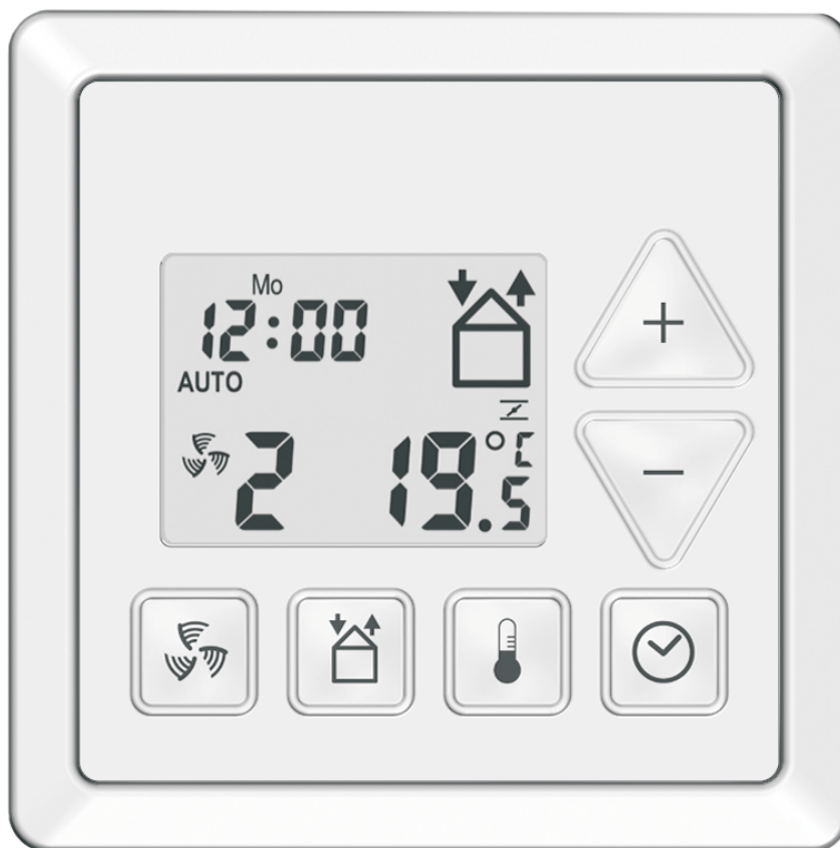


Operating unit

Plastic film keyboard

for santos (F) 370 DC



Instruction manual
Please keep close to the device!

Status: 09.09
Version:
v2 santos370_v3.2

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Part B Appendices

Appendix 1 Terminal connection plan santos (F) 370 DC left hand side version with BDE plastic film keyboard

Appendix 2 Terminal connection plan santos (F) 370 DC right hand side version with BDE plastic film keyboard

1 Available operating aids

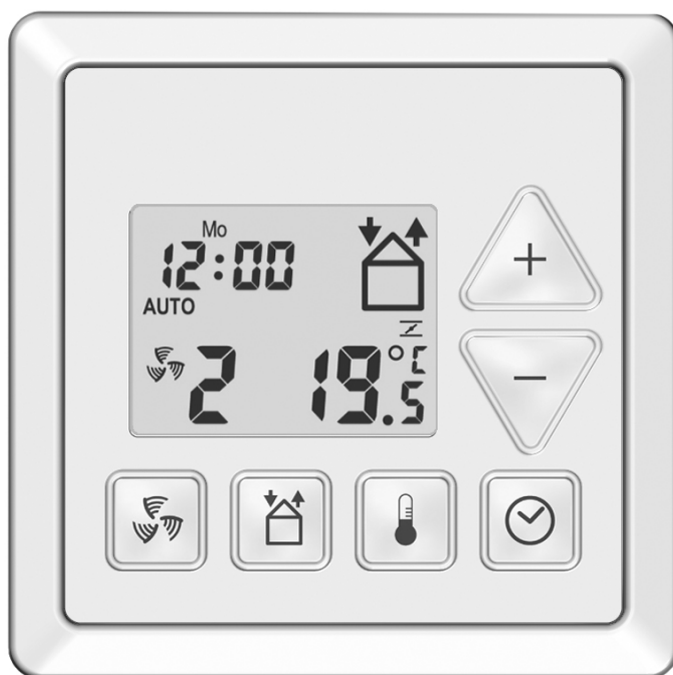
The WRG santos (F) 370 DC, described as santos 370 DC in the text, can be equipped with the following operating aids:

- Plastic film keyboard of santos 370 DC .
- Multiple-contact switch (basic design) for setting the fan speeds.
- Bathroom switch (option) for temporary setting of the highest fan speed.

A detailed description of the operating unit, plastic film keyboard follows in the sections below.

1.1 Operating unit, plastic film keyboard

The plastic film keyboard is mounted on the wall in a room as an operating unit and communicates from there with the santos 370 DC.



The following overview briefly describes what information can be read.



Various keys are provided on the plastic film keyboard for operating and setting the santos 370 DC. These keys are explained below.



This key allows you to switch to the highest ventilation setting..

- Press for longer than 2 seconds → Temporary high setting ON.



This key is used to switch the feeding in and/or letting out of air on or off.

- Press once → SUPPLY OFF (and EXHAUST ON).
- Press twice → EXHAUST OFF (and SUPPLY ON).
- Press 3 times → SUPPLY and EXHAUST both ON.



You can read or set the comfort temperature with this key.

- Press less than for 1 second → READ.
- Press more than for 1 second → SET.



This key is used to switch from AUTO to MANUAL ventilation.

- Press less than for 2 second → set the ventilation program.
- Press more than for 2 second → set the date and time.



You can set two functions with these keys.

- In P menu → Set values.
- In main screen → Enter ventilation setting (A, 1, 2, 3)

1.2 Using the plastic film keyboard

The following functions can be set with the plastic film keyboard:

- Reading and setting of date and time.
- Reading and setting of comfort temperature.
- Reading and setting of the fan speed.
- Switching the incoming and outgoing air ventilator on and off.
- Setting your own ventilation program.
- Setting additional ventilation regulators/options in the P menu.

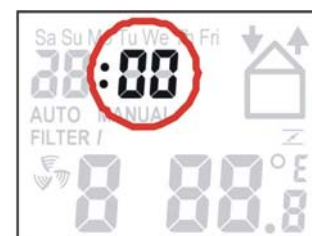
These functions are briefly detailed in the following sections.

1.2.1 Setting date and time

- Date and time can be set using the plastic film keyboard.

Proceed as follows:

1. **Press** the following button for two seconds „“.
2. **Wait** till the day, e.g. „Sa“ blinks.
3. **Select** the right day with „“ or „“.
4. Now **press** short „“.
5. **Wait** till the hours, e.g. „12“ blink.
6. **Select** the right hour with „“ or „“.
7. Now **press** short once again „“.
8. **Wait** till the minutes, eg. „00“ blink.
9. **Select** the right minutes with „“ or „“.
10. **Press** this button „“ to leave the menü.



1.2.2 Read and set the comfort temperature

- The comfort temperature can be read and set

using the plastic film keyboard.

The comfort temperature is the temperature at which the santos 370 DC:

- uses the heat exchanger for heat recovery;
- switches on the by pass (and thus avoids the heat exchanger) to (temporarily) stop heat transmission between outgoing and incoming air.

You can read the comfort temperature but also set the desired temperature. The santos 370 DC will then retain this temperature after setting, automatically, if possible. Generally, the comfort temperature corresponds to the temperature you have set on the room thermostat (temperature of your central heating system).

Reading the comfort temperature

Proceed as follows:

1. **Press** „“.
2. **Wait**, till the comfort temperature appears.
3. **Press** again (short) „“, to leave the menu.



You will leave the menu automatically after 30 seconds without pressing.

Setting the comfort temperature

Proceed as follows:

1. **Press** for two seconds „“.
2. **Wait** till the comfort temperature, e.g. „20.0“ blinks.
3. **Select** the desired comfort temperature with „“ or „“.
4. **Press** again (short) „“, to leave the menu.



1.2.3 Read and set the fan speed

- The fan speed can be read and set

using the plastic film keyboard

Reading the fan speed

The current fan speed, for example „2“ is displayed on the plastic film keyboard display in series. The santos 370 DC usually regulates the required fan speed automatically. „AUTO“ appears on the plastic film keyboard display during automatic ventilation.

Besides showing the programmed ventilation setting, the CC Ease panel also displays whether a temporary control system (such as a CO2-sensor or a bathroom switch) is overriding the ventilation setting. In the event a required ventilation setting is being overridden by a time delay function (such as the bathroom switch deactivation delay), a 't' is displayed in the bottom right-hand corner of the plastic film keyboard. In the event a required ventilation setting is being overridden by a signal from a sensor (such as a CO2-sensor), an 'A' is displayed in the bottom right-hand corner of the CC Ease panel.



Setting the fan speed

You can also set the fan speed manually and increase or decrease it in this way. You have a choice of 4 fan speeds. They are:

- Level A → Absent.
- for use during absence.



In level A, the living area is ventilated at the prescribed minimum speed.



If you set level A on the plastic film keyboard, other 3 point switches can probably not be used.

- | | | |
|---------|---|---|
| Level 1 | → | Low speed.
- Use for low ventilation requirement. |
| Level 2 | → | Normal speed.
- Use for normal ventilation requirement. |
| Level 3 | → | High Speed.
- Use this speed when cooking, showering and if additional ventilation is desired. |

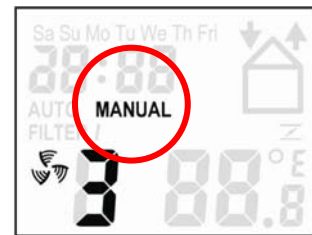


The santos 370 DC operates according to the highest fan speed set as far as ventilation is concerned, unless the automatic software control has been set otherwise.

You can set the fan speed as follows:

1. Press „+“, to increase the fan speed.
2. Press „-“, to decrease the fan speed.

During manual ventilation the plastic film keyboard will not display "AUTO" but "MANUAL"..



3. Press „“, to return to automatic ventilation.



1.2.4 Switching temporary High on

1. Press „“ longer than 2 seconds.
2. Wait until '3t' appears.



1.2.5 Setting the operating type

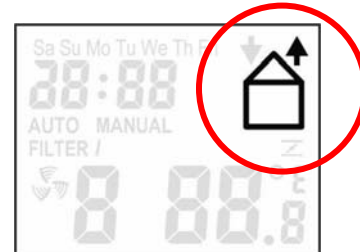
The following operating types can be set using the plastic film keyboard:

- Supply air and exhaust air
- Only supply air
- Only exhaust air

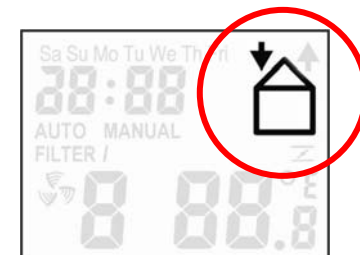
Proceed as follows for this purpose:

1. Press „“, once to switch off the supply air ventilator.

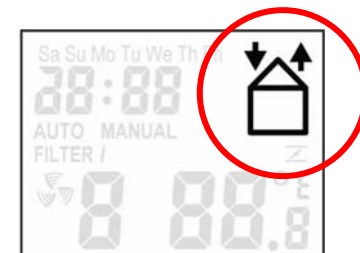
You can use this speed when the windows are open in the summer. The fresh air then does not flow into the house through the supply air valves any longer, but is drawn in through the open windows.



2. Press „“, twice to switch off the exhaust air ventilator (and simultaneously) switch the supply air ventilator on again.



3. Press „“, 3 times to switch the supply air and exhaust air ventilators on again.



Bear in mind that switching off the supply or exhaust fan will temporarily immobilize your balanced ventilation system.

1.2.6 Setting the ventilation programme

- You can set your own ventilation program

using the plastic film keyboard.

A standard ventilation program was set on the santos 370 DC during manufacturing.

This ventilation program offers a suitable ventilation process for most living areas. However, you can change this standard ventilation program, if you wish, and adapt it to your own requirements for ventilation, to a weekday and weekend program, for example.

You can modify/set the ventilation program as follows:

- Press the following buttons at the same time for two seconds „“ and „“.



This only functions if the ventilation mode is set to „AUTO“!

- Wait until the ventilation program appears.

- Program the desired days or a series of days.

Select the desired day/days with „“ or „“

You have the following choices:

Series of days: “SaSu”.

Series of days: “MoTuWeThFri”.

Series of days: “SaSuMoTuWeThFri”.

Individual days: “Sa”, “Su”, “Mo”, “Tu”, “We”, “Th” and “Fri”.



- Program the starting time of the desired fan speed.

Press „“.

Wait until the ventilation setting is flashing in the bottom right-hand corner.



Select the desired ventilation setting using by pressing „“ or „“.

Press „“, to confirm the setting point.

- Program the start time of the desired ventilation level

Select the desired time in hours with „“ or „“.

Press „“.

Wait till the minutes appear on the screen.

Select the required time in minutes with „“ or „“.

Press „“ again.

Wait till the ventilation setting flashes.

Select the desired ventilation level using „“ or „“.

Press „“, to confirm the ventilation program.



6. **Program** the next ventilation program if required.
Repeat the steps 1 to 5 for the next ventilation program.

1.2.7 Set additional regulators using the P-Menus

Some P menus in the plastic film keyboard can be used to:

- Read the status of various ventilation programmes
- Set time delays for various ventilation programmes on/off
- Set time delays for various ventilation programmes



In the P-menus, the user can:

- only set the additional regulators P1, P2 and P9 . The other P-menus, P3 to P8 can only be used by the installer.

Access to the P menus

Proceed as follows:

1. **Press** simultaneously on „“ and „“.
2. **Wait** till „P-menu“ appears on the display.
3. **Select** the desired P menu, e.g. „2“ with „“ or „“.
4. **Press** „“, to confirm the P-menu.
5. **Select** the desired P sub-menu, e.g. „23“ with „“ or „“.
6. **Press** „“, to confirm the P sub-menu.



Execute settings in the P-menu

Proceed as follows:

7. **Select** a new value for regulation with „“ or „“.
8. **Press** „“, to save the value.
9. **Repeat** steps 3 to 6 and then step 7 to set several ventilation regulators one after the other.



The minimum and maximum values for the available ventilation regulators are stipulated in the software.



Return to the main window

Proceed as follows:

10. **Press** 2 seconds on „“.



Menu P1 → Status of programmes

		Ventilation programmes
Sub-menu	Description	Activated / Not activated
P10	Menu 20 presently active?	Yes (1) / No (0)
P11	Menu 21 presently active?	Yes (1) / No (0)
P12	Menu 22 presently active?	Yes (1) / No (0)
P13	Menu 23 presently active?	Yes (1) / No (0)
P14	[Not available]	
P15	Menu 25 presently active?	Yes (1) / No (0)
P16	Menu 26 presently active?	Yes (1) / No (0)
P17	[Not available]	
P18	[Not available]	
P19	[Not available]	

Menu P2 → Setting time delays

		Time delay values		
Sub-menu	Description	Minimum	Maximum	Standard
P20	[Not available]			
P21 (Option)	- Low voltage input Activation delay for the bathroom switch (to switch to high position). •'x' minutes after operating the bathroom switch, the santos 370 (F) DC switches to the HIGH LEVL. Please note: Only for units with wired switches and only, if your unit is equipped with a second point switch in the bathroom.	0 Min.	15 Min.	0 Min.
P22 (Option)	- Low voltage input Activation delay for the bathroom switch (to switch to high position). •'x' minutes after operating the bathroom switch, the santos 370 (F) DC switches to the NORMAL LEVEL. Please note: Only for units with wired switches and only, if your unit is equipped with a second point switch in the bathroom.	0 Min.	120 Min.	30 Min.

P23 (Option)	Deactivation delay for ventilation position 3. • If ventilation setting 3 (high) is switched on briefly (< 3 sec), the ComfoD remains at ventilation setting 3 in accordance with the time set in this menu. Please note: Only applies to systems fitted with a corded switch.	0 Min.	120 Min.	30 Min.
P24	Filter warning. Here the user can indicate when the "FILTER DIRTY" alert must appear.	10 weeks	26 weeks	16 weeks
P25	[Not available]			
P26	[Not available]			
P27 (Option)	Time for the temporary high setting.  After pressing " " continuously (>2 sec.), the ComfoD runs at the high setting for 'x' minutes and then automatically returns to the programmed setting.	0 Min.	120 Min.	30 Min.
P28	[Not available]			
P29	[Not available]			

Menü P9 → Status of the regulators (from menu P5)

		Ventilation regulators
Sub-menu	Description	Activated/not activated
P90	Open fire programme active?	Yes (1) / No (0)
P91	By pass open (=yes) / closed (=no)??	Yes (1) / No (0)
P92	[Not available]	
P93	[Not available]	
P94	0 – 10 V programme active?	
P95	Frost protection active?	Yes (1) / No (0)
P96	[Not available]	
P97	Enthalpy programme active?	Yes (1) / No (0)

1.2.8 Clean or replace filters

The santos 370 DC has been equipped in series with two internal filters. As soon as the relevant indication appears in the display of the plastic film keyboard, you must clean or replace the filters.

“ FILTER / ” → The internal filters (/) must be cleaned or replaced.

The above filter indication then appears on the plastic film keyboard display.

1. Press “  ” on the plastic film keyboard or “OK” on the display until the filter alert disappears.
2. Unplug the santos 370 DC
3. Filter changes in accordance with manual santos 370 DC would drive through
4. Plug the santos 370 DC back in.



The internal filters are supplied with the santos 370 DC in series. External filters are a part of the air duct system of the ventilation unit and should also be checked at the same maintenance intervals and changed if required.



Disconnect from mains before cleaning/changing the filters.



Connect to mains again after cleaning/changing the filters and press „  “ to delete the displayed filter message.

1.3 Malfunctioning

1.3.1 Report of malfunctioning on the display

A malfunction code appears on the plastic film keyboard display if there is malfunctioning. The display then always shows an ‚A‘ or an ‚E‘ code with corresponding numbers behind it. You can look up what the report of malfunctioning signifies using the guide to malfunctioning in § 2.4.1.



1.3.2 What to do in case of malfunctioning?

Please contact the installer in cases of malfunctioning. Note the malfunction code that appears on the display screen of the plastic film keyboard. Also make a note of your santos 370 DC type. See the identification plate on the top side of the santos 370 DC for this purpose.



A mains connection must always be established, unless the santos 370 DC has to be shut down due to serious malfunctioning, filter cleaning and replacement or any other mandatory reason. If the mains supply is disconnected, the living area would not be mechanically ventilated any more, which could result in long term moisture and mould problems in the living area. Try to avoid switching off the santos 370 DC for longer periods at all costs.

2 Instructions for the installer

This chapter describes how to install the santos 370 DC.

2.1 Starting up the santos 370 D

The santos 370 DC can be started up after installation.

Starting up can take place with the P-menus using the plastic film keyboard. Different settings (especially ventilation controls) can be selected for the santos 370 DC in these P-menus. Below is an overview of the available P-menus:

Menu	Possibilities
P1	Reading the status (from menu P2)
P2	Setting time delays (and message „FILTER DIRTY“ as well as setting values for sensors)
P3	Setting the ventilation levels
P4	Reading the temperatures
P5	Setting additional programmes
P6	[Not available]
P7	Reading and resetting of malfunctions (and system info)
P8	Setting 0 -10V inputs
P9	Reading the status (from menu P5)

The P menus, P1, P2 and P9 are accessible for the user and mainly serve the purpose of reading the status and setting time delays. For more detailed information on this, see § 1.2.7. The other P-menus, P3 to P7 can only be used by the installer.

 **In the P-menus, the user can:**

- only set the additional controls P1, P2 and P9. The remaining P-menus, P3 to P7 can only be used by the installer.

2.2 Access to the P-menus

Proceed as follows:

1. Press simultaneously on „“ and „“.
2. Wait till „P-menu“ appears on the display.



 **P menus P1, P2 and P9 can now be accessed.**

3. Press and hold „“ and „“ for 2 seconds simultaneously.
4. Wait until „P-menu“ P3 appears on the display.



 **P menus P3 to P8 can be accessed.**

5. **Select** with „“ or „“ the desired P-menu, e.g. “5”.
6. **Press** „“, to confirm the P-menu.



7. **Select** with „“ or „“ the desired P-sub-menu, e.g. “51”.
8. **Press** „“, to confirm the P-sub-menu.



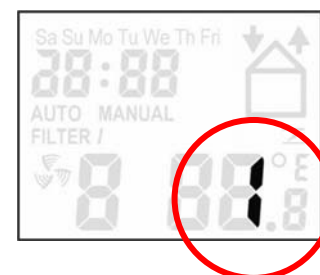
Entering settings in the P-menus



The minimum and maximum values for the setting parameters have been stipulated in the software.

Proceed as follows:

9. **Select** a value for the parameter with „“ or „“.
10. **Press** „“, to confirm the value.
11. **Repeat** steps 5 to 8 and then step 9 to set several parameters one after the other.



Return to the main window

Proceed as follows:

12. **Press** twice on „“.



Menu P3 → Setting the ventilation regulators

Sub-menu	Description	Values for ventilation regulators		
		Minimum	Maximum	Standard
P30	Setting the capacity (in %) of the exhaust fan in ABSENT POSITION.	0% or 15%	97%	nL / HL 15% / 15%
P31	Setting the capacity (in %) of the exhaust fan in LOW POSITION.	16%	98%	nL / HL 35% / 40%

P32	Setting the capacity (in %) of the exhaust fan in MEDIUM POSITION.	17%	99%	nL / HL 50% / 70%
P33	Setting the capacity (in %) of the exhaust fan to HIGH.	18%	100%	nL / HL 70% / 90%
P34	Setting the capacity (in %) of the supply fan to ABSENT.	0% or 15%	97%	nL / HL 15% / 15%
P35	Setting the capacity (in %) of the supply fan in LOW LEVEL MODE.	16%	98%	nL / HL 35% / 40%
P36	Setting the capacity (in %) of the supply fan in MEDIUM LEVEL MODE.	17%	99%	nL / HL 50% / 70%
P37	Setting the capacity (in %) of the supply fan in HIGH LEVEL MODE.	18%	100%	nL / HL 70% / 90%
P38	Current capacity (in %) of the exhaust fan.	-	-	Current value %
P39	Current capacity (in %) of the supply fan.	-	-	Current value %

Menu P4 → Reading the temperatures

		Reading temperatures (% and ppm)		
Sub-menu	Description	Minimum	Maximum	Standard
P40	[Not available]			
P41	Comfort temperature	12 °C	28 °C	20 °C
P44	[Not available]			
P45	Current value of T1 (= Outside air temperature)	-	-	Current value °C
P46	Current value of T2 (= Supply air temperature)	-	-	Current value °C
P47	Current value of T3 (= Extraction air temperature)	-	-	Current value °C
P48	Current value of T4 (=Exhaust air temperature)	-	-	Current value °C
P49	[Not available]			

Menu P5 → Setting additional controls

Sub-menu	Description	Values for additional controls		
		Minimum	Maximum	Standard
P50	Activation of the open fire programme.	0 (= No)	1 (= Yes)	0
P51	[Not available]			0
P52	[Not available]			
P53	[Not available]			
P54	By pass available. Please note: The santos (F) 370 DC has been fitted with a by pass in series. Leave the value at ,1'.	0 (= No)	1 (= Yes)	1
P55	[Not available]			
P56	Setting of the required amount of air for the living area. nL: „normal air quantity“. HL: „high air quantity“. Please note: The setting of air quantity in P56 (to „nL“ or „HL“) forms the basis for setting the air specifications and thus for setting the ventilators. For more detailed information, see § 2.2 and P30 to P37.	nL	HL	HL
P57	Setting of the santos 370 DC type. Le = Left hand side version. Ri = Right hand side version. Please note: The santos 370 DC is correctly set ex works. Also see the identification plate for this data.	Le	Ri	Li
P58	[Not available]			
P59	Indicate existence of a membrane-moisture-heat-exchanger. Please note: If an enthalpy exchanger without a sensor is selected, then the enthalpy programme will not be activated and malfunction alerts EA1 & EA2 will never occur.	0 (= No)	1 (=Yes) * 2 (=Yes)**	0

* 1 (=Yes) corresponds to the membrane moisture heat exchanger **with** humidity sensor

** 2 (=Yes) Membrane moisture heat exchanger **without** moisture sensor

Menu P6 → [Not available]
Menu P7 → Reading of malfunctioning (and system info)

		Values for (malfunctioning) info		
Sub-menu	Description	Minimum	Maximum	Standard
P70	Current software version.	Software version number (without „V“)		
P71	Most recent malfunction.	Code conforms to alarm and malfunctioning message (see § 2.4)		
P72	Instance of malfunctioning before the last one.	Code conforms to alarm and malfunctioning message(see § 2.4)		
P73	Instance of malfunctioning before the next to last one.	Code conforms to alarm and malfunctioning message(see § 2.4)		
P74	Reset einer Störung des santos 370 DC.	0	1	0
P75	Vollständiger Reset. Press „🕒“, for 5 seconds to execute the full reset. All the original factory settings are set again after a complete reset.	0	1	0
	 After a complete reset the santos 370 DC asks you to reset „nl/HL“ (see P56) and „Le/Ri“ (see P57).  After a complete reset, all settings in menus P2 and P3 and the existing controls P5 and P6 must be reset.			
P76	Santos 370 DC self test.	0	1	0
	Explanatory note: The green LEDs of the plastic film keyboard light up one after the other and the 7 segments of the 3 return positions light up one after the other (or at the same time). Users must check themselves whether everything is functioning well, since the software cannot compile this information. Right after activating the self test the santos 370 DC switches to the highest level. The bypass valve also opens and closes right after activating the self test.			
P77	Resetting fi lter dirty counter	0	1	0
	Note: This resets the counter that triggers a dirty fi lter alert on the ComfoD. This allows the filter to be cleaned or replaced before the dirty fi lter alert appears.			

Menu P8 → Analogue controls

Sub-menu	Description	Values for (malfunctioning) info		
		Minimum	Maximum	Standard
810	Analogue input 1 0= not fitted 1 = fitted	0	1	0
811	0= controlling 1 = programming (analogue input 1)	0	1	0
812	set point analogue input 1 (programming)	0	100	50
813	min. setting analogue input 1	0	99	0
814	max. setting analogue input 1	0	100	100
815	0=positive analogue input 1 1=negative setting analogue input 1	0	1	0
816	read-out analogue input	0	100	-
820	Analogue input 2 0= not fitted 1 = fitted	0	1	0
821	0= controlling 1 = programming (analogue input 1)	0	1	0
822	set point analogue input 2 (programming)	0	100	50
823	min. setting analogue input 2	0	99	0
824	max. setting analogue input 2	0	100	100
825	0=positive analogue input 2 1=negative setting analogue input 2	0	1	0
826	read-out analogue input 2	0	100	-

2.3 Setting the air specifications

The santos 370 DC must be set after installation.

This can take place based on the air specifications of santos 370 DC provided above.

The standard settings for santos 370 DC, nL are:

Level - ABSENT	15%
Level - LOW	35%
Level - MEDIUM	50%
Level - HIGH	70%

The standard settings for santos 370 DC, HL, are:

Level - ABSENT	15%
Level - LOW	40%
Level - MEDIUM	70%
Level - HIGH	90%

Proceed as follows to set santos 370 DC (after installation):

Set santos 370 DC in the setting mode.

Press simultaneously, for two seconds, on „“ and „“.

Wait till „InR“ appears on the plastic film keyboard display.



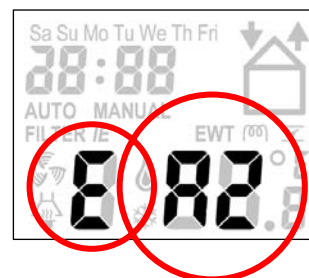
***The by pass is always deactivated in the setting mode.
After 30 minutes the santos 370 DC will automatically
switch off the settin mode again.***

2.4 Malfunctioning

When there is malfunctioning of the santos 370 DC:

a report of malfunctioning appears on the display of the plastic film keyboard in most cases.

However, not all reports of malfunctioning appear on the plastic film keyboard display, even if there is an instance of malfunctioning (or a problem). Both types of malfunctioning (or problem) are briefly explained in the following sections.



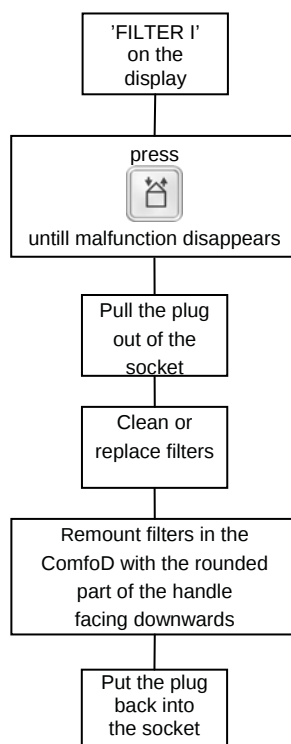
2.4.1 Reports of malfunctioning on the plastic film keyboard display

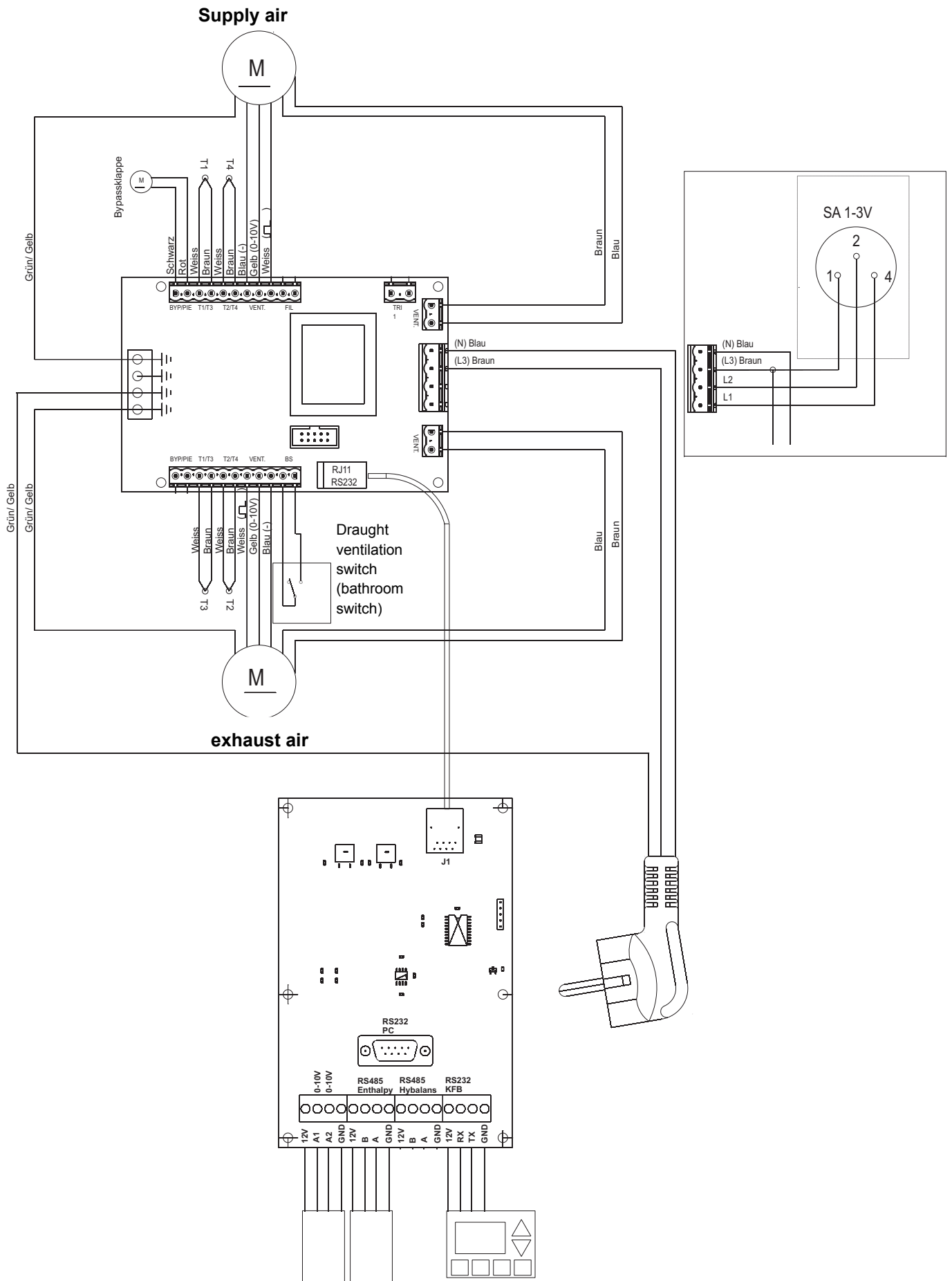
The following is an overview of reports of malfunctioning shown on the plastic film keyboard display.

Code	Description
A0	[Not available]
A1	NTC probe T1 is defective (= Outside air temperature)
A2	NTC probe T2 is defective (= Supply air temperature)
A3	NTC probe T3 is defective (= returning air temperature)
A4	NTC probe T4 is defective (= exhaust air temperature)
A5	Malfunctioning of the by pass motor.
A6	[Not available]
A7	[Not available]
A8	[Not available]
A10	[Not available]
A11	[Not available]
E1	Exhaust air ventilator is not running (M1).
E2	Supply air ventilator is not running (M2).
E3	[Not available]
EA1	Enthalpy probe measures too high moisture values.
EA2	No communication with the enthalpy probe.

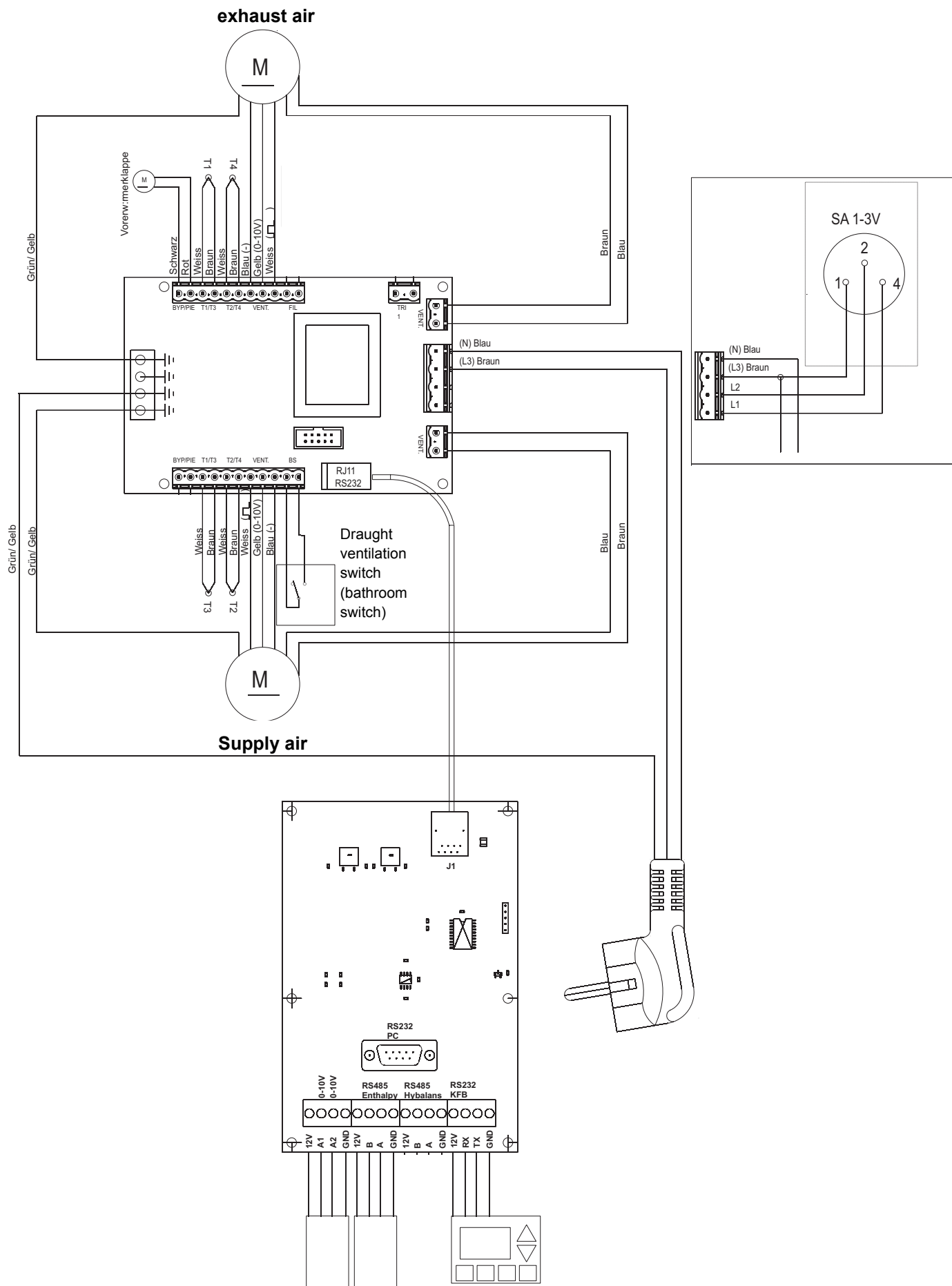
2.4.2 Reports of malfunctioning on the plastic film keyboard display → eliminate

Below are some tips for eliminating reports of malfunctioning from § 2.4.1, that are shown on the plastic film keyboard display when there are defects.





Appendix 1 Terminal connection plan santos (F) 370 DC, left hand side version with BDE plastic film keyboard



Appendix 2 Terminal connection plan santos (F) 370 DC right hand side version with BDE plastic film keyboard