



# Room Thermostats

## BasicPlus2

Floor Heating Room Thermostats

## Description

Danfoss BasicPlus2 Room Thermostats are designed for precise room temperature control in water-based floor heating systems. By maintaining the temperature according to the user's preference, they ensure optimal thermal comfort while delivering significant energy savings. Available in dial, display, and programmable display versions, these thermostats combine ease of use with advanced control features to protect floors, prevent frost damage, and enhance heating efficiency.

## Features & benefits

- WT-T (Dial) Room Thermostat
  - Simple dial operation for quick temperature setpoint adjustment
  - Frost protection symbol for minimal energy use while preventing freezing
  - LED indicators: 1. Green light – thermostat ON, no heat demand; 2. Red light – thermostat ON, heat demand active
- WT-D (Display) and WT-P (Display & Programmable) Room Thermostats
  - Modern design with white backlight LCD
  - AWAY function for energy savings during absence
  - Child safety lock
  - Three selectable temperature control modes: 1. Room temperature control (default); 2. Room temperature with floor temperature limit; 3. Floor temperature control
  - Two selectable floor temperature control modes: High / Low
  - Adjustable maximum and minimum limits for room and floor temperature
  - Optional room temperature display when power is OFF
  - Floor sensor terminals for maximum floor temperature control, reducing risk of overheating and floor damage
  - Frost protection mode (~5°C)
  - Temperature calibration to compensate for measurement deviations
  - Programmable only 5-2 weekly scheduling for automatic comfort and setback temperature

## Ordering

### Product code numbers

Product Type	Description	Supply voltage [V]	Output voltage [V] AC	Code number
Basic Plus 2	BasicPlus2 WT-T Toggle	230.0	230	088U0620
Basic Plus 2	BasicPlus2 WT-D Display	230.0	230	088U0622
Basic Plus 2	BasicPlus2 WT-P Programmable	230.0	230	088U0625

### Accessories code numbers



088U0610

**Room Thermostats, Basic Plus, Wired floor sensor, 230 V, Floor**

FH-CWF Floor Sensor 3m for BasicPlus2 WT-D/P, Wired 230V



088H3113

**Thermal actuators, TWA-A, RA, Supply voltage [V] AC: 230, NO, 0.95 m**

TWA-A NO 230V



088H3143

**Thermal actuators, TWA-K, M 30 x 1.5, Supply voltage [V] AC: 230, NO, 0.95 m**

TWA-K NO 230V



088H3142

**Thermal actuators, TWA-K, M 30 x 1.5, Supply voltage [V] AC: 230, NC, 0.95 m**

TWA-K NC 230V



088H3112

**Thermal actuators, TWA-A, RA, Supply voltage [V] AC: 230, NC, 0.95 m**

TWA-A NC 230V



088U1110

**Accessories, Danfoss Icon™ / Icon2™, Wired floor sensor**

Danfoss Icon Floor Sensor for 24 V and 230 V

## Overview

### Application examples

Figure: Individual room temperature control

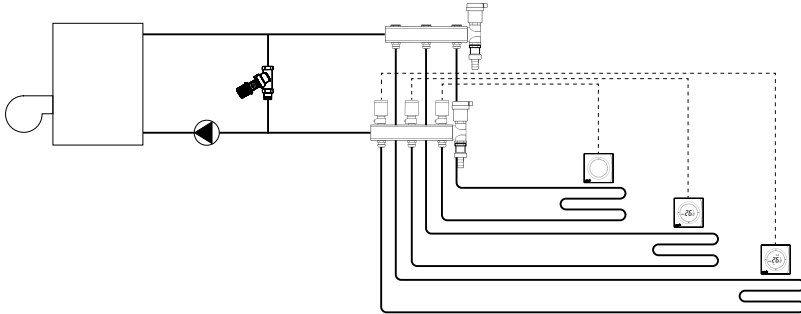


Figure: Reference room temperature control

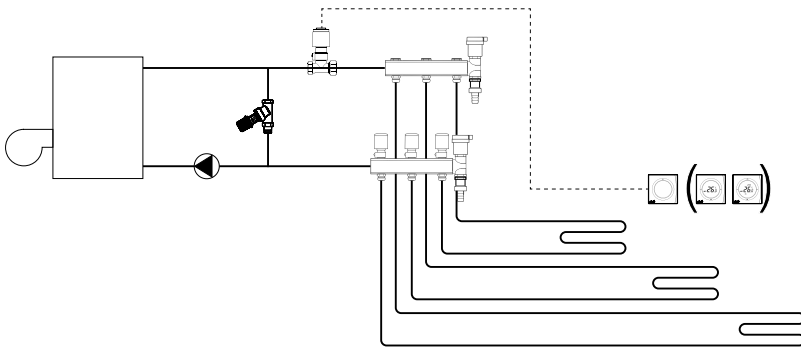


Figure: Individual room temperature control

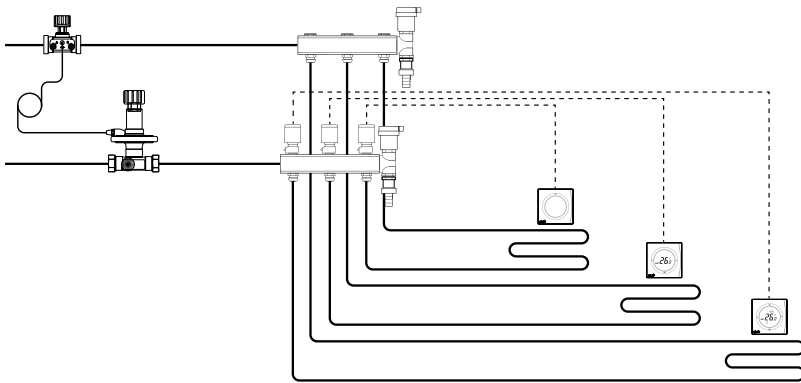
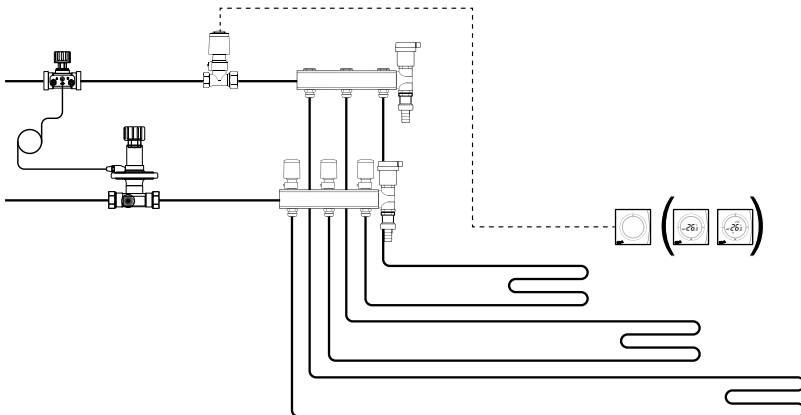



Figure: Reference room temperature control



## Product details

### General data

**Table: Technical specifications**

Feature	WT-T	WT-D/P
Type	Dial with LED indicator	LCD display with push buttons
Operating room temperature	Off, 5 – 30 °C	Off, 5 – 35 °C
Operating floor temperature	-	Off, 20 – 45 °C
Ambient temperature	-10 – 60 °C	
Fault indication	-	Yes
Hysteresis	1 °C	
LCD backlight	-	Yes, white
Max. load, inductive	< 1 A	
Max. load, resistive	< 3 A	
Temperature calibration	No	Yes (+/-10 °C)
Power consumption	7 W	2 W
Power supply	230 V AC ±10 %, 50/60 Hz	85 – 250 V AC, 50/60 Hz
Sensor, room	NTC 10 K, accuracy: ±1%	NTC 100 K, accuracy: ±1%
Sensor, floor	-	Optional Basic Plus, Wired floor sensor (088U0610)
Shell material	ABS, non-inflammable	
ErP class	 (1%)	
Approval	CE marking, EN 60730	
Colour	White RAL9010/Dark Grey RAL7024	
Dimensions	86 × 86 × 30 mm	86 × 86 × 16 mm

## Dimensions

Figure: Room Thermostat, WT-T (Dial)

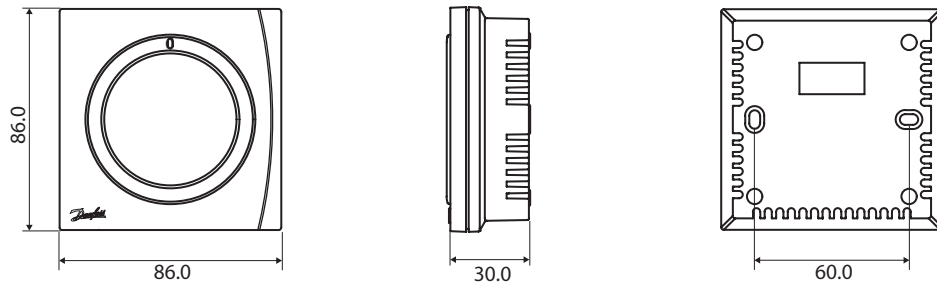
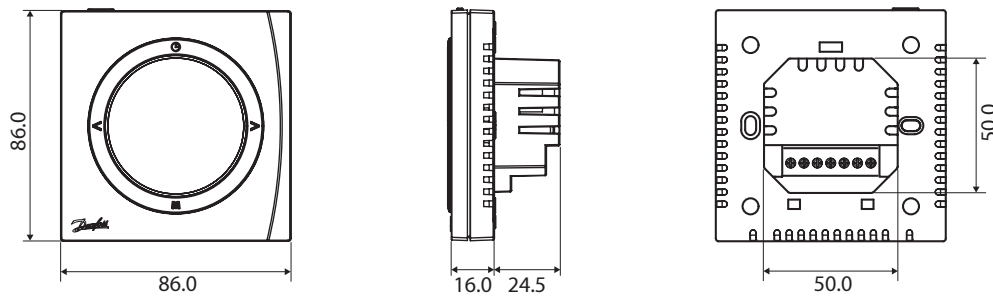


Figure: Room Thermostat, WT-D/WT-P



All dimensions are in mm

## Connections

### Wiring connections

Figure: Room thermostat, WT-T

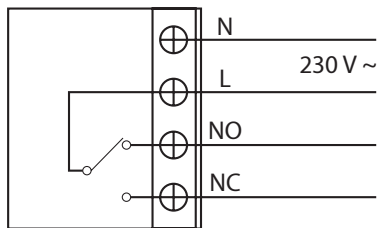
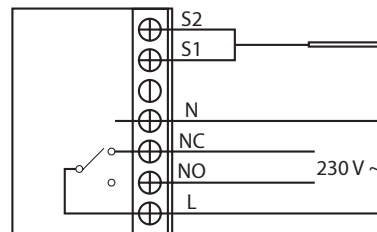


Figure: Room thermostat, WT-D/P



S1, S2: floor sensor

## Certificates, declarations and approvals

The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

When you click on the link you will be directed to the latest version of the 'Declaration of Conformity'. Products developed and sold before this date of issue conform to the directives/standards in force at the time of their sale.

Approval type	Title	Certification body	Approval topic
Export Control Declaration	<a href="#">C4C Room Thermostats</a>	Danfoss	
EU-UK Declaration	<a href="#">Danfoss EU-UK VJCUB102.04</a>	Danfoss	LVD, UK RoHS, EU RoHS
Export Control Declaration	<a href="#">BasicPlus2 thermostat</a>	Danfoss	
Export Control Declaration	<a href="#">BasicPlus Thermostats</a>	Danfoss	
Electrical Safety Certificate	<a href="#">EAC KG417 033.DK.02.00793</a>	EAC - Eurasian Customs Union	LVD, EMC
UA Declaration	<a href="#">UA Thermostats 2024-07-25</a>	Danfoss	LVD, EMC

## Contact details

### Online support

Danfoss offers a wide range of support along with our products, including digital information, software, mobile apps and expert guidance. See the possibilities below.



#### The Danfoss Design center

Discover the Design Center, our advanced digital platform that streamlines product selection. With integrated tools and enhanced type pages, it's simpler than ever to access product information and documentation, and to select the right products. Check the availability of Danfoss products at partner locations and enjoy seamless transitions from selection to purchase with our basket-to-basket functionality. Whether you're buying from our distributors or directly from the Product Store, the Design Center simplifies your experience. Learn more at: [designcenter.danfoss.com](https://designcenter.danfoss.com).



#### The Danfoss product store

The Danfoss Product Store is a one-stop shop available 24/7 for our customers, no matter where you are in the world or what area of industry you work in. Browse our catalog, check product details and documentation, view your prices and product availability, and quickly finalize your purchase. Start browsing at: [store.danfoss.com](https://store.danfoss.com).



#### Danfoss Partner Portal/Product Data tool

Designed to support you with easy access to product data extracts, essential resources, tools, and information. The Partner Portal provides a centralized hub for product documentation, training materials, marketing assets, and technical support, ensuring you have everything you need to succeed and grow your business with Danfoss. The Partner Portal is available 24/7 at: [partner.danfoss.com](https://partner.danfoss.com) and is ready to support your business.



#### Find technical documentation

Find technical documentation you need to get your project up running. Get direct access to our official collection of data sheets, certificates and declarations, manuals and guides, 3D models and drawings, case stories, brochures, and much more. Start searching now at: [documentation.danfoss.com](https://documentation.danfoss.com).



#### Danfoss Learning

Danfoss Learning is a free online learning platform. It features courses and materials specifically designed to help engineers, installers, service technicians, and wholesalers better understand the products, applications industry topics, and trends that will help you do your job better. Find your local Danfoss website here: [learning.danfoss.com](https://learning.danfoss.com).



#### Get local information and support

Local Danfoss websites are the main sources for help and information about our company and products. Find product availability, get the latest regional news, or connect with a nearby expert - all in your own language. Find your local Danfoss website here: [danfoss.com](https://danfoss.com).

#### Danfoss A/S

Climate Solutions . danfoss.com . +45 7488 2222

---

Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity or any other technical data in product manuals, catalogues description, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative, and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogues, brochures, videos and other material. Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to form, fit or function of the products. All trademarks in this material are property of Danfoss A/S or Danfoss group companies. Danfoss and the Danfoss logo are trademarks of Danfoss A/S. All rights reserved.

---