



Lindab UltraLink










Mobile application User manual



Mobile application

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INSTALLATION

Get the app from [App Store](#)
or [Google Play](#)



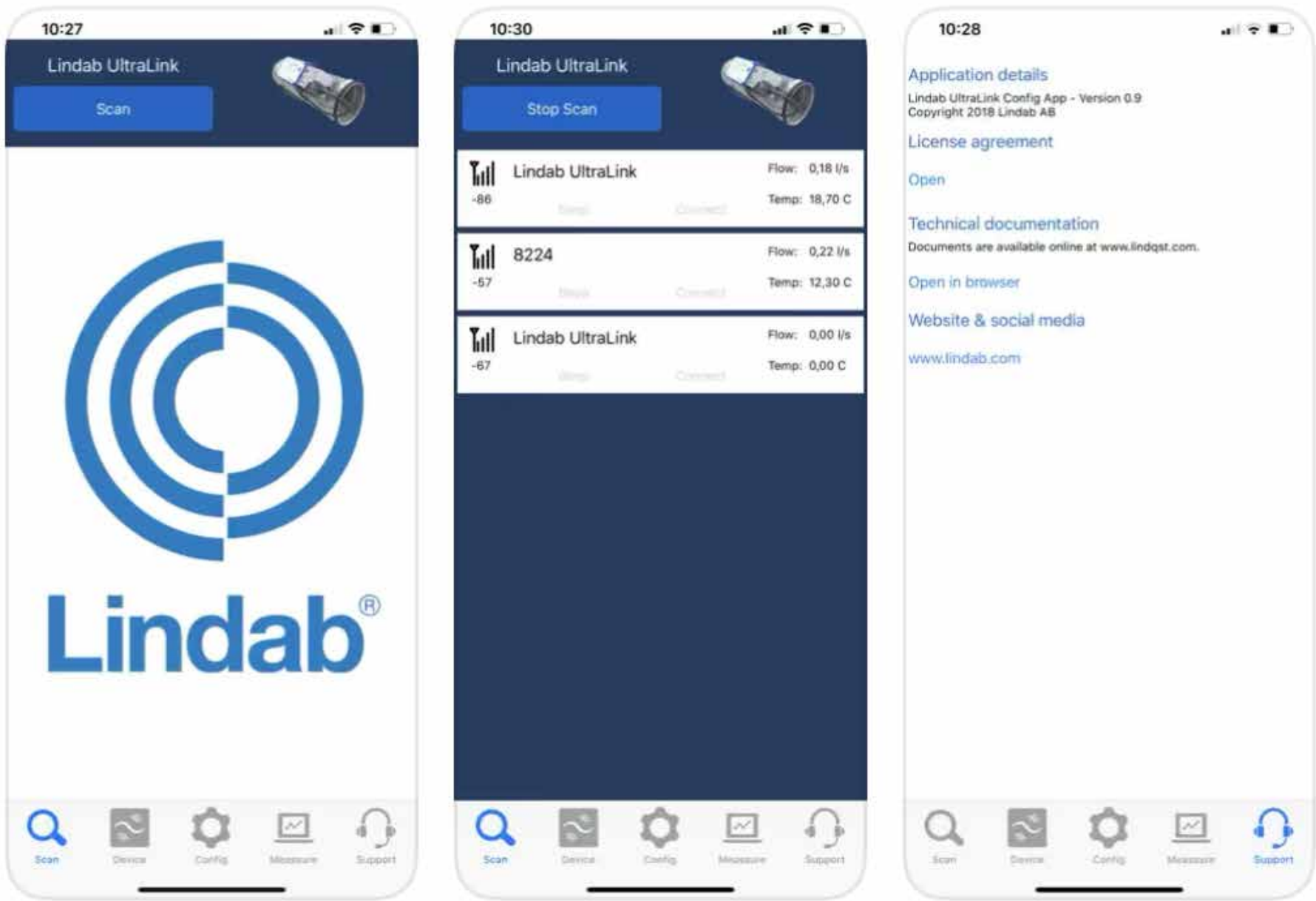
×

Cancel



Ultralink
Business

GET





SCAN

2.1. settings

Open the application and ensure that the Bluetooth connection on your device is switched on.

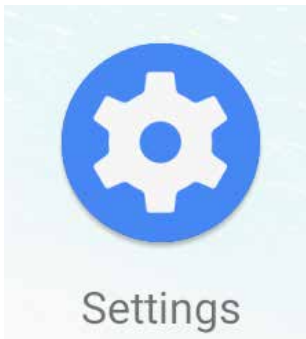


Verify that the app has the correct permissions according to the following.

Android*

Go to the mobile's settings.

Click on Apps & Notifications

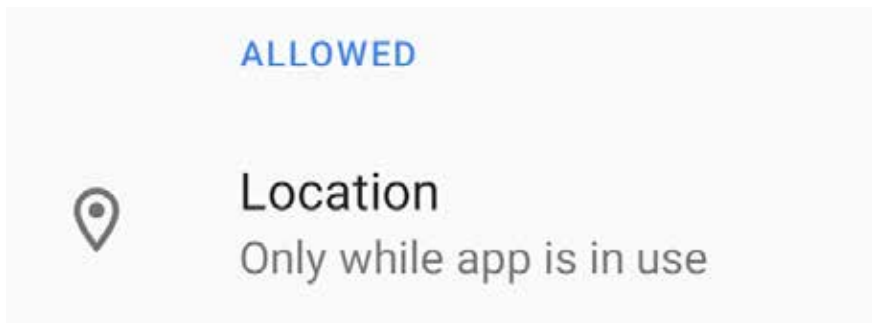


Apps & notifications
Recent apps, default apps

Click on see all apps.

Scroll down to the Ultra-Link-app in the list.

Allow Location while app is in use.



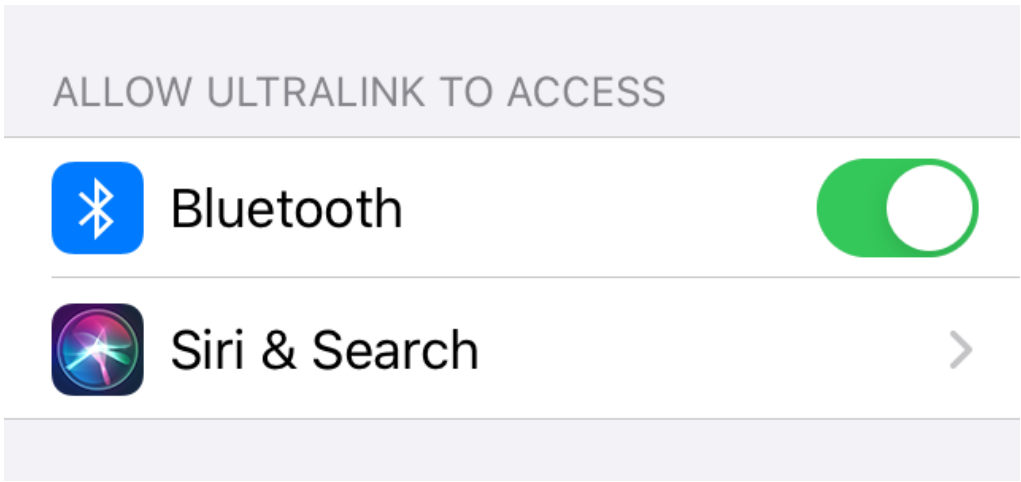
* May vary depending on model.

iOS

Go to the mobile's settings.

Scroll down to the UltraLink app in the list.

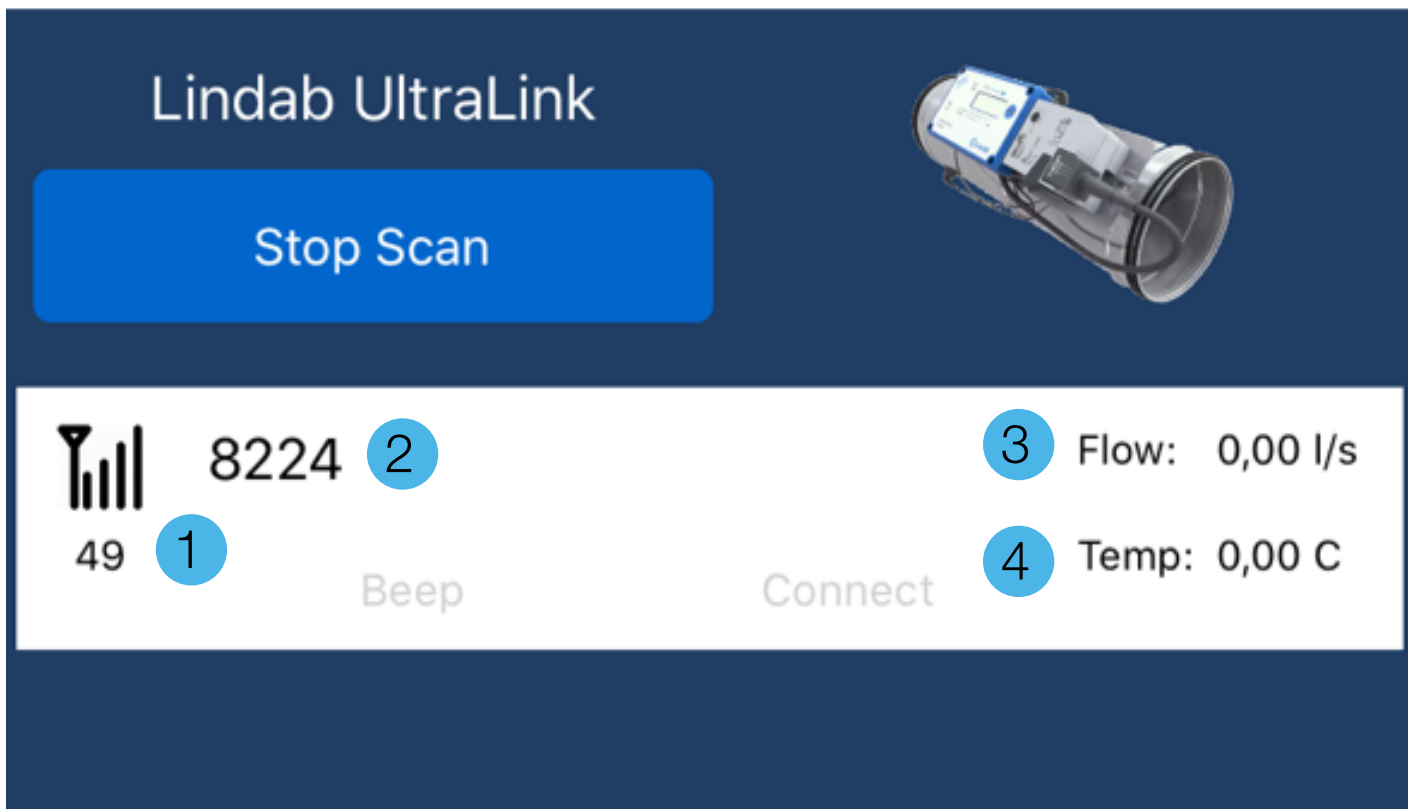
Allow UltraLink to access Bluetooth.



Press the **Scan** button.



The application will search for Ultralink Bluetooth devices



- 1. Bluetooth signal strength
- 2. Unit numeral
- 3. Flow
- 4. Temperature

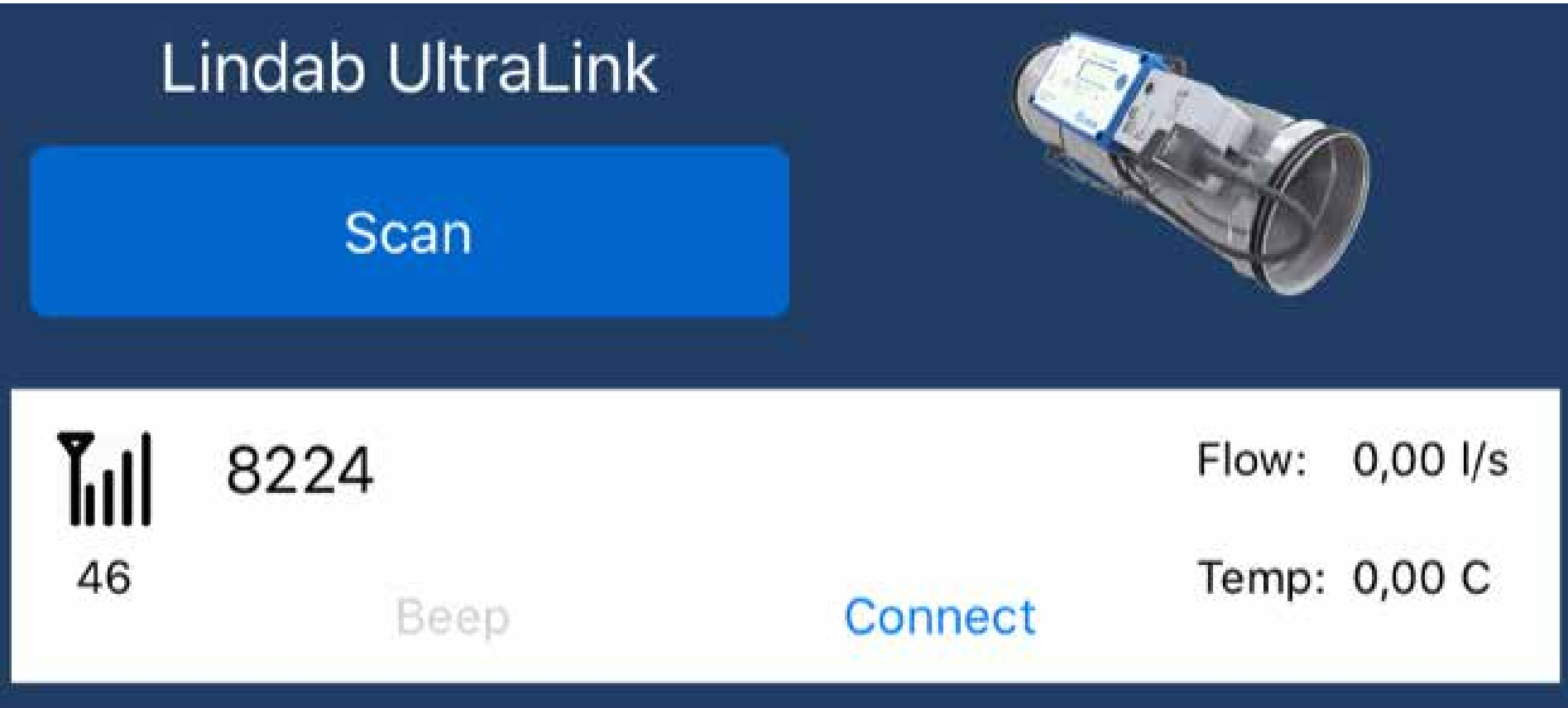


SCAN

2.2. settings

Press the **Stop Scan** button to stop the search. A blue **Connect** text for the devices will be displayed.

Select the desired device by pressing the **Connect** text. The devices can be given an individual unit numeral, as default this is the Modbus ID.



The signal strength displayed on the left of the display shows how close the device is. However, the signal reflections in a building determine the order in which the devices will appear on the display.

Pincode

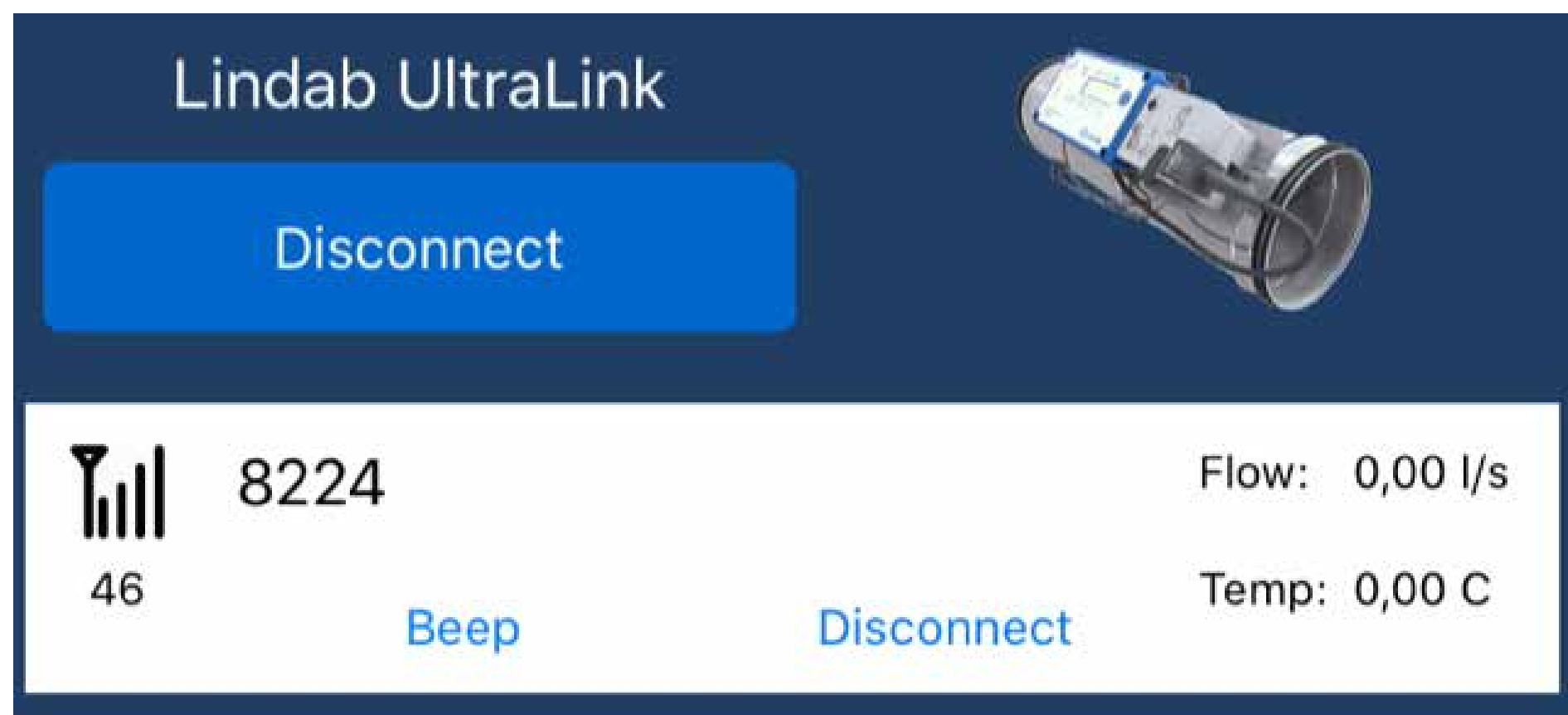
Enter pincode to get access. Attempts left: 5

When one device has been selected, the application asks for a **PIN code**. It is factory set as **1111**. Enter it into the field and press the **OK** button.

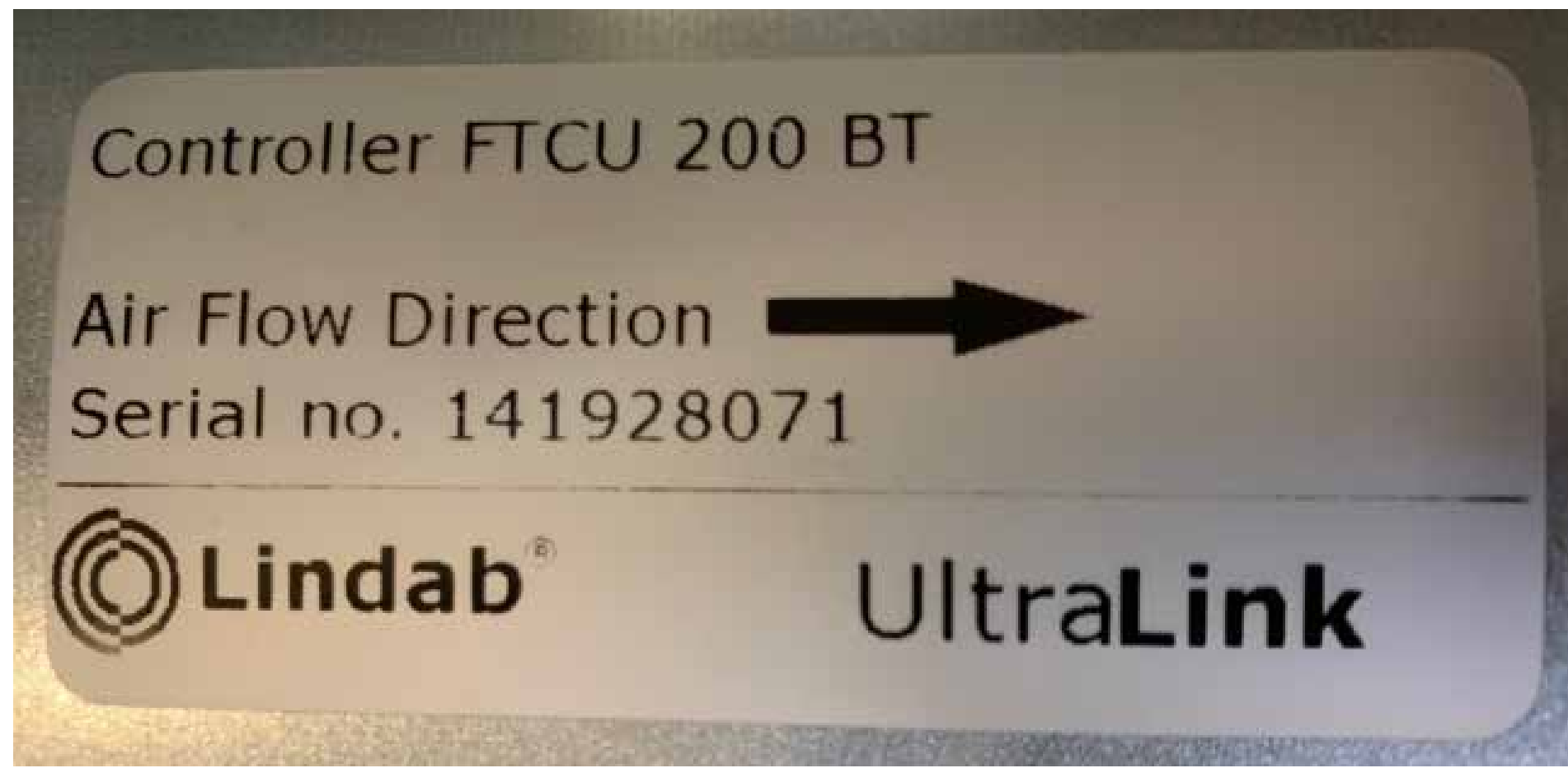


SCAN

2.3. settings



When you press the **Beep** button, the FTCU will give an audio signal that will enable you to check which device you are connected to. The device's **blue LED light** flashes rapidly when the connection is established.



The device's serial number can be found on the data plate. The **last three digits** are the device's **Modbus address**. In this example, the Modbus address is 071.

You can also find the Modbus address (ID number) in the device display by using the button.



SCAN

2.4. application

The application functions are divided into five tabs



Scan

Search for devices

Device

Details about the device found

Config

Control settings of the device found

Measure

Measured values of the device found

Support

Links to contact details and technical information



DEVICE 3.1. settings

The device's serial number is displayed on the application's **Device** tab.

You may need to wait a few seconds while the connection is being established (Receiving).

In this case, the serial number is 27154 and the Modbus address is 154.

On this tab, you can change the Modbus settings, the PIN code and the device name (Device designation).

Make a change by pressing the blue Set button.

Device information

Serial number:	27154		Serial number
Nominal size:	250		Device size
Parameter version:	325		Database version
Pincode	1111	Set	PIN code

Communication

Protocol:	Modbus/...	Set	Communication protocol
Baud rate:	19200	Set	Baud rate
Parity	Odd	Set	Parity
Stop bit:	1	Set	Stop bit
Modbus address:	154	Set	Modbus address
PLA:	154	Set	PASCAL address PLA
ELA:	154	Set	PASCAL address ELA

Continued on the next page >>



DEVICE 3.1. settings

Device designation:

UltraLink 9988

Set

The **Device designation** that is displayed on the Scan page can be changed by clicking the **Set** button.

Update parameter

Please type in the new parameter

Reception exhaust

OK

Cancel

You can name the UltraLink with letters and special characters such as the example above. If the UltraLink has older firmware, you can only use four digits to identify the UltraLink.

Flow disturbance settings

UltraLink can be installed close (<5 Ød) to a bend or reducer and have 5% measurement uncertainty, if the **Type of disturbance** and **Distance from disturbance** corrections is set in the app. If not, the measurement uncertainty will be much higher.

Flow correction

Type of disturbance

None

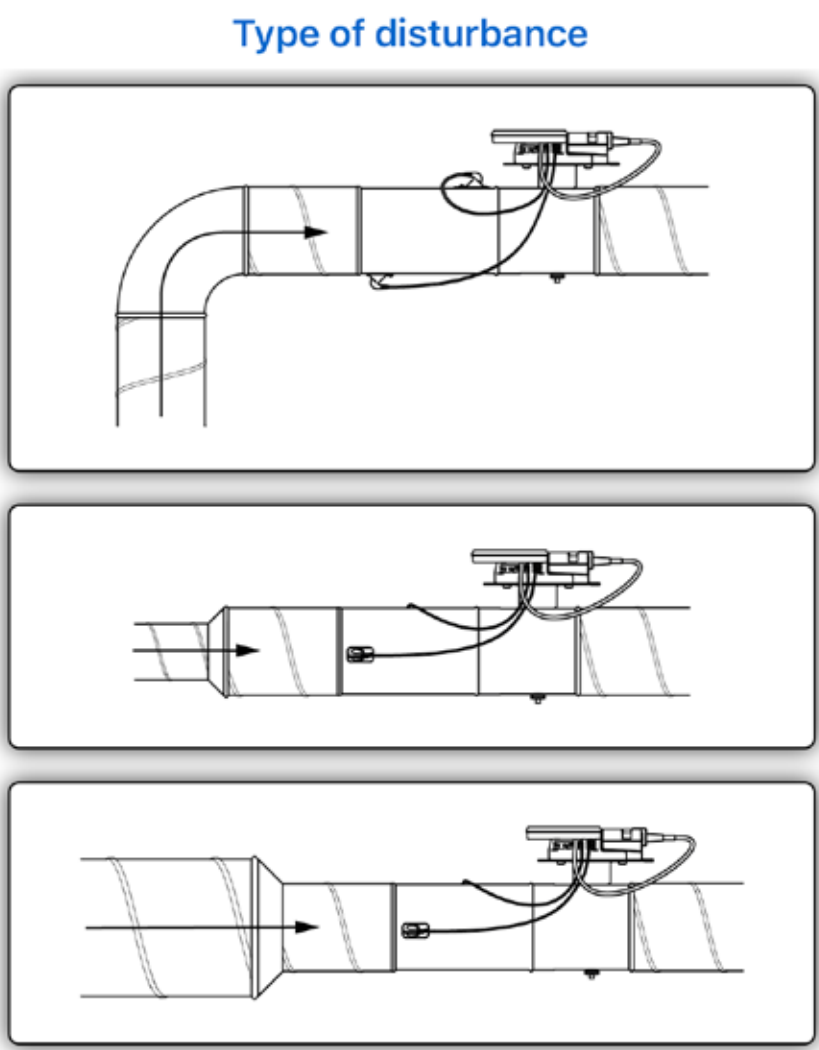
Set

Distance from disturban...

90

Set

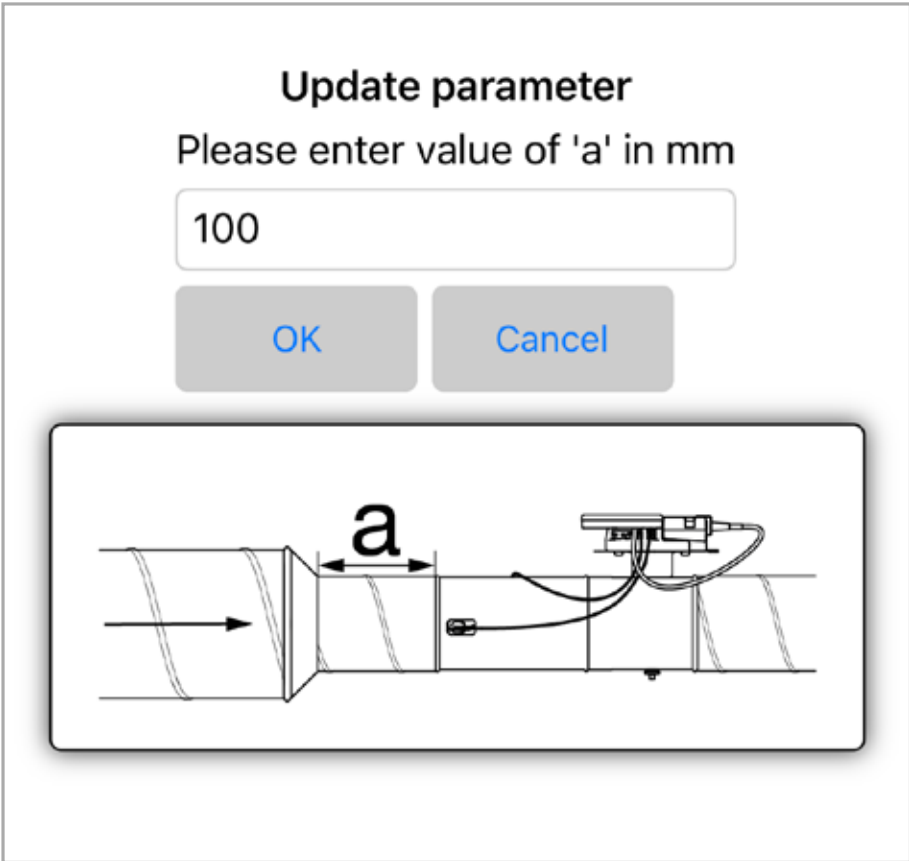
Click on the **Set** button next to **Type of disturbance**. Chose the type of disturbance out of the three choices.





DEVICE 3.1. settings

Click on the **Set** button next to **Distance from disturbance**. Enter the distance from stop beads of the disturbance and the UltraLink according to the picture. Click OK, the function is now active.



To turn off the function, press **Set** button for **Type of disturbance** and then chose **Cancel**. The text now says **None** and flow correction is disabled.

Flow correction

Type of disturbance

None

Set

It is possible to insert a custom correction factor if you want to adjust the flow. Clicking on the **Set** button after **Manual correction factor** enables you to insert a factor that modifies the flow. For example, an input of 1,1 increases the flow displayed by 10%.

Manual correction factor

1

Set

You can also execute the calibration of the damper's position (Angle recalibration), restart the device (Reboot) and reset the device to factory defaults (Reset device). The Reset device password is Lindab.

Angle recalibration

Execute

Calibration of the damper's position

Start by pressing Execute

Reset device

Reboot

Device restart

Start by pressing Reboot

Reset device

Device reset to factory defaults

Start by pressing Reset device



CONFIG 4.1. settings

The device's control settings can be found on the **Config** tab.

Control

Controlled variable:

FlowSet

Control by:

Analog InSet

Flow rate setpoint (l/s):

0Set

First, check the **Control / Controlled variable** and ensure that the device's control parameter is the desired one: **Flow** (setpoint is an airflow) or **Damper** (setpoint is a damper angle).

Next, check the control method under **Control by**:
Analog In = control by voltage signal,
Serial = Modbus bus control.



CONFIG

4.2. Modbus bus

If the desired control method is Modbus use the **Set** button to switch to Control by: **Serial**

Control

Controlled variable:

Flow

Set

Control parameter

Control by:

Serial

Set

Control method

Flow rate setpoint (l/s):

60

Set

Setpoint

Settings of control by bus

Max. flow rate setpoint (bus):

736

Set

Max. setpoint flow

Min. flow rate setpoint (bus):

0

Set

Min. setpoint flow

Max. damper position rate setpoint (bus):

100

Set

Max. setpoint damper angle

Min. damper position rate setpoint (bus):

0

Set

Min. setpoint damper angle

Damper override timeout:

120

Set

Time for override in minutes

Override function:

4

Set

Override*

Start Override: [Execute](#)

*Alternatives for override
0 = Normal function
1 = Max. airflow
2 = Min. airflow
3 = Damper 100% open
4 = Damper closed



CONFIG 4.3. Analog

If the desired control method is Analog In, use the **Set** button to switch to Control by: **Analog In**

Control

Controlled variable:

Flow

Set

Control parameter

Control by:

Analog In

Set

Control method

Flow rate setpoint (l/s):

12

Set

Setpoint

If the control method is Analog In (voltage signal), ensure that the control method is selected and check the other settings. Make the necessary changes. It is important that the device and the building management system (voltage range and airflows) are on the same scale.

Airflow factory defaults

Device size	Max flow rate setpoint (7m/s)
Ø [mm]	l/s
100	55
125	86
160	141
200	220
250	344
315	546
400	880
500	1374
630	2182

Min flow rate = 0 l/s



CONFIG

4.4. Analog

If you want to define Min and Max airflows on the device, it should be done here:

Settings of control by analog input (AI_n)

Max. flow rate setpoint:

344

Set

Min. flow rate setpoint:

0

Set

Max. damper position rate setpoint:

100

Set

Min. damper position rate setpoint:

0

Set

Voltage range:

2 - 10 V

Set

Analog In override: 0.1 to 1.9V:

0,5

Set

The control voltage type is [set as factory default 2–10 V](#)
2 V = Min flow rate setpoint (factory default 0 l/s)
10 V = Max flow rate setpoint (factory default 7 m/s air speed, airflows based on specific dimensions)

[0 V = Damper will be force closed](#)
If the control method is 2-10 V, a voltage range for override control can be set within 0.1-1.9 V (Analog In override: 0.1-1.9 V). The factory default is 0.5 (0-0.5 V = closed).

[If the control method is 0-10 V:](#)
0 V = Min. flow rate setpoint, 10 V = Max. flow rate setpoint



CONFIG

4.5. Analog settings

Settings for AO analog outputs (feedback signals). Your device has two outputs, AO1 and AO2

Below are the factory defaults.

Settings of analog output (AO1)

Variable:

Flow rate

Set

Maximum value:

344

Set

Minimum value:

0

Set

Voltage range:

2 - 10 V

Set

Settings of analog output (AO2)

Variable:

Damper position

Set

Maximum value:

100

Set

Minimum value:

0

Set

Voltage range:

2 - 10 V

Set

Check that the return signals are in the desired form and scale. Return signal **(Variable)** can be [flow rate](#), [temperature](#) or [damper position](#). The airflow factory default Maximum value depends on the device size (7 m/s duct speed as factory default).



MEASURE

5.1. measured results

Measured results can be found on the **Measure tab**.

Setpoint & measured values

	A	B	
Flow rate setpoint			Setpoint Voltage signal AIN or MODBUS bus
<input type="text" value="60"/> l/s	<input type="checkbox"/>	<input type="checkbox"/>	
Flow rate			Airflow measured value
<input type="text" value="60,607"/> l/s	<input type="checkbox"/>	<input type="checkbox"/>	
Velocity			Duct speed measured value
<input type="text" value="1,234"/> m/s	<input type="checkbox"/>	<input type="checkbox"/>	
Temperature			Air temperature measured value
<input type="text" value="20,5"/> C	<input type="checkbox"/>	<input type="checkbox"/>	
Damper position:			Damper position
<input type="text" value="28,5"/> %	<input type="checkbox"/>	<input type="checkbox"/>	
Analog input voltage			AIN value
<input type="text" value="0"/> V	<input type="checkbox"/>	<input type="checkbox"/>	
Analog output 1 voltage			AO1 value
<input type="text" value="3,41"/> V	<input type="checkbox"/>	<input type="checkbox"/>	
Analog output 2 voltage			AO2 value
<input type="text" value="4,28"/> V	<input type="checkbox"/>	<input type="checkbox"/>	
Graph interval			
<input type="text" value="1"/> s			Set

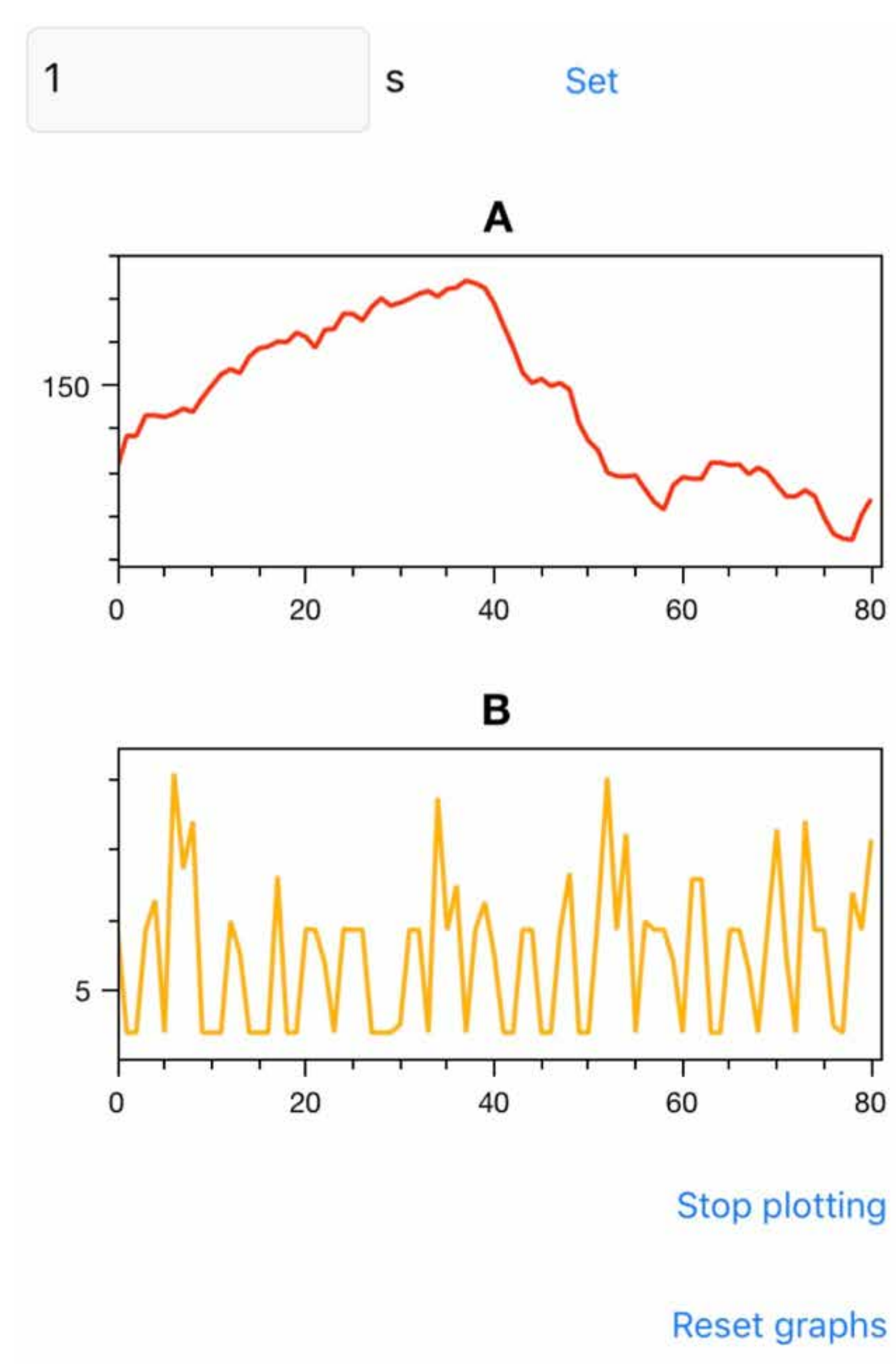
You can select parameters for the curves by using the A and B buttons.



MEASURE

5.2. measured results

Measured results can be found on the **Measure tab**.





FAQ

6.1. Troubleshooting

Troubleshooting and solutions MODBUS

The device does not regulate, the damper is closed, the damper is 100%

- check the device's setpoint, make sure it is not 0.
- check the device's min. and max. settings for flow and damper angle, see page 11 for digital or page 13 for analog settings.
- ensure that the bus settings are correct (baud rate, stop bit, parity)
- if connections have been made to the bus cables with the device powered on, or if there have been interferences in the supply voltage, the device may be in failure mode. Reboot the device.

Troubleshooting and solutions, Analog In voltage control

The device does not regulate, the damper is closed, or the airflow is 0 l/s

- the control voltage is 0 V and the control method on the device is 2-10 V (0V=closed)
- the control voltage is 2 V and the control method on the device is 2-10 V (2V= 0l/s)

The damper position information is incorrect (usually 0%) or there is an error 1 or error 2 on the device

The device reads the damper position from the end of the axis using a magnet. If the magnet momentarily loses contact during the installation, the position information may be lost.

If the damper position is incorrect, carry out the calibration from the Device tab. The calibration cycle will take approximately 3-5 min. The device goes to both its limits. In some cases, the product can remain shut after calibration cycle is complete and the 5 minutes has passed. In this case, press Reboot and check on the Measure tab that the device finds the damper position. In rare cases, the device may need another calibration cycle.

Error 3 on the device display (set value is not reached)

Check the damper position. If it is fully open (100%), there is not enough pressure in the duct.

Error 4 on the device display (measurement error)

Reboot the device. If the device's measured airflow and temperature values are zero, check that the sensors are in place. If the sensors are in place, the sensors or cables are damaged, and the device must be replaced.



PRODUCT SUPPORT

Contact details

XX

Name
Phonenumber
email

XX

Name
Phonenumber
email

BACK TO TOP





Good Thinking

At Lindab, good thinking is a philosophy that guides us in everything we do. We have made it our mission to create a healthy indoor climate – and to simplify the construction of sustainable buildings. We do that by designing innovative products and solutions that are easy to use, as well as offering efficient availability and logistics. We are also working on ways to reduce our impact on our environment and climate. We do that by developing methods to produce our solutions using a minimum of energy and natural resources, and by reducing negative effects on the environment. We use steel in our products. It's one of few materials that can be recycled an infinite number of times without losing any of its properties. That means less carbon emissions in nature and less energy wasted.

We simplify construction