User guide

DEVI Control App



Make it easy, make it DEVI



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1 Introduction

The application DEVI Control is for use with DEVIreg[™] Basic and Room , the app allows you to enable many advanced features and unlock capabilities of the thermostat that would not be achievable without usage of the application.

Here is an excerpt of what can be done using the application:

- Home screen: room estimated temperature / floor temperature / Heating indication/ child lock indication
- Schedule setup: temperature /days/ time
- Manual temporary offset
- Manual mode
- Thermostat limits
- Default preset based on room and floor type selection: schedules/ temperatures/ times and limits
- Adaptive start based on self learning algorithm

- Lock settings and child lock
- Thermostat information pdf export allowing to trach all important parameters etc. (during the installation)
- Help center with access to related materials from Salesforce
- Both Android and iPhone

Among others, the thermostat has the following features:

- ECO design LOT20 compliance
- In App setup for specific flooring and room types.

- Support for 55x55 like frame systems.
- Simple knob operation for temp.control and features.
- Bluetooth connectivity on 2.4GHz frequency at a maximum power of 9,5dBm.
- Access to thermostat via App for settings for easy access, setup, or remote troubleshooting.

Firmware update via DEVI Control App.

• Works out of box with default parameters as thermostat.

2 Settings

2.1 Product interface

Product interface



* When knob is in temp adjustment mode the thermostat will not run the time schedule program.

Knob position		Description	
OFF	\bigcirc	In this position the thermostat is not active.	
Timer schedule/App comunication	Ŀ	In this position the thermostat is running in schedule mode. In this position the thermostat is ready for App configuration/ modification.	
Frost protection	*	In this position the thermostat is operating in frost protection mode.	
Temperature adjustment		By turning the knob clockwise the temperature will increase.	

User interface/ daily use

On the thermostat the temperature can be directly adjusted using the knob/dial by setting the indicator on the wanted floor temperature, this will disregard any schedule, however, still adhere to any set min/max limitations (can be set in the app).

The positions Frost protection, Timer schedule or OFF can be selected using the knob/dial.

Selecting the Frost protection

mode will see the thermostat ensure that the frost temperature is maintained, this value can be set between 4-14 °C (default 5°C) in the app.

Selecting the timer schedule / app communication mode

the device will be connectable in the DEVI control app, the communication is done via Bluetooth 4.2, herein temperatures, settings, schedule, limits and more can be set to the wanted level.

Selecting the OFF mode will disable the thermostat completely.

When the thermostat is in all

2.2 Indicators

The indicators are shine through and are within the knob of the product, these will light up when needed.

All indicators fade out after a duration (default 20 seconds) unless an error is present.

Additionally, indicators will "wake up" upon manual interaction with the thermostat, heating state change, schedule event, app connection or errors/warnings appearing. other positions than Timer schedule/App communication the app can only display limited information, in OFF the app and thermostat will be completely OFF and nothing will be indicated or communicated to the app.

To pair the thermostat with the app, place the thermostat in the App communication position and start the process in the app , the device will blink with the communication indicator, after the app has initiated the communication with the thermostat, the user needs to turn the dial out to manual temperature setting and back into the App communication position, this is to validate with what thermostat the paring is wanted.



Indicators (inside the knob)

Heat indicator



This indicator lights up and turns **red** when the thermostat switches **on** and delivers current to the electric heating element.

After some seconds the indicator fades out.

This indicator lights up and turns **green** when the thermostat is powered and OK. After some seconds the indicator fades out.

The indicator flashes **red** when an error is present, this will persist until error is alleviated, heating will not be activated/ activatable.

Data communication	This indicator flashes white when initiating data communication between the thermostat and communication device unit.
	The indicator flashes in part of the paring process
	 The indicator is constant lightning white when communica- tion between the thermostat and communication device is present.
	The indicator turns off when communication stops.
Schedule	This indicator lights up white when the build in schedule changes from Non active to active and vice versa.After some seconds, the indicator fades out.
	• The indicator flashes in part of the paring process.
	 This indicator flashes white when there are warnings. The warning will be present until App communication is activat- ed, however the indicator will only flash for a duration (de- fault 20 seconds). Warnings will be displayed in the App.

3 First Connection

Download the DEVI Control[™] app from App Store or Google Play.

Launch the app. and press **OK** to a Bluetooth connection.

Your Bluetooth should be **ON**. Then press **Allow New Connections**.

Open the App on your phone and press "+" button to add a new thermostat. Add a new thermostat by pressing "+" button.

Choose a type of your thermostat.

Scroll down and press Accept for a License Agreement.



"DEVI Control" would like to use Bluetooth for new connections You can allow new connections in Settings.		
Settings	Close	
Settings Bluet	ooth	
Bluetooth		
Allow New Connections		





lst October 2023	
Danfoss A/S Cvr. nr. 20165715 Nordborgvej 81 6430 Nordborg Denmark	
Cancel	Accept

To pair your smartphone with the thermostat.

Turn the knob to the schedule icon. If the knob already was on the schedule, you still should move the knob up, wait 1-2 seconds and return it to the schedule icon.



Pic. 1 Move the knob up, wait 1-2 sec

(L) Schedule mode



Wait till the circle becomes fully red to finish the scanning process.

To confirm the parring turn the knob onto the dial, wait for 1-2 seconds and return to the schedule icon.



Pic. 1 Move the knob up, wait 1-2 sec



Pic. 2 Return the knob to the schedule icon 1

Then we have several options:

Option 1 – Basic setup;

Option 2 – Advanced setup;

Option 3 – Installer setup.



If you are certified installer you are able to adjust **Installer setup**. This allows for settings that might, if set wrongly damage floorings, heating elements or other properties.

Basic setup information

3.1 Basic setup

For the **Basic setup** you need to select just 2 things.

Select the Room type, Flooring and press **Apply** for both.

There after the settings that will be set into the thermostat is presented , press **Apply** to name the thermostat and finalize the **Basic setup**.





Pic. 2 DEVIreg[™] Room

7

6

6

3.2 Advanced setup

In the **Advanced setup** the following settings can be adapted:

- Room type
- Flooring
- Control type Floor or Combined.

Floor means we can control the room only by the floor temperature.

Combined means we can control the room by air and floor temperature. (available only for **DEVIreg™ Room**)

- Schedule
- Temperatures
- Forecast

Then press the **Next** button to name the thermostat and finish the **Advanced setup**.

<	Advanced setup	
Room type		0
Kitchen		
Bedroom		
Living room		
Bathroom		
Other		
Flooring		0
Hard wood		~
Laminate		
Carpet		
Tiles		
Other		
Control		O
Floor		
Schedule		0
Use schedul	e	

	Advanced setup
Tiles	
Other	
Control	0
Floor	✓
🕓 Schedule	
Use schedule	
Plan schedule	
Temperature	
Home	23.5° 24.0° 24.5°
Away	18.5° 19.0° 19.5°
🖋 Features	
Forecast	C
	Next

Pic. 1 DEVIreg[™] Basic



Pic. 2 DEVIreg[™] Room

3.3 Installer setup

In the Installer Setup we could select **Saved setup**. This will help to make a quick setup for many same thermostats, then we press **Apply** to finish the **Installer setup**.

If you don't want to use the **Saved setup**, press the **New setup** instead.

< Installer setu)
Saved setups	0
Saved setup 1	>
Saved setup 2	>
New setup	0
New setup	>



In the **New setup** we could select:

- Room type
- Flooring
- Control type Floor
 or Combined.
- Floor means we can control the room only by the floor temperature.

Combined means we can control the room by air and floor temperature. (available only for **DEVIreg[™] Room**)

Sensor setup (available only for **DEVIreg™ Room**).

For the **DEVIreg[™] Basic** it could be only 1 type of the floor sensor.

- Schedule
- Temperatures
- Forecast

< New setup	
Room type	0
Kitchen	
Bedroom	
Living room	
Bathroom	 Image: A second s
Other	
Flooring	0
Hard wood Max floor temp : 28.0°C	~
Laminate	
Carpet	
Tiles	
Other	
Control	0
Floor	~
Carrowhere	•
Sensor type	U
Devi - 15K standard	\checkmark



Pic. 1 DEVIreg[™] Basic

You can **Saved setup** and use it in the future for a quick setup. You can create max. 2 **Saved setup**. Then press the **Next** button to finish the **Installer setup**.

< Ne	w setup
Room type	0
Kitchen	
Bedroom	
Living room	
Bathroom	
Other	
Flooring	0
Hard wood Max floor ten	np : 28.0°C 🗸
Laminate	
Carpet	
Tiles	
Other	
Control	0
Floor	
Combined	✓
Sensor type	0
T 1	

< New setup	
Sensor type	0
Tekmar - 2K	
Teplolux - 6K	
Aube - 10K	
Fenix - 10K	
Raychem - 10K	
Oj - 12K	
Warmup - 12K	
Devi - 15K standard	
Eberle - 33K	
Ensto - 47K	
() Schedule	0
Use schedule	
Plan schedule	>
Temperature	0
Home	23.5° 24.0° 24.5°



Pic. 2 DEVIreg[™] Room

Name your device and then you can press "+" to add multiple thermostats or press **Done** to finish the current setup.

Name your thermostat		
Your thermostat has been added!		
Congratulations with your new	thermostat!	
Give your new thermosta	at a name	
Name your thermostat		
•	(\mathbf{b})	
Add another	Done	

4 Home screen

On the **Home screen** we can see the current setpoint, current temperature and does the heating is ON.

Press "+" for adding multiple thermostats.



While turning the knob out of the Schedule mode we can still see the setpoint but the room icon becomes gray. Which means the thermostat is out of range or isn't available.

Also, you can see the notification why it's grey.

If we turn the knob back to the Schedule, the screen becomes colorful again.





There is no limit to multiple users, but only 1 user can be connected at the same time to the thermostat settings.

While another user is connected, the room icon becomes grey and you don't see any temperatures.



On the **Home screen** you can see the **Help** button.

There you can find the **General help** and FAQ buttons.





In the **FAQ** you can find the descriptions of error messages and Warnings and some videos in the **General help**.

< Help Center	
Search topic	Q
Help for DEVIreg Room	>
Help for DEVIreg Basic	>

< FAQ	
Search topic	Q
DEVIreg shows error messages E10	>
DEVIreg shows error messages E5	>
DEVIreg shows Warning W10	>
DEVIreg shows Warning W8	>
DEVIreg shows Warning W5	>
DEVIreg shows Warning W3	>
DEVIreg shows Warning W2	>
DEVIreg shows Warning W1	>
DEVIreg shows error messages E11	>
DEVIreg shows error messages E6	>
DEVIreg shows error messages E9	>

If you press the **Settings** button on the **Home screen**, you can see the **General settings**.



General Setti	ngs	
Notification cer	nter	>
Manage your notificat	tion in the notification center	/
Status		
Status of the connecte	ad thermostats. Can tell you abo	, >
errors for your thermo	ostats	
Error mosco dos		
Error messages		>
An explanation of all t	ne error codes and messages	
Warning messa	ges	
An explanation of all t	he warning codes and message	s
About		>
Demo		
Try out the app on De	mo mode	>
^	\sim	~
لَ) Home	(?) Help	{0} attings

Notification center, where you can turn ON/OFF all notifica-tions.

Thermostat status where you can overview your thermostats.



Ì

Error messages.

Description of Warning and

About info where you can write an email to get an answer regarding the thermostat or send feed-back. Also you can see the current App version.

	Warning messages	
See all the warning messages below and how to handle them.		
W1 - Schedul manual dial s Set when Schedu been turned to so	e overwritten due to etting Ile is active (Set in App) but dial has et a manual setpoint	í
W2 - Invalid c If time is totally ir 2050 or use prod to App	lock walid - less than 2021 or above uction date or first time connected	í
W5 - Set temp Warning given w from schedule or within 40 PWM p control)	berature not achieveable hen the room/floor temperature manuel setpoint can't be reached eriods (Output from heating	í
W8 - Maximu Limit reached Set if Maximum F in Combi Mode v Setpoint	m Floor Temperature d iloor Temperature is reached while while Room Temperature is not at	i
W10 - Temper temperature Set if maximum t temperature thar potentiometer. Li to 27°C	rature set above maximum limit emperature is set to a lower a the current setting of the knob/ ke Max set to 25°C and knob is set	í

< Error messages	
See all the error messages below and how handle them.	to
E1 - Floor sensor disconnected Floor sensor measurement < -30°C	í
E2 - Floor sensor short circuited Floor sensor measurement > 60°C	í
E3 - Thermostat overheating PSU sensor measurement > 95°C	í
E4 - Room sensor disconnected Room or Top PCB sensor measurement < -40°C	í
E5 - Room sensor short circuited Room or Top PCB sensor measurement > 120°C	í
E6 - Unrecoverable error on PSU PSU sensor measurement above 120°C or below -40°C	í
E7 - Unrecoverable error on front <watchdog></watchdog>	í
E9 - Potentiometer error Potentiometer position outside min or max position on scale	í
E10 - Invalid communication	í

٩	< About	
	Terms & Conditions Terms & Conditions of the app	>
	Privacy Policy Privacy policy of the app	>
	EULA DEVI Control App End User License Agreement an Disclaimer	nd >
	Open Source Component License List of all used 3rd party library licences	>
	Contact Us Contact us via email	>
	Current Version	1.1.0 (5.1)

5 Main menu

Inside the Main menu you can see

- Room temperature (available only for **DEVIreg™ Room**)
- Floor temperature
- Heating indicator
- Lock indicator



Pic. 1 DEVIreg[™] Basic



Pic. 2 DEVIreg[™] Room

5.1 Application schedule mode

Planning schedule is done by either clicking on **24h clock** or clicking the **Plan schedule** button.

You can turn off the schedule and switch the thermostat to manual mode, in this case, you see the hand on **24h clock.**





In the Plan schedule the weekly heating schedule can be set up.

On the same page, you can change the **Home** and **Away** temperatures.

You can press **Apply** to confirm it or press **OK** while you go back to the main menu.
 Keekly Schedule

 Mon
 Tue

 Mon
 Fri

 Sat

 Thu
 Fri

 Sun

 Home temp.
 Away temp.

 24.5°
 18.0°

 18.5°



Desired Home temperature (time when the higher temperature is desired by user), can be seen as "red marked" times (on the 24 hours watch face).

Change settings by: touching and dragging the larger red points.

If the red points overlap, they equalize each other. That way a heating period can be removed.

The regulation is for each 00:30 min.





The minimum time of 1 heating period is 01:00 hour. You can set a maximum 3 heating period for each day of the week.

The same schedule can be copied to other days. Tap "Copy" button and choose the days, to copy the same schedule too. Confirm the action by "OK" in the upper right corner.

5.2 Temperature limits

You can change the temperature limits by clicking on the temperature bar below the **24h clock** or tap on **Limits**.

Be aware that different floor surfaces have different floor limits of temperature.

Ensure that the high floor temperature is set in accordance with the floor manufacturer's specifications.

To confirm your adjustments, press on **Apply** button.

< Devi	
- 18.5	+
O Schedule	6
Use schedule	
Plan schedule	>
幸 Thermostat Limits	0
Floor 24.5	15.5 Min temp.
Frost protection:	7.0 Min temp.
㈜ Settings	0
Limits	>
Advanced settings	>
Lock setings and PIN-code	>

< Settings - Limits			
Set Maximum and Minimum temp. Be aware of special floor types can only handle 25 degrees.			
Room Max Limit:	34.5° 35.0°		
Floor Max Limit:	34.5° 35.0°		
Floor Min Limit:	5.0° 5.5°		
Frost protection:	4.5° 5.0° 5.5°		
Apply			
Maximum temperature Some floors are not able to withstand temperature over 25 degrees. Therefore please dont exceed the recommende temperature for your floor. Be aware that measured floor temperature and surface temperature of floor likely deviates approximately 2 degrees.			

5.3 Advanced settings:

- Adaptive learning-Start: thermostat begin warming earlier to achieve the desired temperature in time.
- Adaptive learning End: turn off the heat to save energy that would be else wasted.
- **Thermostat light:** here you can off all LED's when the thermostat is in sleep, change the LED's brightness in sleep mode or set the time when the display should enter in sleep mode after the last activation.

<	Devi	
Schedule		0
Use schedule		
Plan schedule		>
🗄 Thermostat Lin	nits	0
Floor	24.5 Max temp.	15.5 Min temp.
Frost protection:		7.0 Min temp.
袋 Settings ①		8
Limits		>
Advanced settings >		
Lock setings and	d PIN-code	>



Do not dist	turb	
Turns off all LED mode. When "Do can not be dimr	is when the thermostat is in slee o not disturb" is active, the LEDs ned.	p
Display alv	vays on (only C)	
Keeps the displa the thermostat i	ay turned on at 100% even wher is in sleep mode.	
LED's brigh	tness in sleep mode	
LED's brigh Define how muc when the therm	tness in sleep mode ch your want your LEDs and disp lostat is in sleep mode.	olay to shine
LED's brigh Define how muc when the therm	thess in sleep mode ch your want your LEDs and disp toostat is in sleep mode.	lay to shine
LED's brigh Define how mu when the therm	thess in sleep mode ch your want your LEDs and disp tostat is in sleep mode.	alay to shine
LED's brigh Define how muc when the therm 0%	tness in sleep mode ch your want your LEDs and disp ostat is in sleep mode.	alay to shine
LED's brigh Define how muc when the therm 0% Setback tin Define how muc activated till it sl	thess in sleep mode chyour want your LEDs and disp tostat is in sleep mode. 50% 60% 60% 60% 60% 60% 60% 60% 60% 60% 6	lay to shine
LED's brigh Define how muc when the therm 0% Setback tim Define how muc activated till it sl 10 Sec	thess in sleep mode chyour want your LEDs and disp tostat is in sleep mode.	olay to shine 100%

5.4 Lock settings and PIN-code

You can apply child lock to the temperature change, settings changes or apply the child lock for both.

For the default **PIN-code** is "0000".

You can change it by pressing the adjustable(corresponding) button.

While the lock is activated, you can see the red lock icon in the top right corner.

As well increasing the temperature out of the schedule and turning off the schedule mode can't be applicable.

To deactivate the lock go to the lock settings and write a PIN-code again.

< Devi	
- 18.5	+
Schedule	0
Use schedule	
Plan schedule	>
王 Thermostat Limits	0
Floor 24.5	15.5 D. Min temp.
Frost protection:	7.0 Min temp.
۞ Settings	0
Limits	>
Advanced settings	>
Lock setings and PIN-cod	e >



Limits	
Lock all with PINcode	
Lock both the thermostat settings and apply child safety on your thermostat.	
Apply child safety with PIN-code	
Applying child safety to your theromostat means that changes to temperature can only be made in the app.	
Apply PIN-code to Settings	
Lock the possibility to make changes to the thermostat settings with a PIN-code.	
Change PIN-code Change the PIN-code for the activated features	
Change PIN-code	



5.5 Thermostat information

By pressing the **Thermostat information** button, you will get all the information of the device.

< Devi	
Frost protection:	7.0 Min temp.
중 Settings	0
Limits	>
Advanced settings	>
Lock setings and PIN-code	>
(i) Information	0
Thermostat information	>
Help	>
Edit operations	0
Edit thermostat	>
Rename thermostat	\oslash



You can press the **Share** button to create text or PDF format and send it to the installer or Danfoss technical team if you have any questions about your thermostat.

	Thermostat information	
	Git hash: 14944873867e8eacfe7c018cf53a427404 fdae3f93 Device name: DEVI Room PIN-Code: NO Child lock: NO Pairing mode: NO Preheating: YES Use schedule: YES Device type: DEVIreg [™] Room Setpoint: 27.5 Error messages: None Warning messages: None Room type: Living room Flooring: Tiles Control: Combined Sensor type: Devi - 15K standard Home temp.: 27.5 Away temp:: 16.5 Current home temp: 25.0	
	Please choose your share option	
	Raw text	
	PDF format	
Cancel		

5.6 Edit thermostat

If you are an installer, there you can change the wire sensor manufacturer. Also, you can do the same during first connection in **"Installer setup"**.

The wire sensor selection is available only for the **DEVIreg™ Room**.

< Devi	
Frost protection:	7.0 Min temp.
හි Settings	0
Limits	>
Advanced settings	>
Lock setings and PIN-code	>
(i) Information	0
Thermostat information	>
Help	>
Edit operations	0
Edit thermostat	>
Rename thermostat	\oslash

< Edit thermostat
Room type
Kitchen
Bedroom
Living room 🗸
Bathroom
Other
Flooring
Hard wood
Laminate
Carpet
Tiles Max floor temp : 35.0℃ ✓
Other
Control
Floor
Combined 🗸
Sensor type

5.7 Delete thermostat

Deleting the thermostat will only remove it from the app, but the thermostat settings will not be deleted. It means you don't need to put all the thermostat settings again while connection after the deleting.

If you want to delete the thermostat settings, you need to do a **Factory reset.**

< Devi	
Frost protection:	7.0 Min temp.
영 Settings	0
Limits	>
Advanced settings	>
Lock setings and PIN-code	>
i) Information	0
Thermostat information	>
Help	>
Edit operations	0
Edit thermostat	>
Rename thermostat	\odot
Delete thermostat	

6 Factory reset

To perform a factory reset the thermostat needs to be powered and correctly mounted, on the bottom of the device (circled below) is a pin hole, by pressing a needle into this pinhole a button will be activated, after 20-30 seconds of activation of this button the thermostat will perform a factory reset. All indicators will flash briefly to inform about successful factory reset.

The thermostat will briefly be rebooting please allow for up to 5 seconds for the thermostat to be back to a responsive state.

Performing an factory reset will reset errors and warnings.

Alternative method, the front cover on the thermostat can be removed using the slot on the bottom of the thermostat and the button can be activated with a finger or similar.

The factory reset can only be performed whilst the thermostat is powered.



The future is **electric**

Experience the benefits of DEVI electric heating solutions in all your applications, saving space, time, maintenance and installation costs. Whether it's indoor comfort or outdoor safety, our solutions offer efficiency, flexibility, and reliability.

Our heating systems are not only energyefficient but also environmentally friendly, aligning with our commitment to sustainability.

When it comes to making heating easy, choose DEVI. Our solutions are designed to simplify your heating experience with intelligent controls optimizing fast warm-up times, making it hasslefree and user-friendly.

Embrace the efficiency and reliability of DEVI and enjoy the perfect balance of comfort and convenience in all your heating applications.



Make it easy, make it DEVI



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