1. Climatix Touch screen Manual

1.1. General

IV Product Touch screen POL8T 5.70/STD is an accessory, HMI-TOU. The hand-held terminal consists of a 7" (16:9) capacitive touch screen with a 3 metre cable where communication and 24 V supply are integrated in the same cable.
A 24 V DC transformer, that is located in the unit's control cabinet, supplies the hand-held terminal with voltage.
If the hand-held terminal is not used for 4 hours, it is signed out and the overview screen is shown.

2. Installation instruction

2.1. Installation instruction

There are 3 different installation methods depending on whether the hand-held terminal is to be used with direct connection via RS485, via the network or via the IV products' cloud service IV Produkt Cloud.

2.2. Direct connection

Direct connection

Direct connection is via the hand-held terminal's RS485 port and Climatix HMI port.
Connect the connector in the hand-held terminal's RS485 port as shown below.
This is the default connection on the hand-held terminal on delivery
, the LAN port is plugged with a blind plug.

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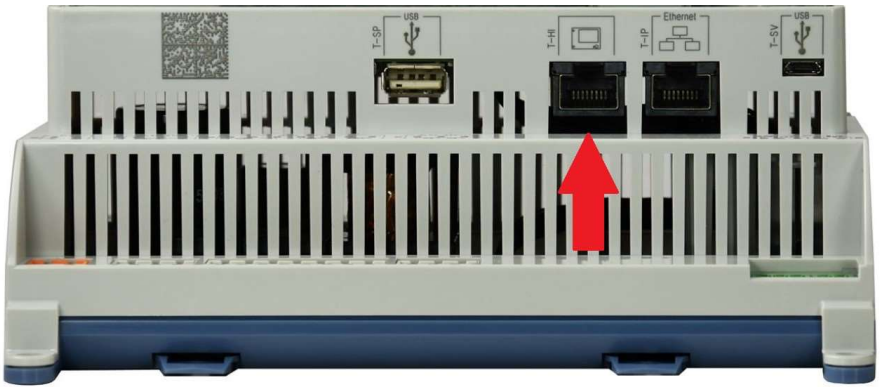
Now connect the cable from the hand-held terminal to the Climatix hand-held terminal port as shown below.



2.3. Network TCP/IP

Network TCP/IP

Connection via network TCP/IP occurs either directly to Climatix or via the network.
The supplied cable is not capable of communicating over a network, but must be replaced by a network cable for communication, however, the supplied cable can be used for the power supply to the hand-held terminal.
Remove the blind plug from the LAN port, and then connect the connector to the hand-held terminal's LAN port as shown in the figure below.

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Now connect the cable from the hand-held terminal to the Climatix Ethernet TCP/IP port as shown below.

2.4. IV Produkt Cloud

IV Produkt Cloud

For this option, the unit must be connected to IV products' cloud service, IV Produkt Cloud and there must be a network in the property to be able to connect both the unit and the hand-held terminal to the Internet.
The supplied cable is not capable of communicating over a network, but must be replaced by a network cable for communication, however, the supplied cable can be used for the power supply to the hand-held terminal.
Remove the blind plug from the LAN port, and then connect a network cable from the property network port to the hand-held terminal's LAN port as shown in the figure below.

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Now connect a network cable from the property's network to the Climatix Ethernet TCP/IP port as shown below.

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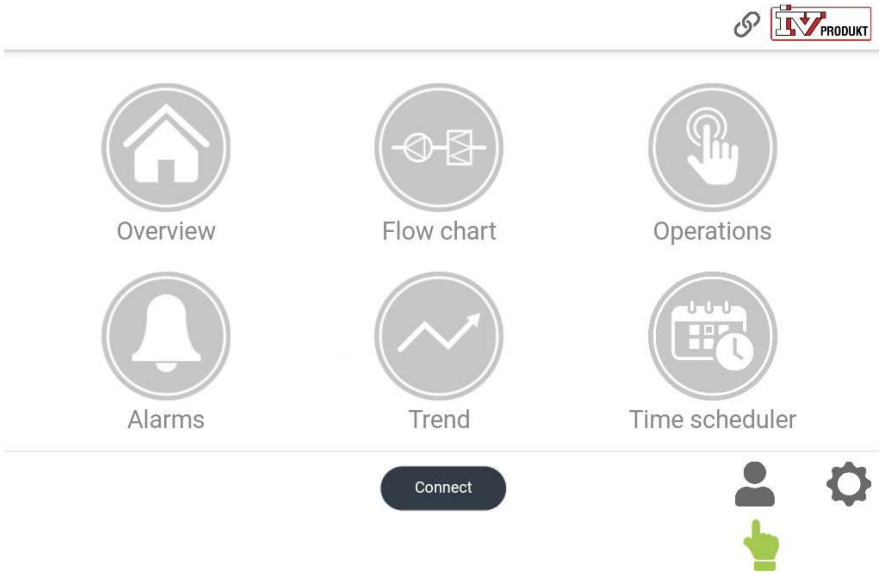
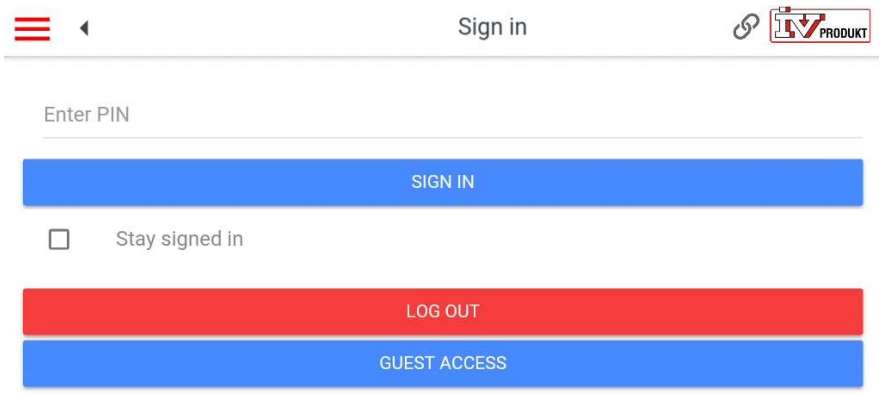
3. Login

3.1. Login

A login is necessary to access certain features and settings.
Click on the icon at the bottom right from the Start menu.



Enter the Climatix PIN (the same PIN as when logging in on hand-held terminal POL 895.50/STD) to sign in with the required authorisation level.
Guest access provides a login with the lowest authorisation level, as authorisation without key on hand-held terminal POL 895.50/STD.



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4. Connection

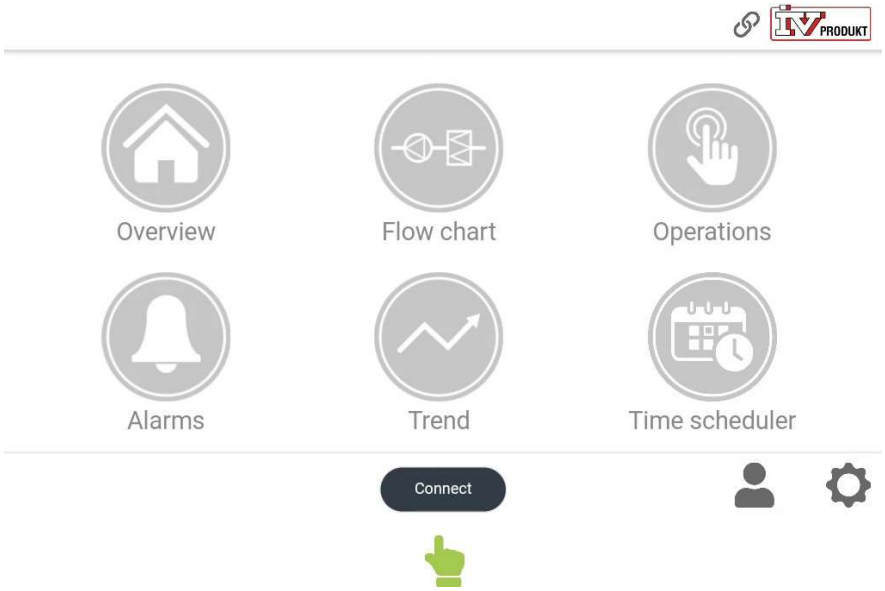
4.1. Connection

On delivery from the factory, the hand-held terminal is prepared for communication via direct connection.
If another means of communication is required follow the appropriate guide.

4.2. Direct connection

Direct Connection

In order to connect directly to Climatix, the hand-held terminal and Climatix need to be installed for direct connection.
Click on Connect from the Start menu.



Click on direct connection.

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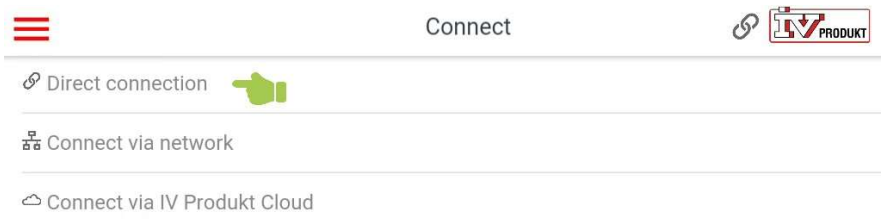
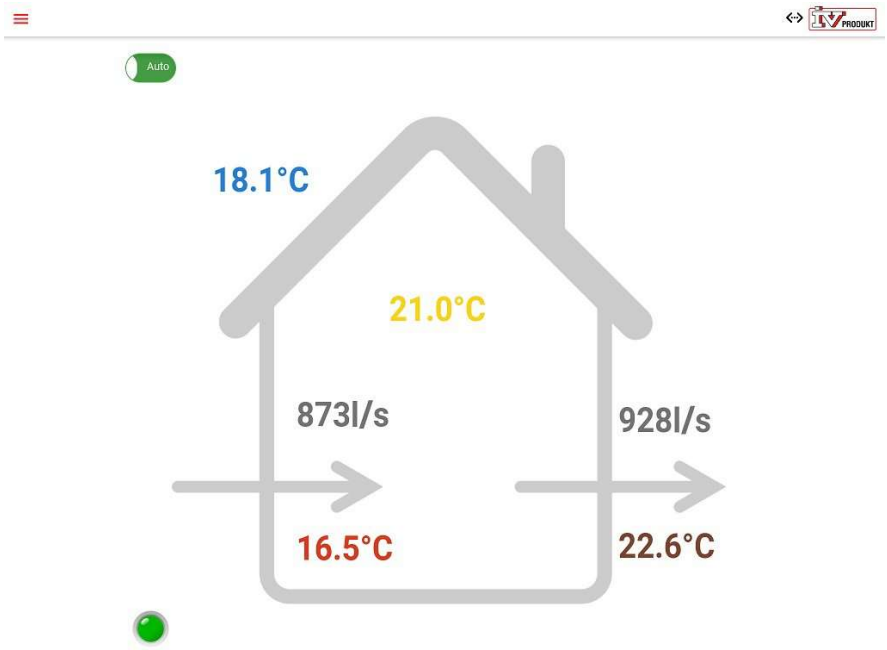


Here you can see the unit's overview page with temperatures and flows.



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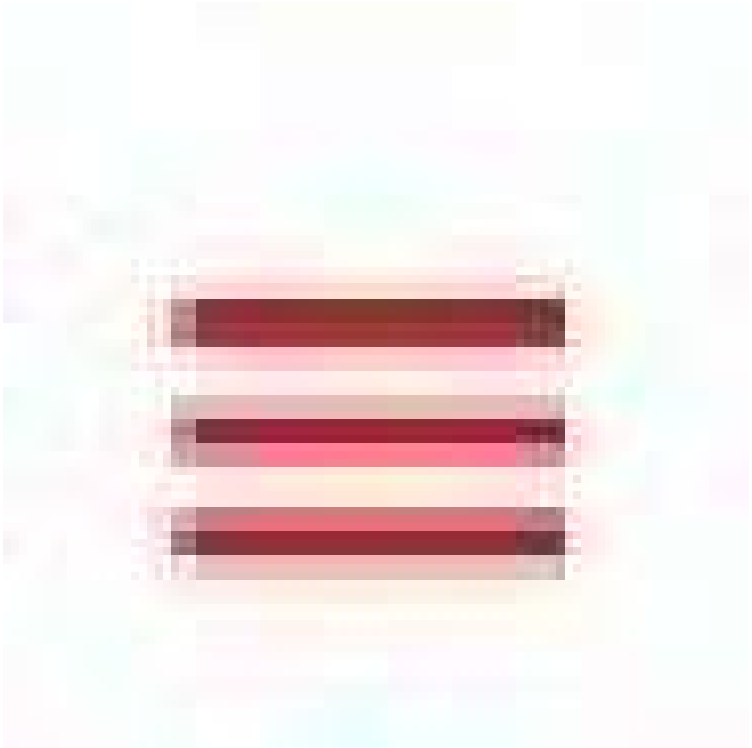

To access the start page click on .

4.3. Network TCP/IP

4.3.1. Network TCP/IP

In order to connect directly to Climatix, the hand-held terminal and Climatix need to be installed for network TCP/IP.
Click on Connect from the Start menu.

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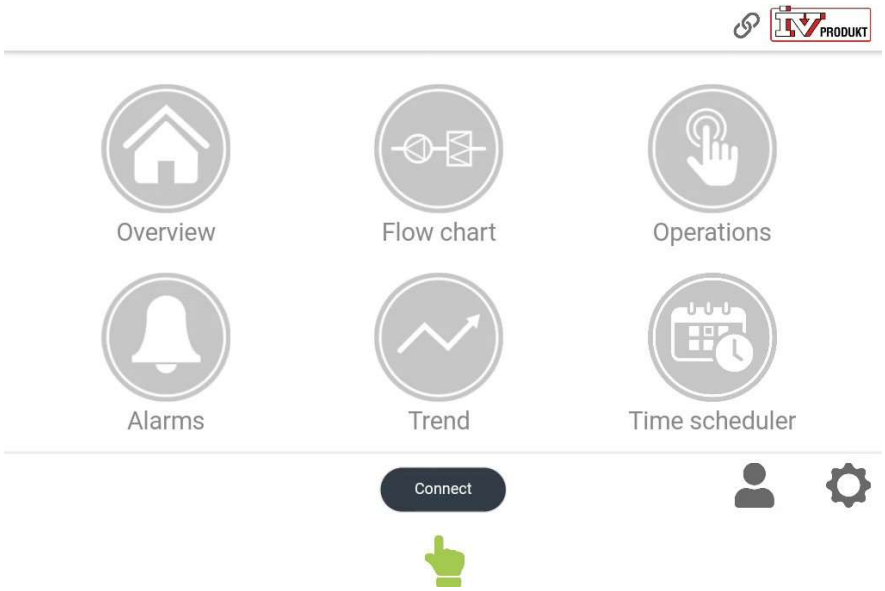
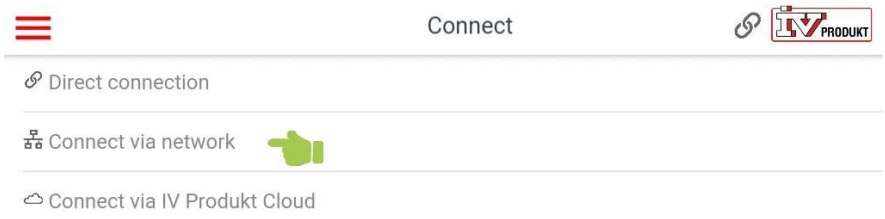


Click on Connect via network.



Click on Default to connect to existing installation (default IP address is 192.168.1.42).

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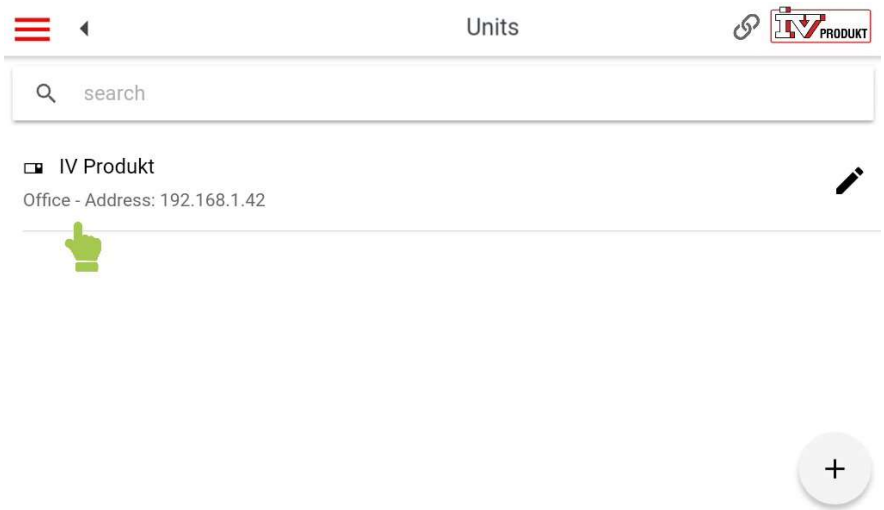
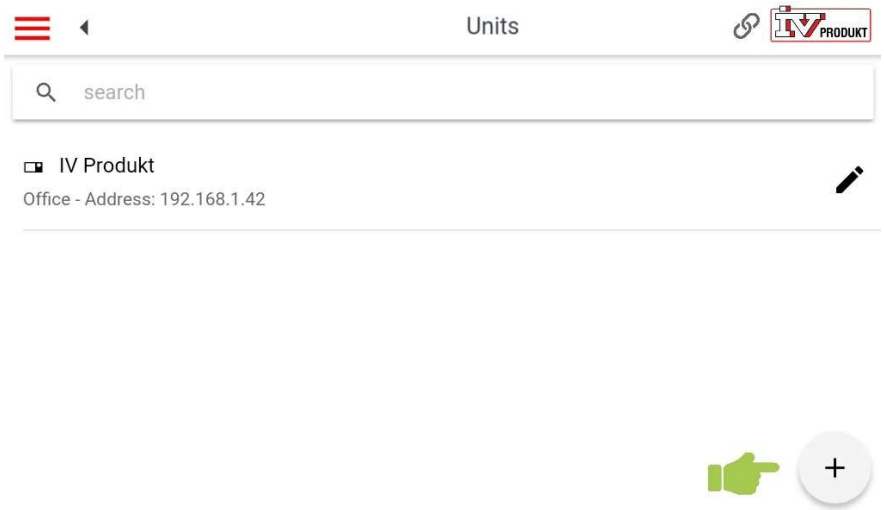


To add a new installation via network, click on the plus symbol in the bottom right-hand corner.



Enter the required information in the fields.
Note that below is only an example
The sections below HMI4WEB should not be changed

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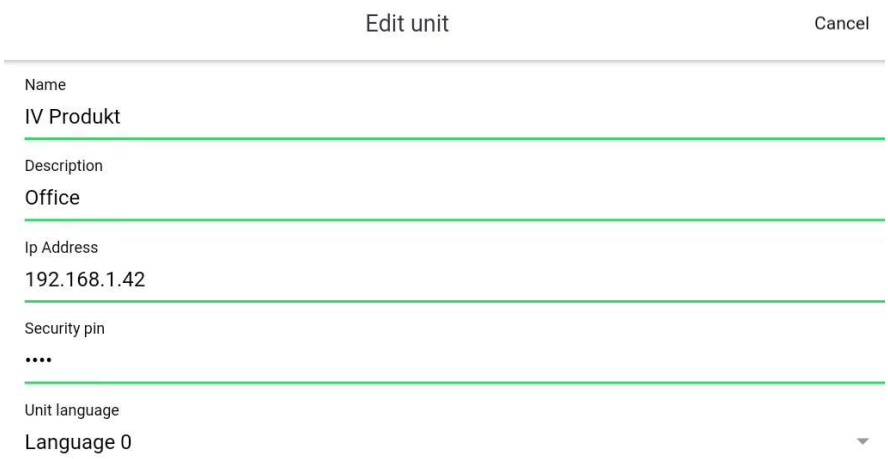
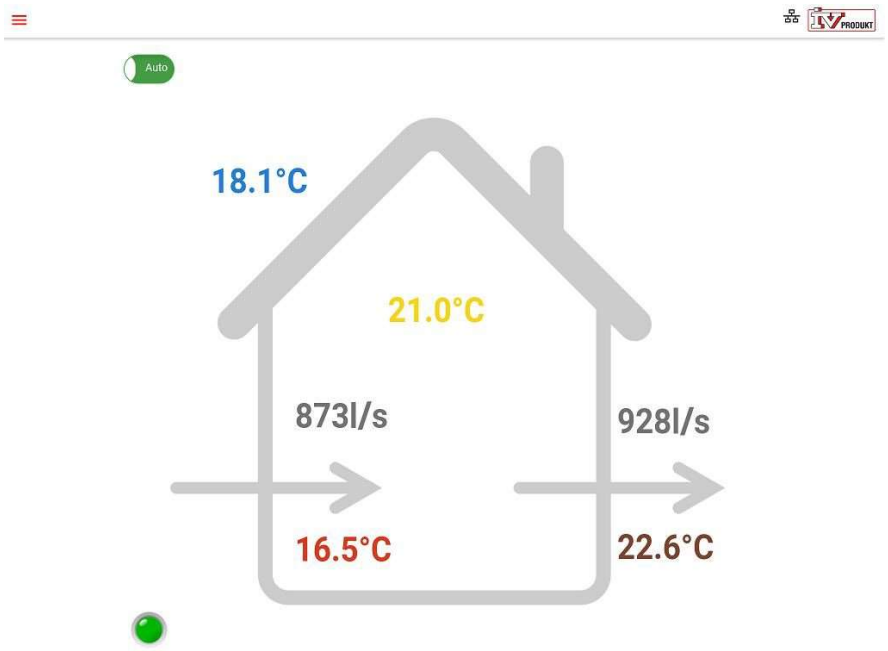


Click on Create further down on the page.

After the unit has connected, the overview page is displayed where you can see, for example, the unit's temperatures, flows and alarms.



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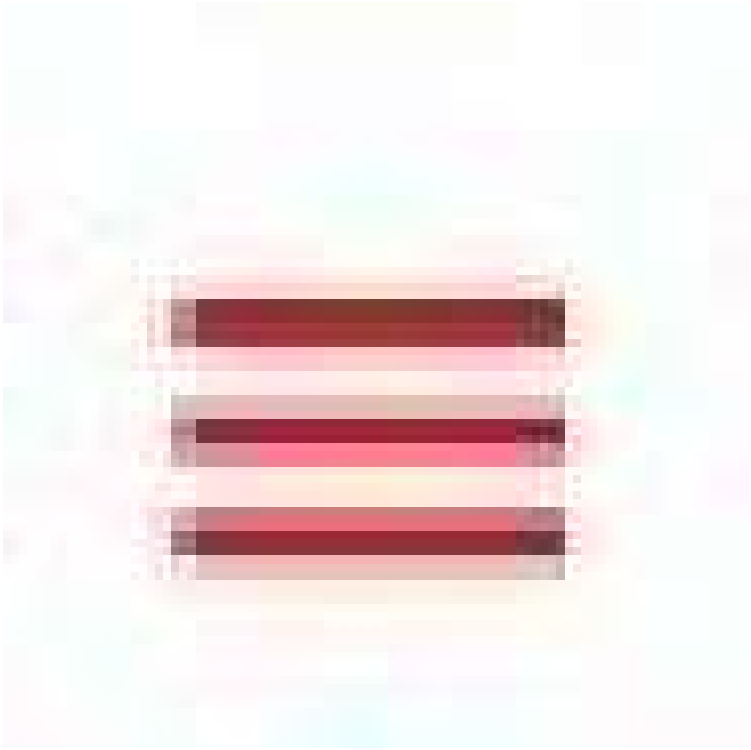
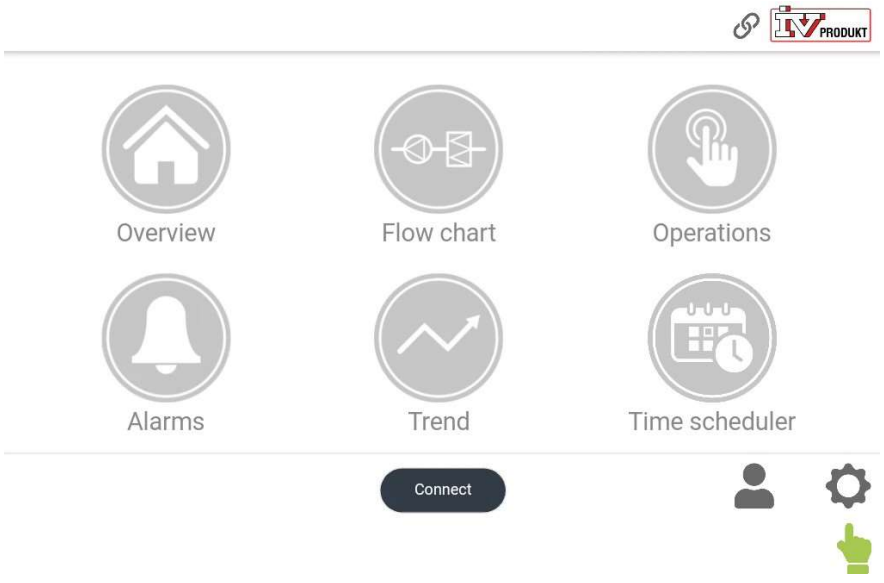


To access the home page, click .

4.3.1.1. Set the IP address for the touchscreen

The touchscreen has DHCP set as default. If the unit is connected to a network via a local network that does not issue IP addresses, an IP address must be issued to the touchscreen and the IP settings changed to static.
Click Settings (gear icon).



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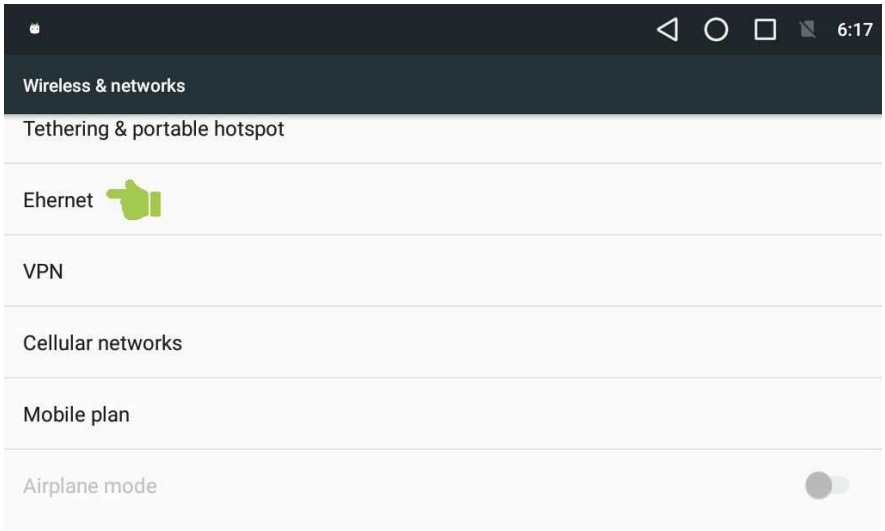
Click TCP/IP settings

Click Ethernet.



Make sure Ethernet is enabled.

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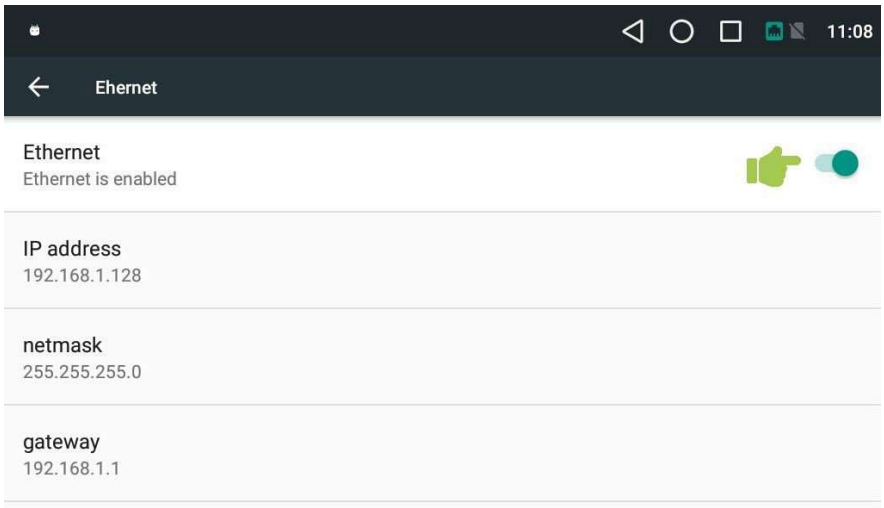
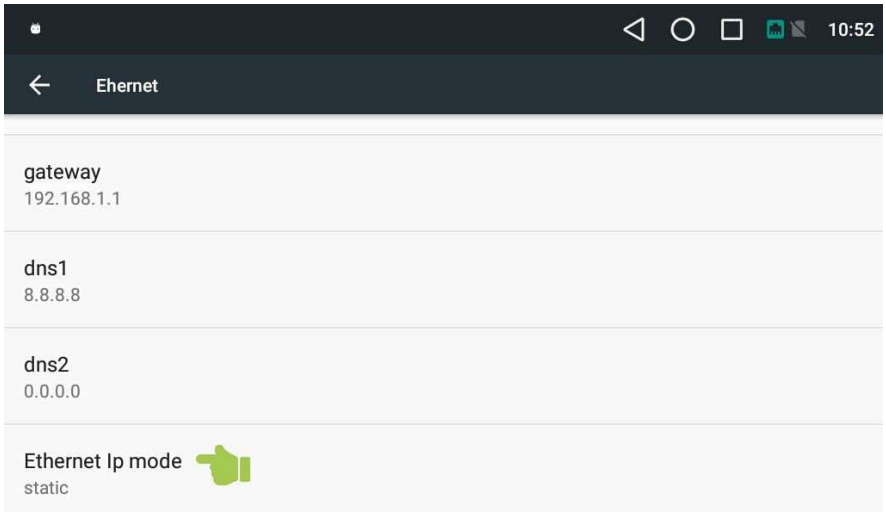


Scroll down and click Ethernet IP mode.



- Static = Used when the touchscreen should have a specific IP address (must be used if the network cannot issue an IP address).
- DHCP = The touchscreen is issued an available IP address (only works if the network is able to issue IP addresses

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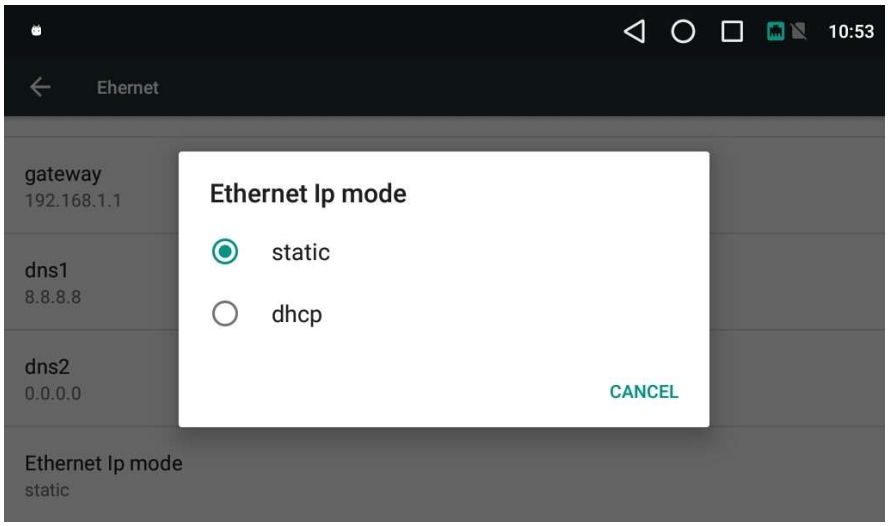
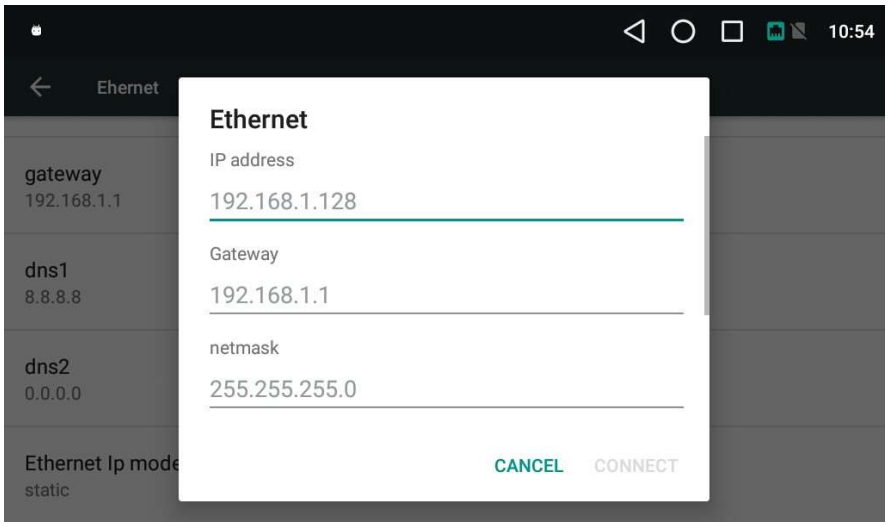
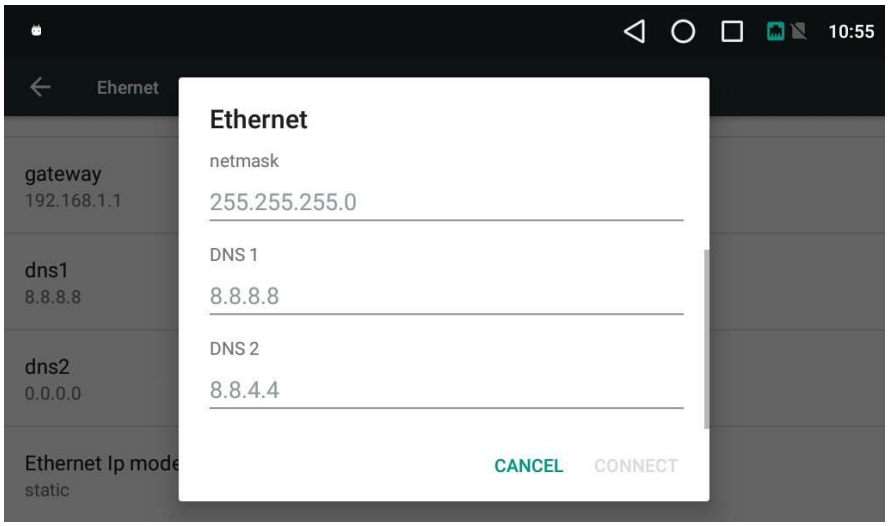


Click Static and enter the desired IP address, Gateway, Netmask, DNS 1 and DNS 2.





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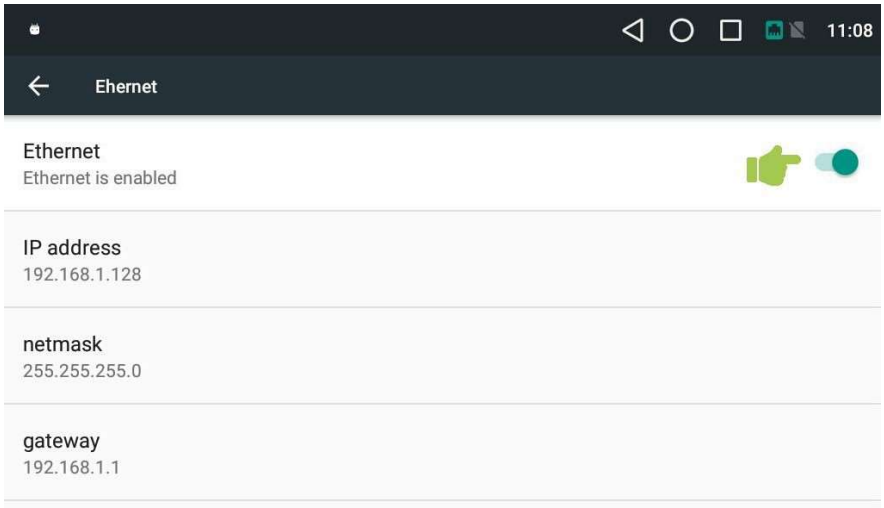
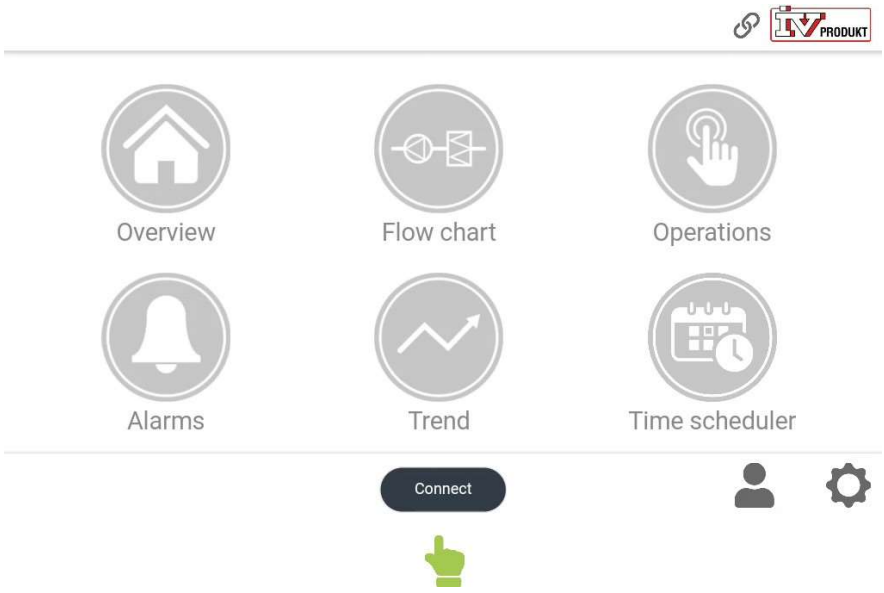
If the touchscreen does not accept the IP address immediately, Ethernet may need to be disabled and then enabled again.



4.4. IV Produkt Cloud

IV Produkt Cloud

In order to connect to Climatix via IV Products' cloud service IV Produkt Cloud requires a Cloud account and that the hand-held terminal and Climatix are installed for Cloud and that the unit and the hand-held terminal have Internet access.
Click on Connect from the start menu.



Click on Connect via IV Produkt Cloud.

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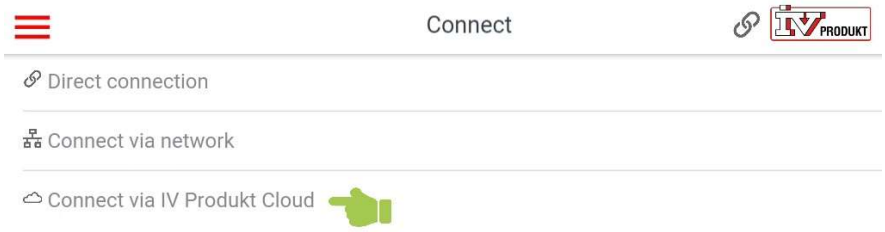
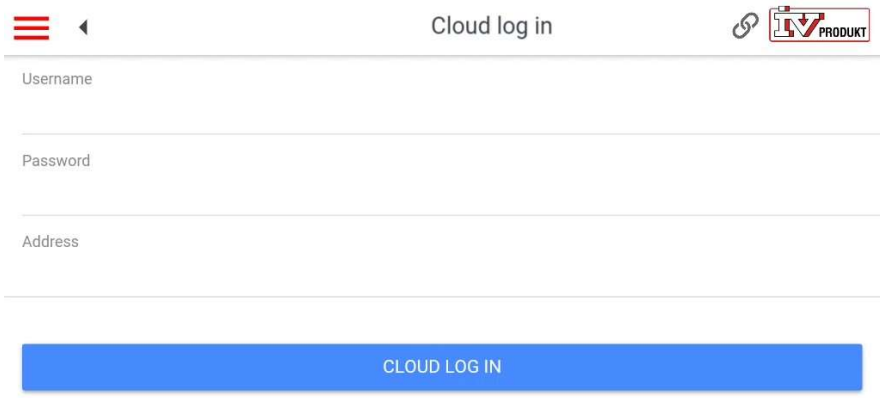


Enter the email address, password and address of the web page. Now click on Cloud log in.



The list shows all units linked with the IV Produkt Cloud account.

Click on the applicable unit.

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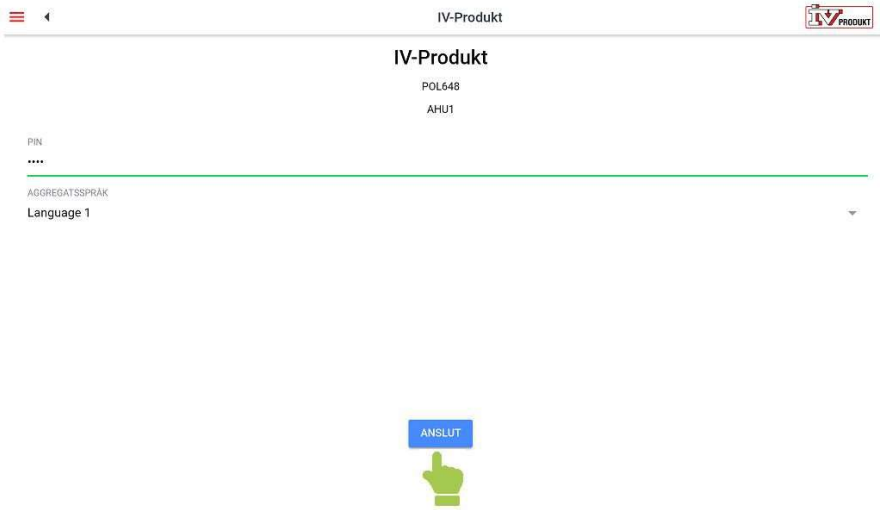
Enter the PIN for the required authorisation level. Now click on Connect.



After the unit has connected, the overview page is displayed where you can see, for example, the unit's temperatures, flows and alarms.

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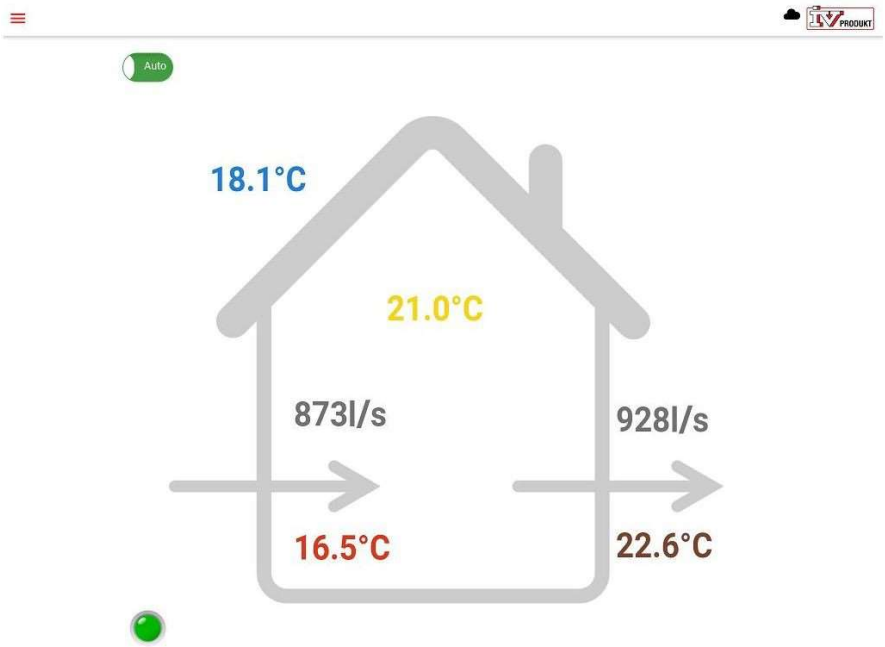

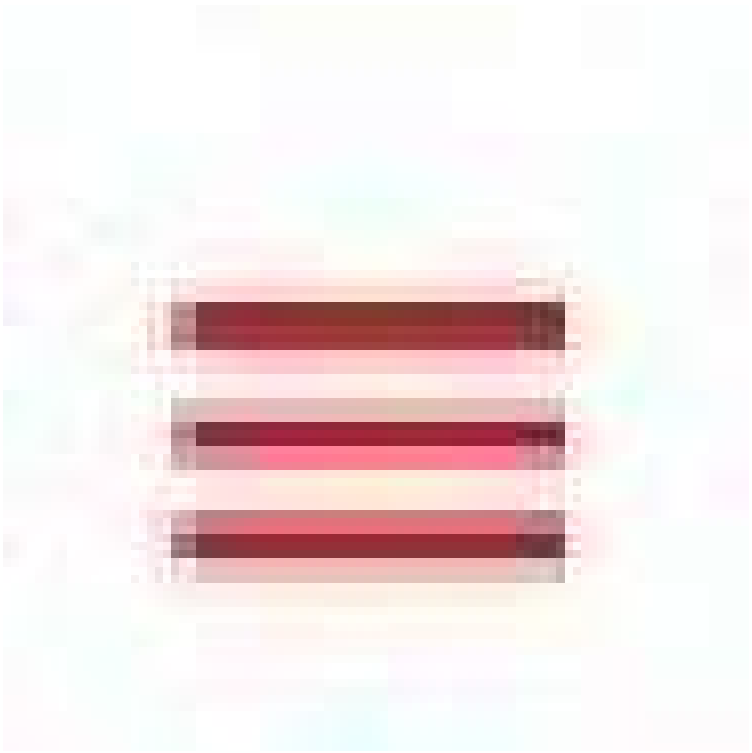

To access the start page click on .

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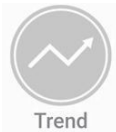
5. Menu, explanation

5.1. Menu, explanation

	Connect Connect to the unit by Direct Connection, Connect via network, or Connect via IV Produkt Cloud.
	Overview Turn the unit off and on using (Auto/off). See the flows and temperatures in the unit. The lamp indicates the operating mode. In the event of an alarm, the alarm clock is shown (this can then be pressed to access the alarm menu).
	Flow chart The unit in a basic flow chart, with current operating status, temperatures, pressures, flows, output signals, current setpoint values, etc. The page is generated automatically, based on the configuration. You can zoom in to enlarge the desired part of the flow chart
	Operations Climatix full menu structure to make configurations, advanced settings, etc.
	Alarms View and reset active alarms and view alarm history.
	**Trend** View trend curves for temperatures, pressures, flows, etc. in real-time. The trend objects are created via the operating manager.
	Time scheduler View the weekly time channel, set the desired duration and fan step, or expand with more times. Set exception times.
	Settings Touch screen settings such as language, TCP/IP settings, brightness, etc.
	Login Sign in or change the login authorisation level.

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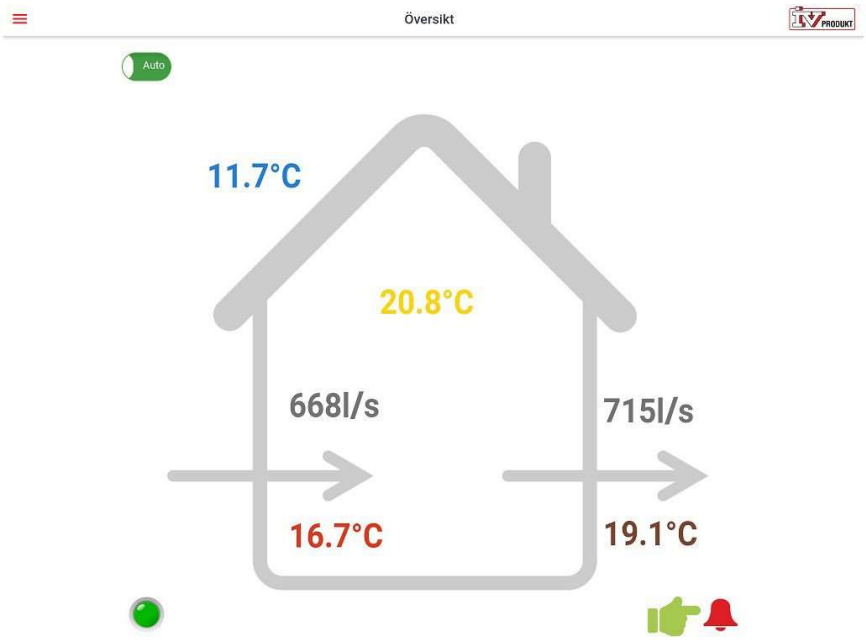
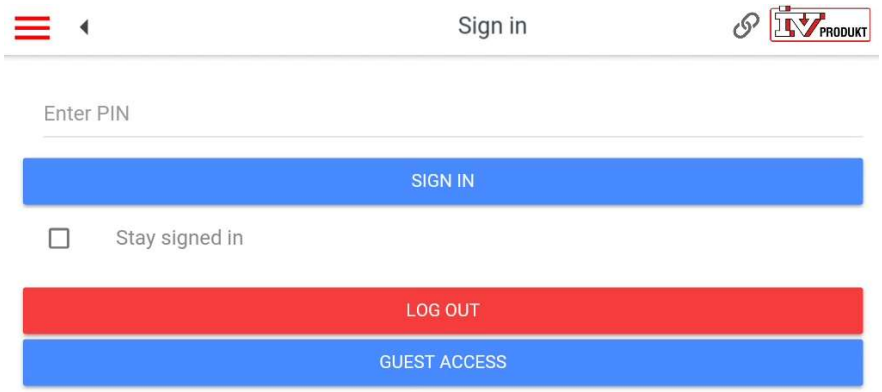
6. Alarm management

6.1. Reset alarms

Click the alarm clock.



Sign in with the required authorisation level.



Click on Alarm list.

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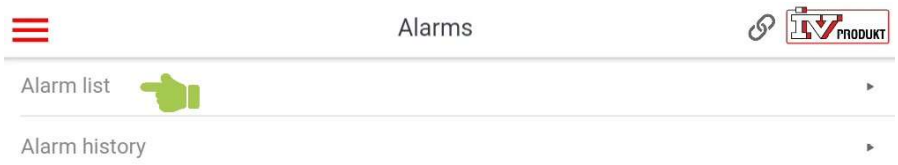
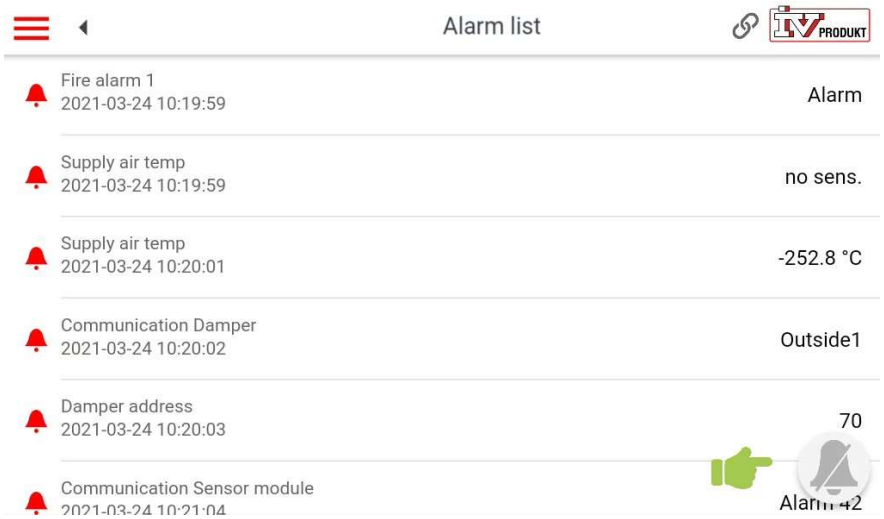


Click on alarm reset to acknowledge active alarms.



If the alarm is not acknowledged, it is not corrected.

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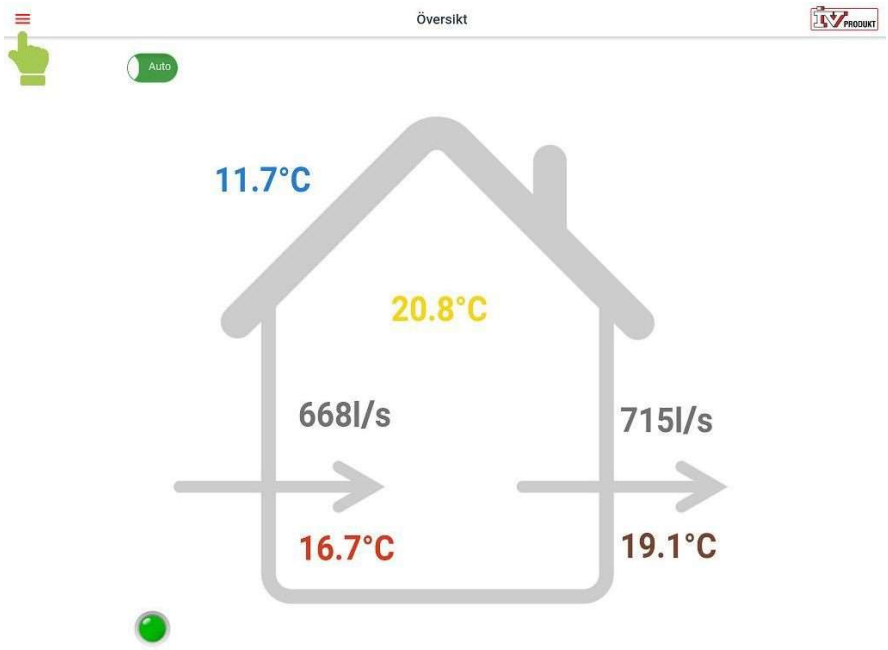
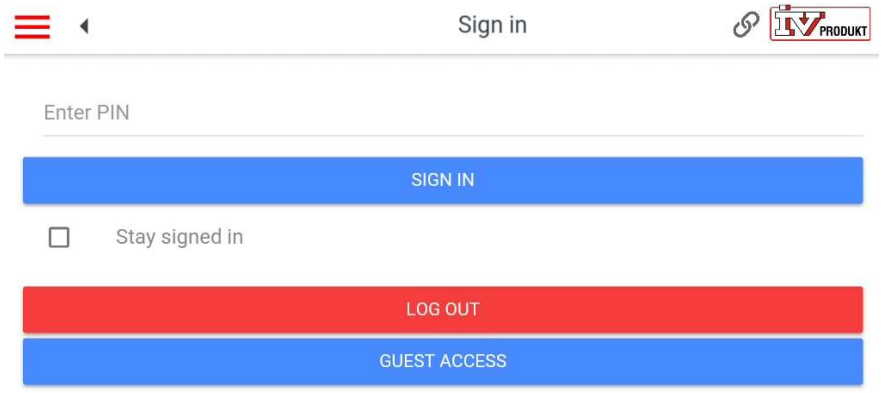
7. Alarm history

7.1. Alarm history

Click the main menu.



If required, sign in with the necessary authorisation.



Click Alarms.

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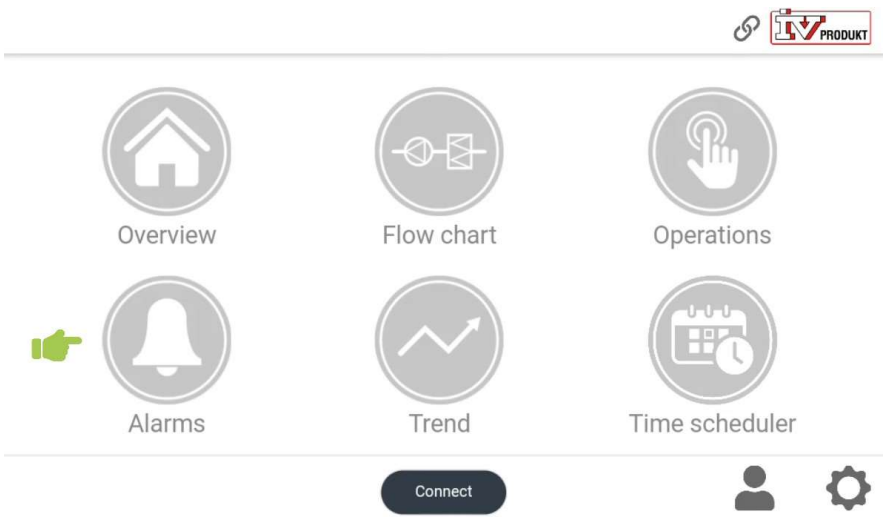
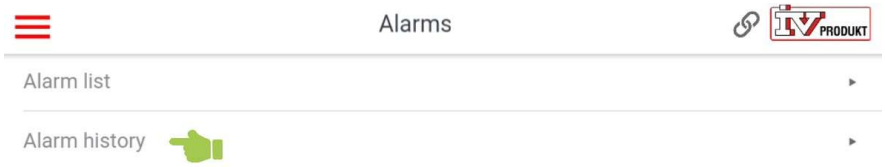


Click Alarm History.



A list of the unit's alarm history is shown here.
A red clock indicates when the alarm started and a white clock indicates when it was resolved.

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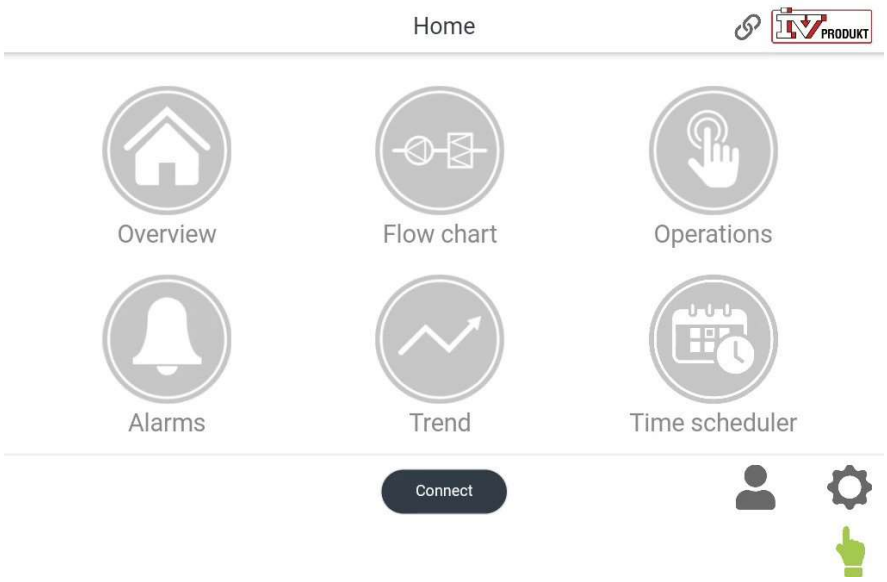
8. Changing the Language

8.1. Changing the Language

To change the language of the main menu and its submenus click on Settings (gear icon).



Then select a language.

The preferred language of the main menu and its submenus is selected here.

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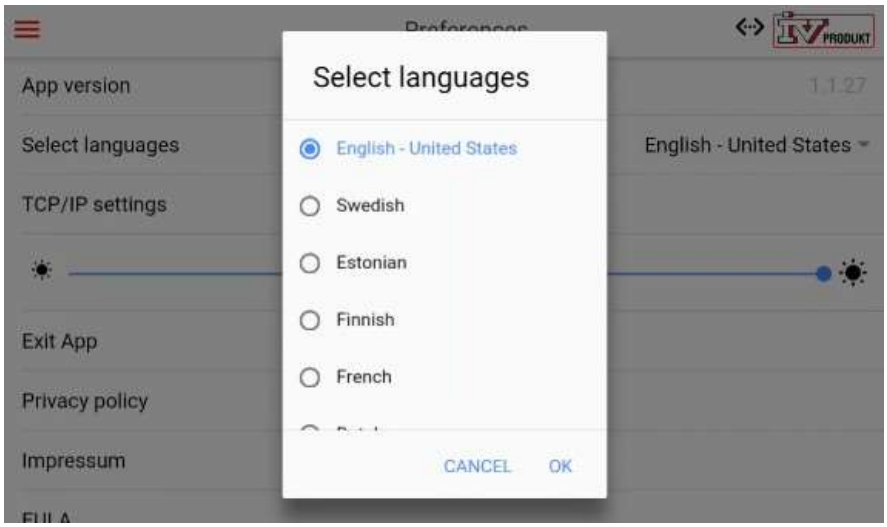

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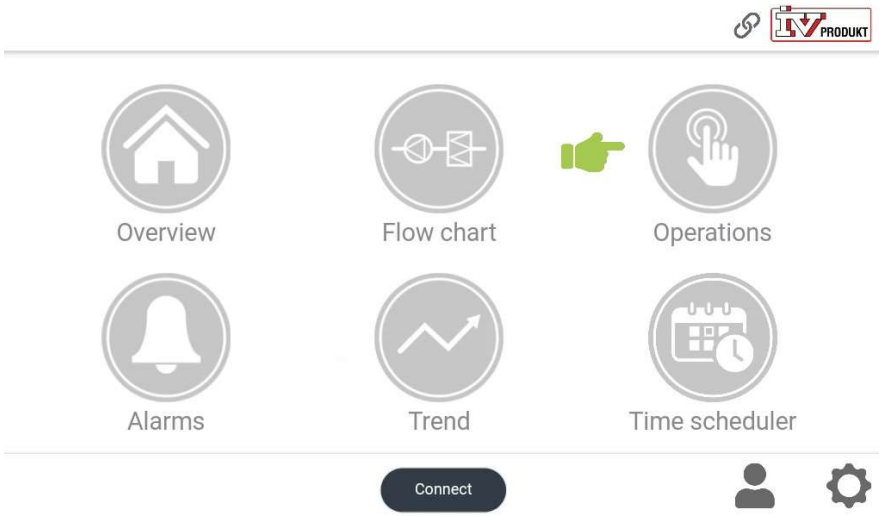
9. Trend Logs

9.1. Logging trends

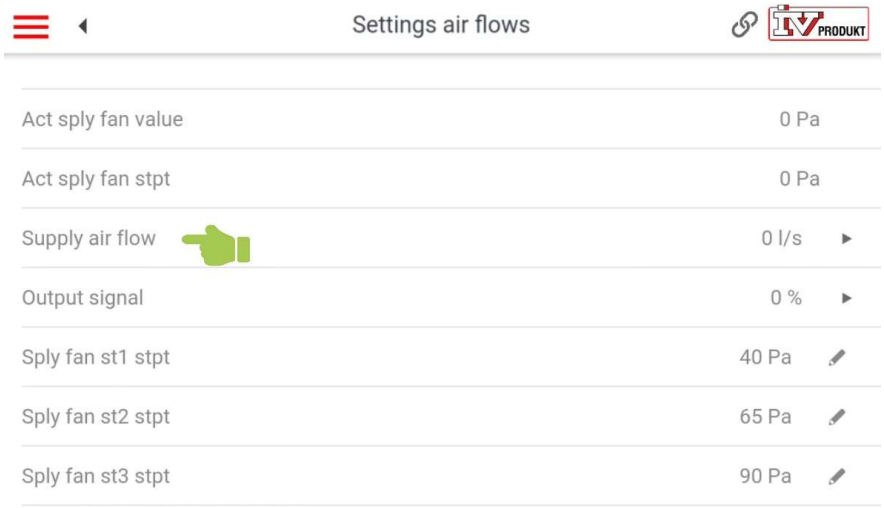
Log values such as temperature, pressure/flow, and output in a live trend.

9.1.1. Add to trend

Click Operations.



Enter the current value of the point to be logged.



Click OK to add to trend.

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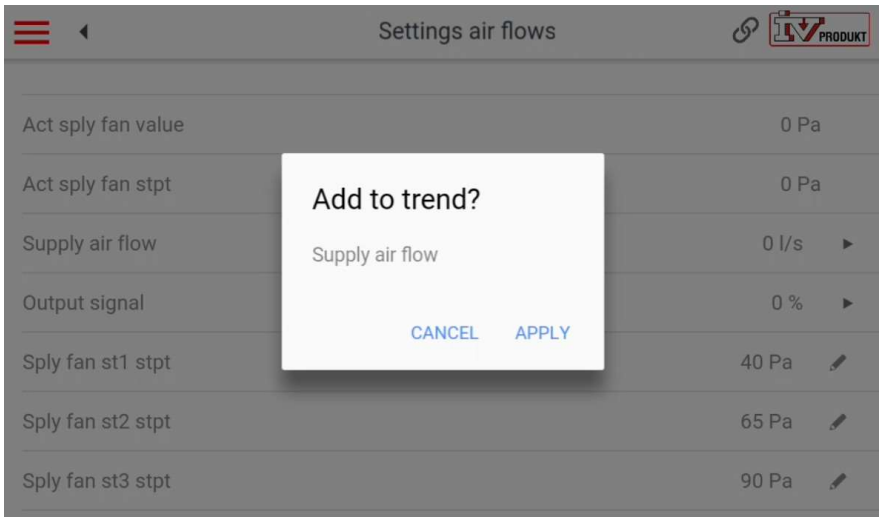
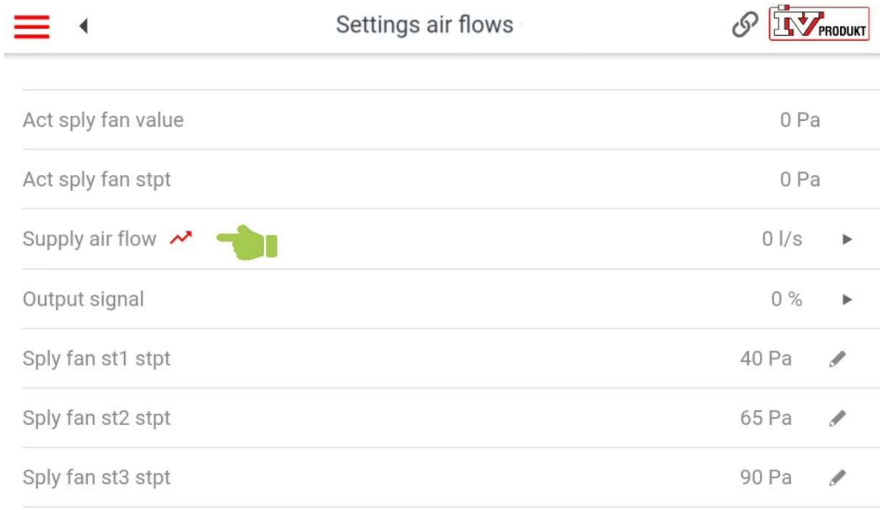
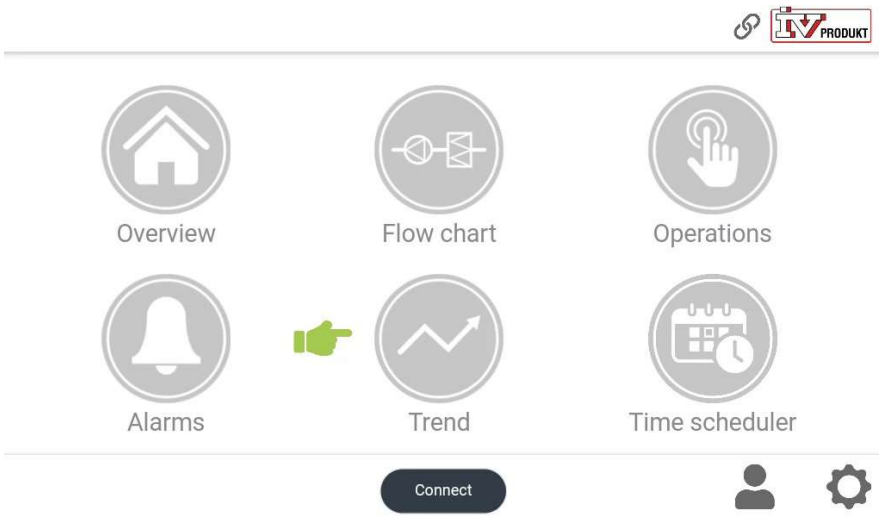


This symbol appears on all values that are logged as trends.



Click Trend.



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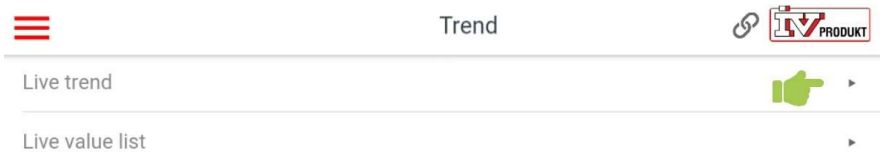
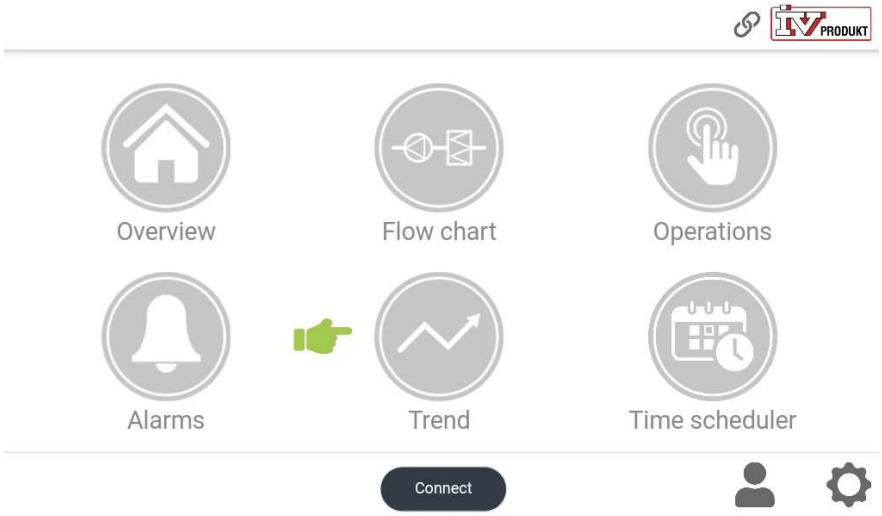
Click Live Trend to see the value.



9.1.2. Refer to Live Value list

Go in to Trend.



Click Live Value List.

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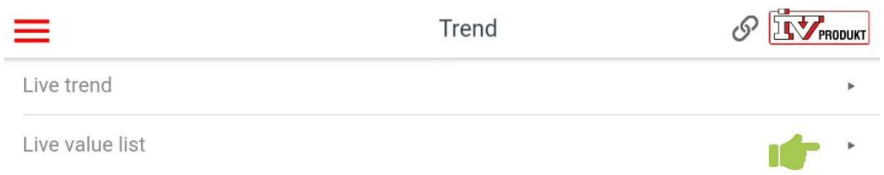
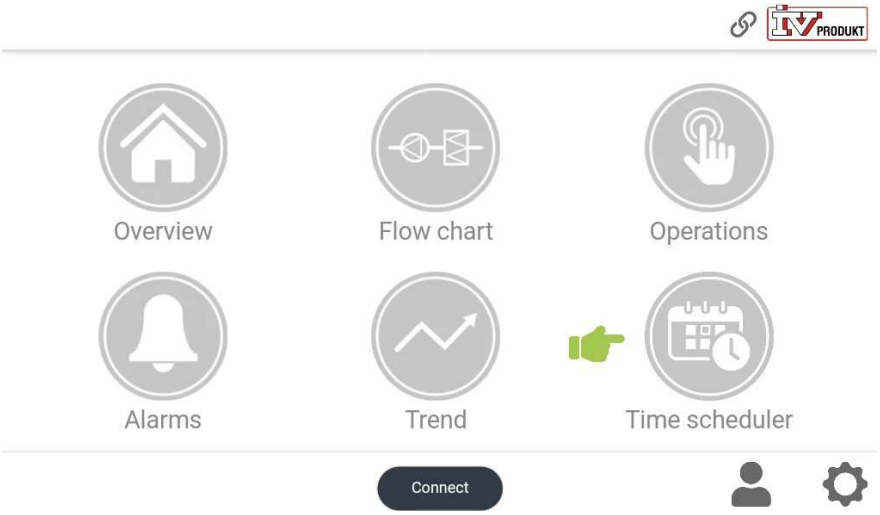


Ongoing product development may entail changes without prior notice

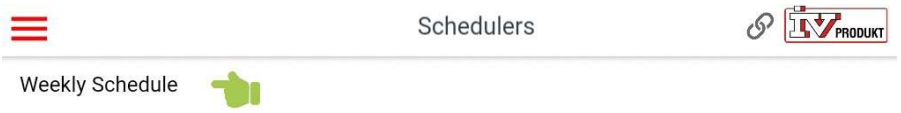
10. Time scheduler

10.1. Time scheduler

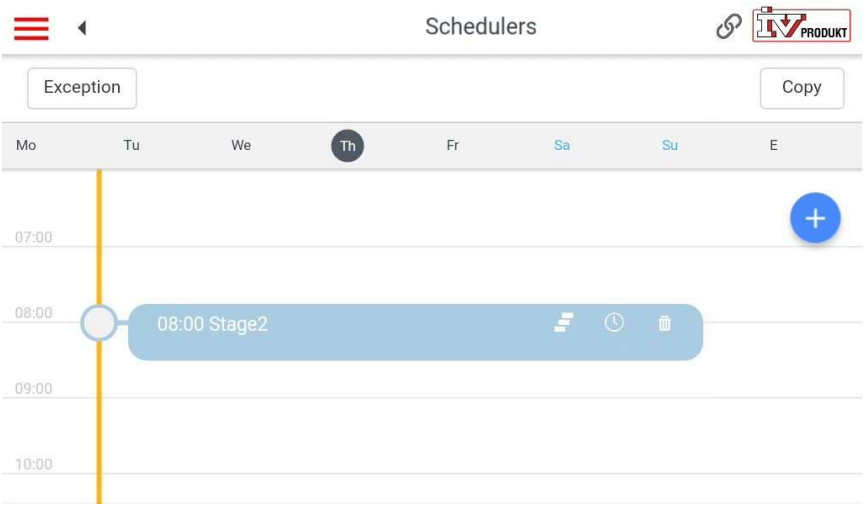
To set operating times in the touchscreen, click Time Scheduler.



Click Weekly Schedule.



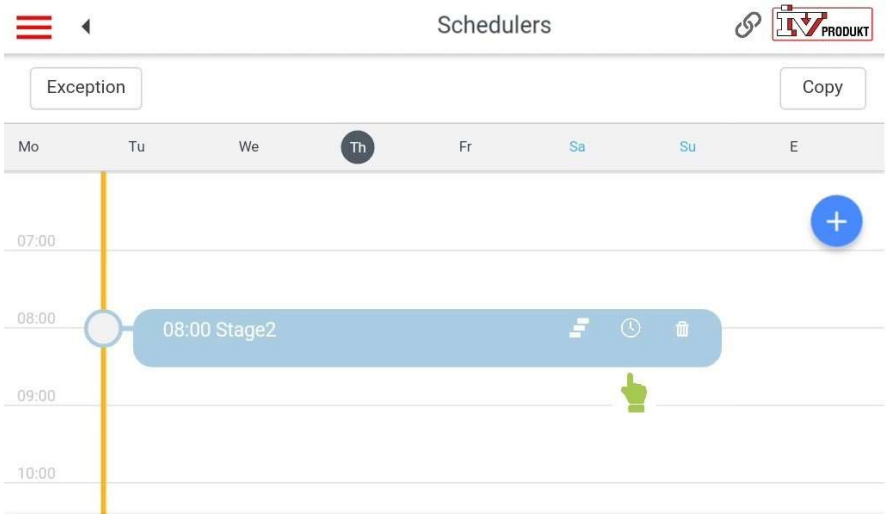
The system time program is shown here in list form and contains current times under the different days. You can also scroll down to view more active times..



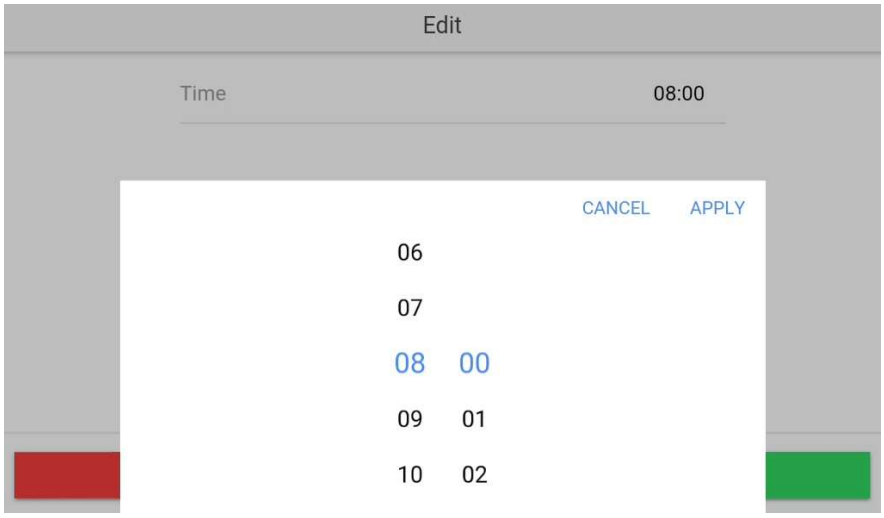
Ongoing product development may entail changes without prior notice

10.1.1. Changing the current time

To change the time, click the pen icon for the relevant time.



Enter a new time.



Click Save.

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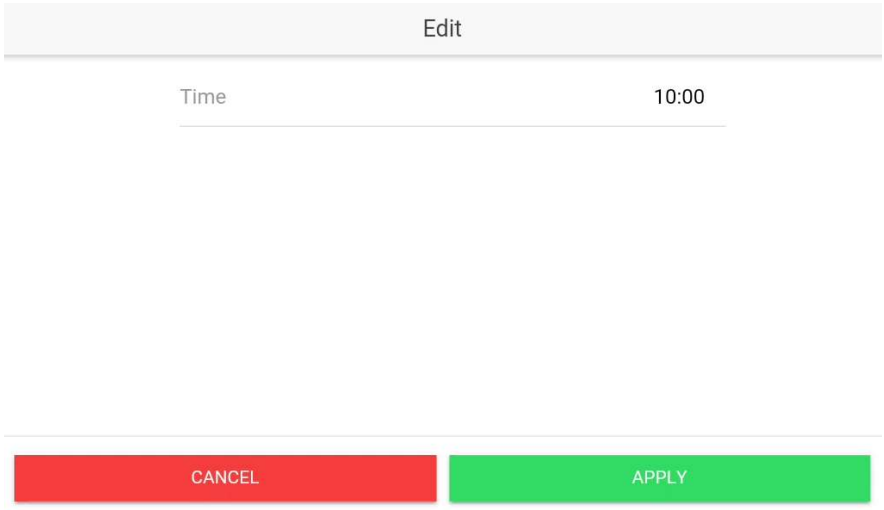
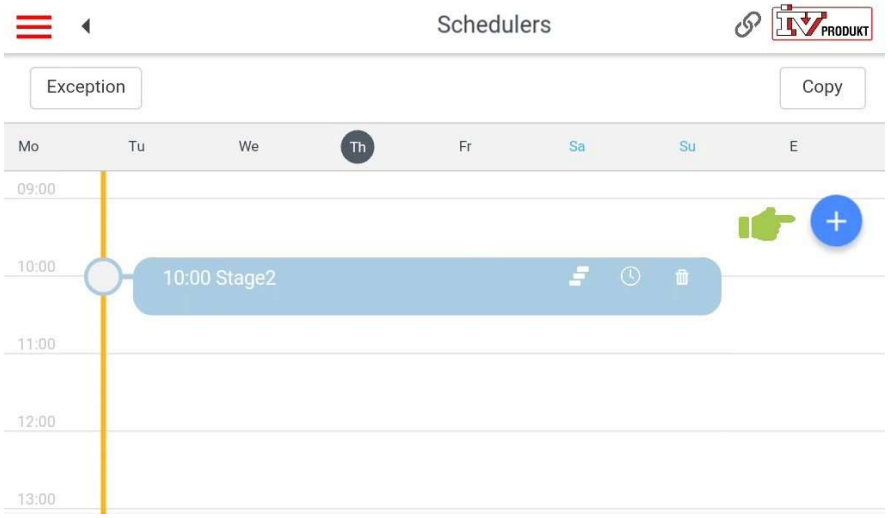


10.1.2. Add a new time

To add a new time, click the plus sign.



Specify when the new time should begin.

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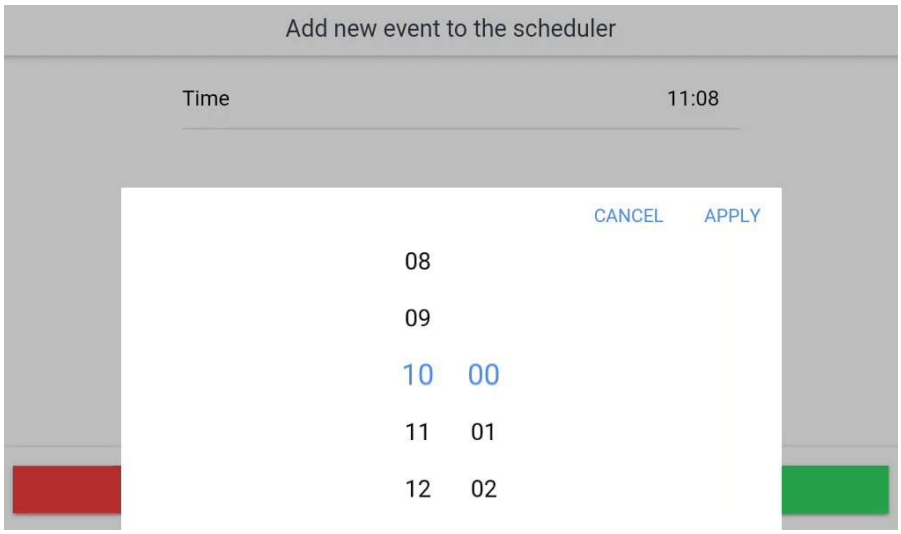
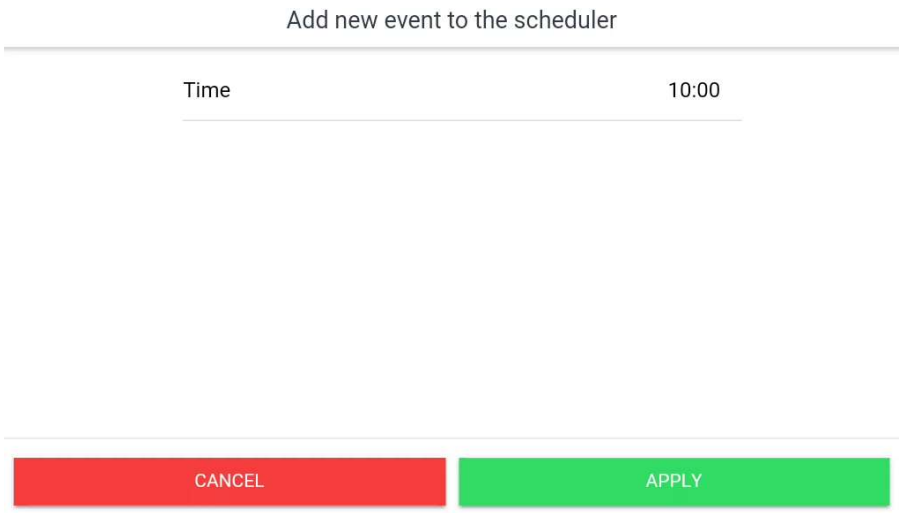
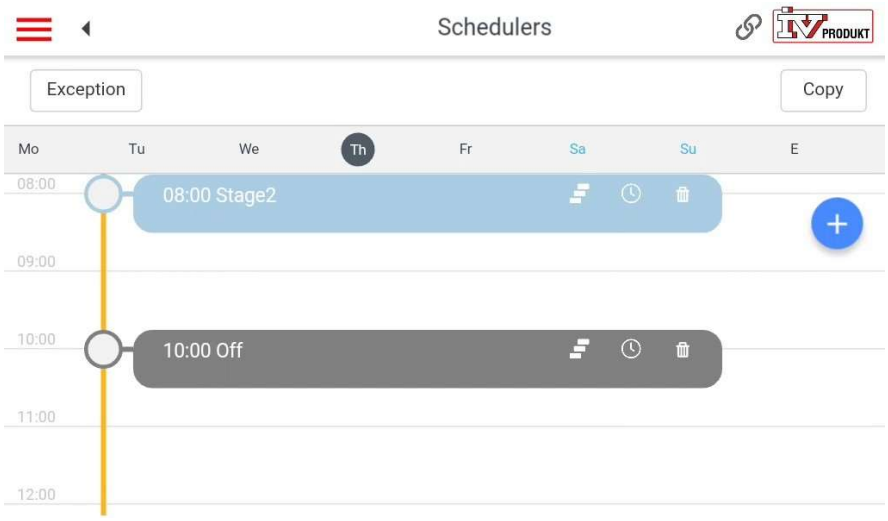


Click Apply.



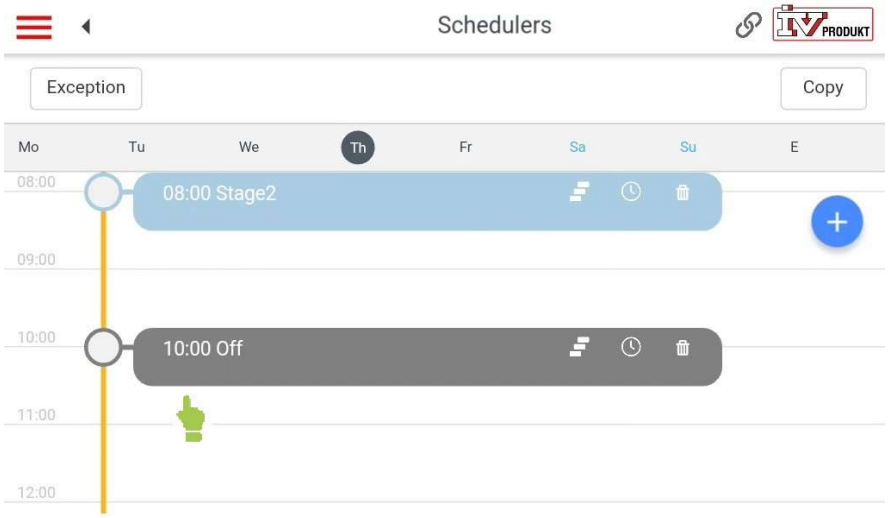
A new time has now been added to the list.



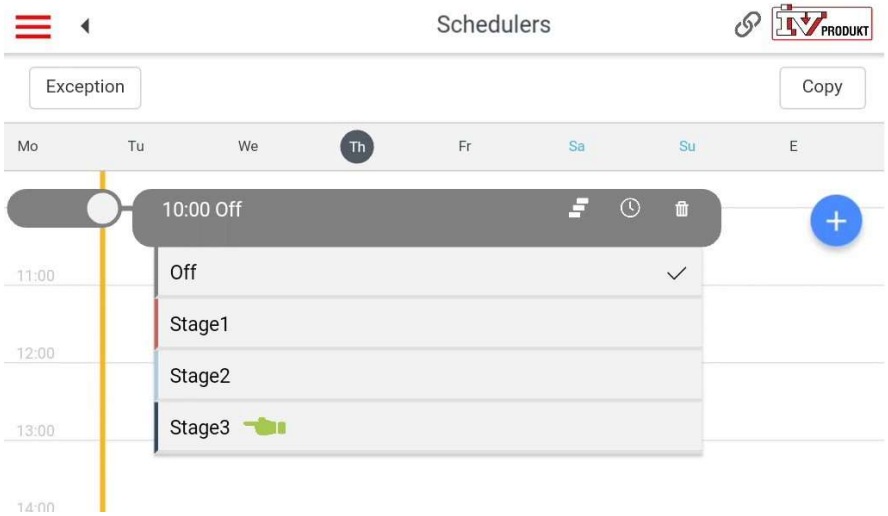
Ongoing product development may entail changes without prior notice

10.1.3. Changing the fan mode

To change the fan mode, click the relevant time.

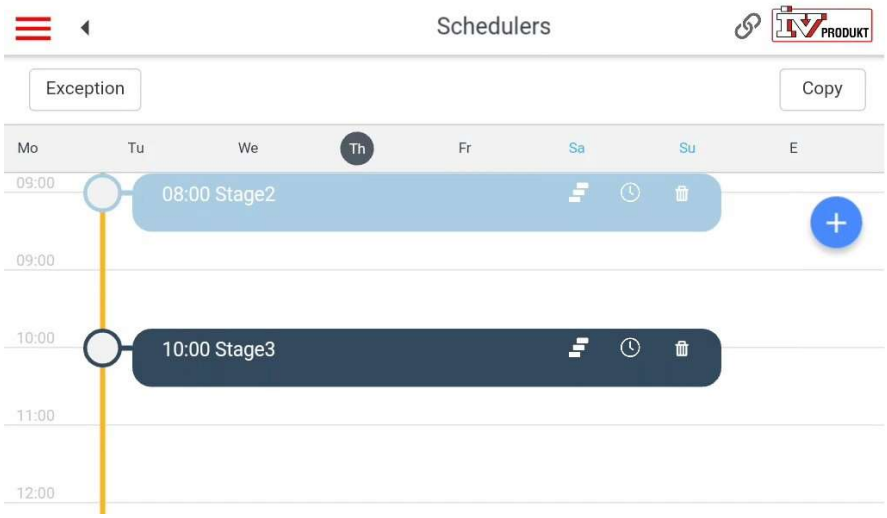


Click the relevant fan mode.



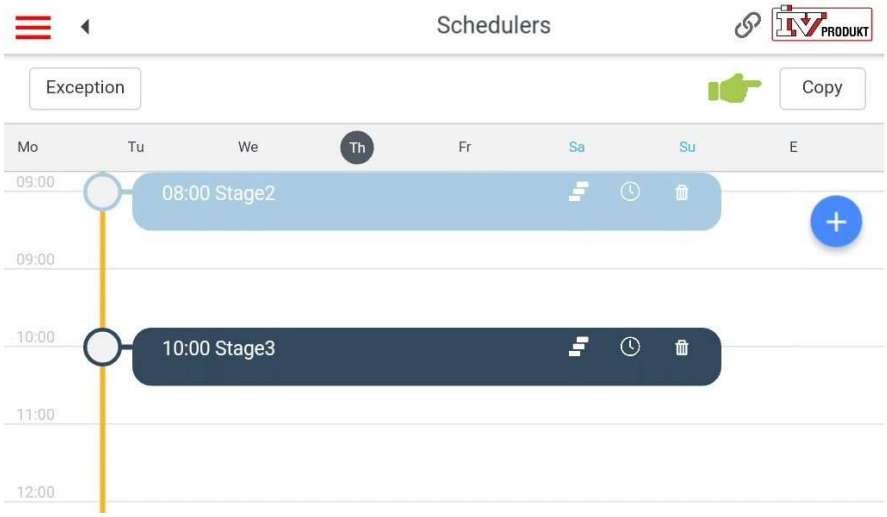
The fan mode is now set.

Ongoing product development may entail changes without prior notice



10.1.4. Copying a schedule

To copy a schedule for different days, click Copy.



Click on the relevant days to be copied to the schedule.

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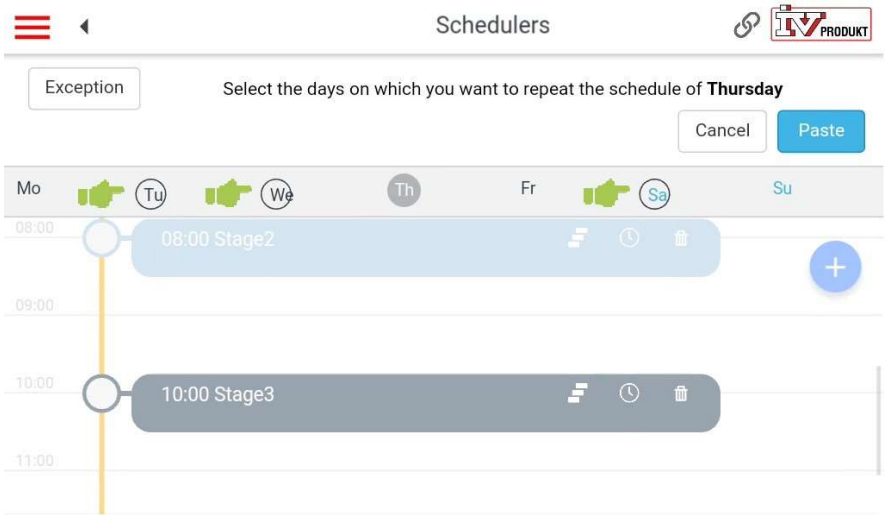
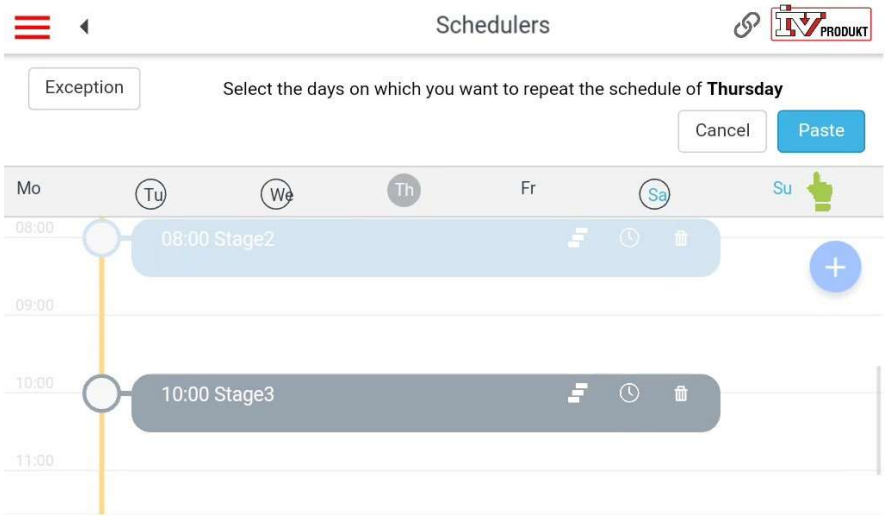


Click Paste.

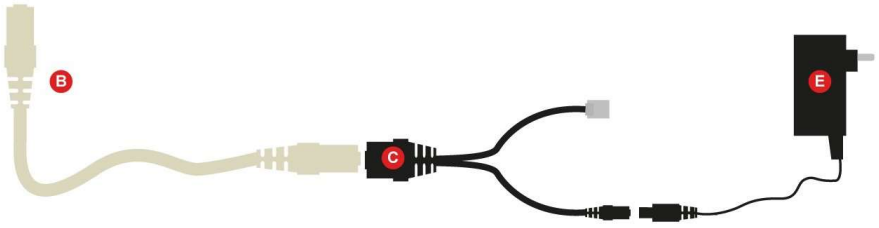


The day is now copied to the relevant days.

Ongoing product development may entail changes without prior notice

11. Adapter-kit

Adapter kit for Touch screen

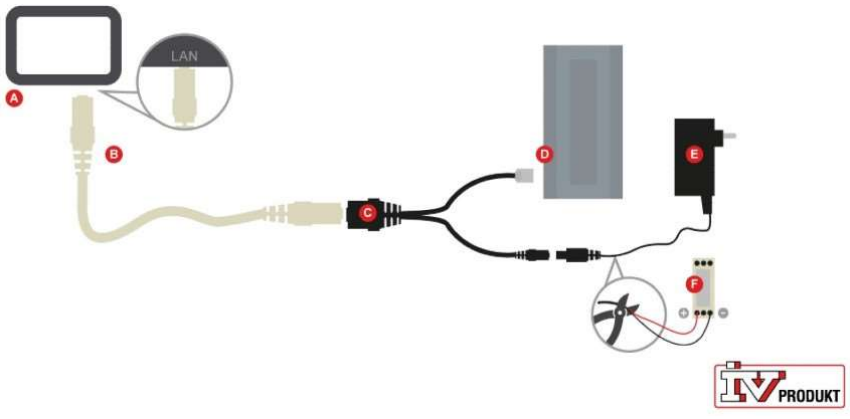


Accessories STG-20
Contains:
Network cable 2m
Adapter
Power adapter 24v

If the fan compartment is difficult to access, you can extend the connection cable to the touch screen with a network cable that is connected between the touch screen and the control unit's network port.
This adapter kit is needed to energize the touch screen.

Example 1: Connection to the control unit's Ethernet port:

A	B	C	D	E	F
Handheld terminal with touch screen Example: IP address 192.168.1.43	Network cable, 2m Can be replaced with a longer	Adapter	Climatix control unit Example: IP address 192.168.1.42	Connector for electrical outlet	Alternative connection to 24V DC power supply

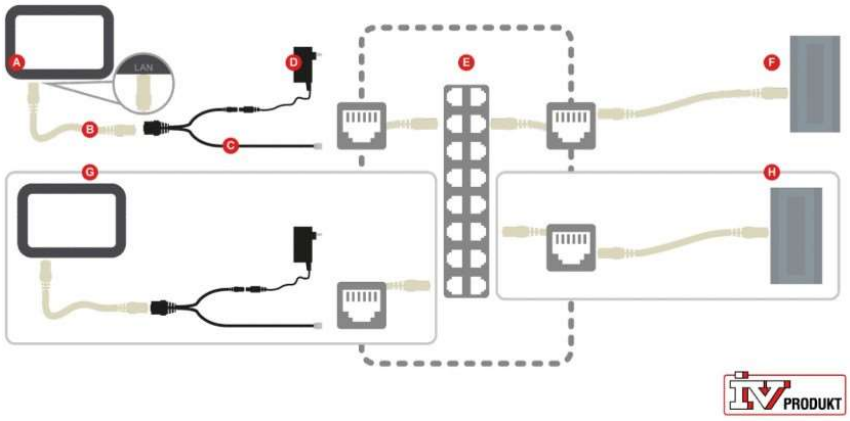


If one or more control units are connected with a network cable to the local area network in the property, one or more touch screens can be connected in a completely different part of the property via the local area network according to example 2.
This adapter kit is needed to energize the touch screen.

Ongoing product development may entail changes without prior notice

Example 2: Connection to local area network:

A	B	C	D	E	F
Handheld terminal with touch screen Example: IP-adress 192.168.1.43	Network cable, 2m Can be replaced by a longer	Adapter	Connector for electrical outlet	The property's network	Climatix control unit Connection in TCP / IP port Example: IP-adress 192.168.1.42



G	H
Several hand-held terminals can be connected on the same network	Several control units can be connected on the same network

Ongoing product development may entail changes without prior notice

12. Technical data

12.1. Technical Data

- CPU: Cortex A17, quad core 1.5GHz.
- Operating system: Android
- Network port, RS485 port, USB-A port, and USB-B port.
- Can withstand a fall height of 1 metre.
- Capacitive 7 "(16:9) touch screen.
- Screen resolution: 1024 x 600 pixels
- Dimensions: 210 x 130 x 36 mm
- Weight: 0.64 kg
- Temperature: -10... +50 °C
- Humidity: 10... 90% r.h.
- IP class: 20
- Rated voltage: DC 24 V (± 15%)
- Energy consumption: 6 W

Ongoing product development may entail changes without prior notice