Step-by-step damper configuration Modbus.

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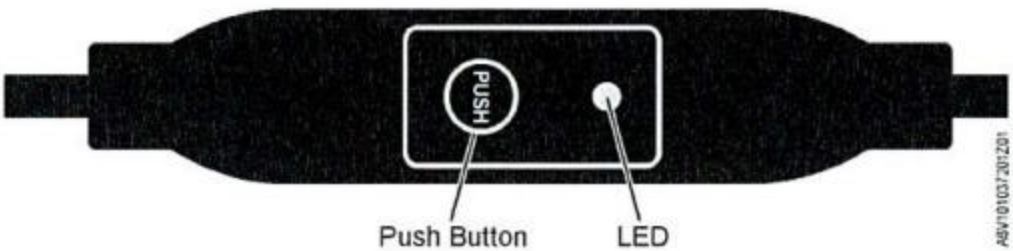
What address does the damper actuator have? 6

All dampers are installed, configurated and tested at the factory. If the damper loses the modbus-connection below you find the steps on how to regain it.

Actuator:



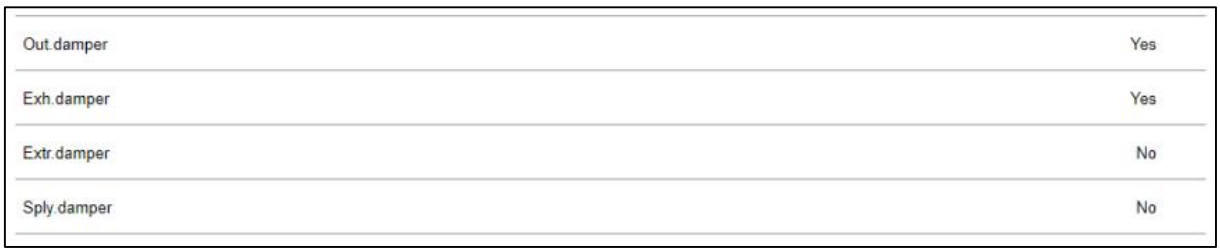
LED blinking pattern

Color	Blinking pattern	Description
Green	1s On / 5s Off	Normal mode without bus traffic
	Flickering	Normal mode with bus traffic
Orange / green	1s orange / 1s green	Device is in override control mode
Orange	1s On / 1s Off	Bus parameter not yet configured
	1s On / 5s Off	Device is in backup mode (replacement mode)
Red	Permanently lit	Mechanical error, device blocked, manual intervention or calibration
	1s On / 5s Off	Internal error
	0.1s On / 1s Off	Invalid configuration, e.g. Min = Max
Blue	Flickering once after address indication	Bus termination active

Step 1: Activate your damper:

All available dampers on the AHU should be activated in the Climatix Control. Please check that in the menu.

1. Please connect your hand-held terminal (touch or push-and-roll) to your AHU using the password 6006. The chain symbol on the upper right corner will stop flickering and be permanently lit.
2. You find the dampers under
   Operations -> System settings -> Configurations -> Configurations 1



Step 2: Reset to factory settings

If you by mistake reset a damper to factory settings, you probably pressed the “push-button” on the actuator longer than 10 seconds. This means the damper has lost its Modbus address and you need to address it again.

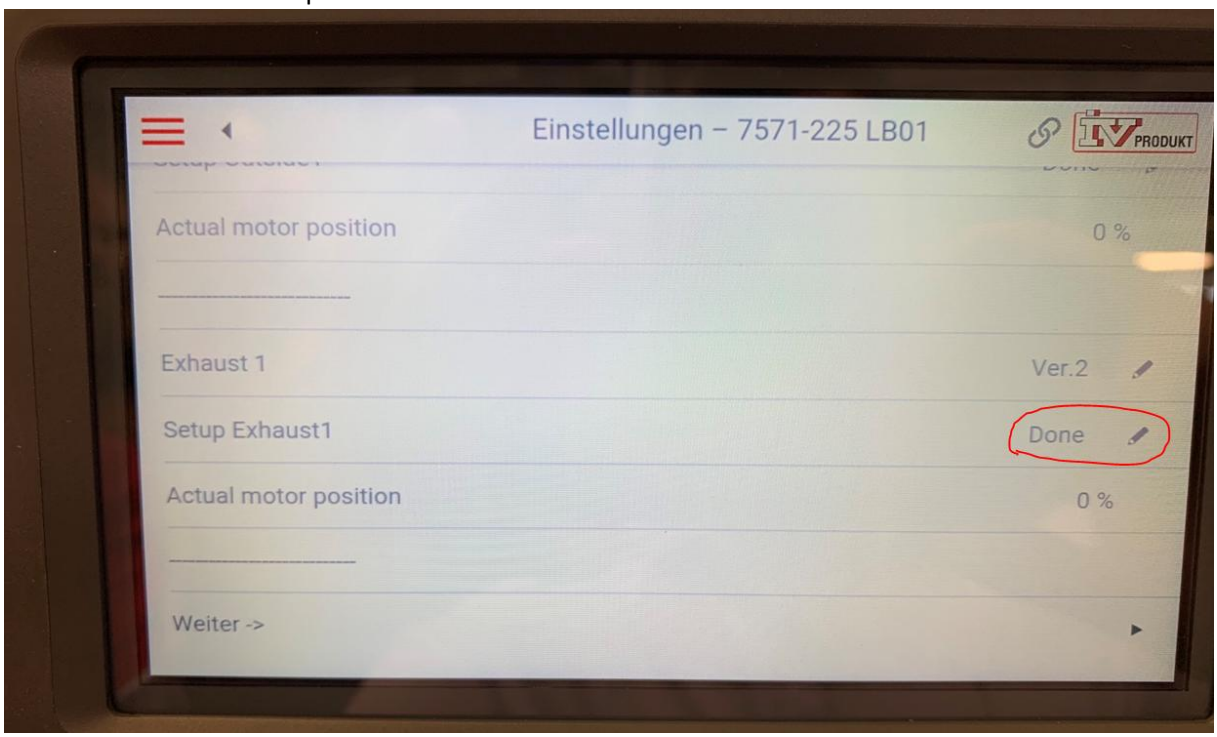
The LED will blink (orange 1s On / 1s Off).

Step 2: Remove the damper from the Climatix

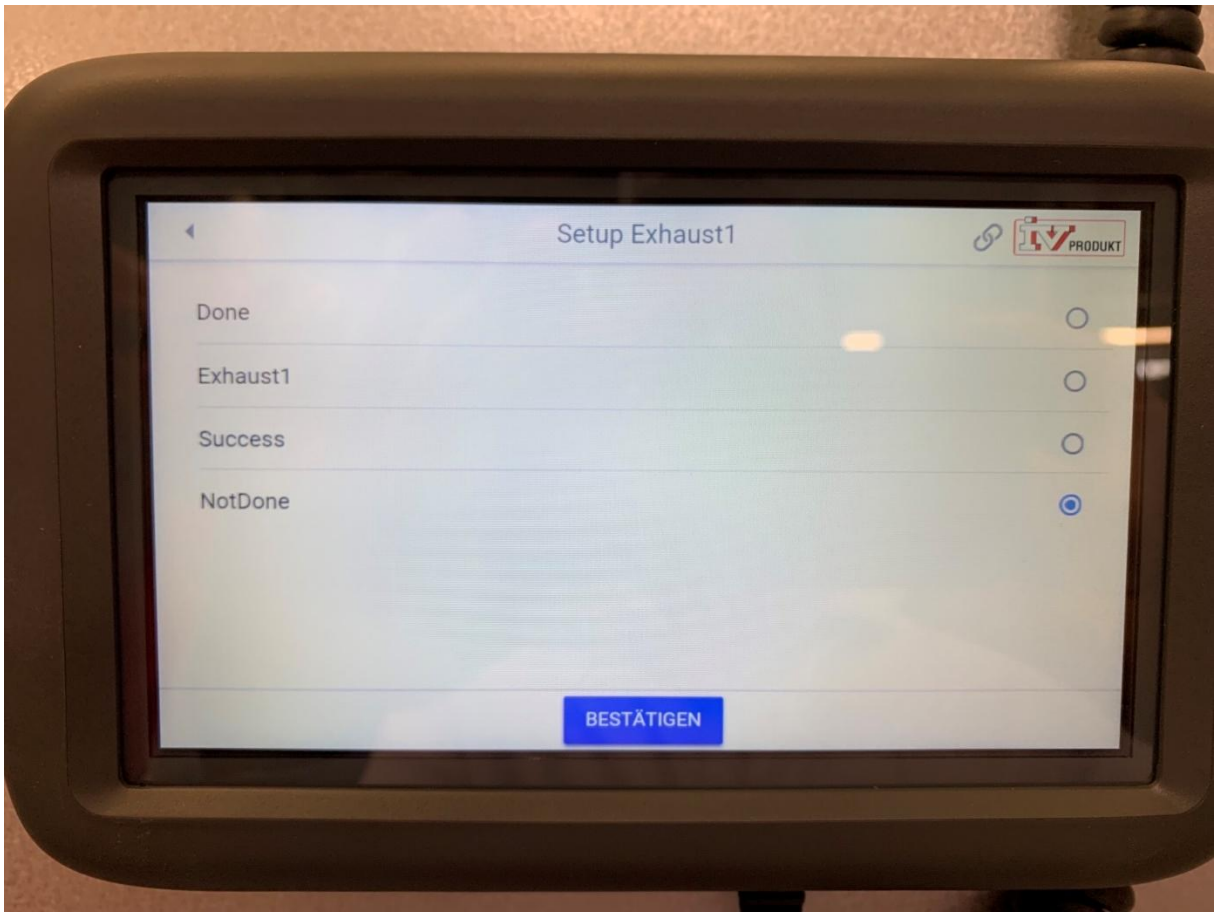
Before we can address the lost damper again, we need to reset the specific damper settings in the Climatix of the AHU. Please follow the steps below:

1. Please connect your hand-held terminal (touch or push-and-roll) to your AHU using the password 6006. The chain symbol on the upper right corner will stop flickering and be permanently lit.

2. Go to the following settings: Operations -> System settings -> Configurations -> Integrations -> “Modbus dampers” and choose “Settings”.
3. Find your damper that you want to address again.
4. The example below is for the Exhaust 1 damper.
5. At the moment the “Setup Exhaust 1” is “Done”.



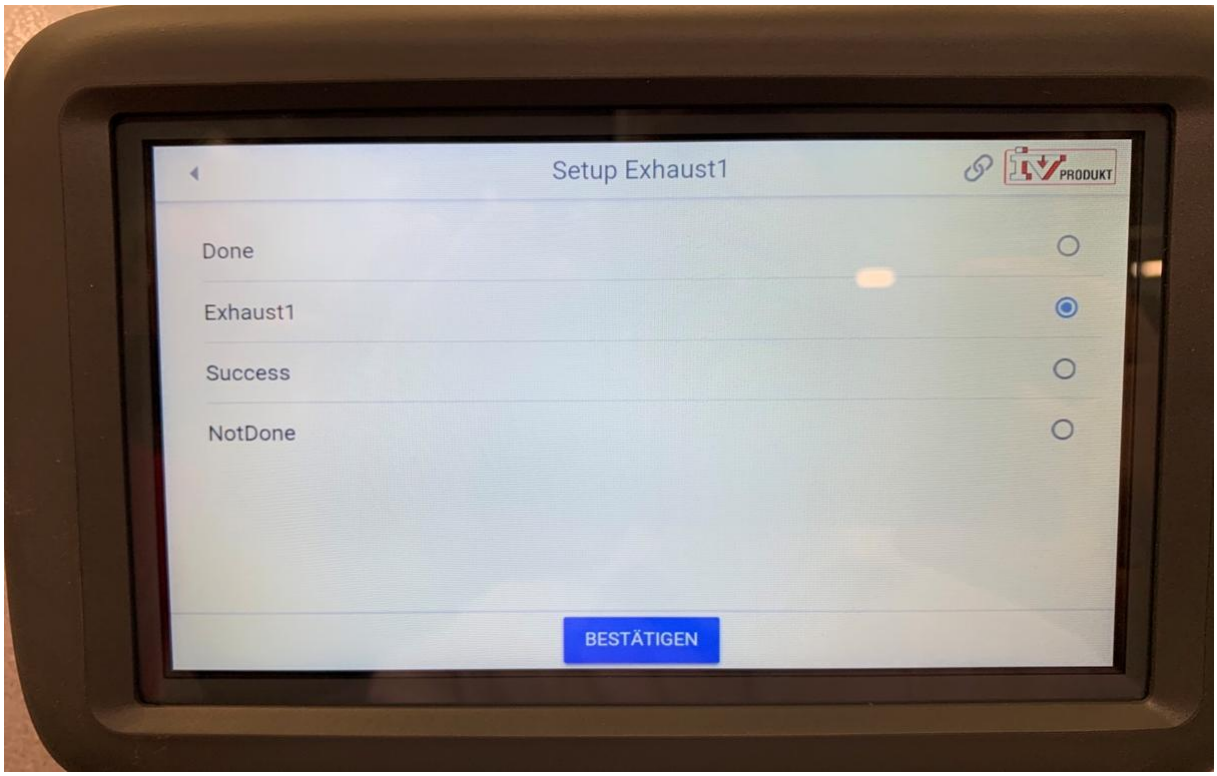
6. Please change that to “Not Done”:



7. After you changed that you need to make a restart of your hand-held terminal (Cllimatix).
8. Please go one step back in the menu: Operations -> System settings -> Configurations -> Integrations
9. On the bottom, you find the “Restart required!” -> Execute the restart.

Step 3: Addressing the damper again in the hand-held terminal.

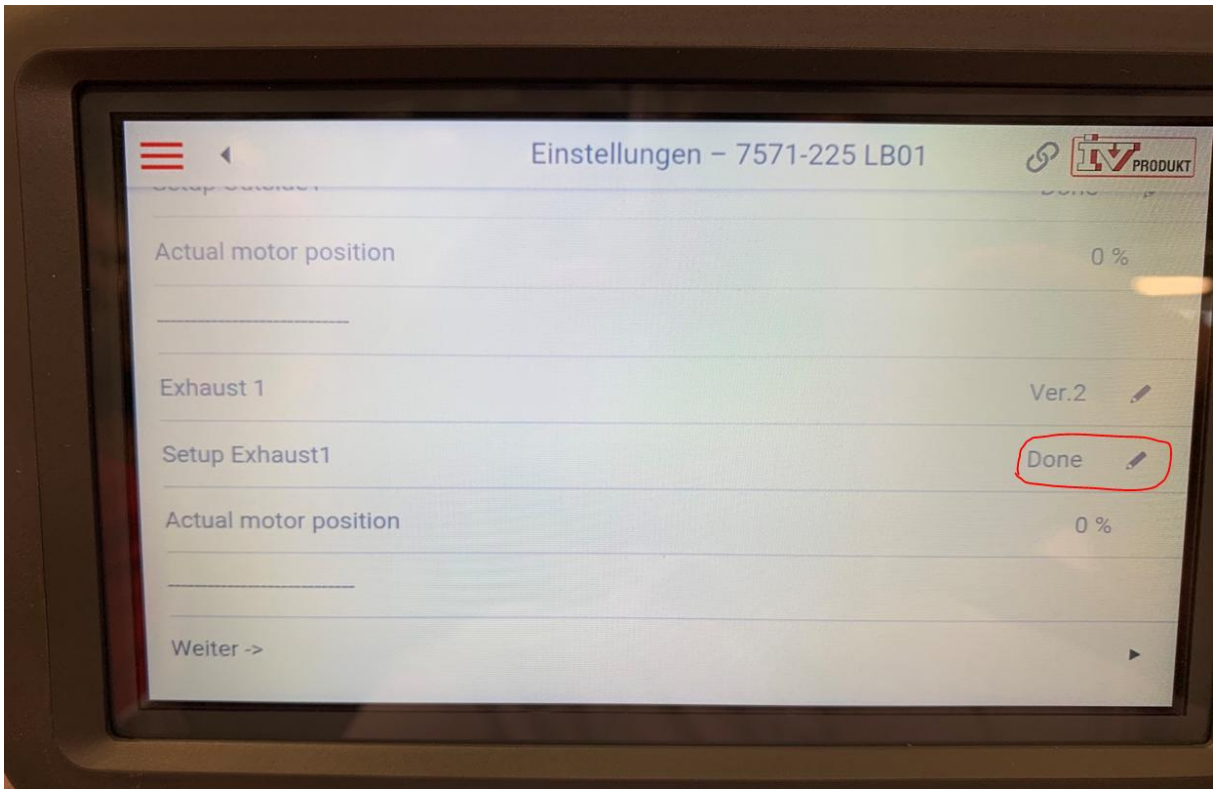
1. After the restart the hand-held terminal should be connect to your AHU (Climatix). If it is not the case, please do that manually as be explained above (password 6006). The chain on the upper right corner should stop flickering and be permanently lit.
2. At this step either the control (climatix) or the damper is connected to each other.
3. We start to address the damper again in the hand-held terminal.
4. Go to the following settings: Operations -> System settings -> Configurations -> Integrations -> “Modbus dampers” and choose “Settings”.
5. Find your damper that you want to address again.
6. The Exhaust 1 damper Setup will be on “NotDone” and you need to change that to “Exhaust1”.



Step 4: Address the damper itself

1. You need to go to the damper directly after you added it in the Climatix and push the actuator button and hold it for 5 – 10 seconds (the red-light emitting diode is lit and will then go out). Let the button go when the light emitting diode has gone out. The diode will now blink green (1s ON / 5s Off).

2. On the display of the hand-held terminal the Setup Exhaust 1 will change from “Exhaust 1” to “success”.
3. Please change the “success” to “done” and confirm.



4. We need a restart. Please go one step back to “integrations” in the menu: Operations -> System settings -> Configurations -> Integrations
5. On the bottom, you find the “Restart required!” -> Execute the restart.
6. After the restart the Setup will still be “done” and the actuator will be flickering green for normal mode with bus traffic.
7. The connection between the exhaust 1 damper and the Climatix Control is successfully established.

What address does the damper actuator have?

A **quick** press of the button makes it possible to read out the address by counting number of flashes.
Red flash = 1-digits

Green flash = 10-digits

Orange flash = 100-digits

Ex. 1 red flash and 7 green flashes = address 71