

ENGINEERING
TOMORROW



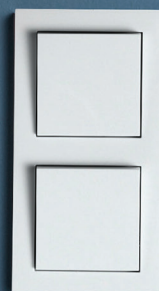
Hydronic floor heating control

Danfoss *Icon*TM Room thermostats made to blend in with any interior

Advanced room controls for hydronic floor heating and other applications with actuators.

Designed

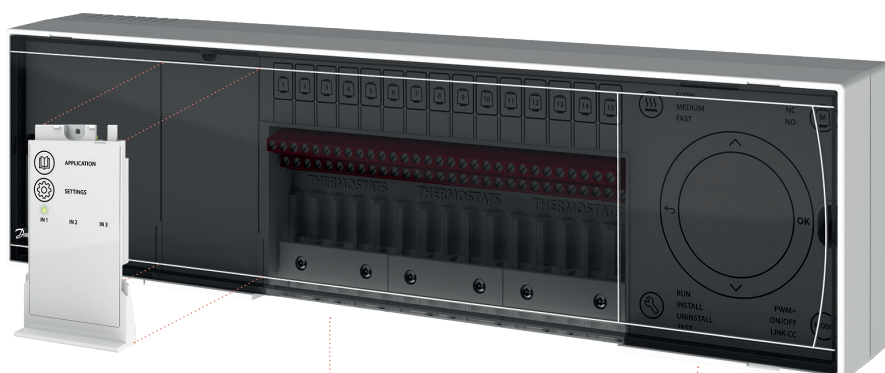
to look like a light
switch with a user
interface that will
fade out when not
in use.



icon.danfoss.com

24V and wireless systems

with advanced features and optional modules



Master Controller

With automatic balancing, active pump relay, boiler relay, commissioning test, PWM for accurate control, adaptive learning, and other advanced heating control options. Works with 24V and/or wireless room thermostats. Available with 10 and 15 outputs and can be extended with up to three masters in a system.

Expansion Module

With ten pre-defined applications that can handle global away input, cooling input, dew point sensor, automatic cooling change-over and supply temperature control.

App Module

To establish Wi-Fi connection to the router which enables remote access via the Danfoss *lcon™* App.

Radio Module

To establish wireless connection to wireless room thermostats.

Wired bus communication either as star configuration or daisy chain. Wired and wireless room thermostats can be mixed in the same system.



24V Room Thermostats (in-wall or on-wall)

- Noiseless switching
- Can be build into compatible switch frames (in-wall only)
- Temperature limitation
- Optional floor sensor (088U1110)



Available with infrared floor sensor

Wireless Room Thermostats (on-wall only)

- Noiseless switching
- Temperature limitation
- Available with infrared floor sensor

6 Good reasons to

- **Automatic balancing** feature eliminates the need to calculate and pre-set the flow on the manifold
- With the **demand based supply** temperature feature it is no longer necessary to install an outdoor sensor for weather compensated supply temperature
- Choose from 8 **pre-defined cooling applications** and corresponding full **system performance tests**

230V room thermostats with optional master controllers



Danfoss Icon™ Dial

- Can be build into many switch frames (in-wall only)
- Up to 5x2W NC or NO actuators
- Thermal feedback for accurate control
- Temperature limitation



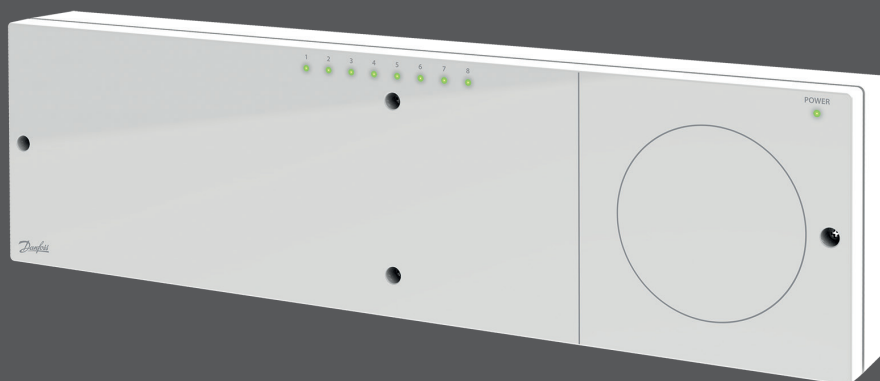
Danfoss Icon™ Display

- Noiseless switching
- Can be build into many switch frames (in-wall only)
- Up to 5x2W NC or NO actuators
- PWM for accurate control
- Temperature limitation
- Choose between radiator, light floor heating and heavy floor heating PWM setting



Danfoss Icon™ Programmable

- Noiseless switching
- Can be build into many switch frames (in-wall only)
- Up to 5x2W NC or NO actuators
- PWM for accurate control
- Temperature limitation
- Choose between radiator, light floor heating and heavy floor heating PWM setting
- Seven pre-defined schedules
- Adaptive learning
- Input for cooling and central 'away'
- Optional floor sensor (088U1110)



Master Controller

Basic version:

- Pump relay (potential free)
- Boiler relay (potential free)
- 8 channels, 8 outputs

Featured version:





- Active 230V pump output
- Boiler relay (potential free)
- Global away input (230V)
- Cooling input (230V)
- 8 channels, 14 outputs


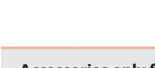
Available spring 2018





use Danfoss Icon™







- For **wired, wireless or combined wired/wireless** room temperature control
- The room thermostats blend in with any interior. Exchange the in-wall model frame with **switch frames from many different top brand manufacturers**
- For basic up to highly **advanced solutions** by adding optional modules; **Expansion Module** for additional technical features, **Radio Module** for wireless communication and **App Module** for remote system access with **Danfoss Icon™ App**



The Danfoss *Icon*[™] family





In-wall Room Thermostats		Type	Code
	Dial	230 V	088U1000
	Display	230 V	088U1010
	Display	24 V	088U1050
	Programmable	230 V	088U1020

24 V Master Controllers		Code
	10 channels Combine with Radio Module for wireless	088U1071
	15 channels Combine with Radio Module for wireless	088U1072

Accessories only for 24 V Master Controllers		Feature	Code
	Expansion Module	Add more features to 24 V Master Controllers	088U1100
	App Module	Control 24 V Master Controllers via Danfoss <i>Icon</i> [™] App	088U1101
	Repeater	Extend the wireless signal	088U1102
	Radio Module	For wireless connection to 24 V Master Controllers	088U1103

On-wall Room Thermostats		Type	Code
	Dial 230 V	230 V	088U1005
	Display	230 V	088U1015
	Display	24 V	088U1055
	Display	Wireless	088U1081
	Display	Wireless Infrared	088U1082
	Programmable	230 V	088U1025

230 V Master Controllers		Code
	Basic	088H0016
	Featured (available spring 2018)	088U1031

Accessories		Feature	Code
	Floor Sensor	For 230 V programmable and 24 V display version	088U1110
	Dew Point Sensor	To prevent condensation in cooling application. Mounted on manifold. Powered by Expansion Module	088U0251
	Surface Temperature Sensor, ESM-11	For automatic change over between cooling and heating and for controlling supply temperature	087B1165
	Actuator	For demand based supply temperature which requires high IP class. Requires adapter 193B2005 for RA connection	193B2148

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