



User Guide

Danfoss Ally[™]



www.danfoss.com

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Danfoss

1. Danfoss Ally[™] introduction

The Danfoss Ally[™] gives you all the benefits of a full-blown smart heating system – in a simple easy-to-use app. With the 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 the 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.

The 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 the Danfoss Ally[™] to your existing smart home setup. And to make your smart home even smarter.

1.1 Key features

- The Full control of the 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™

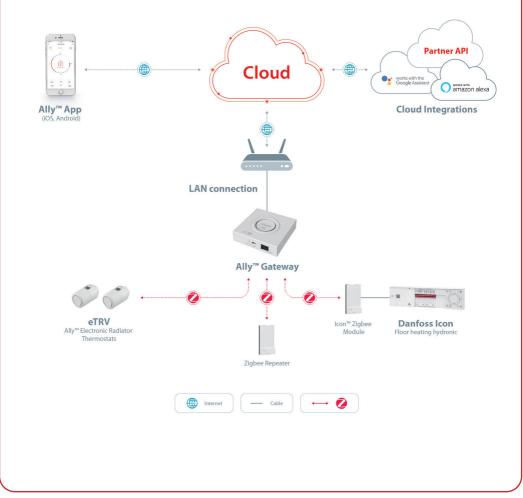
Product	Installation Guide - Languages	Code no.
Danfoss Ally™ Gateway	EN, DE, DA, FR, IT, PL, CS	014G2400
Danfoss Ally™ Starter Pack	EN, DE, DA, FR, IT, PL, CS	014G2440



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.

The 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 the Danfoss Ally[™] to your existing smart home setup. And make your smart home even smarter.



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2. In the package

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

	The manufacture of the manufactu		٦ ٣
Danfoss Ally™ Gateway	Quick Guide	LAN cable	Power supply cable

3. Technical specifications

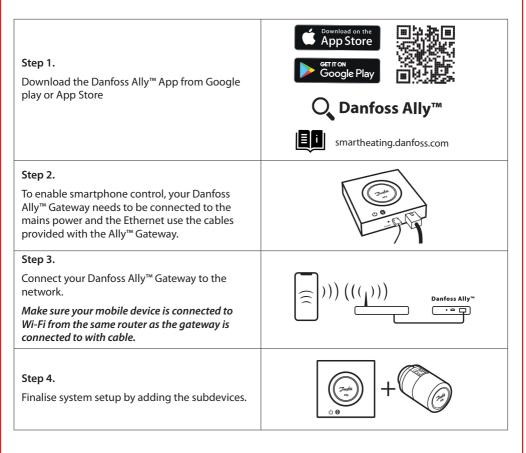
Danfoss Ally™ Gateway			
Device Function	Smart Home Gateway		
Recommended Use	Residential indoor (pollution degree 2)		
Application	Radiators, water-based floor heating		
LED Indicators (green)	Power/Status, Network Connection		
Button	Press Reset Button for 5 sec. to perform factory reset		
Power Supply	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 the Danfoss Ally[™] App. The first use.

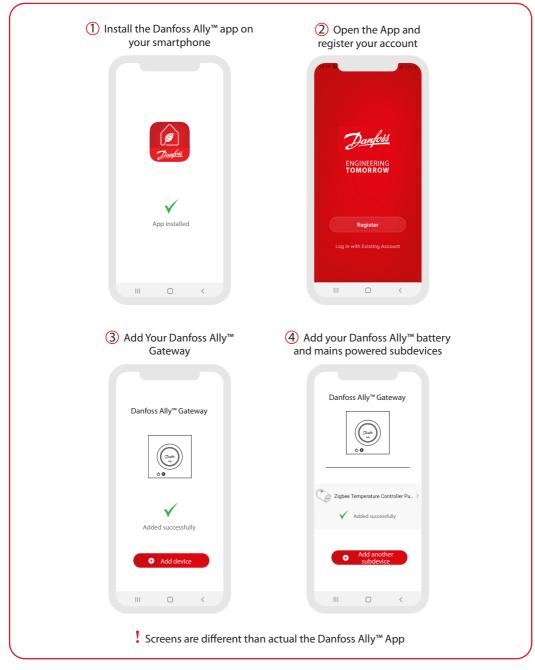
The Danfoss Ally[™] gives you all the benefits of a full-blown smart heating system – packed in a simple easy-to-use app. No more control unit – now your smartphone is all you need to control and monitor all your radiators and floor heating.

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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All Devices Kitchen Master Bedroom		Device Offline Notification		Device	Information	>
0		Offline Notification		Tap-to-	Run and Automation	>
Kitchen Group Danfoss All	r™ Gatew	Others		Third-part	ty Control	
Co 62180 Co 6	22.000	Share Device	>	0	••	
Danfoss Ally™ Radiat Danfoss Ally		Associated Devices	>	Alexa	Google Assistant	
Kithen		FAQ & Feedback	>	Device Of	fline Notification	
		Check Device Network	Check Now >	Offline	Notification	
		Check for Firmware Update	>	Others		
				Share D	Device	>
		Remove Devic	e	FAQ & F	Feedback	>
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5.1 Rooms with the several radiator thermostats



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

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

5.2 Add new devices to the existing system

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

Danfoss

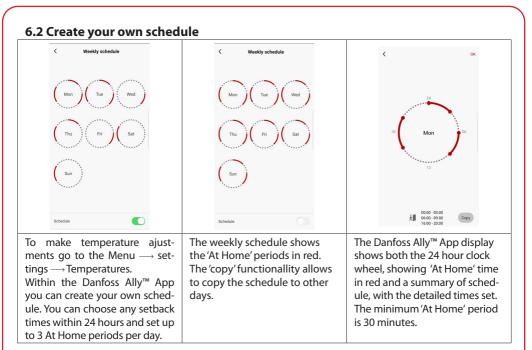
6. Functions and settings overview

	ି 23.0℃	Room temperature
< Danfoss Ally ∠ ≡ 8 22.8°C 8	C ³ y	Manual mode
		Heating schedule
24	Ô	Away mode
10 (August 170°C) 06	П	Pause
12	۵	At home mode
<u>م</u> ه ۱۱ ۵	<u>())</u>	The Pre-Heat is used to ensure you have the right temperature when you want it. When the 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 ter	Set your own temperatures for your setback periods in the Danfoss Ally™ App.				
ے Set te	mperatures	For changing temperature press Menu button \square on the main screen \longrightarrow Settings \longrightarrow Set temperature.			
() At home	21.5°C 22.0°C 22.5°C	Scroll on temperatures to set your preferred permanent room temperature.			
û≬ 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. The temporary temperature changes are valid until the next			
Pause	6.0°C	scheduled 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 mode

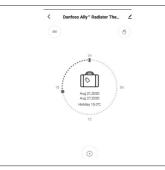
Use a Vacation programme to save energy, when you are away or at home. Vacation programme is set within the Danfoss Ally™ App.

< Vacation Mode	< Vacation	< Vacation	< OF	К
			When are you leaving?	Leave Jul 12,2020 12:00 AM Return Jul 23,2020 12:00 AM
		Vacation At home	< July 2020 >	< July 2020 >
choose holiday mode	Vacation	Using Saturday Schedule	Mon Tue Wed Thu Fri Sat Sun 1 2 3 4	Mon Tue Wed Thu Fri Sat Sun
please select one of the following options. Holiday away or holiday at home. You must have Saturday data	Lowers the temperature to 15.0°C while you are away	100 A	5 6 7 8 9 10 11	5 6 7 8 9 10 11
to choose to be holiday at home		Sat	12 13 14 15 16 17 18	12 13 14 15 16 17 18
_ 🛆	ē 🗰		19 20 21 22 23 24 25	19 20 21 22 23 24 25
Away At home	Now Plan	Ē	26 27 28 29 30 31	26 27 28 29 30 31
		Now Plan		
			15.5°С Д тетр. 16.0°С	16.5°С Д тетр. 17.0°С
A Holiday mode	The Danfoss	The Danfoss	Planned	Schedule
Away or At Home can be planned or set straight	Ally™ App displays Vacation temperature	Ally™ App display confirms your At Home vacation	Vacations uses a calendar and time setting.	Vacation in the Danfoss Ally™ App.
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 planned vacation?	

6.6 Pause mode

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

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8. Data security

The data security for of the Danfoss Ally™ Gateway and the 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 the 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

The Danfoss Ally™ Gateway must be disposed of as an electronic waste.





Danfoss A/S

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