

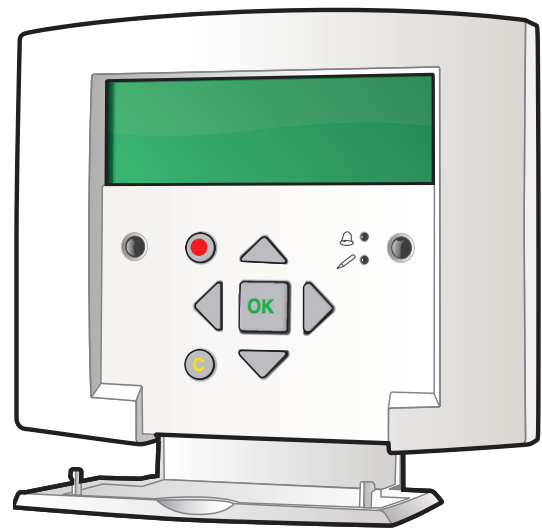
Operator's Guide for Systemair E 28 Controller

in large air handling units type: Geniox, DV, TIME, DV Compact

Software versions 3.2 , 3.3, 3.4 and 3.6

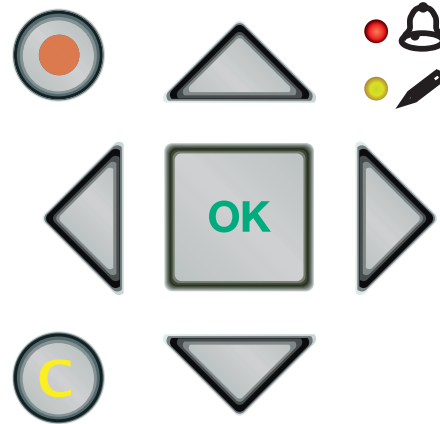
Callender and temperature settings

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Hand terminal – Systemair Control Panel



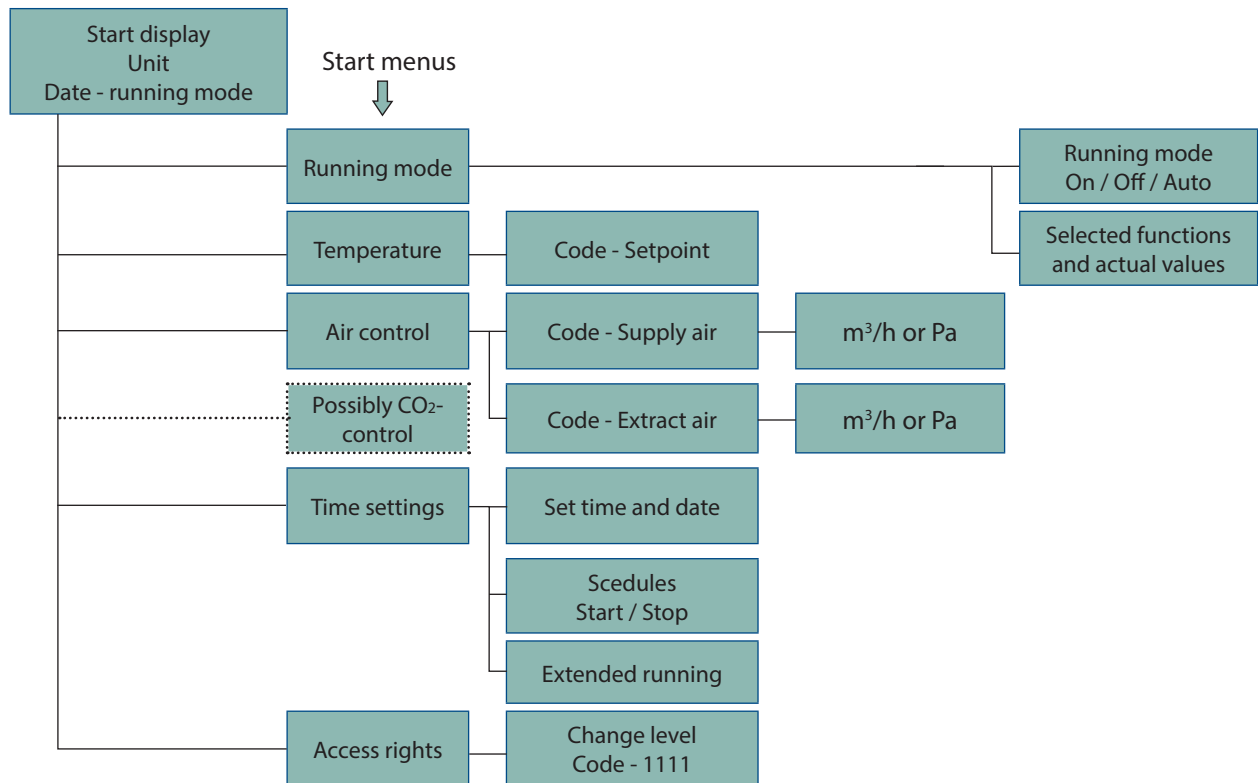
LED's and buttons

-  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 cursor to the right in the parameter)
-  LEFT:
Move left to a higher menu level. (Move the cursor 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










1.  x 1 The display is lit up
2.  x 1 Running mode
3.  x 2 Actual running mode
4.  To select Auto, Manual Normal, Manual Reduced or Off
5.  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

The display shows

Unit
Date, time
Syst: Running mode (Auto, Manual reduced, Man. norm., Off) ↓

Running mode ↑
Auto
Manuel reduced run
Manuel normal run
Off ↓

Follow the steps below

1.  x 2 Press the alarm button twice to see the alarms logged in the alarm list
2. 
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.
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

The display shows












Example: ↑
Low frost guard temp
Date, time, Class:A ↓

Example: ↑
Low frost guard temp
Acknowledge
Block ↓
Cancel ↓

Example: ↑
Low frost guard temp
Date, time, Class:A ↓
Cancel ↓

Setting of temperature

Follow the steps below

1.  x 1 The display is lit up
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.
4.  Value to be changed flashes.
5.    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.














The display shows

Unit
Date, time
Syst: Running mode (Auto, Manual reduced, Man. norm., Off) ↓

Act: xx.x °C Setp →
Setp: yy.y °C

Setp: yy.y °C ↑
↓

Modification of outdoor compensated supply temperature
















1.  x 2 Temperatur
2.  x 2
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 .
4.  Value to be changed flashes.
5.    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.

Outdoor comp Setp.
xx °C = zz.z °C
yy °C = vv.v °C ↓

Outdoor comp. Setp ↑
xx °C = zz.z °C
yy °C = vv.v °C ↓

Follow the steps below

The display shows

1.  x 1 The display is lit up
2.  x 3 Air control
3.  x 1 Flow control (control of the flow through the fans)
4.  Selection of supply air fan (SAF) or exhaust air fan (EAF).
5.  x 2 Supply air fan selected as example.
6.  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.
7.  Confirm change of the set point value with OK. Value to change is flashing.
8.   Select and confirm new value for normal air flow (1/1) and for reduced air flow (1/2)
9.  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.
11.  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.

Unit
Date, time
Syst: Running mode (Auto, Manual reduced, Man. norm., Off) ↓

SAF (SAF = Supply air fan)
EAF (EAF = Extract air fan)

Flow control SAF
Setp. 1/1: xx.xxx m³/h
Setp. 1/2: yy.yyy m³/h
















Setp. 1/1: x.xxx m³/h
Setp. 1/2: y.yyy m³/h

Setp. 1/1: xx.xxx
Setp. 1/2: yy.yyy

Outdoor comp. setp
aa °C = bb.bbb m³/h
cc °C = dd.ddd m³/h

Follow the steps below

The display shows

1.  x 1 The display is lit up
2.  x 3 Air control
3.  x 1 Pressure control
4.  Selection of supply air fan (SAF) or exhaust air fan (EAF).
5.  x 2 Supply air fan selected as example.
6.  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.
7.  Confirm change of the set point value with OK. Value to change is flashing.
8.   Select and confirm new value for normal air flow (1/1) and for reduced air flow (1/2)
9.  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.
11.  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.

Unit
Date, time
Syst: Running mode (Auto, Manual reduced, Man. norm., Off) ↓

Pressure control
SAF (SAF = supply air fan)
EAF (EAF = extract air fan)

Pressure control SAF
Setp. 1/1: xxx Pa
Setp. 1/2: yyy Pa










Setp. 1/1: xxx Pa
Setp. 1/2: yyy Pa

Setp. 1/1: xxx
Setp. 1/2: yyy

Outdoor comp. setp
aa °C = bbb Pa
cc °C = ddd Pa

Schedule settings

Follow the steps below

1.  x 1 The display is lit up
2.  x 4 Time settings
3.  x 1
4.  Select Timer Normal speed (example). (Do not select Time/Date, because this is the Calendar setting – time, date, weekday of the internal clock in the controller)
5.  x 1
6.   Confirm selected value with OK. Value to be changed flashes.
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.

The display shows












Unit
Date, time
Syst: Running mode (Auto, Manual reduced, Man. norm., Off) ↓

Time/Date
Timer Normal Speed
Timer Reduced Speed
Extended running
Holidays

Normal Speed
Monday
Per 1: 09:00 - 16:00 (Periode 1)
Per 2: 16:00 - 21:00 (Periode 2)

Monday
Per 1: 07:00 - 1700 (Periode 1)
Per 2: 17:00 - 07:00 (Periode 2)

Calendar settings (time, date, weekday)

1.  x 1 The display is lit up
2.  x 4 Time settings
3.  x 1
4.  Select Time/Date (this menu permits the setting of time and date in the internal clock)
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.











Unit
Date, time
Syst: Running mode (Auto, Manual reduced, Man. norm., Off) ↓

Time/Date
Timer Normal Speed
Timer Reduced Speed
Extended running
Holidays

Time: aa:aa
Date: bbbb-bb-bb
Weekday: XXXXXXXX

Setting of holidays

Follow the steps below

1.  x 1 The display is lit up
2.  x 4 Time settings
3.  x 1
4.  x 4 Select Holidays (Do not select Time/Date, because this is for setting the internal clock)
5.  x 1
6.  Confirm selected value (example). Value to be changed flashes.
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.

The display shows













Unit
Date, time
Syst: Running mode (Auto, Manual reduced, Man. norm., Off) ↓

Time/Date
Timer Normal Speed
Timer Reduced Speed
Extended running
Holidays

Holidays (MM:DD)
1: 01:01 - 01:03
2: 02:14 - 01:21
and so on - up to 24 holiday periods

Holidays (MM:TT)
1: 01:01 - 01:03
2: 02:14 - 02:21
and so on - up to 24 holiday periods

Setting of extended running

1.  x 1 The display is lit up
2.  x 4 Time settings
3.  x 1
4.  x 3 Select Extended running (Do not select Time/Date, because this is for setting the internal clock)
5.  x 1
6.  Extended running is activated for changes. Value to be changed flashes
7.  To select the correct value
8.  Confirm with OK.
9.  Confirm with OK when all values are OK. The system will automatically return to the start menu after some minutes.
10.  To return to the start menu at once – press  and  several times.

Unit
Date, time
Syst: Running mode (Auto, Manual reduced, Man. norm., Off) ↓

Time/Date
Timer Normal Speed
Timer Reduced Speed
Extended running
Holidays

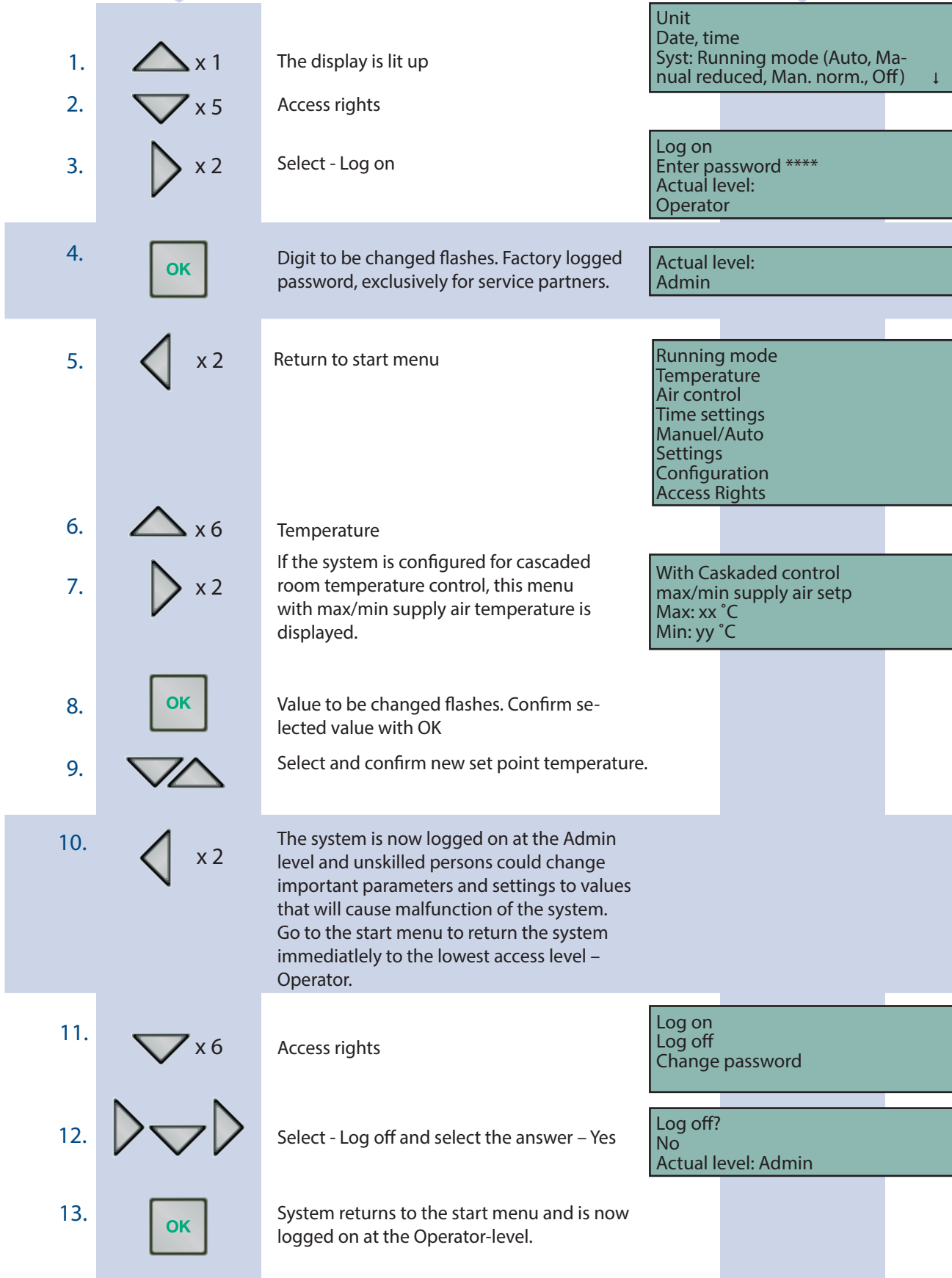
Extended running
xx min
Time in ext. Running: yy (minutes already spent of the total extended running time)

Setting of min/max supply air temperature

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

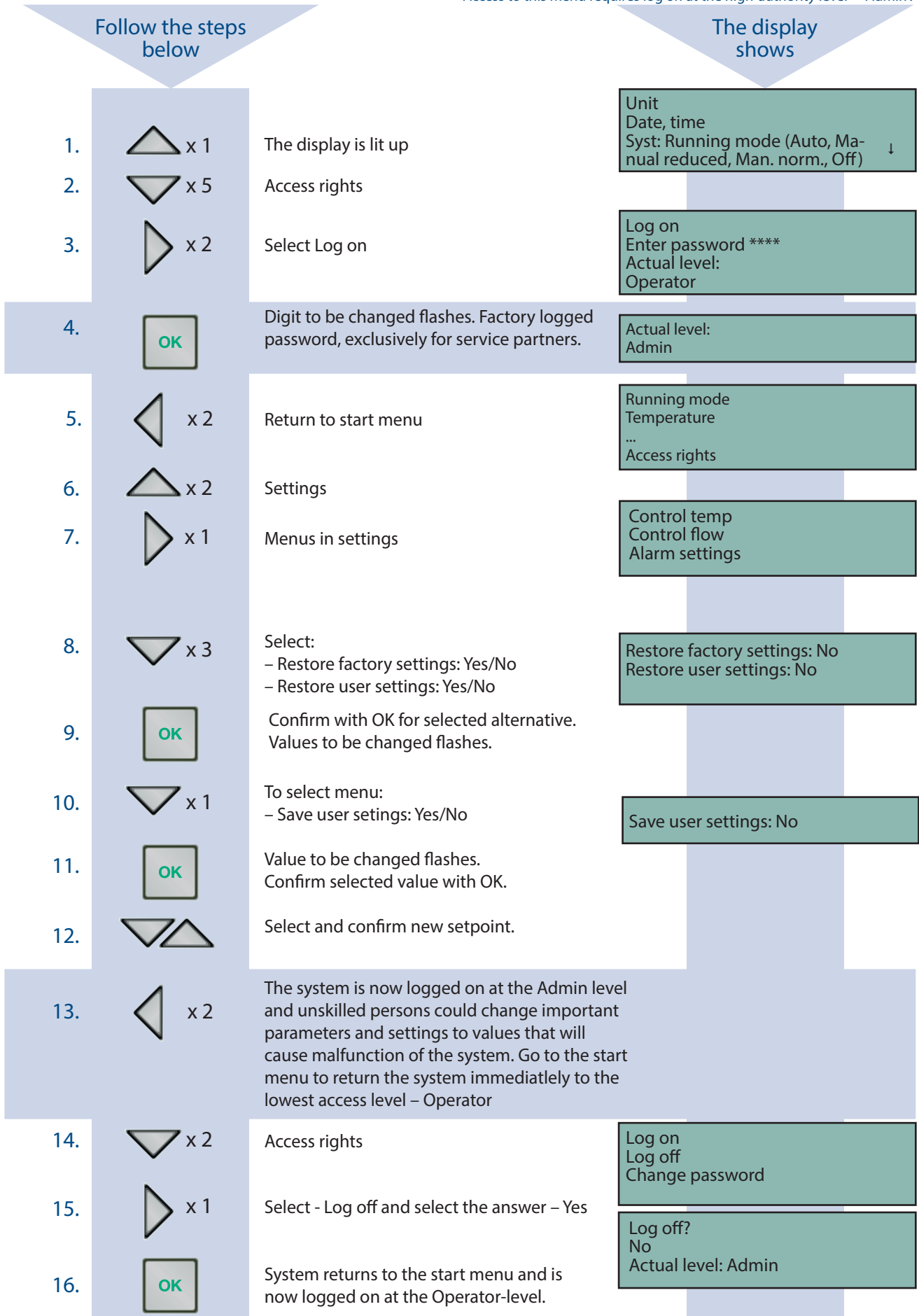
Follow the steps below

The display shows



Restore Systemair factory settings or latest user parameters and settings

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





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