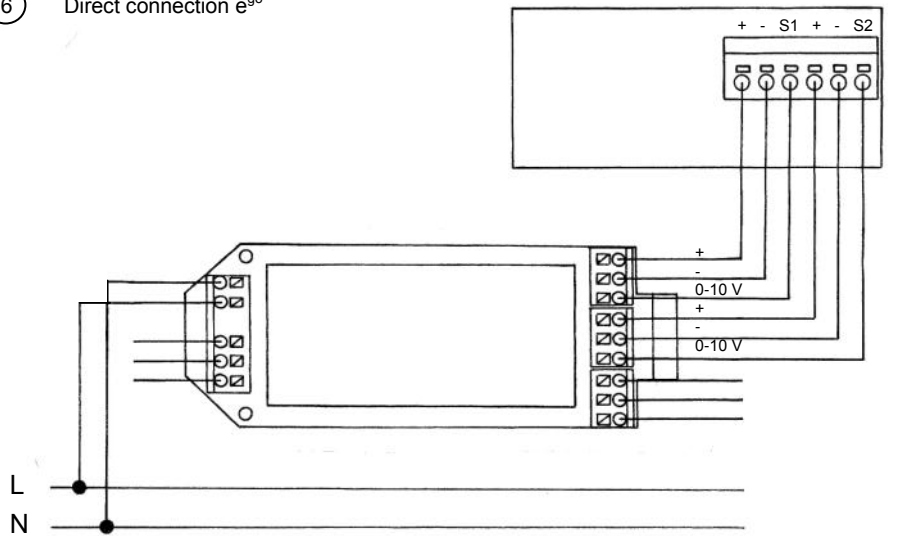
4 Direct connection RA 15-60



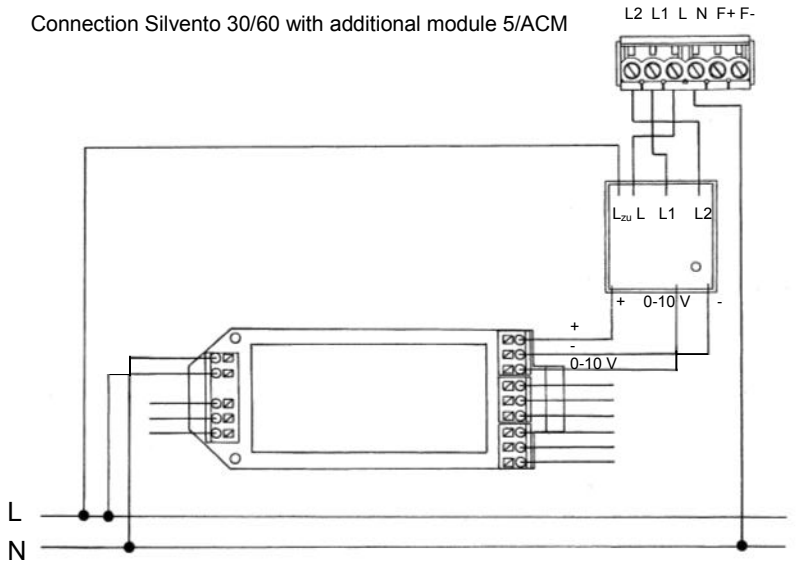
5 Direct connection Silvento FK



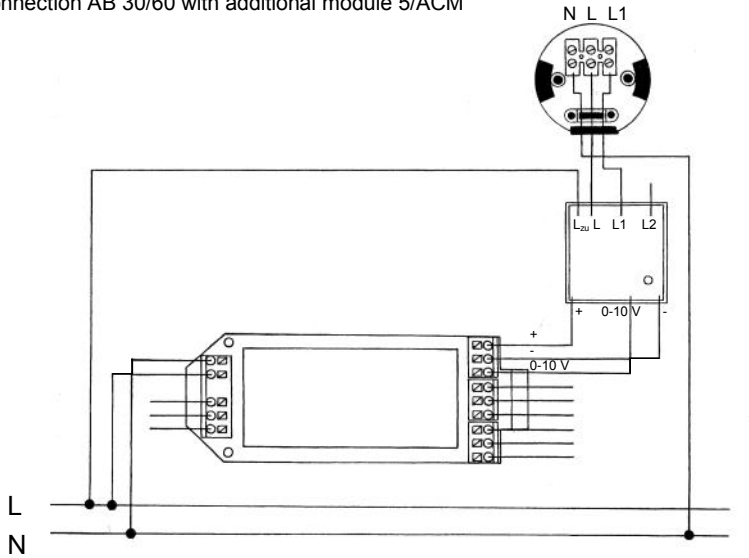
6 Direct connection e^go



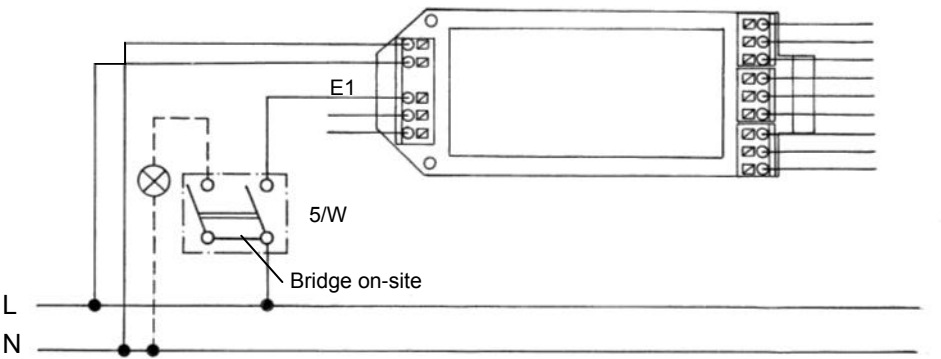
7 Connection Silvento 30/60 with additional module 5/ACM



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

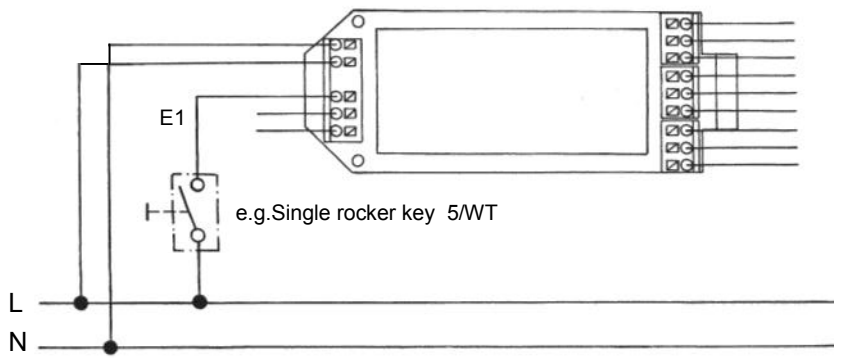


9 Connection of a switch e.g. 5/W
Check you have the configuration code (DCC)!
e.g. in connection with all types of the fan type series, Silvento.



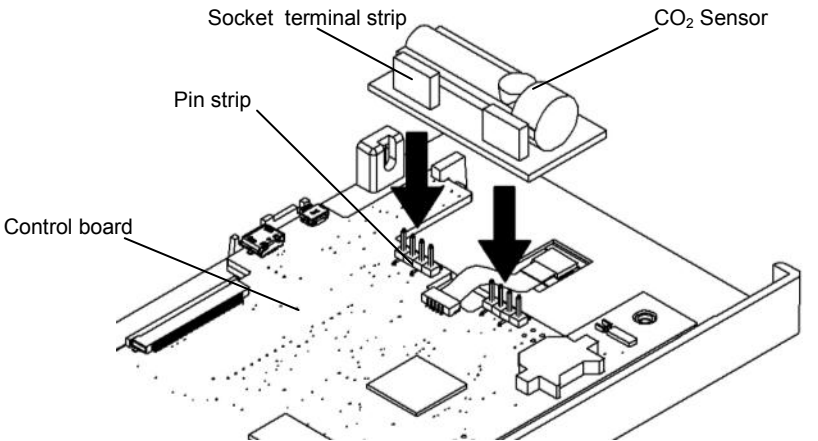
Note: On connecting a switch you can only switch **one fan stage or ON/OFF**!

(10) Connection of a key e.g. 5/WT
Check you have the configuration code (DCC)!
e.g. in connection with all types of the fan type series, Silvento.



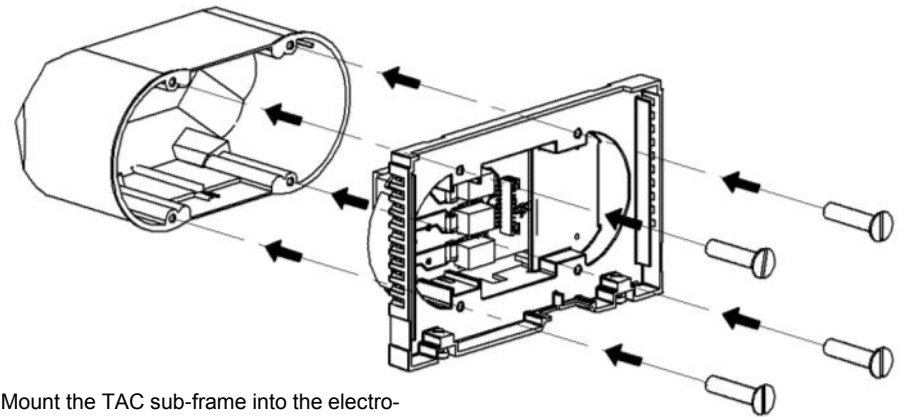
Note: When connecting a key you can switch **several fan stages** in series!

Installation of the CO_2 Sensor Type SCO_2-TAC



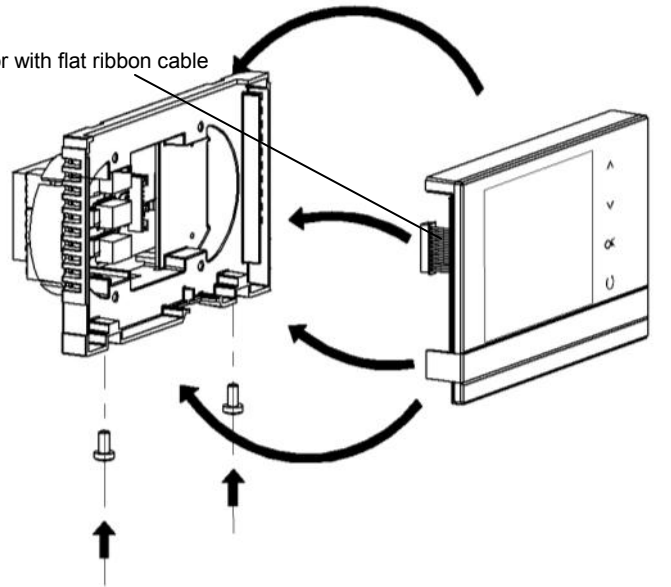
Push the CO_2 sensor with its two socket terminal strips onto the pin strips of the control board, as illustrated.

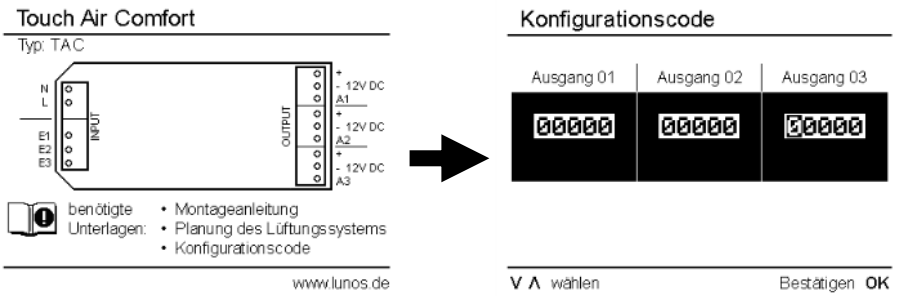
Final Installation



Mount the TAC sub-frame into the electronics socket 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.



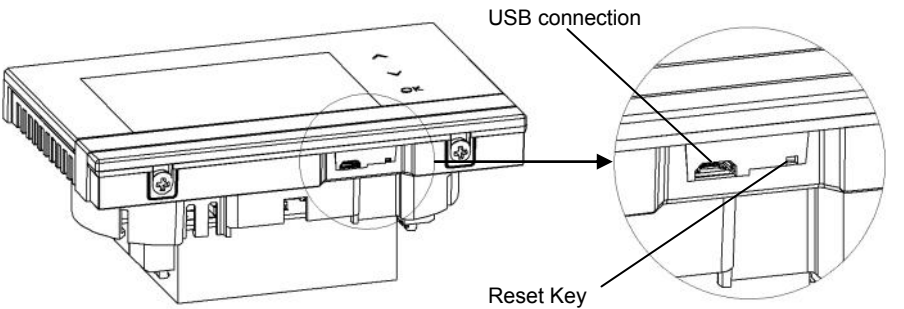


Apply the mains voltage. After mains voltage has been activated, the display changes from the circuit diagram to the enter field of the configuration code. Enter the configuration code DCC (refer to plan) or generate the configuration code for your ventilation system with the aid of the planning tool (www.lunos.de) and confirm via „OK“ (press key for approx. 2 seconds). Check operation of the ventilation units connected in accordance with the plan.

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 simple to execute via ‚intuitive' operation of the TAC:
Via the permanently displayed start screen (refer to the title page of these instructions), 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 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 under-side of the TAC. The USB connection is used for communication with the PC. To update the firmware you have 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	Order No..: 039 975
Additional module 5/ACM	Order No.: 039 990
Single rocker switch 5/W	Order No.: 036 641
Single rocker key 5/WT	Order No.: 040 010
Twin rocker key 5/W2T	Order No.: 040 011
CO_2 Sensor SCO_2-TAC	Order No.: 040 000

Notes

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