

ENGINEERING
TOMORROW

Danfoss

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.

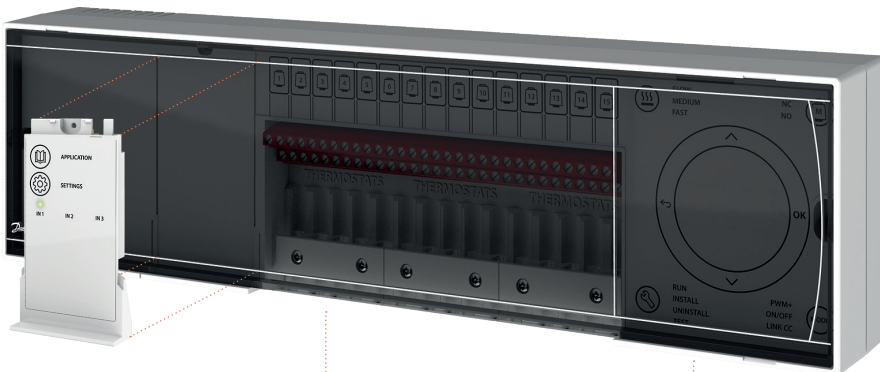


Designed

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

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 *Icon™* 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



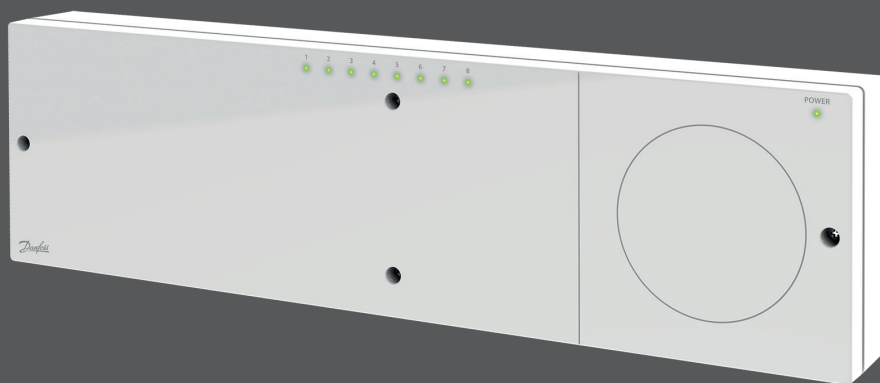
Danfoss Icon™ Display

- 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


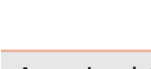
use Danfoss Icon™


- 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

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

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

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

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

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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