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Danfoss 5702424056544 Ally WiFi Gateway User Guide

ENGINEERING
TOMORROW
User Guide
Danfoss Ally™ Gateway

www.danfoss.com

Contents

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 all 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 setup. Let's 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.

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

Identify your Danfoss Ally™

Product	Installation Guide – Languages	Code
Danfoss Ally™ Gateway	EN, DE, DA, FR, IT, PL, CS	014G2400
Danfoss Ally™ Starter Pack	EN, DE, DA, FR, IT, PL, CS	014G2440

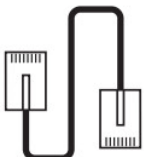**Danfoss Ally™ components and communication map**

We know how interconnectivity 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.
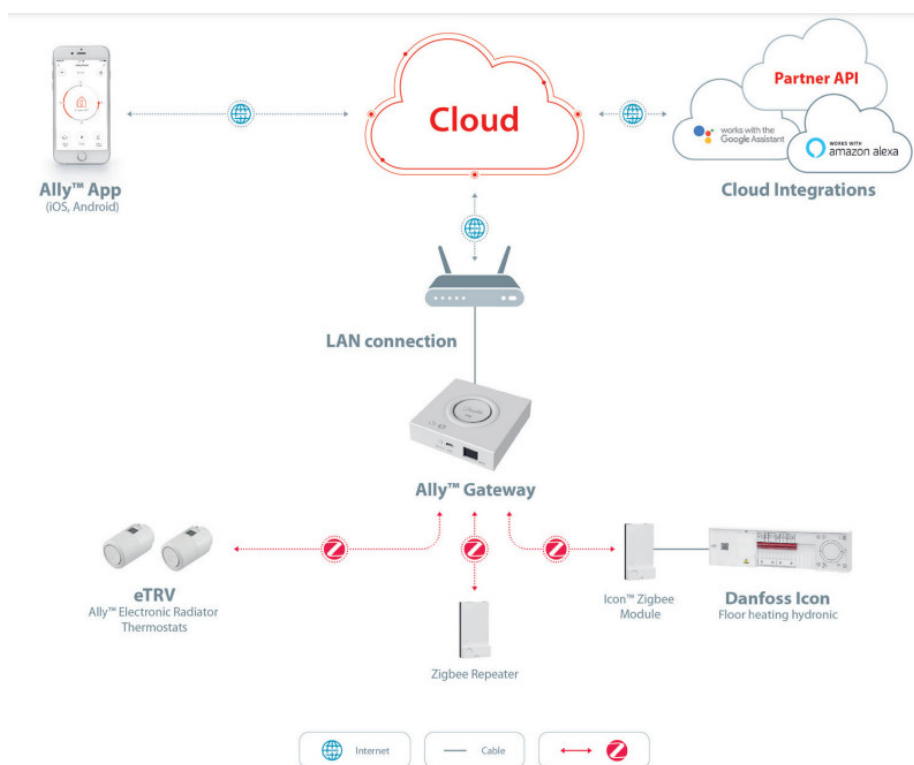
In the package

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

| Danfoss Ally™ Gateway | Quick Guide | LAN cable | Power supply cable |

Technical specifications

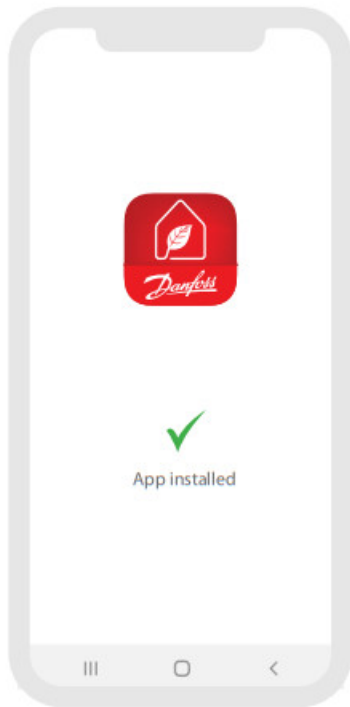| Danfoss Ally™ Gateway	
Device Function	Smart Home Gateway
Recommended Use	Residential indoor (pollution degree 2)
Application	Radiators, water-based floor heating
LED Indicators (green)	Power/Status, Network Connection
Button	Press Reset Button for 5 sec. to perform a factory reset
Power Supply	5 VDC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

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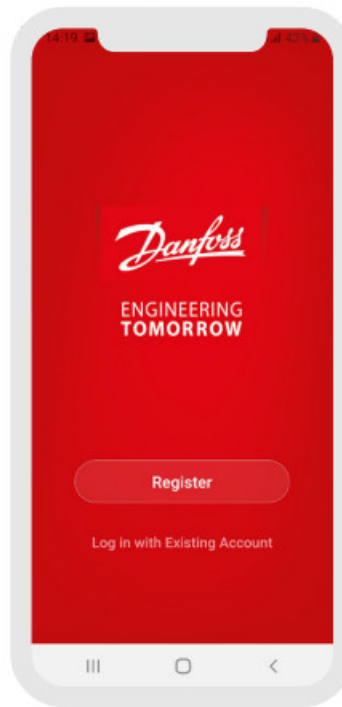
In this way, you're always in control of your home heating. Whether you're at home or on the road. You simply get more flexibility and comfort without the need for complicated hardware.

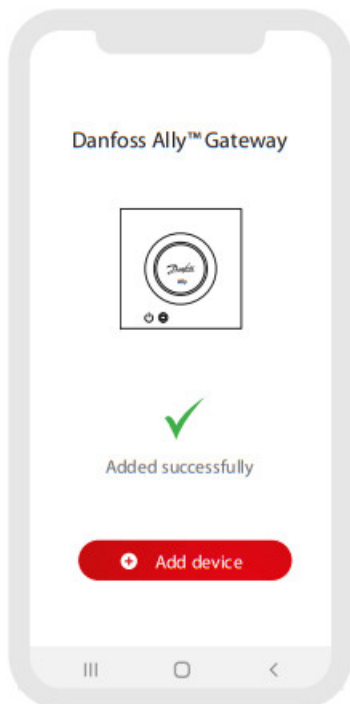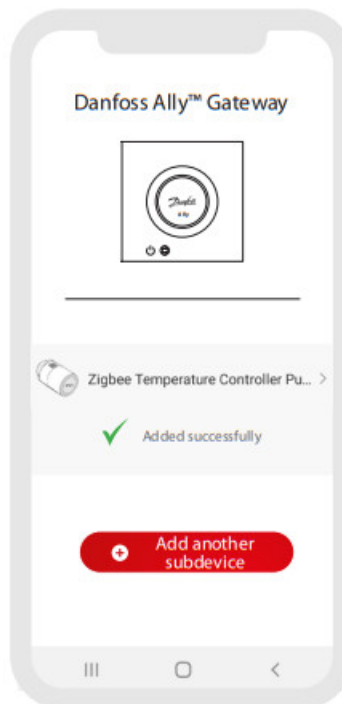|	
Step 1. Download the Danfoss Ally™ App from Google Play or App Store	Download App S GET IT ON Google http://sc smarth
Step 2. To enable smartphone control, your Danfoss Ally™ Gateway needs to be connected to the mains power and Ethernet use the cables provided with Ally™ Gateway.	
Step 3. Connect your Danfoss Ally™ Gateway to the network. Make sure your mobile device is connected to Wi-Fi from the same router as the Gateway is connected to with cable.	
Step 4. Finalize system setup by adding subdevices.	

① Install Danfoss Ally™ App on your smartphone

✓

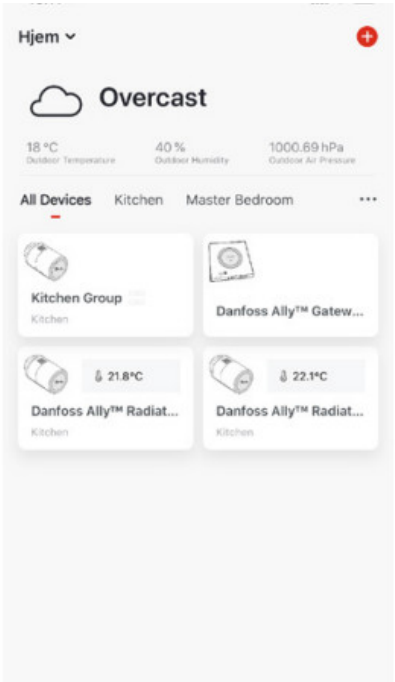App installed

② Open the App and register your account

Danfoss

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Register

Log in with Existing Account

③ Add Your Danfoss Ally™ Gateway

Danfoss Ally™ Gateway

✓

Added successfully
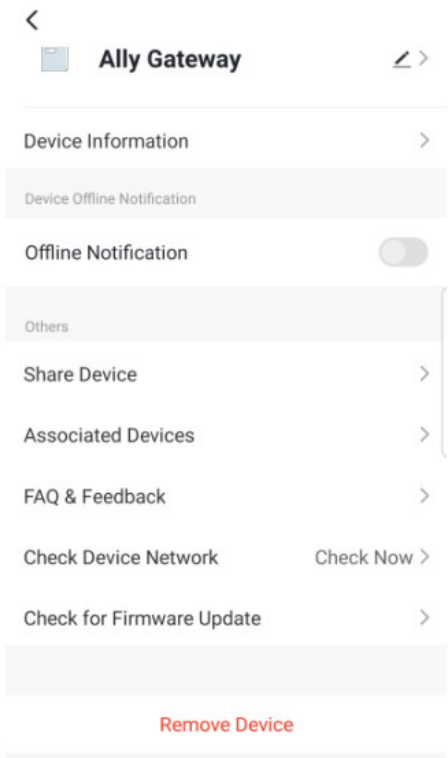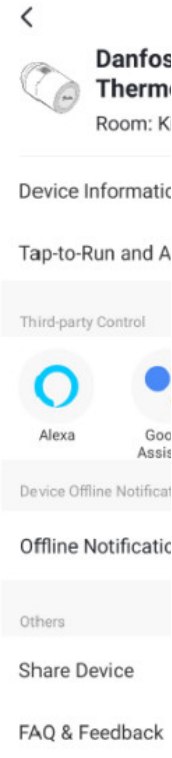
⊕ Add device

④ Add your Danfoss Ally™ battery and mains powered subdevices

Danfoss Ally™ Gateway

Zigbee Temperature Controller Pu... ›

✓ Added successfully

⊕ Add another subdevice

Main screen and menu overview

The At-home screen provides general information about weather and device status in the tiles. Under each room name, all assigned devices to the particular room is shown, as well as heating status and current room temperature. * Weather function displays information in the English language only. Data is provided by **darksky.com**	Press the Smart Gateway tile on the Home screen and tap on the pen upper right corner to get to the 'Smart Gateway' menu. The menu contains: • 'Device information about Virtual ID, IP and MAC address, Time Zone. • 'Share Device' for home members, 'FAQ & Feedback' to find answers or submit requests. • 'Check for Firmware Update' for Main Module and Zigbee Module and 'Remove Device' with all related devices which were connected before.	Press the 'Radi e Home screen r right corner to mostat' menu. • 'Device inform me Zone. • 'Third-party Co em with Amazo stant voice cont • 'Share Device • 'FAQ & Feedb bmit requests. • 'Check for Firr Module and 'F current room.

User Guide
Danfoss Ally™ Gateway

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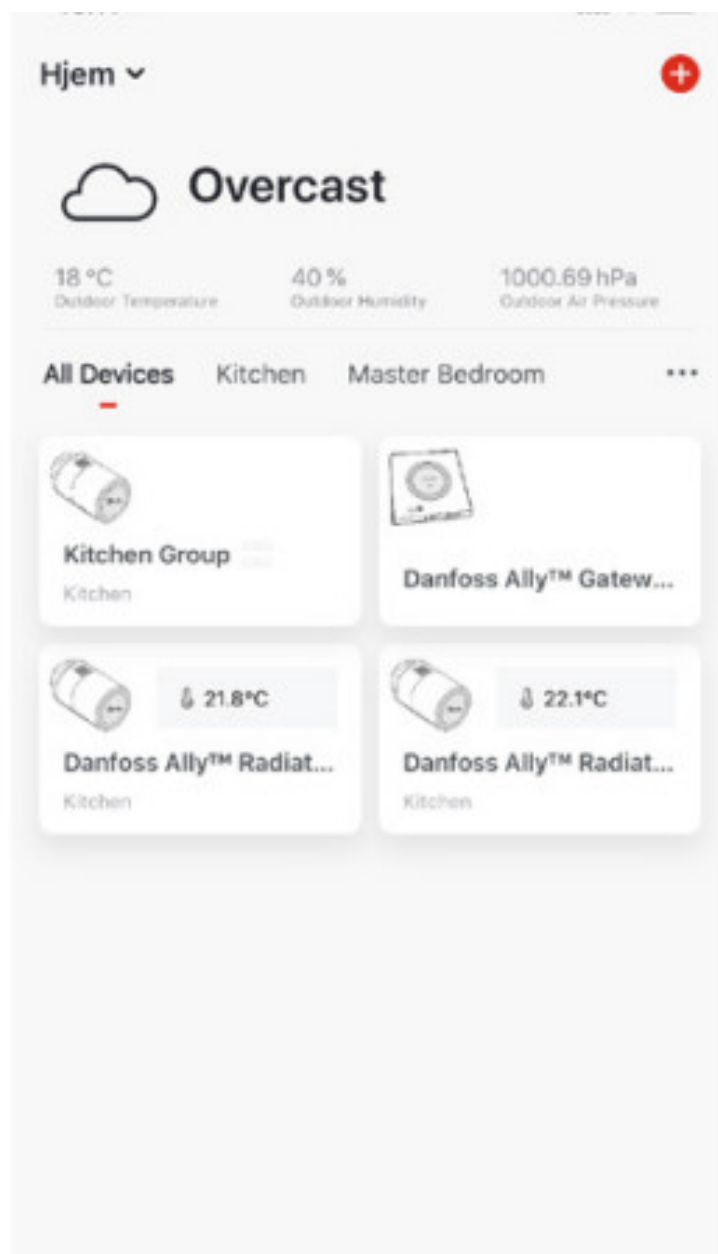
If several Radiator thermostats are assigned to one room the
Danfoss Ally™ App will automatically create a group. This is to ensure settings are synchronized between devices in same room.
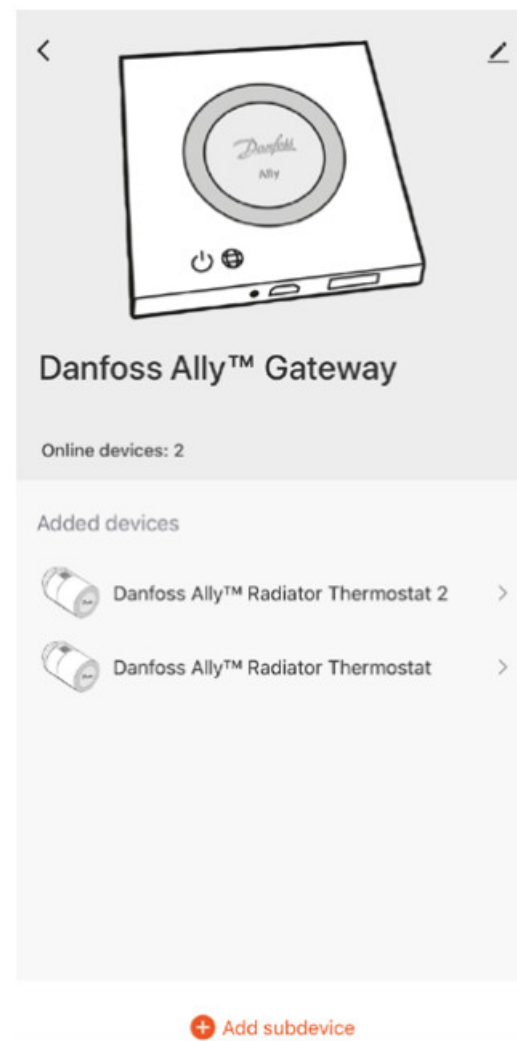It is recommended to always adjust the schedule and preferred temperatures from the group to ensure the most efficient
performance.

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

5.2 Add new devices to the existing system
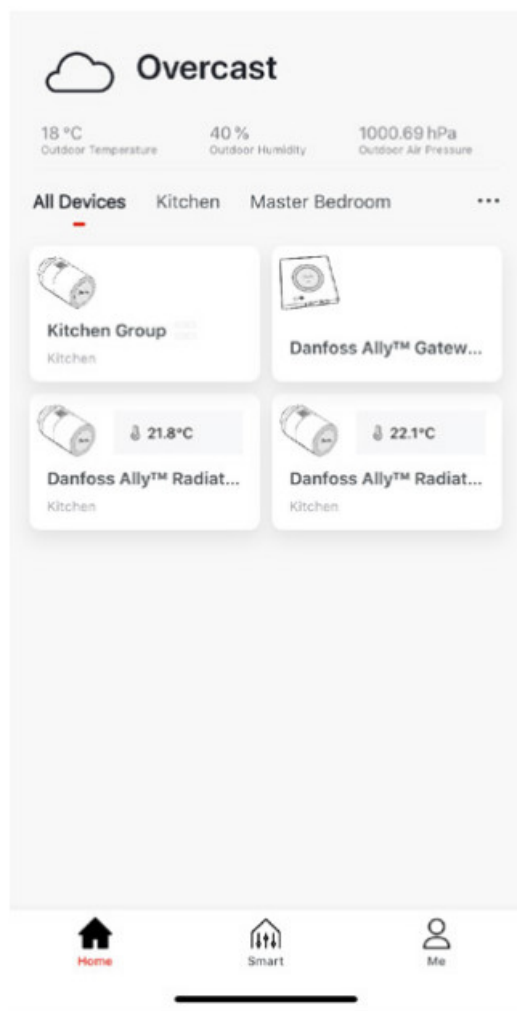
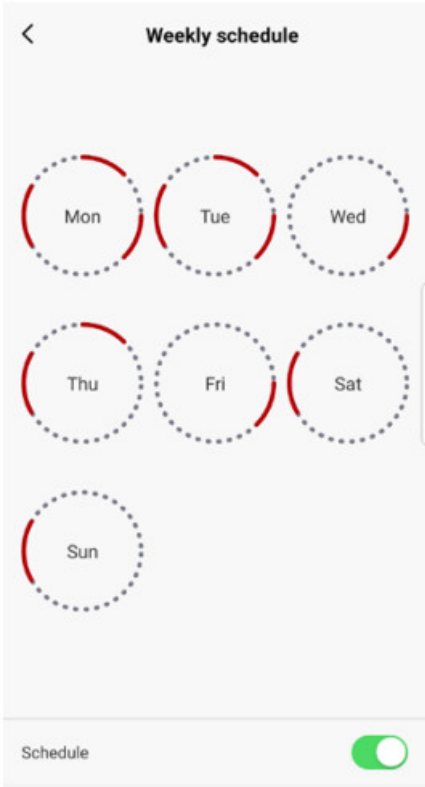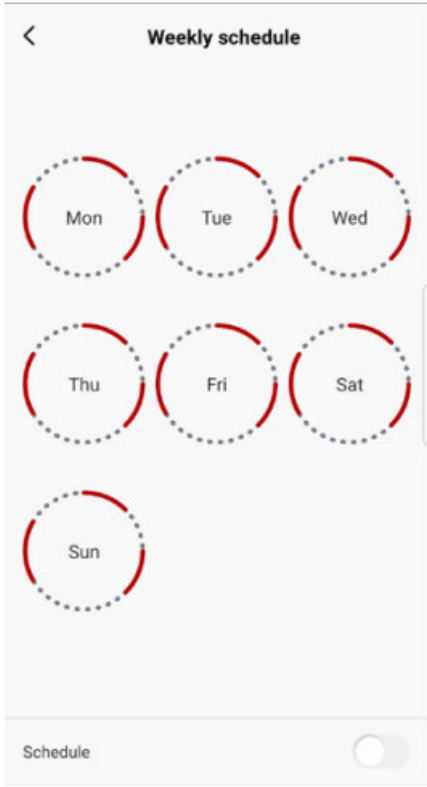|		
Select Danfoss Ally™ Gateway to add additional Danfoss Ally™ Radiator Thermostats or Danfoss ICON devices to the existing system.	Select 'Add subdevice' and choose between Danfoss Ally™ Radiator Thermostat or Danfoss ICON.	

Functions and settings overview

ᵭ 22.8°C

24

18

06

Away 17.0°C

12

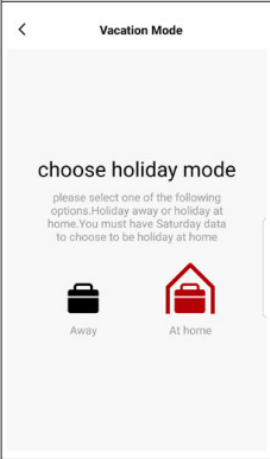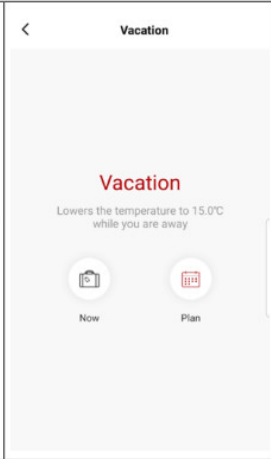|	
☖ 23.0℃	Room temperature
	Manual mode
	Heating schedule
	Away mode
❚❚	Pause
	At home mode
	Pre-Heat is used to ensure you have the right the temperature when you want it. When PreHeat ns that it is ramping up to the next scheduled At Home mode.

6.1 Setting temperatures
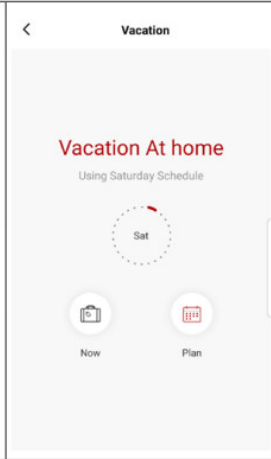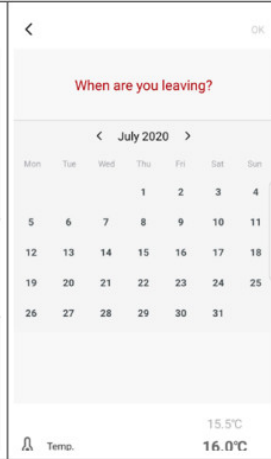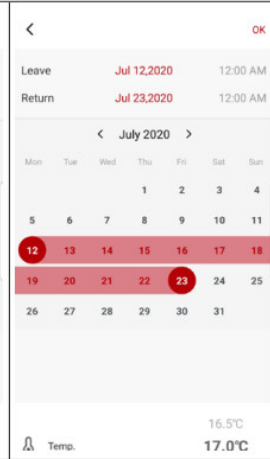
Set your own temperatures for your setback periods in the Danfoss Ally™ App.	
Set temperatures At home 21.5℃ **22.0℃** 22.5℃ Away 16.5℃ **17.0℃** 17.5℃ ❚❚ Pause **6.0℃** 6.5℃	For changing temperature press Menu button on the main screen Settings Set Scroll on temperatures to set your preferred permanent room temperature. In case you need to set temporary temperature, just turn the thermostat wheel Temporary temperature changes are valid until the next scheduled temperature The Danfoss Ally™ can be set from 5 °C to 35 °C. Danfoss recommends a difference between 'At Home' temperature and 'Away/ exceed 4 degrees.

6.2 Create your own schedule

To make temperature adjustments go to the Menu settings Temperatures. Within the Danfoss Ally™ App, you can create your own schedule. You can choose any setback times within 24 hours and set up to 3 At Home periods per day.	The weekly schedule shows the 'At Home' periods in red. The 'copy' functionality allows copying the schedule to other days.

6.3 Vacation

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

A Holiday mode Away or At Home can be planned or set straight away (Now).	The Danfoss Ally™ App displays Vacation temperature where it can be adjusted.	The Danfoss Ally™ App display confirms your At Home vacation with options Now or by Plan.	Planned Vacations uses a calendar and time setting.	Schedule Vacation in the Danfoss Ally™ App.

6.4 Overrule a vacation

If returning earlier than expected you might wish to shift from the Vacation program 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 program

Cancel?

Cancel planned vacation?

Cancel vacation   Edit

If the Vacation is planned for the future you can simply edit the dates or cancel the program.

6.6 Pause

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

When Danfoss Ally™ is turned down to Min level manually, a notification banner is shown, and the center icon switches to 'Pause'.
To exit, Pause click the center icon on the Danfoss Ally™ App and return to the scheduled or manual setpoint.

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 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.

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.

Disposal

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

Danfoss A/S

Heating Segment • danfoss.com • +45 7488 2222 • E-Mail: **heating@danfoss.com**

Documents / Resources

Danfoss 5702424056544 Ally WiFi Gateway [pdf] User Guide
5702424056544, Ally WiFi Gateway

References

- **Smart Heating - Welcome to Danfoss Smartheating**
- **Danfoss - Engineering Tomorrow | Danfoss**

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