Annex 17 for the User Manual

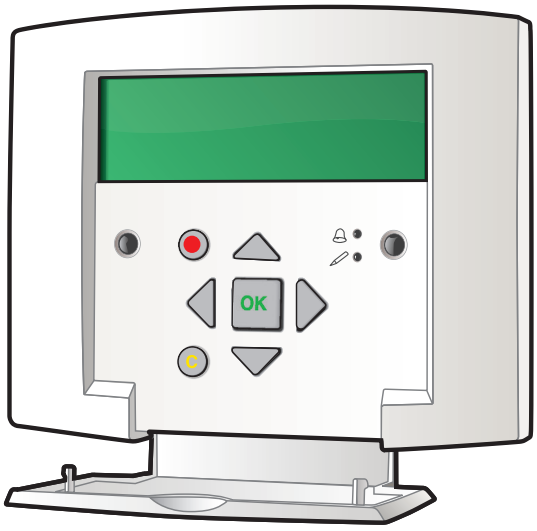
Systemair E28 Controller

Version 3.2 , 3.3 and 3.4

Operator's Guide

Danvent DV and TIME

Callender and temperature settings

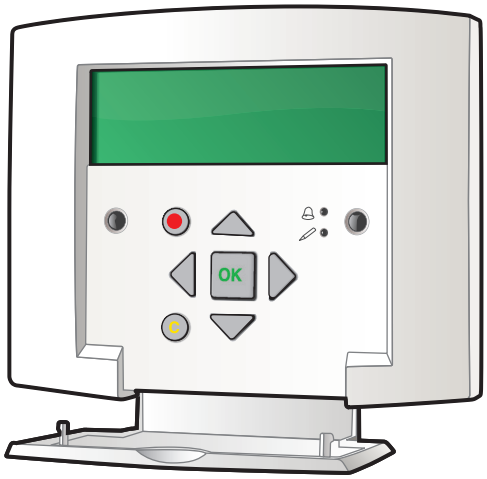


LEDs and buttons – navigating the menus – (change parameters) 2
Operator's level - tree structure 3
Running mode – Auto/On/Off 3
Alarm – cancel, acknowledge 4
Setting of temperature 5
Modification of outdoor compensated supply temperature 5
Setting of flows - Flow control 6
Setting of flows - Pressure control 7
Schedule settings 8
Calender settings (time, date, weekday) 8
Setting of holidays 9
Setting of extended running 9
Setting of min/max supply air temperature 10
Restore Systemair factory settings or latest user parameters and settings 11

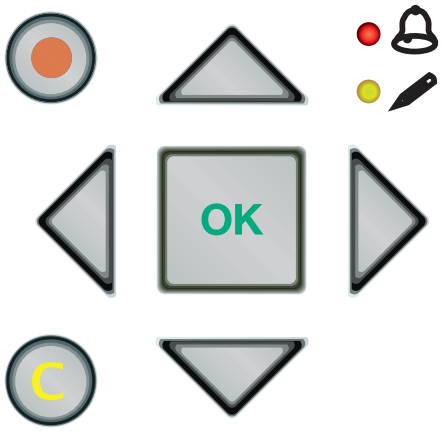
Part number 90925377

systemair

LEDs and buttons – navigating the menus – (change parameters)



Hand terminal – Systemair Control Panel



LED's and buttons

UP:
Move to a higher menu line
(Increase value of the parameter)

DOWN:
Move to a lower menu line
(Decrease value of the parameter)

RIGHT:
Move right to a lower menu level
(Move the curser to the right in the parameter)

LEFT:
Move left to a higher menu level. (Move the curser to the left in the parameter)

OK/ENTER: Open/activate a selected menu/setting
(Confirm a parameter value)

ALARM: Press for alarm list

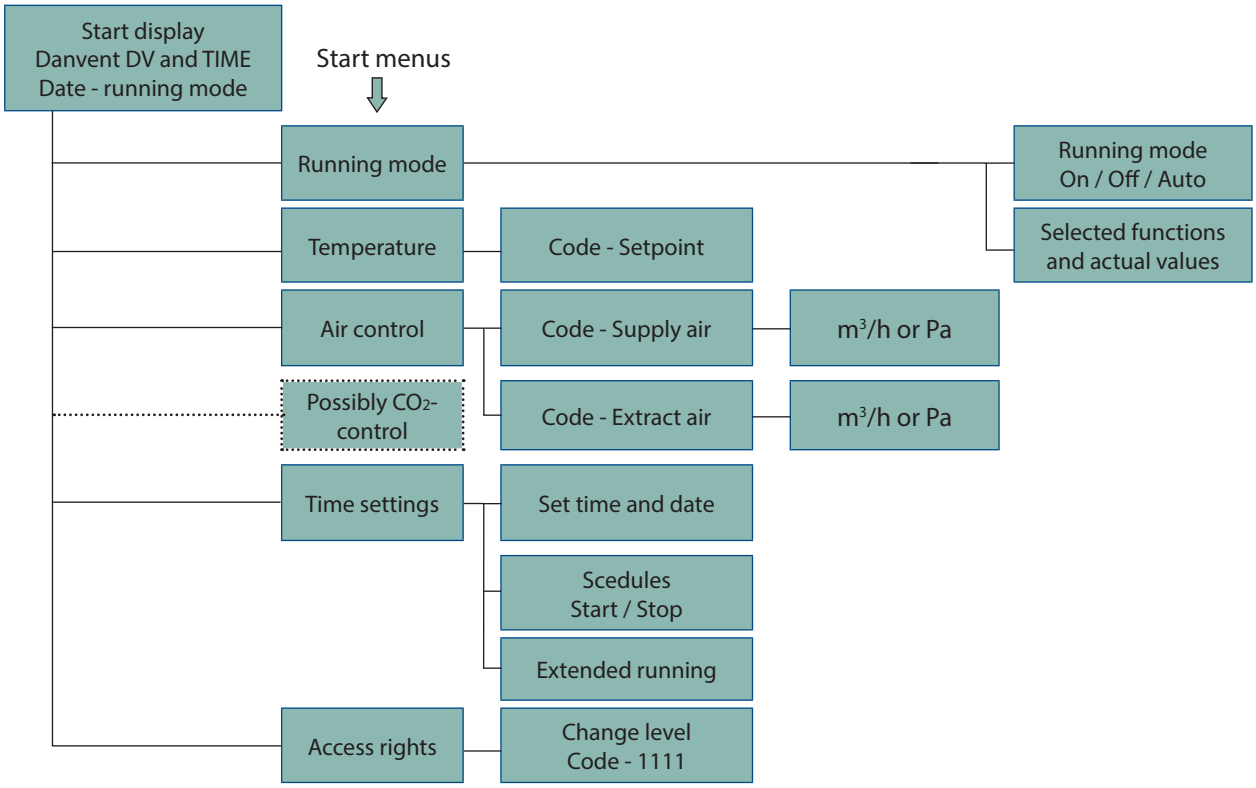
CLEAR: Abort a parameter setting and restore the original value, if "OK/ENTER" not yet has been pressed.

ALARM LED: Red light is flashing for unacknowledged alarm. Permanent red light for acknowledged alarm, but the alarm is still active, because the reason is not yet eliminated.

"WRITE ENABLE" LED: Yellow light – slow flashing indicates that a parameter can be selected for changes, when the OK/ENTER button is pressed. Yellow light – fast flashing indicates that the parameter is activated for changes. Permanent yellow light indicates that the changes are going on.

The menus are organised in a horizontal tree structure – upper left corner is start

Operator's level - tree structure



Running mode – Auto/On/Off

	Follow the steps below	The display shows
1.	x 1 — The display is lit up	Danvent DV TIME Date, time Syst: Running mode (Auto, Manual reduced, Man. norm., Off) ↓
2.	x 1 — Running mode	
3.	x 2 — Actual running mode	Running mode ↑ Auto Manuel reduced run Manuel normal run Off ↓
4.	OK To select Auto, Manual Normal, Manual Reduced or Off	
5.	OK — Confirm selected value with OK. The system will automatically return to the start menu after some minutes.	
6.	To return to the start menu at once – press ◁ and △ several times	

Alarm – cancel, acknowledge

Follow the steps below			The display shows
1.		Press the alarm button twice to see the alarms logged in the alarm list	Example: Low frost guard temp Date, time, Class:A
2.			Example: Low frost guard temp Acknowledge Block Cancel
3.		Select – Cancel. Never select Block, Block is only for test purposes during maintenance work.	
4.		Confirm with OK. Class A alarm is always triggered by the system, when the reason for alarm is hazardous, and it is only possible to restart the unit, when the reason for the alarm has been solved. The Class A alarm can be triggered by the temperature sensor inside the water heating coil if the temperature falls below the set point value, or the class A alarm can be triggered by the fire thermostats when the temperature rises above the set point values, indicating risk of fire.	Example: Low frost guard temp Date, time, Class:A Cancel
5.		When the reason for the alarm has been solved, pressing the OK button will activate the menu - Confirm - and the unit starts. The alarm indication disappears from the display.	
6.		Confirm selected value with OK. The system will automatically return to the start menu after some minutes.	
7.		To return to the start menu at once – press ◁ and △ several times	

Setting of temperature

Follow the steps below			The display shows
1.	x 1	The display is lit up	Danvent DV TIME Date, time Syst: Running mode (Auto, Manual reduced, Man. norm., Off) ↓
2.	x 1	Temperature	
3.	x 1	The system is configured to control a certain temperature. The actual value and set point for this temperature is shown. Access code 1111 may be necessary.	Act: xx.x ˚C Setp → Setp: yy.y ˚C
4.	OK	Value to be changed flashes.	Setp: yy.y ˚C ↑ ↓
5.	OK	Select and confirm new set point temperature. The system will automatically return to the start menu after some minutes.	
6.		To return to the start menu at once – press ◁ and △ several times.	

Modification of outdoor compensated supply temperature

1.	x 2	Temperatur	
2.	x 2		Outdoor comp Setp. xx ˚C = zz.z ˚C yy ˚C = vv.v ˚C ↓
3.	x 1	Set point temperatures for outdoor temperature compensation are shown. The control curve is defined with 8 node points. Only 2 or 3 node points are shown in the display, and the remaining node points are displayed by scrolling ▽ and △.	Outdoor comp. Setp ↑ xx ˚C = zz.z. ˚C yy ˚C = vv.v ˚C ↓
4.	OK	Value to be changed flashes.	
5.	OK	Select one new set point temperature for each outdoor temperature shown on the curve and confirm selected value with OK.The system will automatically return to the start menu after some minutes.	
6.		To return to the start menu at once – press ◁ and △ several times.	

Setting of flows - Flow control

Follow the steps below		The display shows
1.	x 1 The display is lit up	Danvent DV TIME Date, time Syst: Running mode (Auto, Manual reduced, Man. norm., Off) ↓
2.	x 3 Air control	
3.	x 1 Flow control (control of the flow through the fans)	SAF (SAF = Supply air fan) EAF (EAF = Extract air fan)
4.	Selection of supply air fan (SAF) or exhaust air fan (EAF).	
5.	x 2 Supply air fan selected as example.	Flow control SAF Setp. 1/1: xx.xxx m^3/h Setp. 1/2: yy.yyy m^3 /h
6.	OK Value to be changed flashes. Change of set point for normal flow (1/1) and for reduced flow (1/2). Access code 1111 may be necessary.	Setp. 1/1: x.xxx m^3/h Setp. 1/2: y.yyy m^3/h
7.	OK Confirm change of the set point value with OK. Value to change is flashing.	
8.	OK Select and confirm new value for normal air flow (1/1) and for reduced air flow (1/2)	Setp. 1/1: xx.xxx Setp. 1/2: yy.yyy
9.	OK Confirm selected value with OK	
10.	x 1 Outdoor compensation of the airflow is able to reduce the air flow when the outdoor temperature is low. Two node points - outdoor temperature/airflow defines the reduction of airflow by declining outdoor temperature. The temperature compensation between the 2 node points is linear.	Outdoor comp. setp aa °C = bb.bbb m3/h cc °C = dd.ddd m3/h
11.	OK Confirm change of the set point value with OK. Value to change is flashing.	
12.	To return to the start menu at once – press ◁ and △ several times.	

Setting of flows - Pressure control

Follow the steps below			The display shows
1.	x 1	The display is lit up	Danvent DV TIME Date, time Syst: Running mode (Auto, Manual reduced, Man. norm., Off) ↓
2.	x 3	Air control	
3.	x 1	Pressure control	Pressure control SAF (SAF = supply air fan) EAF (EAF = extract air fan)
4.		Selection of supply air fan (SAF) or exhaust air fan (EAF).	
5.	x 2	Supply air fan selected as example.	Pressure control SAF Setp. 1/1: xxx Pa Setp. 1/2: yyy Pa
6.	OK	Value to be changed flashes. Change of set point for normal flow (1/1) and for reduced flow (1/2). Access code 1111 may be necessary.	Setp. 1/1: xxx Pa Setp. 1/2: yyy Pa
7.	OK	Confirm change of the set point value with OK. Value to change is flashing.	
8.	OK	Select and confirm new value for normal air flow (1/1) and for reduced air flow (1/2)	Setp. 1/1: xxx Setp. 1/2: yyy
9.	OK	Confirm selected value with OK	
10.	x 1	Outdoor compensation of the airflow is able to reduce the air flow when the outdoor temperature is low. Two node points - outdoor temperature/pressure in ducts defines the reduction of airflow by declining outdoor temperature. The temperature compensation between the 2 node points is linear.	Outdoor comp. setp aa °C = bbb Pa cc °C = ddd Pa
11.	OK	Confirm change of the set point value with OK. Value to change is flashing.	
12.		To return to the start menu at once – press ◁ and △ several times.	

Schedule settings

Follow the steps below			The display shows
1.	x 1	The display is lit up	Danvent DV TIME Date, time Syst: Running mode (Auto, Manual reduced, Man. norm., Off) ↓
2.	x 4	Time settings	
3.	x 1		Time/Date Timer Normal Speed Timer Reduced Speed Extended running Holidays
4.		Select Timer Normal speed (example). (Do <u>not</u> select Time/Date, because this is the Calendar setting – time, date, weekday of the internal clock in the controller)	
5.	x 1		Normal Speed Monday Per 1: 09:00 - 16:00 (Periode 1) Per 2: 16:00 - 21:00 (Periode 2)
6.		Confirm selected value with OK. Value to be changed flashes.	Monday Per 1: 07:00 - 1700 (Periode 1) Per 2: 17:00 - 07:00 (Periode 2)
7.		Return to menu to select: Timer Normal Speed or Timer Reduced Speed and so on.	
8.		Confirm selected value with OK. The system will automatically return to the start menu after some minutes.	

Calender settings (time, date, weekday)

1.	x 1	The display is lit up	Danvent DV TIME Date, time Syst: Running mode (Auto, Manual reduced, Man. norm., Off) ↓
2.	x 4	Time settings	
3.	x 1		Time/Date Timer Normal Speed Timer Reduced Speed Extended running Holidays
4.		Select Time/Date (this menu permits the setting of time and date in the internal clock)	Time: aa:aa Date: bbbb-bb-bb Weekday: Xxxxxxxxx
5.		Time: aa:aa is activated for changes. Value to be changed flashes	
6.		To select the correct value.	
7.		Confirm with OK.	
8.		Confirm with OK when all values are OK. The system will automatically return to the start menu after some minutes..	
9.		To return to the start menu at once – press ◁ and △ several times.	

Setting of holidays

Follow the steps below		The display shows
1.	x 1 The display is lit up	Danvent DV TIME Date, time Syst: Running mode (Auto, Manual reduced, Man. norm., Off) ↓
2.	x 4 Time settings	
3.	x 1	Time/Date Timer Normal Speed Timer Reduced Speed Extended running Holidays
4.	x 4 Select Holidays (Do not select Time/Date, because this is for setting the internal clock)	
5.	x 1	Holidays (MM:DD) 1: 01:01 - 01:03 2: 02:14 - 01:21 and so on - up to 24 holiday periods
6.	Confirm selected value (example). Value to be changed flashes.	Holidays (MM:TT) 1: 01:01 - 01:03 2: 02:14 - 02:21 and so on - up to 24 holiday periods
7.	Confirm with OK when all values are OK. The system will automatically return to the start menu after some minutes	
8.	To return to the start menu at once – press ◁ and △ several times.	

Setting of extended running

1.	x 1 The display is lit up	Danvent DV TIME Date, time Syst: Running mode (Auto, Manual reduced, Man. norm., Off) ↓
2.	x 4 Time settings	
3.	x 1	Time/Date Timer Normal Speed Timer Reduced Speed Extended running Holidays
4.	x 3 x 1 Select Extended running (Do not select Time/Date, because this is for setting the internal clock)	Extended running xx min Time in ext. Running: yy (minutes already spent of the total extended running time)
5.	Extended running is activated for changes. Value to be changed flashes	
6.	To select the correct value	
7.	Confirm with OK.	
8.	Confirm with OK when all values are OK. The system will automatically return to the start menu after some minutes.	
9.	To return to the start menu at once – press ◁ and △ several times.	

Setting of min/max supply air temperature

Access to this menu requires log on at the high-authority level – "Admin".

Follow the steps below		The display shows
1. x 1	The display is lit up	Danvent DV TIME Date, time Syst: Running mode (Auto, Manual reduced, Man. norm., Off) ↓
2. x 5	Access rights	
3. x 2	Select - Log on	Log on Enter password **** Actual level: Operator
4.	Digit to be changed flashes. Factory logged password, exclusively for service partners.	Actual level: Admin
5. x 2	Return to start menu	Running mode Temperature Air control Time settings Manuel/Auto Settings Configuration Access Rights
6. x 6	Temperature	
7. x 2	If the system is configured for cascaded room temperature control, this menu with max/min supply air temperature is displayed.	With Caskaded control max/min supply air setp Max: xx ˚C Min: yy ˚C
8.	Value to be changed flashes. Confirm selected value with OK	
9.	Select and confirm new set point temperature.	
10. x 2	The system is now logged on at the Admin level and unskilled persons could change important parameters and settings to values that will cause malfunction of the system. Go to the start menu to return the system immediatlely to the lowest access level – Operator.	
11. x 6	Access rights	Log on Log off Change password
12.	Select - Log off and select the answer – Yes	Log off? No Actual level: Admin
13.	System returns to the start menu and is now logged on at the Operator-level.	

ore Systemair factory settings or latest user parameters and settings

Access to this menu requires log on at the high-authority level – "Admin".

	Follow the steps below		The display shows
1.	x 1	The display is lit up	Danvent DV TIME Date, time Syst: Running mode (Auto, Manual reduced, Man. norm., Off) ↓
2.	x 5	Access rights	
3.	x 2	Select Log on	Log on Enter password **** Actual level: Operator
4.	OK	Digit to be changed flashes. Factory logged password, exclusively for service partners.	Actual level: Admin
5.	x 2	Return to start menu	Running mode Temperature ... Access rights
6.	x 2	Settings	
7.	x 1	Menus in settings	Control temp Control flow Alarm settings
8.	x 3	Select: – Restore factory settings: Yes/No – Restore user settings: Yes/No	Restore factory settings: No Restore user settings: No
9.	OK	Confirm with OK for selected alternative. Values to be changed flashes.	
10.	x 1	To select menu: – Save user setings: Yes/No	Save user settings: No
11.	OK	Value to be changed flashes. Confirm selected value with OK.	
12.		Select and confirm new setpoint.	
13.	x 2	The system is now logged on at the Admin level and unskilled persons could change important parameters and settings to values that will cause malfunction of the system. Go to the start menu to return the system immediatlely to the lowest access level – Operator	
14.	x 2	Access rights	Log on Log off Change password
15.	x 1	Select - Log off and select the answer – Yes	Log off? No Actual level: Admin
16.	OK	System returns to the start menu and is now logged on at the Operator-level.	

Systemair A/S
Ved Milepælen 7
DK-8361 Hasselager

Tel. +45 87 38 75 00
Fax +45 87 38 75 01

info@systemair.dk
www.systemair.dk

Part number 90925377

Systemair A/S – FebruarY 2014