Quick Guide NaviPad
Access sw 4.0-1-04

GB

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systemair

Contents

1 General

NaviPad is Systemair's user interface with a 7” capacitive touch screen. The user interface provides operation information about the connected air handling units and allows you to control all functions. You navigate by pressing the touchscreen, to activate a function, change setting or by reading values in real time.

After 5 min inactivity the screen activate sleep mode, you return to the screen you left by pressing the touchscreen. After additional 10 min. inactivity you return to the system overview dashboard (figure 3) and have to log in again.

Editable text and values are shown in blue and differs depending on user level.

Since the user interface of the air handling unit consists of a web server with web pages it is possible to use a computer to browse the user interface. Identify the IP address of the air handling unit with NaviPad, see Example 4 and then write it in the address field of an internet browser.

Important

- The air handling unit and the NaviPad as well as any computer has to be connected on a local network with the same IP subnet.
- Chrome browser for computer is supported to navigate the web pages of the air handling unit.

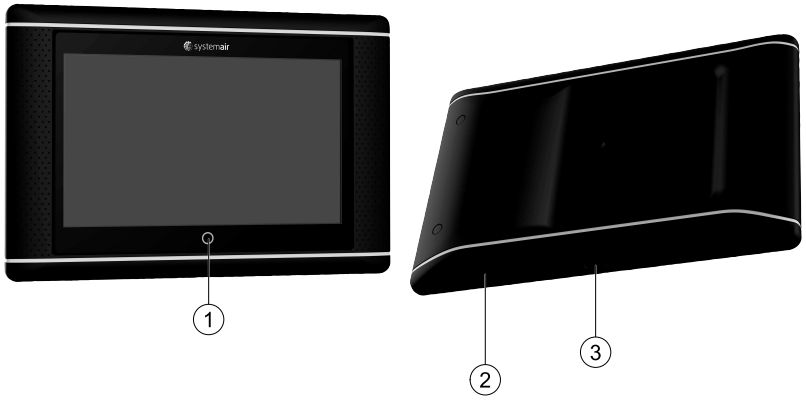


Fig. 1 (1) Home button, (2) USB connection, reboot button, (3) power supply and communication

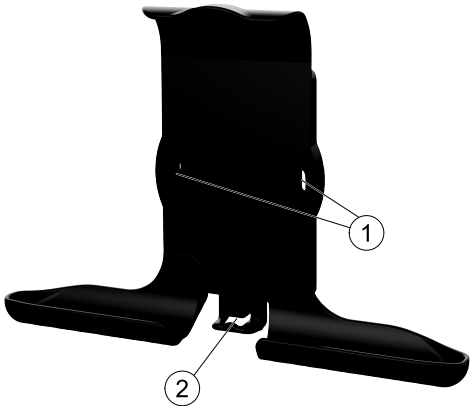


Fig. 2 Holder for NaviPad, (1) fixing points, (2) cable hook

Attach holder to air handling unit with enclosed screws (wall mounting is also possible, use fastenings suitable to the walls structure).

1.1 Start-up wizard

At the first start up of NaviPad you need to calibrate the screen by pressing lightly on the cross marks.

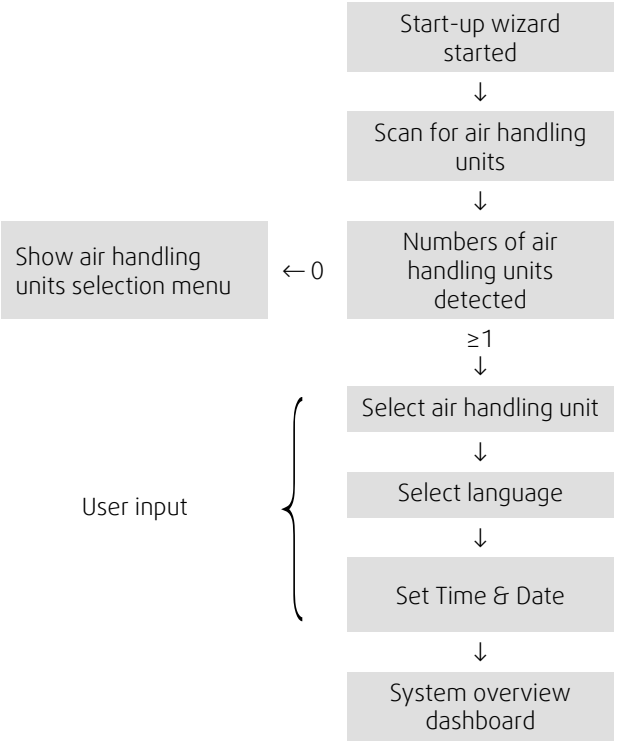
Then you will be requested to fill in following information:

- Language
- Time & Date

Available air handling units will be shown in the device list. Choose the air handling unit you want to pair with your NaviPad. Use the controller's serial number in the air handling unit to be sure to pair the correct air handling unit with NaviPad.

If the start-up wizard is cancelled it will start again during next power up of the NaviPad, this will continue until start-up wizard is successfully finished.

Version: PR1.2 (1.1.0.128) and later



After the start-up wizard is completed the system overview dashboard is shown. Press on the picture of the air handling unit to access.

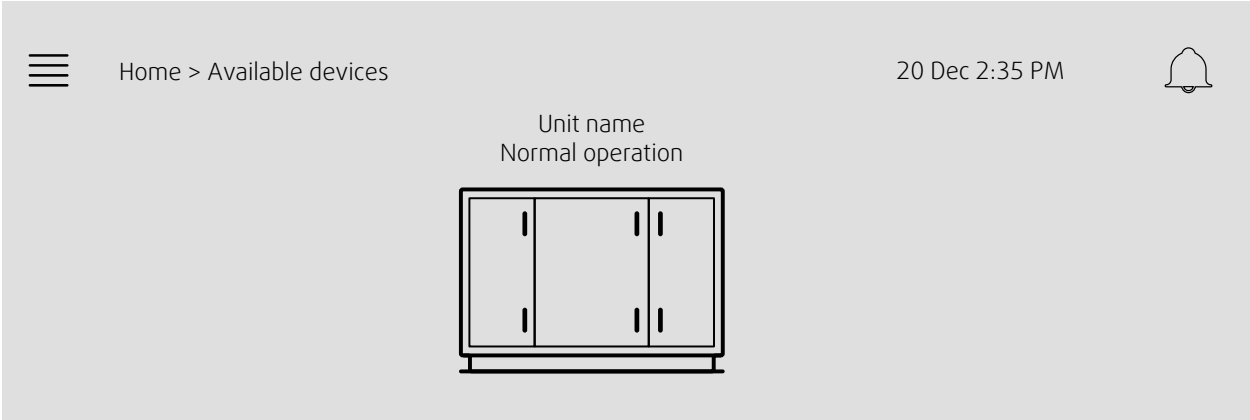


Figure 3: System dashboard

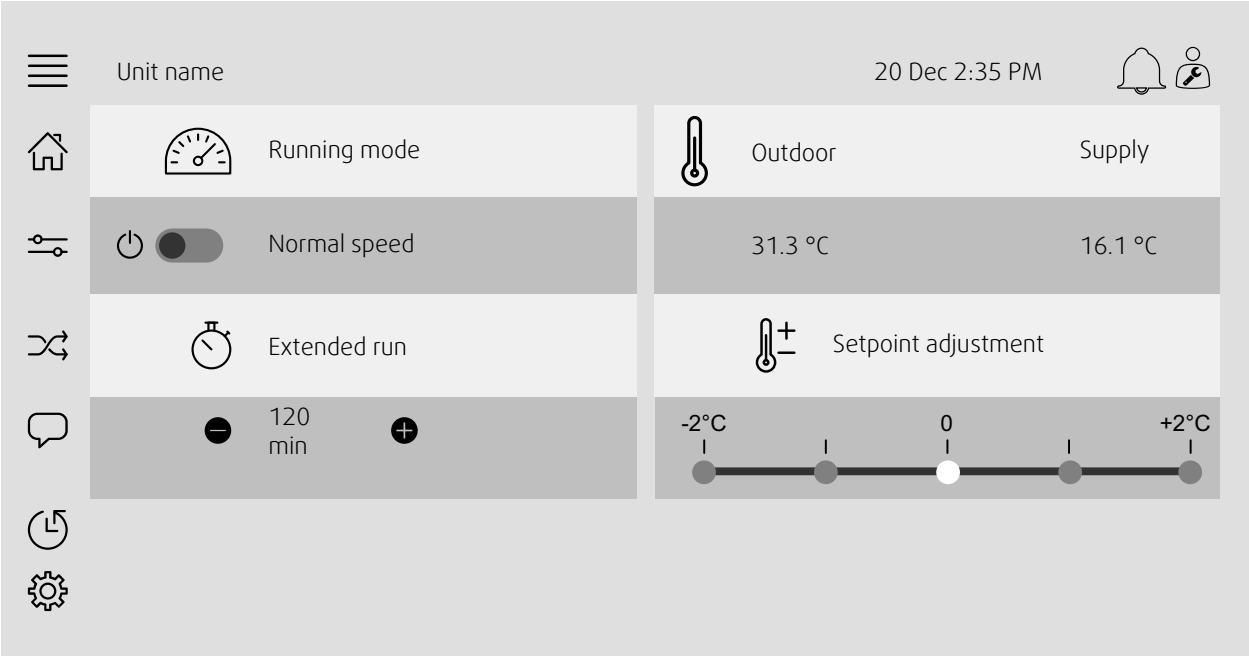


Figure 4: The home page shows an overview of the air handling unit operation status.

Note:
You can always return to system overview dashboard by pressing the home button, figure 1, (1).

1.2 Key board

When a name, value or password need to be changed/written a key board will appear at the bottom of the touchscreen.

1.3 Symbol description

Home (home page)

Data and settings
Shows operating information and settings

Flow diagram
A schematic overview of the air handling unit and its components

Language
Change language

Time and date
Weekly schedule

Configuration
Alarm and functions configurations, I/O allocation settings

Alarm symbol, indicates if there are active alarms. One press on the symbol will direct you to the alarm list.

1.4 User levels

End user When logged out	Read /write — Home page (Figure 1) Possible actions in end user mode are to stop the air handling unit for maintenance (e.g. filter exchange), change the time for extended run and change the temperature setpoint. Flow diagram and active alarms in alarm list are visible.
Operator mode — log in with 1111 Logged in	Read and write privileges (except `Configuration`). Acknowledge/block/unblock alarms and view the alarm history.
Service mode — log in with 0612 Logged in	Full read and write privileges.

2 Alarms

A LED-light in the home button, figure 1, (1) indicate the status of the air handling unit.

- Fixed green — Status ok (no active alarms).
- Flashing red — Active/returned alarms in one or several air handling units.
- Fixed red — Acknowledged/blocked alarms in one or several air handling units, alarms not reset.

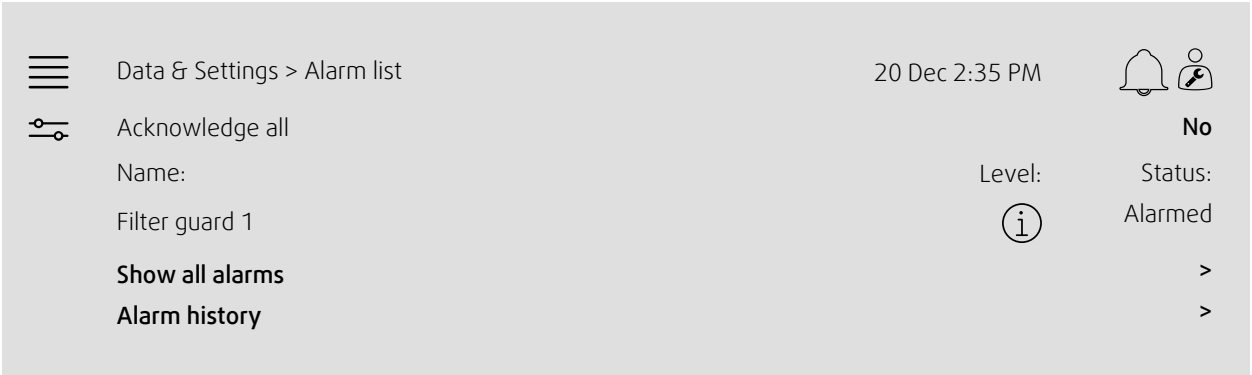
Different alarm levels

Class A alarm
Needs to be acknowledged

Class B alarm
Needs to be acknowledged

Class C alarm
Returns when the cause of the alarm disappear

2.1 Alarm list



Alarm status:

- Alarmed
- Acknowledged
- Blocked
- Returned

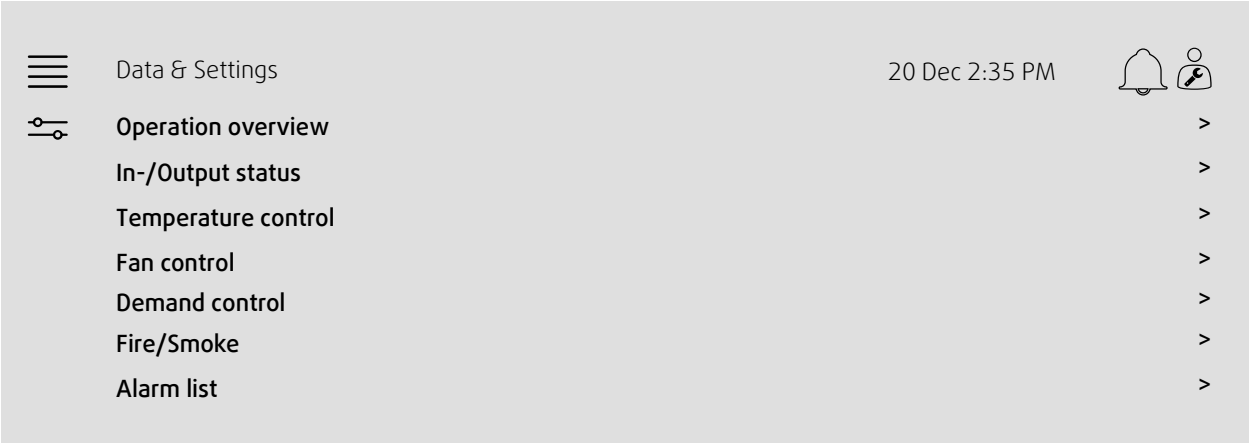
Accessible when pressing the alarm symbol.

Enter the current alarm and choose action; acknowledge, block or unblock.

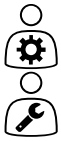
3 Controller settings

Menus and functions may differ depending on actual configuration and/or application version running in the air handling unit.

3.1 Data & Settings



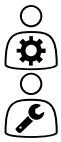
3.1.1 Operation overview



Value of active signals
I/O signals and operation mode.

- Temperature
- Air flow/pressure
- CO2
- RH
- Heating
- Exchanger
- Cooler
- Recirculation

3.1.2 In- and output status



I/O status
Total overview of:

- Sensors
- I/O
- Fan control
- Temperature sequencing
- Running mode

All can be controlled in manual mode.

- Manual setting of temperature sensor
- Locking of fans at adjustment
- Manually I/O testing of external functions
- Raw values

3.1.3 Temperature control

Settings for temperature.

- Limit values
- *Setpoint for current control type (Example 1)*
- Min/max limitation
- Outdoor temperature values

Example 1: Setpoint for current control type

Data & Settings > Temperature control > Supply air controller	20 Dec 2:35 PM	
Supply air temperature		10.4 °C
Setpoint adjustment		0 °C
Setpoint adjustment low speed		0 °C
Setpoint adjustment high speed		0 °C
Setpoint Supply air		**18 °C**

Example show temperature control type set to supply air. To change the setpoint, press on the current value and change to desired setting in the following pop-up menu. Confirm with ok. (Editable text and values are shown in blue on NaviPad.)

3.1.4 Fan control

Settings for fan control.

- Setpoint for different fan speed
- Fan compensation e.g. outdoor compensated fan curves
- Start delay of fans, shut of dampers etc.
- SFP menu
- External fans

3.1.5 Demand control

Settings for:

- CO2
- Recirculation
- Support control
- Free cooling

3.1.6 Fire/Smoke

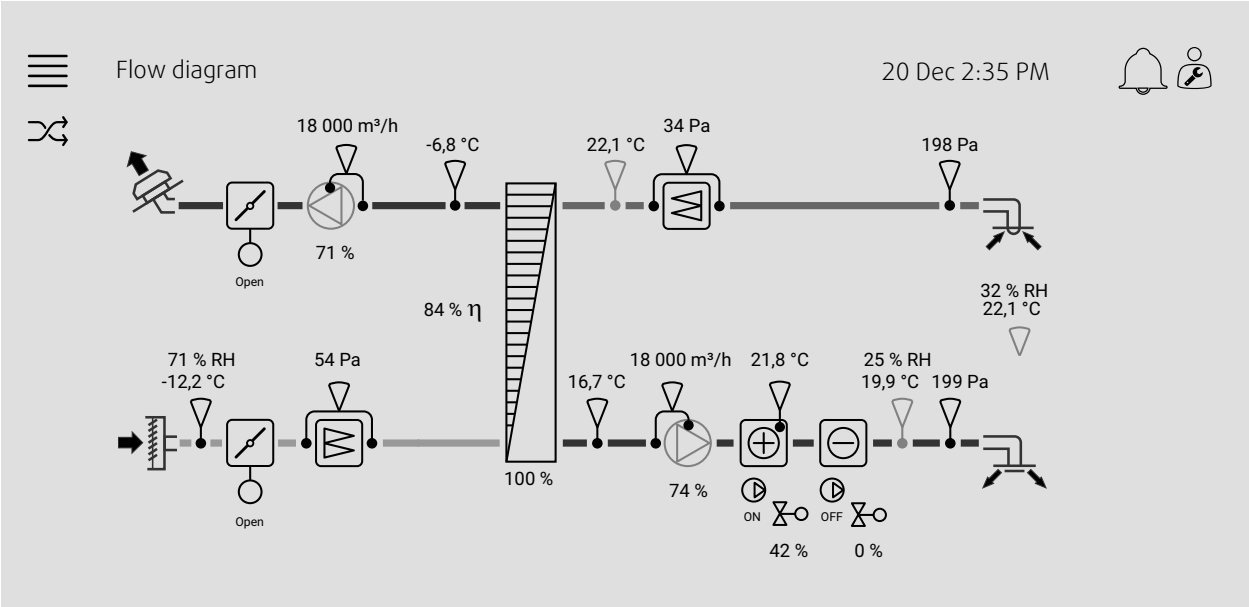
Settings for:

- Fire dampers
- Smoke detector status
- Fire damper test

3.1.7 Humidity control

Setpoints and settings for dehumidification and humidification

3.2 Flow chart



Dynamic flow chart of current configured air handling unit. Active sensors and components are visible with values shown in real time. When pressing on values or items marked in blue you will be forwarded to related settings and/or overview page.

3.3 Language

Settings of language.

- To synchronize NaviPad with all connected air handling units, go to system dashboard by pressing the home button figure 1, (1). Press and , choose language.
- Using in selected air handling units homepage via NaviPad or computer will only change language in the selected air handling unit.

3.4 Time Settings

In this menu date and time can be changed as well as other system settings.
Settings for:

- Date and time
- *Schedule for operating time (Example 2 & 3)*
- Schedule for holiday
- Schedule for extra time groups

Each day has up to two individual running periods, set desired start and stop time.
For holidays, set the dates in `Time settings` > `Schedule` > `Holiday calendar` and the time in `Time settings` > `Schedule` > `Fan Low Speed/Fan Normal Speed/High Speed`.

Example 2: Schedule for normal fan speed

Time settings > Schedule > Fan Normal Speed 20 Dec 2:35 PM

	Start	Stop	Start	Stop
Monday (12–hour clock system)	**5:00 AM**	**6:00 PM**	**12:00 AM**	**12:00 AM**
Monday (24–hour clock system)	**05:00**	**18:00**	**00:00**	**00:00**

In above example, the air handling unit starts at a normal fan speed at 5:00 AM (05:00) and stops at 6:00 PM (18:00). The second running period is deactivated.

Example 3: Schedule for low fan speed

Time settings > Schedule > Fan Low Speed 20 Dec 2:35 PM

	Start	Stop	Start	Stop
Monday (12–hour clock system)	**6:00 PM**	**24:00 AM**	**12:00 AM**	**5:00 AM**
Monday (24–hour clock system)	**18:00**	**24:00**	**00:00**	**05:00**

In above example, the air handling unit starts at a low fan speed at 6:00 AM (18:00) and stops at 24:00 AM (24:00). The second running period on low fan speed is between 12:00 AM (00:00) and 5:00 AM (05:00).

3.5 Configuration

- System settings
- *Function (Example 4)*
- I/O allocation settings
- *Alarm configuration (Example 5)*
- PID controllers

Example 4: Function configuration

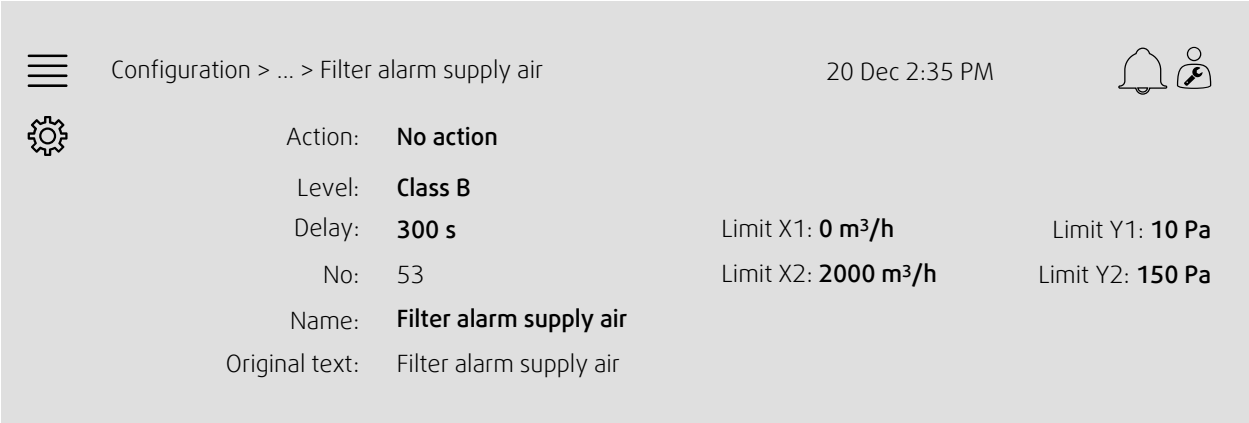
Configuration > Functions > Function activation	20 Dec 2:35 PM	
Fan compensation curves		Yes
Support control		No
CO2 Control		No

To activate a function go to `Function activation`. Choose function to activate and set Yes in the following pop-up menu. Values for the activated function are now visible and can be adjusted in `Data Settings`.

If required, allocate in- and outputs in `I/O allocation settings`.

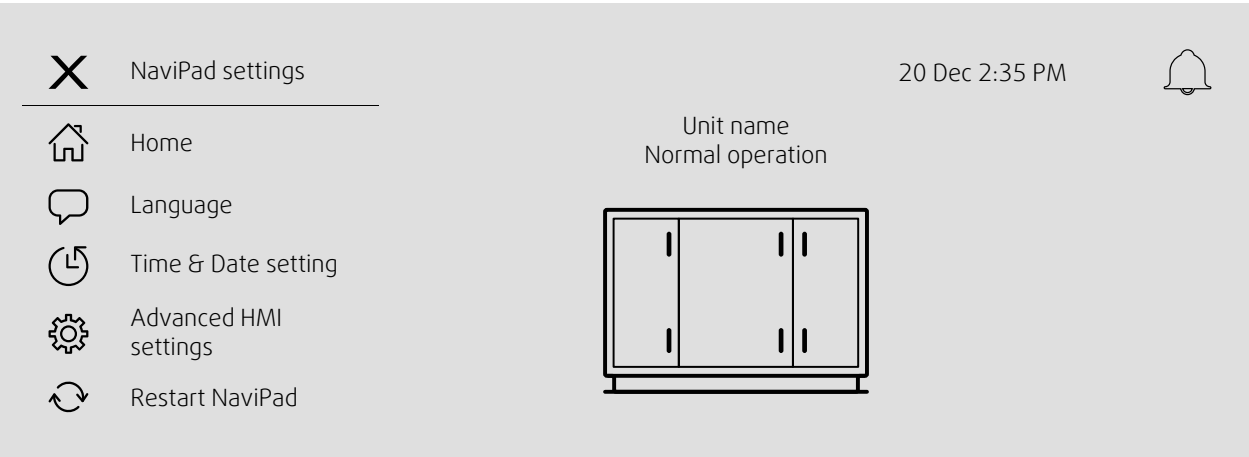
Example 5: Alarm configuration

Configuration > Alarms	20 Dec 2:35 PM	
Filter alarm supply air		53
Filter alarm extract air		54
Alarm low air flow		55
Freeze protection guard		56
Defrosting guard exchanger		57
Fire alarm		58
Smoke alarm		59



4 Advanced NaviPad Settings

Return to system overview dashboard by pressing on the home button, figure 1, (1). Go to and choose `Advanced NaviPad settings`. Login required — 1111



- *Available devices (air handling units) (Example 6)*
- Change Password
- Ethernet [1]
- *Restore NaviPad Factory Settings (Example 7)*
- Software Update [1]

[1] *Further information in document Access 4x Modbus_BACnet manual*

Example 6: Available devices (air handling units)

The air handling unit will appear, press the button to select the air handling unit to pair it with the NaviPad. If there are several air handling units at the same IP subnet, a list of available air handling units will be presented.

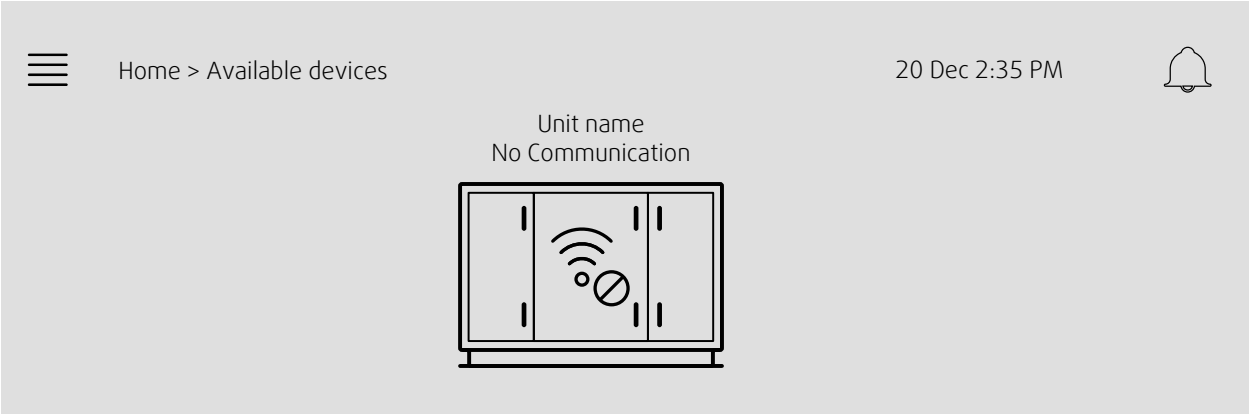
The IP address of NaviPad itself is presented above the Select device header

Example 7: Restore NaviPad factory settings

You will be requested to confirm your action.

All settings including password will be reset and Start-Up wizard will run again.

5 No communication



If the above symbol are shown the communication to the selected air handling unit is lost. One reason could be that the IP number has changed. Go back to available devices (air handling units), figur 4, and first deactivate all the air handling units and then activate them again.

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