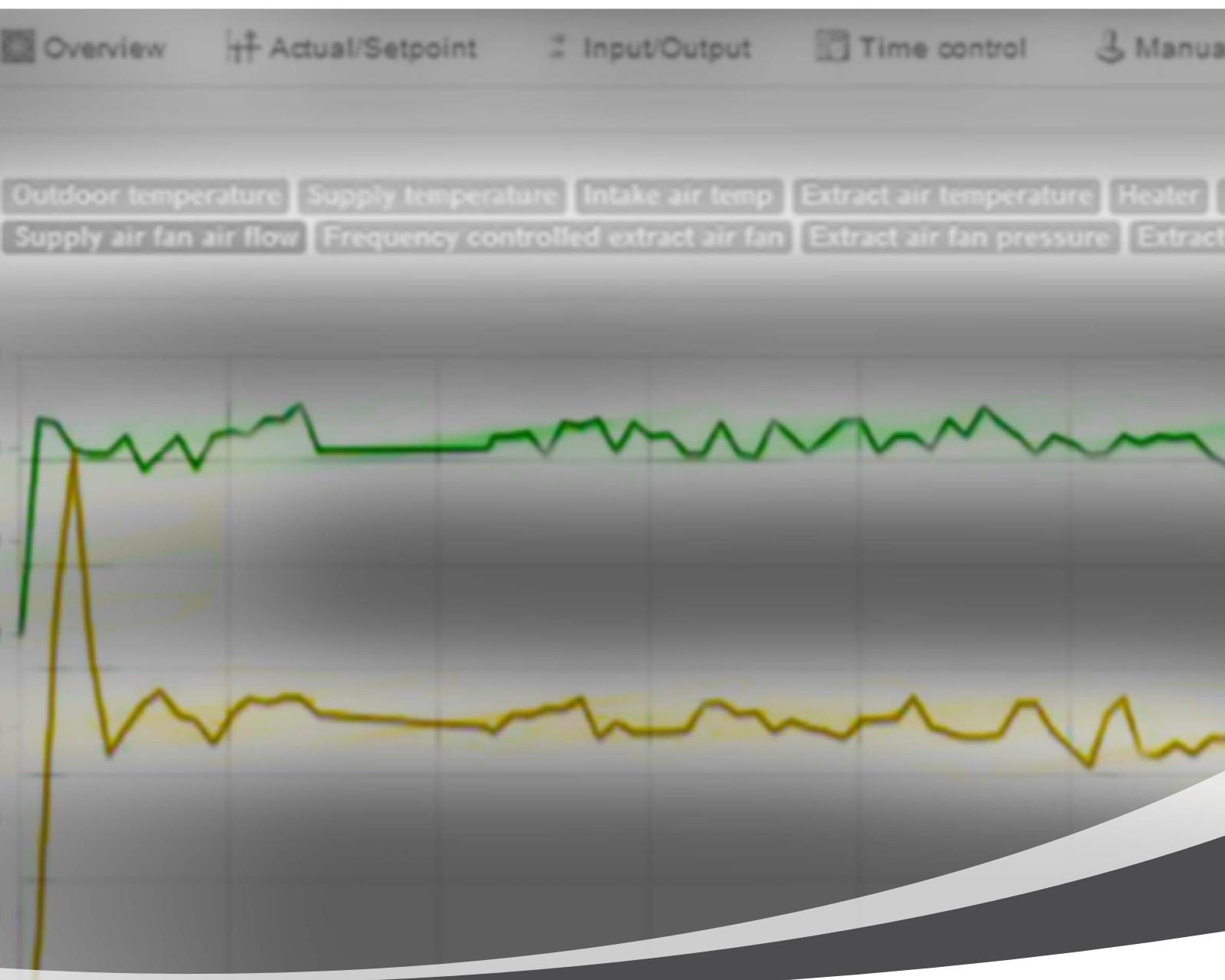


Systemair Connect

Set-up



Setting up Systemair Connect

This guide is made to assist you in getting started with setting up Systemair Connect. You can read about how to build a substructure and create new users and devices. The guidelines are intended for persons responsible for setting up and maintaining the structure and for users.

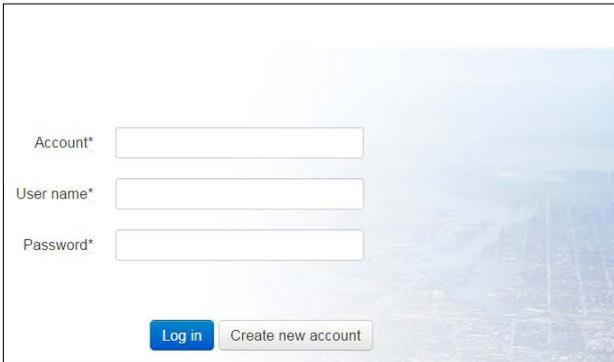
Content

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First login

The login information will be handed over to the responsible person by the ventilation installer.

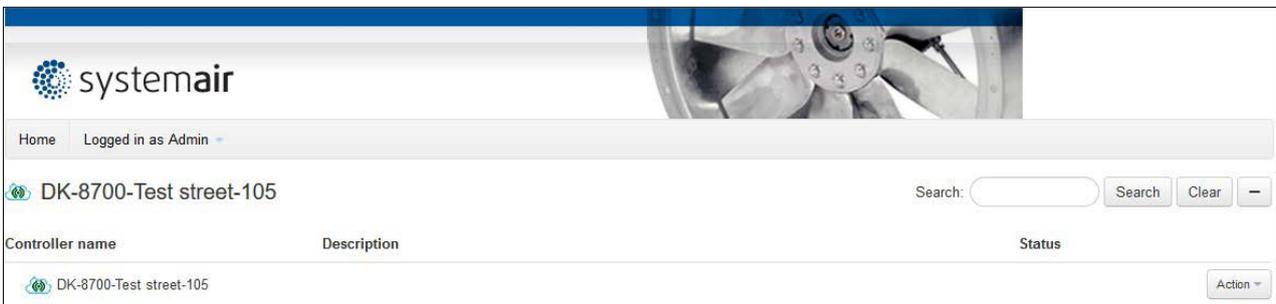
Go to <http://cloudair.systemair.com/login> to log in. You will then see this page:



The image shows a login form on a webpage. It has three input fields: "Account*", "User name*", and "Password*". Below the fields are two buttons: "Log in" (blue) and "Create new account" (grey). The background of the form is a blurred image of a landscape.

The "Account", "User name" and "Password" name will be stated in the Login document. Enter the information and click "Log in".

In the example below the following Account is used: "DK-8700-Test street-105".



The image is a screenshot of the Systemair Connect dashboard. At the top left is the Systemair logo. Below it, there are navigation links for "Home" and "Logged in as Admin". The main content area shows the account name "DK-8700-Test street-105" with a search bar to its right. Below this is a table with columns for "Controller name", "Description", and "Status". The table contains one entry: "DK-8700-Test street-105" with an "Action" button to its right.

Controller name	Description	Status
DK-8700-Test street-105		

Change of "User name" and "Password"

At the first login the "User name" and "Password" must be changed. Do as follows:

1. Click on "Action"
2. Select "Edit Users"



3. Select "Edit" next to the username "Admin".
The default user is created as SysAdmin. SysAdmin is the highest user level. As SysAdmin you can view and change all values and add or delete "Users", "Accounts", "Areas" and "Devices".



4. Enter the desired values in the fields:
 - a. User name
 - b. Password
 - c. Confirm password (Repeat password)
 - d. Local language can be selected
 - e. If you fill in the e-mail field you will be able to receive alarms as e-mail.

The screenshot shows the 'Edit User' form. It contains several input fields: 'User name*' (filled with 'Admin'), 'Created' (filled with '2016-10-26 15:27:33 UTC'), 'Password', 'Confirm password', 'Account' (dropdown menu set to '--- DK-8700-Test street-105'), 'Language' (dropdown menu set to 'English'), and 'E-mail'. At the bottom, there is a checkbox labeled 'I want to receive sum alarms via e-mail' which is unchecked. A blue arrow points to the 'Update' button at the bottom right.

5. Select "Update".
Now your user information is updated.

Building the structure

It is important to get the right structure if you want several persons to share the responsibility for buildings or parts of buildings. Here to the right is an example of a simple structure:



Symbolises a "Device" – the air handling unit itself with the controller built in.



Symbolises an "Area" – an area that is used to subdivide the structure to ease access.

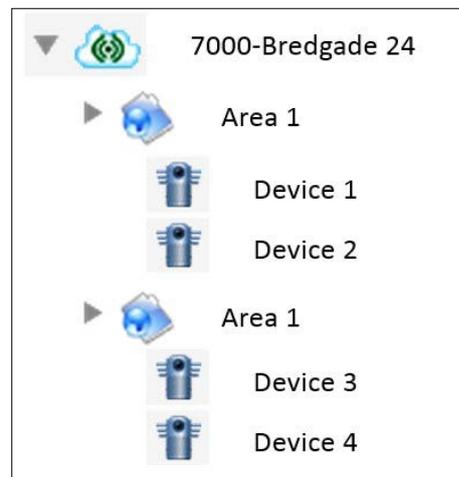
Building the substructure

In order to build the substructure your user must be set up with user level SysAdmin. The user that Systemair has set up by delivery has user level SysAdmin.

Two tools are available for building the substructure on your Account:

Area: Used to divide the installation in several small areas. It is possible to restrict user access to the installation using the Area. For example, Area can be used if you want to split the installation in 2 areas where you have separate persons responsible for each area.

Device: This function is used when you link a unit controller to Systemair Connect.

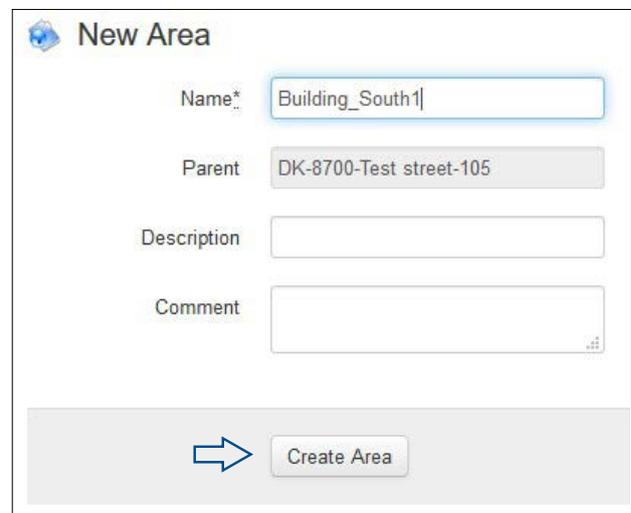


Create Area

1. Click on "Action" next to your Account and select "+ New Area".



2. Under "DK-8700-Test Street-105" two Areas are created: Building_South1 and Building_South2. You only need to fill in "Name" in order to create an Area. It is a good idea to use "Description" and "Comment" to make it easier to understand for other users of the system. Finish by clicking "Create Area".



3. Now the structure looks like this:

Controller name	Description	Status
DK-8700-Test street-105		Action
Building_South1		Action
Building_South2		Action

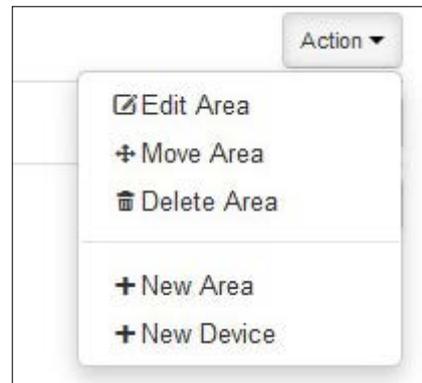
It is possible to create several Areas under each Area. It provides the opportunity to build a structure in many levels, which provides an easy, transparent structure. The structure can be used to provide users access to the right level, and thus only the areas they are responsible for. An example can be found in the next section.

Controller name	Description	Status
DK-8700-Test street-105		Action
Building_South1		Action
Gym		Action
Building_South2		Action

Functions under Area

Under Area you will find a number of functions to manage the structure. Select "Action" next to the Area you want to edit.

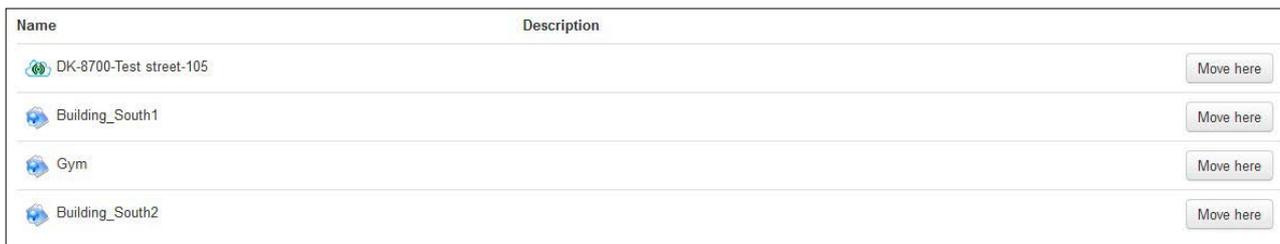
- Edit Area: Change name or description.
- Move Area: Move an Area under another Area or to your Account.
- Delete Area: Deletes an Area.



For example, if you want to move the Area called "Gym", select "Action" next to it and then "Move Area".



Then you get the option to move it to your wanted location, select "Move here".



User levels and rights (Access level)

Sysadmin:	Can see all values. Can change all values. Can add new "Users", "Accounts", "Areas" and "Devices". Can delete "Users".
Service / Admin:	Can see all values. Can change all values. Cannot add "Users", "Accounts", "Areas" and "Devices".
Operator:	Can see all values. Can change values using the menu Actual/Setpoint and Time control. Cannot add "Users", "Accounts", "Areas" and "Devices".
Gæst:	Can see all values. Cannot change values. Cannot add "Users", "Accounts", "Areas" and "Devices".

Create new user

To create a new user your user must be created with user level SysAdmin.

1. Go to Account "DK-8700-Test Street-105".
2. Select "Edit Users".

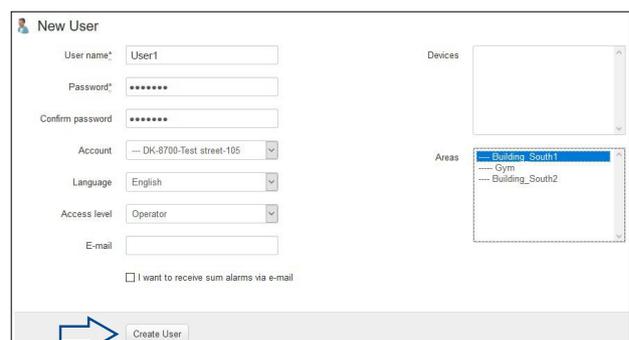


3. Select "New User".



4. Enter the desired values in the fields, select Areas, languages and user level.

With this set up the User1 only has access to Area Building_South1 when this is selected. If you would like to give access to several Areas for the same user, select them by keeping the Ctrl key and selecting them with the mouse. If you do not select further from Devices or Areas, the user will have access to everything in the structure. Remember to add e-mail if User1 should receive an e-mail in case of alarms. Finish by clicking "Create User".



When the user User1 logs in he will see this:

Controller name	Description
DK-8700-Test street-105	
Building_South1	

You can also edit user information and rights afterwards. If for example you want to add Area "Gym" to User1 and change his user level to "Admin", do the following:

1. Select "Action" and "Edit Users" next to "DK-8700-Test street-105"

2. Select "Edit" next to the user you want to correct.

3. Select Area "Gym". (Hold down the Ctrl key and select "Gym" with the mouse)
4. Change "Access level" to Admin.
5. Select "Update". Now User1 will have access to "Gym" and is updated to user level "Admin".

6. At login it now looks like this:

Controller name	Description	Status
DK-8700-Test street-105		
Building_South1		
Gym		

Create Device

To create a Device use the serial number. The serial number is printed on the controller. In order to get in touch with the Device via Systemair Connect, it must be recorded in the database. The registration is done automatically when the Systemair Connect setting in the Device is set to active. If you have ordered the air handling unit with Systemair Connect enabled from the factory you can skip this step.

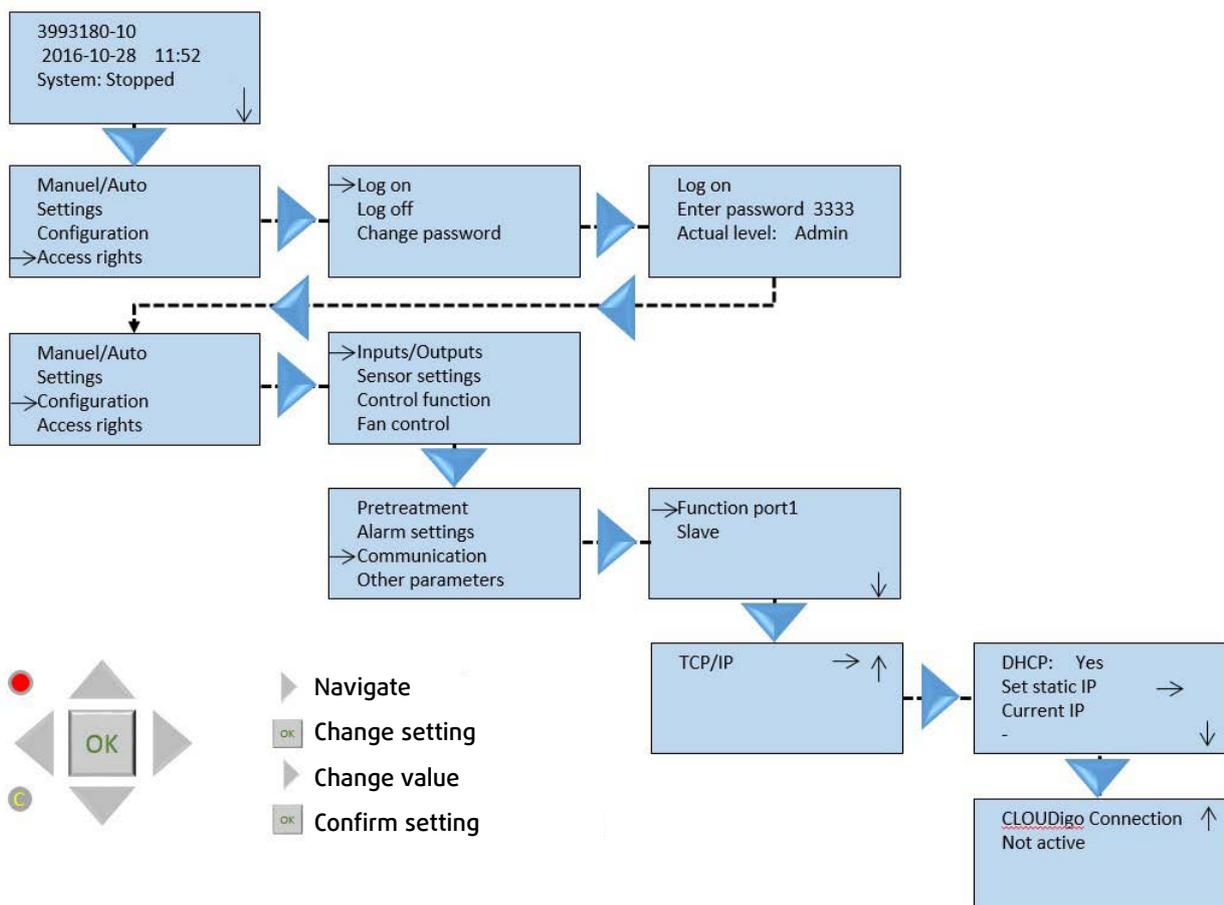
S-90813000
 Supply 24V AC/DC
 S/N: 011509170111
 MAC: 00:30:97:01:1D:35 E tool: E283W-3
 For instructions visit www.systemair.com
 Systemair AB made in Sweden





Prepare your Device for Systemair Connect by using the Display

Communication setting CLOUDigo must be changed from "Not active" to "Active".



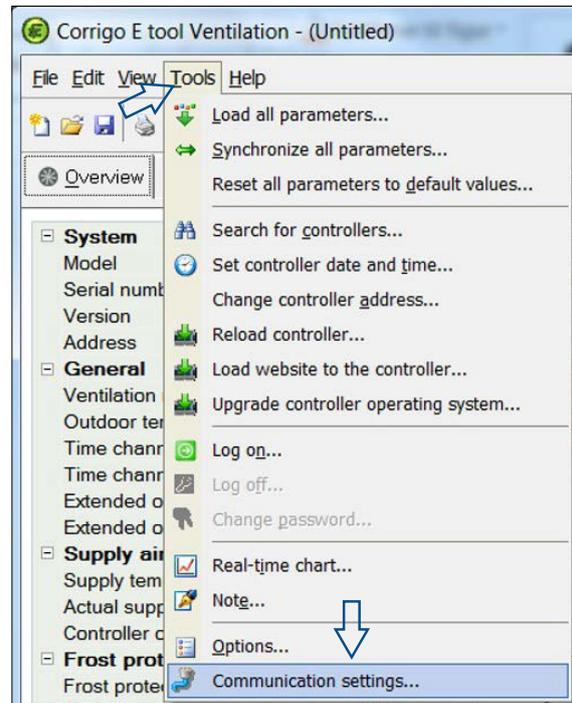
Prepare your Device for Systemair Connect by using E tool

Note: This section applies only to E tool version 3.2 and later versions. If you are using an earlier version of E tool please update to the latest version.

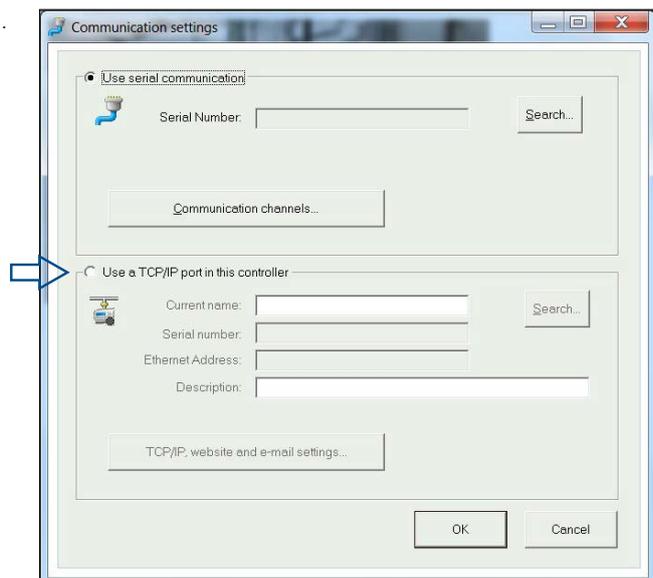
Download and install the latest version of E tool from www.regincontrols.com or from www.systemair.dk under Support and E tool.

1. Open E tool, select Tools and Communication settings... to find the Device on the network.

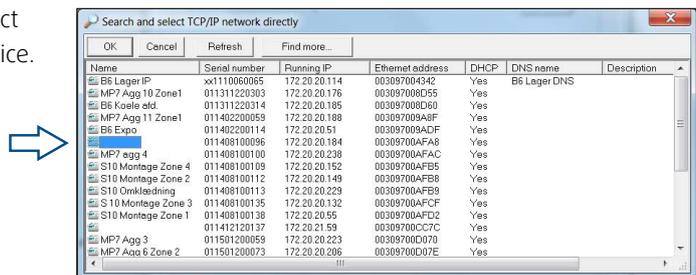
Note: You must be connected to the same network as the controllers you want to configure.



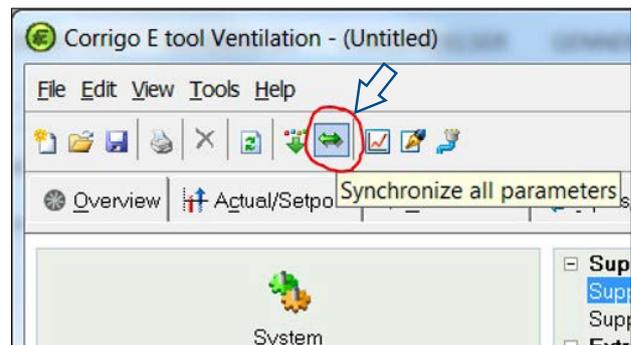
2. Select "Use a TCP/IP port in this controller" and click OK.



3. Find the serial number of your Device in the list, select it and click OK. Then there will be contact to the Device.



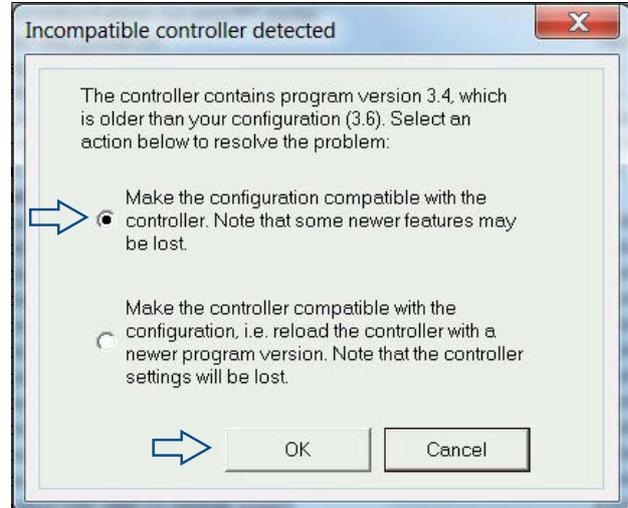
4. Go to Tools and select "Synchronize all parameters" or use the shortcut below the menu bar.



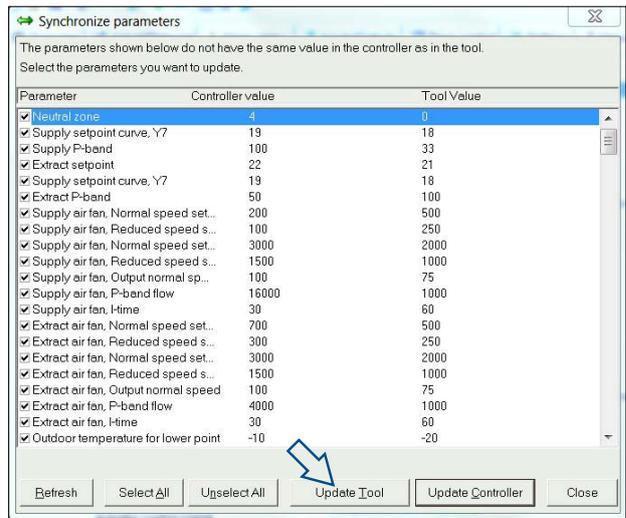
5. E tool will now read all parameters in the controller.

6. If the controller is an older version compared to E tool this dialogue box will appear. Select "Make the configuration compatible with the controller" and click OK. E tool is hereafter adapted to the Device.

Note: If there is accordance between software and controller, the System will go directly to the next step. Then the E tool will read all parameters from the controller and compare them with the existing setup in E tool.

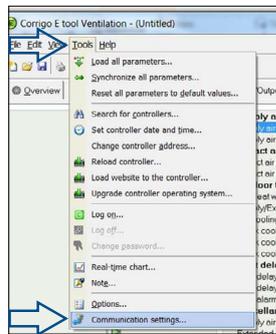


7. In this step it is important that you load data from the Device into the software. Select "Update Tool".

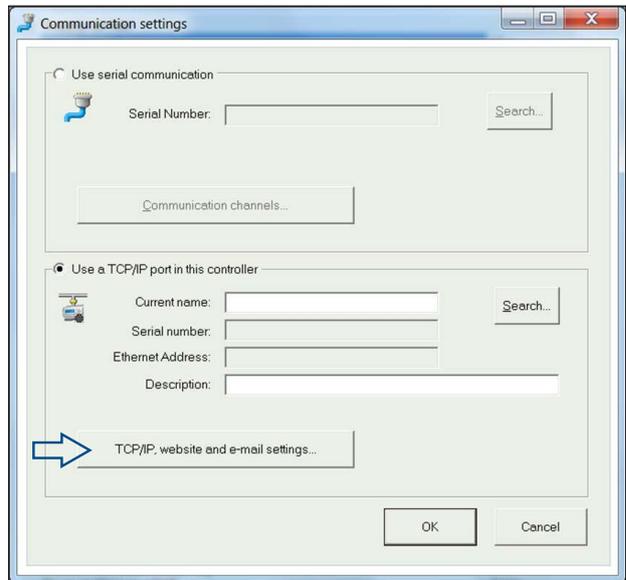


8. Now the E-Tool and the connected Device are synchronised. Then the CLOUDigo setting on the Device must be changed to Active.

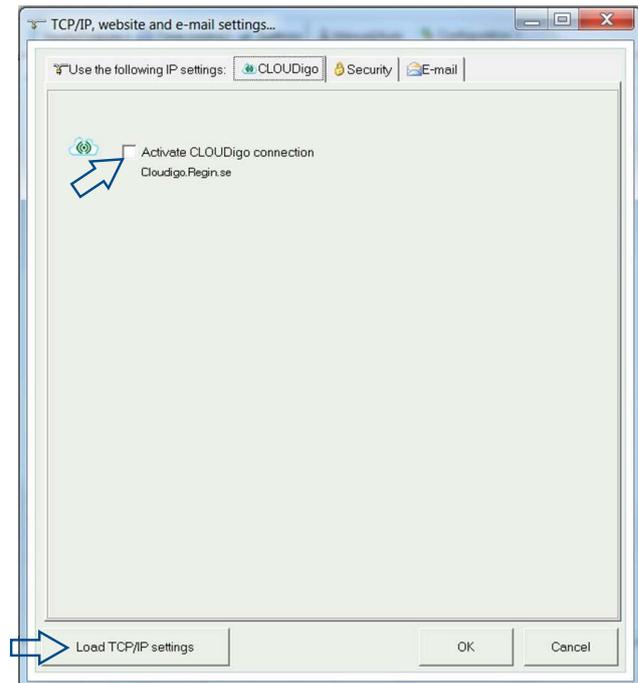
9. Go to Tools and select the "Communication settings..."



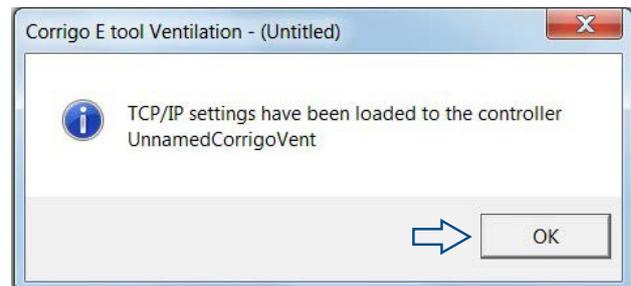
10. In the dialogue box "Communication settings" select "TCP/IP, website and e-mail settings..."



11. Select "Activate CLOUDigo Connection" and click "Load TCP/IP settings" to update the controller.



12. Click OK



Create new Device

In the example, "DK-8700-Test street 105", we want to place our air handling unit under "Gym". Therefore, we must do the following:

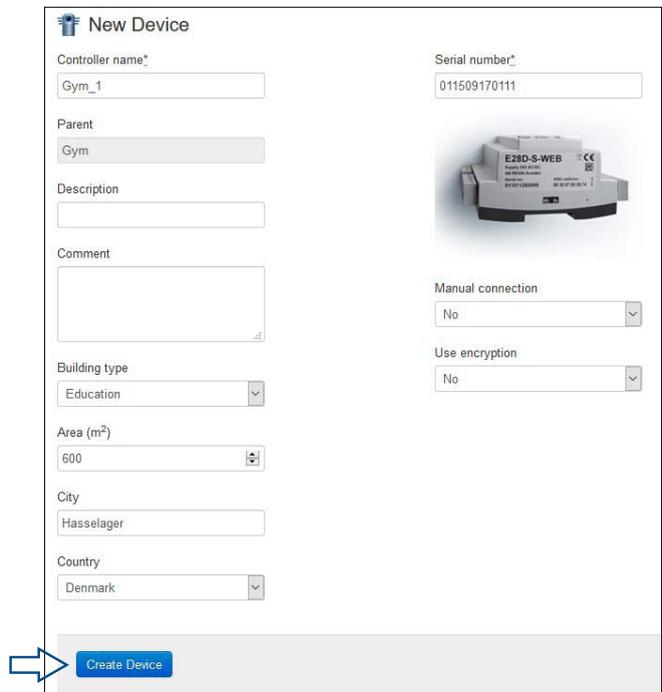
1. Select "Action" next to "Gym" and then select "+New Device".



2. Fill out the information in the dialogue box.

Controller name: Gym_1
 Serial number: 011509170111
 Finish by selecting "Create Device".

In the example the following description is added:
 DV40 10000 m3/h.



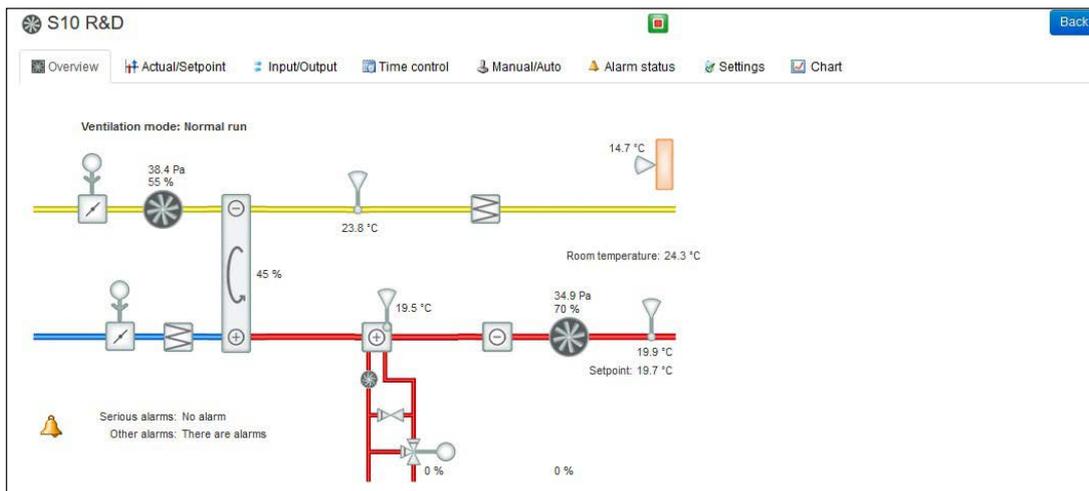
3. For the initial connection it may take some time before the controller is online. Then you can access the unit by selecting the "Gym_1"

Controller name	Description	Status	Action
DK-8700-Test street-105			Action
Building_South1			Action
Gym			Action
Gym_1	DV40 10000 m3/h		Action
Building_South2			Action

Systemair Connect dialogue boxes

Now your Devices are linked up to Systemair Connect. So now you can read the operating status of your air handling units. By clicking directly on a Device, you can open for access to it.

The first tab is an overview where you can read the operation.



In the second tab you can read the current setpoints. The values in blue can be changed by clicking on them. This requires that you are not logged in as Guest.

General	
Ventilation mode	Normal run
Outdoor temperature	14.3 °C
Time channel normal speed	On
Time channel reduced speed	Off
Extended operation normal speed	Off
Extended operation reduced speed	Off
Room temperature 1	25.0 °C
Room temperature 2	23.6 °C
Extract temperature	20.9 °C
Extra sensor 1	24.1 °C
Extra flow SAF	2990.3 m ³ /h
Extra flow EAF	2410.5 m ³ /h
Supply air fan run time	12 h
Extract air fan run time	13 h
Supply air	
Supply temperature	19.8 °C
Supply setpoint	19.8 °C
Neutral zone	4.0 °C
Controller output	40 %
Supply setpoint curve	
Outdoor temp X1, Supply setpoint Y1	-20.0 °C 25.0 °C
Outdoor temp X2, Supply setpoint Y2	-15.0 °C 24.2 °C
Outdoor temp X3, Supply setpoint Y3	-10.0 °C 24.0 °C
Outdoor temp X4, Supply setpoint Y4	-3.0 °C 23.6 °C
Outdoor temp X5, Supply setpoint Y5	3.0 °C 22.5 °C
Outdoor temp X6, Supply setpoint Y6	10.1 °C 20.9 °C
Outdoor temp X7, Supply setpoint Y7	20.2 °C 18.3 °C
Outdoor temp X8, Supply setpoint Y8	30.0 °C 16.5 °C
Frequency controlled supply air fan	
Supply air fan pressure	39 Pa
Frequency (from frequency converter)	0 Hz
Current (from frequency converter)	2 A
Power (from frequency converter)	1 kW
Controller output	67 %
Actual setpoint compensation	0 Pa
Supply air fan normal speed setpoint	22 Pa
Supply air fan reduced speed setpoint	22 Pa
Setpoint offset when free cooling	5
Frequency controlled extract air fan	
Extract air fan pressure	38 Pa
Frequency (from frequency converter)	0 Hz
Current (from frequency converter)	1 A
Power (from frequency converter)	0 kW
Controller output	55 %
Actual setpoint compensation	0 Pa
Supply air fan normal speed setpoint	25 Pa
Supply air fan reduced speed setpoint	25 Pa
Setpoint offset when free cooling	5
Outdoor comp curve pressure/flow setpoint	
Outdoor temperature for lower point	-20.0 °C
Pressure compensation at lower point	0 Pa
Outdoor temperature for higher point	30.0 °C
Pressure compensation at higher point	0 Pa
Pressure/flow compensation only supply air fan	Off
Frost protection	
Frost protection temperature	19.2 °C
Controller output	0 %

The third tab shows you the current inputs and outputs from your air handling unit.

S10 R&D Back

Overview Actual/Setpoint **Input/Output** Time control Manual/Auto Alarm status Settings Chart

Analogue inputs			Analogue outputs		
AI1	Not used	NaN	AO1	Not used	0.0
AI2	Supply air temp (°C)	19.8	AO2	Heating Y1	2.0
AI3	Not used	NaN	AO3	Cooling Y3	0.0
AI4	Frost protection temp (°C)	19.3	AO4	Not used	0.0
UAI1	Room temp 1 (°C)	25.0	AO5	Not used	0.0
UAI2	Room temp 2 (°C)	23.7	Exp1AO1	Not used	0.0
UAI3	Extra sensor 1 (°C)	24.1	Exp1AO2	Not used	0.0
UAI4	SAF pressure (Pa)	31.2	Exp1AO3	Exchanger Y2	4.4
Exp1AI1	Not used	0.0	Digital outputs		
Exp1AI2	Not used	0.0	DO1	Not used	Off
Exp1AI3	EAF pressure (Pa)	35.4	DO2	Heating pump start	Off
Exp1AI4	Not used	0.0	DO3	Cool step 1	Off
Digital inputs			DO4	Sum alarm	On
DI1	Not used	On	DO5	Exhaust air damper	On
DI2	Not used	On	DO6	Not used	Off
DI3	Extended operation normal	Off	DO7	Not used	Off
DI4	Cooling pump indication	On	Exp1DO1	Not used	Off
DI5	Fire alarm	On	Exp1DO2	Fresh air damper	On
DI6	Not used	On	Exp1DO3	Not used	Off
DI7	Not used	Off	Exp1DO4	Not used	Off
DI8	Extended operation reduced	Off			
UDI1	Not used	Off			
UDI2	Not used	Off			
UDI3	Not used	Off			
UDI4	Not used	Off			
Exp1DI1	Not used	On			
Exp1DI2	Not used	On			
Exp1DI3	Not used	Off			
Exp1DI4	Not used	Off			

On the fourth tab you can set the time settings for the air handling unit.

S10 R&D Back

Overview Actual/Setpoint Input/Output **Time control** Manual/Auto Alarm status Settings Chart

Normal speed					Holiday schedule		
	Start	Stop	Start	Stop		Start date	End date
Monday	05.00	18.00	00.00	00.00	Holiday period 1	1 Jan	1 Jan
Tuesday	05.00	18.00	00.00	00.00	Holiday period 2	1 Jan	1 Jan
Wednesday	05.00	18.00	00.00	00.00	Holiday period 3	1 Jan	1 Jan
Thursday	05.00	18.00	00.00	00.00	Holiday period 4	1 Jan	1 Jan
Friday	04.00	18.00	00.00	10.00	Holiday period 5	1 Jan	1 Jan
Saturday	13.00	14.00	00.00	00.00	Holiday period 6	1 Jan	1 Jan
Sunday	14.00	17.00	00.00	00.00	Holiday period 7	1 Jan	1 Jan
Holiday	00.00	00.00	00.00	00.00	Holiday period 8	1 Jan	1 Jan
Reduced speed					Holiday period 9	1 Jan	1 Jan
Monday	00.00	00.00	00.00	00.00	Holiday period 10	1 Jan	1 Jan
Tuesday	00.00	00.00	00.00	00.00	Holiday period 11	1 Jan	1 Jan
Wednesday	00.00	00.00	00.00	00.00	Holiday period 12	1 Jan	1 Jan
Thursday	00.00	00.00	00.00	00.00	Holiday period 13	1 Jan	1 Jan
Friday	00.00	00.00	00.00	00.00	Holiday period 14	1 Jan	1 Jan
Saturday	00.00	00.00	00.00	00.00	Holiday period 15	1 Jan	1 Jan
Sunday	00.00	00.00	00.00	00.00	Holiday period 16	1 Jan	1 Jan
Holiday	00.00	00.00	00.00	00.00	Holiday period 17	1 Jan	1 Jan
					Holiday period 18	1 Jan	1 Jan
					Holiday period 19	1 Jan	1 Jan
					Holiday period 20	1 Jan	1 Jan
					Holiday period 21	1 Jan	1 Jan
					Holiday period 22	1 Jan	1 Jan
					Holiday period 23	1 Jan	1 Jan
					Holiday period 24	1 Jan	1 Jan

The fifth tab shows you the current settings for the air handling unit elements.

The screenshot shows the 'Manual/Auto' tab of the S10 R&D control interface. The interface includes a navigation bar with tabs: Overview, Actual/Setpoint, Input/Output, Time control, Manual/Auto (selected), Alarm status, Settings, and Chart. A 'Back' button is in the top right corner. The main content area is divided into two columns of settings:

Section	Parameter	Value
Supply air	Mode	Auto
	Controller output	40 %
Frequency controlled supply air fan	Mode	Auto
	Controller output	67 %
Frequency controlled extract air fan	Mode	Auto
	Controller output	55 %
Exchanger	Mode	Auto
	Controller output	44 %
Heater	Mode	Auto
	Controller output	0 %
Cooler	Mode	Auto
	Controller output	0 %
Ventilation unit	Mode	Auto
	Mode	Normal run
Supply air fan	Mode	Auto
	Normal speed	On
	Reduced speed	On
Extract air fan	Mode	Auto
	Normal speed	On
	Reduced speed	On
Exchanger pump	Mode	Auto
	Pump	On
Heater pump	Mode	Auto
	Pump	Off
Cooler pump	Mode	Auto
	Pump	Off
Fresh air damper	Mode	Auto
	Damper	Open
Exhaust air damper	Mode	Auto
	Damper	Open
Pretreatment	Mode	Auto
	Output	Off

On the sixth tab you can see if there are current alarms you must be aware of.

The screenshot shows the 'Alarm status' tab of the S10 R&D control interface. The interface includes a navigation bar with tabs: Overview, Actual/Setpoint, Input/Output, Time control, Manual/Auto, Alarm status (selected), Settings, and Chart. A 'Back' button is in the top right corner. The main content area is divided into two columns:

Show class	Alarm object	Alarm class	Status
All classes <input checked="" type="checkbox"/>	Malfunction supply air fan	Alarm class B	Normal
Alarm class A <input checked="" type="checkbox"/>	Malfunction extract air fan	Alarm class B	Normal
Alarm class B <input checked="" type="checkbox"/>	Malfunction P1 heater	Events	Normal
Alarm class C <input checked="" type="checkbox"/>	Malfunction P1 cooler	Alarm class B	Normal
Events <input type="checkbox"/>	Malfunction P1 exchanger	Alarm class B	Normal
	Filter guard 1	Alarm class B	Normal
	Flow guard	Alarm class A	Normal
	External frost guard	Alarm class A	Normal
	Deicing pressure guard	Events	Normal
	Fire alarm	Alarm class A	Normal
	External switch	Alarm class C	Normal
	External alarm	Events	Normal
	Supply air control error	Alarm class B	Normal
	High supply air temp	Alarm class B	Normal
	Low supply air temp	Alarm class B	Normal
	Supply air temp max limit	Events	Normal
	Supply air temp min limit	Events	Normal
	High room temp	Alarm class B	Normal
	Low room temp	Alarm class B	Normal
	High extract air temp	Alarm class B	Normal
	Low extract air temp	Alarm class B	Normal
	Electric heating is overheated	Events	Normal
	Frost risk	Alarm class B	Returned
	Low frost guard temp	Alarm class A	Normal
	Low efficiency	Alarm class B	Normal
	Sensor error outdoor temp	Alarm class B	Normal
	Rotation sentinel exchanger	Alarm class B	Normal
	Supply air fan control error	Events	Normal
	Extract air fan control error	Events	Normal

On the left side, there are filters for 'Show status':

- All statuses
- Normal
- Blocked
- Acknowledged
- Returned
- Alarmed

Buttons for 'Acknowledge', 'Block', and 'Unblock' are also present.

In the alarm status dialogue you can change status of current alarms via the “Acknowledge”, “Block” or “Unblock”. You just select the alarm and select whether you want to Acknowledge or Block the alarm. If you select “Acknowledge”, the alarm will be turned off and it will reappear if the same error occurs. If you select “Block”, the alarm will be turned off, and it will not come back. Blocked alarms can be activated again via “Unblock”.

<input checked="" type="checkbox"/> Acknowledge	Low supply air temp	Alarm class B	<input checked="" type="checkbox"/> Normal
<input type="checkbox"/> Block	Supply air temp max limit	Events	<input checked="" type="checkbox"/> Normal
<input type="checkbox"/> Unblock	Supply air temp min limit	Events	<input checked="" type="checkbox"/> Normal
	High room temp	Alarm class B	<input checked="" type="checkbox"/> Normal
	Low room temp	Alarm class B	<input checked="" type="checkbox"/> Normal
	High extract air temp	Alarm class B	<input checked="" type="checkbox"/> Normal
	Low extract air temp	Alarm class B	<input checked="" type="checkbox"/> Normal
	Electric heating is overheated	Events	<input checked="" type="checkbox"/> Normal
	Frost risk	Alarm class B	<input checked="" type="checkbox"/> Returned
	Low frost guard temp	Alarm class A	<input checked="" type="checkbox"/> Normal

On the seventh tab you can edit the settings for the air handling unit elements.

S10 R&D
Back

Overview
Actual/Setpoint
Input/Output
Time control
Manual/Auto
Alarm status
Settings
Chart

Controller settings

Supply air

P-band 100 °C

I-time 100 s

Frequency controlled supply air fan

P-band pressure 300 Pa

I-time 60 s

Min output signal 0 %

Frequency controlled extract air fan

P-band pressure 200 Pa

I-time 60 s

Min output signal 0 %

Frost protection

P-band 30 °C

I-time 100 s

Alarm settings

General

Alarm hysteresis 0.2

Malfunction supply air fan

Class B

Delay 240 s

Stop ventilation unit if alarm active Yes

Alarm text Malfunction supply air fan

Malfunction extract air fan

Class B

Delay 180 s

Stop ventilation unit if alarm active Yes

Alarm text Malfunction extract air fan

Malfunction P1 heater

Class Disabled

Delay 5 s

Stop ventilation unit if alarm active No

Alarm text Malfunction P1 heater

Malfunction P1 cooler

Class B

Delay 1 s

Stop ventilation unit if alarm active No

Alarm text Malfunction P1 cooler

Malfunction P1 exchanger

Class B

Delay 20 s

Stop ventilation unit if alarm active No

Alarm text Malfunction P1 exchanger

On the last tab you can get a quick overview of the operation. Here you can select which parameters will be shown in the chart by clicking on the sensor names above the chart. You can export the values into Excel by clicking the “Export to Excel”.



