



User Guide

Danfoss Ally[™]



www.danfoss.com

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1. Danfoss Ally[™] introduction

Danfoss Ally™ gives you all the benefits of a full-blown smart heating system – in a simple easy-to-use app. With Danfoss Ally™ you get full control of your radiator and floor heating as well as your heating bill. From virtually anywhere and at any time whether you're at home or on the go. You can even control your heating system with your voice as Danfoss Ally™ speaks with many your other IoT friends.



The intuitive app user interface is designed to make your everyday life as simple and comfortable as possible. The app guides you through the quick set-up. Lets you fit your home heating to your daily routines. And gives you the complete overview and control at all times.

Danfoss Ally™ is Zigbee 3.0 certified. This means that it speaks the same wireless language as tons of other smart home devices around the globe. Allowing you to connect Danfoss Ally™ to your existing smart home setup. And to make your smart home even smarter.

1.1 Key features

- Full control of radiator and underfloor heating via the app on your smartphone
- A higher level of comfort and energy efficiency by adapting room temperature to a daily schedule
- Easy to use and install with the intuitive app control
- · Designed to bridge form and functionality
- · Remote control from everywhere
- Up to 30% energy savings
- Fits all valves
- A maintenance-free thermostat the battery lasts up to two years
- Works with Amazon Alexa, Google Assistant, Apple Voice Control
- Excellent temperature control
- EPBD compliant
- Open API
- · Zigbee 3.0 certified

1.2 Identify your Danfoss Ally™

Product	Installation Guide - Languages	Code no.
Danfoss Ally™ Gateway	EN, DE, DA, FR, IT, PL, CS	014G2400
Danfoss Ally™ Starter Pack	EN, DE, DA, FR, IT, PL, CS	014G2440



1.3 Danfoss Ally[™] components and communication map

We know how inter connectivity is the secret behind a truly smart home. Where devices are flawlessly connected in an intelligent network. In a smart ecosystem that allows you to control your world in your way.

Danfoss Ally™ is Zigbee 3.0 certified. This means that it speaks the same wireless language as tons of other smart home devices around the globe. Allowing you to connect Danfoss Ally™ to your existing smart home setup. And make your smart home even smarter.



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2. In the package

Danfoss Ally[™] Gateway are supplied with Quick Guide, LAN cable, Power supply cable.

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Danfoss Ally™ Gateway	Quick Guide	LAN cable	Power supply cable

3. Technical specifications

Danfoss Ally™ Gateway				
Device Function	Smart Home Gateway			
Recommended Use	Residential indoor (pollution degree 2)			
Application	Radiators, water-based floor heating			
LED Indicators (green)	Power/Status, Network Connection			
Button	Press Reset Button for 5 sec. to perform factory reset			
Power Supply	5 VDC			
Adaptor	110 V ~ 240 VAC, 5V 1A DC			
Power Consumption / Standby	< 5 W / < 2 W			
Wired Communication	10/100M Ethernet Port (RJ45, LAN)			
Wireless Communication	Zigbee / IEEE 802.15.4			
Transmission Frequency / Power	2.4 GHz / < 20 dBm (79 mW)			
Wide Open Transmission Distance	300 m outdoor line-of-sight			
Firmware Update	Support for over the air updates			
Operation Temperature	-10 °C to 55 °C			
Storage Temperature	-20 °C to 60 °C			
Size	95 mm x 95 mm x 23 mm			
IP class	20			
Integrations	Amazon Alexa, Google Assistant, Partner API			
Approval, markings etc.				

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4. Download and install Danfoss Ally[™] App. First use.

Danfoss Ally[™] gives you all the benefits of a full-blown smart heating system – packed in a simple easyto-use app. No more control unit – now your smartphone is all you need to control and monitor all your radiators and floor heating.

In this way, you're always in control of your home heating. Whether you're at home or on the road. You simply get more flexibility and comfort without the need for complicated hardware.



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Co in Co in	240	Share Device	>	0	••	
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Kithen		FAQ & Feedback	>	Device Of	fline Notification	
		Check Device Network	Check Now >	Offline	Notification	
		Check for Firmware Update	>	Others		
				Share D	Device	>
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5.1 Rooms with several radiator thermostats



If several Radiator thermostats are assigned to one room the Danfoss Ally™ App will automatically create a group. This is to ensure settings are synchronized between devices in same room. It is recommended to always adjust schedule and preferred temperatures from the group to ensure the most efficient performance.

If settings are changed on the individual devices then data is not synchronized with the group. A result of this may be inefficient heating heating regulation.

5.2 Add new devices to existing system

Vertication Vertication	 ✓ ✓	Control devices: Contr
Select Danfoss Ally™ Gateway to add additional Danfoss Ally™ Radiator Thermostats or Danfoss ICON devices to existing system.	Select 'Add subdevice' and chose between Danfoss Ally™ Radiator Thermostat or Danfoss ICON.	Chose between Danfoss Ally™ Radiator Thermostat or Danfoss ICON. The App will guide through the installation flow.

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6. Functions and settings overview

	& 23.0℃	Room temperature
C Danfoss Ally ∠ ■ 6 22.8°C Ø	C3	Manual mode
		Heating schedule
24	Ô	Away mode
18 America 1700	П	Pause
12	۵	At home mode
	١	Pre-Heat is used to ensure you have the right temperature when you want it. When Pre- Heat symbol is showing it means that it is ramping up to the next scheduled At Home mode.

6.1 Setting temperatures

Set your own temperatures for your setback periods in the Danfoss Ally™ App.					
< Set temp	peratures	For changing temperature press Menu button \square on the main screen \longrightarrow Settings \longrightarrow Set temperature.			
û At home	21.5°C 22.0°C 22.5°C	Scroll on temperatures to set your preferred permanent room temperature.			
لَنْ مُسْعَى اللَّهُ Away	16.5°C 17.0°C 17.5°C	In case you need to set temporary temperature, just turn the thermostat wheel and choose desired value. Temporary temperature changes are valid until next scheduled			
Pause	6.0℃ 6.5℃	temperature change.			
		The Danfoss Ally™ can be set from 5 °C to 35 °C.			
		Danfoss recommend a difference between 'At Home' temperature and 'Away/Asleep' that does not exceed 4 degrees.			





6.3 Vacation

Use a Vacation programme to save energy, when you are away or at home. Vacation programme is set within the Danfoss Ally™ App.

< Vacation Mode	< Vacation	< Vacation	K OK K	ок
			When are you leaving?	Jul 12,2020 12:00 AM Jul 23,2020 12:00 AM
choose holiday mode	Vacation Lowes the temperature to 15.0°C while you are away	Vacation At home	 ✓ July 2020 > Mon Tue Wed Thu FH Sut Sun Mon Tue 	 July 2020 > Wed Thu Fri Sat Sun 1 2 3 4
please select one of the following options.Holiday away or holiday at home.You must have Saturday data to choose to be holiday at home		Sat	1 Z 3 4 5 6 7 8 9 10 11 5 6	7 8 9 10 11
			12 13 14 15 16 17 18 12 13	3 14 15 16 17 18 0 21 22 23 24 25
	Now Plan		26 27 28 29 30 31 26 27	28 29 30 31
integ interiorite		Now Plan		
			15.5°С Д. Тетло. 16.0°С Д. Тетло.	16.5℃ 17.0℃
A Holiday mode Away or At Home	The Danfoss Ally™ App displays Vacation	The Danfoss Ally™ App display	Planned Sch Vacations uses Vaca	edule ation in the
or set straight	temperature	Home vacation	time setting. App	D.
away (Now).	where it can be adjusted.	with options Now or by Plan.		



6.4 Overrule a vacation

If returning earlier than expected you might wish to shift from the Vacation programme to your normal schedule.



When in 'Vacation' setting the Danfoss Ally™ App will give options to end the Vacation period or edit the dates and times.

6.5 Cancel an existing vacation programme

<	Vacation	If the Vacation is planned for the future you can simply edit the dates or cancel the programme.
	Cancel? Cancel planned vacation?	
	Cancel vacation Edit	

6.6 Pause

The Pause programme keeps the setback temperature until another programme is selected.



8. Data security

The data security for of the Danfoss Ally™ Gateway and Danfoss Ally™ App, that is paired to your smartphone is guaranteed.

Data encryption: The wireless connection to your Danfoss Ally™ Gateway is protected against threats from unknown devices with latest encryption technology.

In addition to the security functions that ensure data protection at any point during the data transmission from your smartphone to the Danfoss Ally™ Gateway.

9. Safety precautions

SIMPLIFIED EU DECLARATION OF CONFORMITY

Hereby, Danfoss A/S declares that the radio equipment type Danfoss Ally[™] is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.danfoss.com

The gateway is not intended for children and must not be used as a toy. Do not leave packaging materials where children may be tempted to play with them, as this is extremely dangerous. Do not attempt to dismantle the gateway as it contains no user-serviceable parts.

10. Disposal

Danfoss Ally[™] Gateway must be disposed of as electronic waste.





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