



Room Thermostats

Basic Plus2 Modbus Communication

Description

WT-DM room thermostats are used for room temperature control in water-based floor heating systems.

By controlling room temperature in accordance with the temperature desired by the user, the room thermostats provide optimal energy savings while upholding optimal thermal comfort in the room.

Features & benefits


- Modern design with white backlight
- Child safety lock
- Floor sensor terminals (for thermostats with LCD display) to control maximum floor temperature and prevent overheating/damage
- Compatible with Smart House System or BMS with RS485 interface for remote central control

Ordering

Product code numbers

Type	Description	Code number
Basic Plus 2	Basicplus2 WT-DM Display and RS485	088U0627

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

Related products

088U0627


Functions

- AWAY function
- 3 selectable temperature control modes:
 1. Room temperature control (default)
 2. Room with floor temperature limit control
 3. Floor temperature control
- 2 selectable floor temperature control modes: High / Low
- Max. and min. limit settings for room and floor temperature
- Optional room temperature display when power is OFF (default: no display)
- Frost protection mode (maintains ~5 °C to prevent damage from low temperatures)
- Temperature calibration to adjust setpoint and compensate for measurement deviations

Product details

General data

Table: Technical specifications

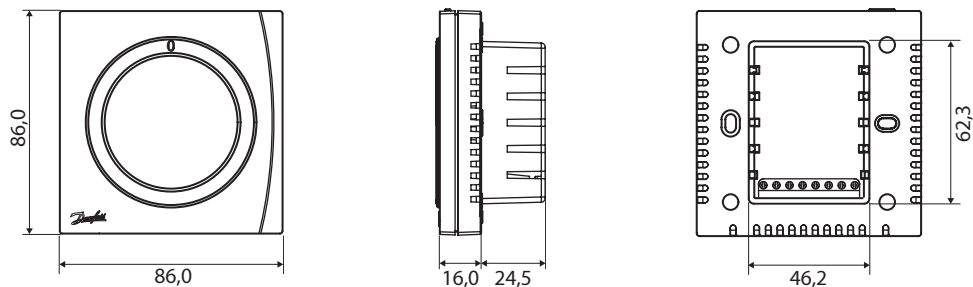
Feature	WT-DM
Type	LCD display with push buttons
Operating room temperature	Off, 5 – 35 °C
Operating floor temperature	Off, 20 – 45 °C
Ambient temperature	-10 – +60 °C
Fault indication	Yes
Hysteresis	1 °C, symmetrical around the setpoint temperature
LCD backlight	Yes, white
Max. load, inductive	< 1 A
Max. load, resistive	< 3 A
Temperature calibration	Yes (+/- 10 °C)
Power consumption	2 W
Power supply	85 - 250 V AC, 50/60 Hz
Sensor, room	NTC 100K, accuracy: ±1 %
Sensor, floor	Optional (FH-CWF)
Communication protocol	Modbus RTU
Communication interface	RS485
Shell material	ABS, non-inflammable
IP class	30
ErP class	
Approval	CE marking, EN 60730
Colour	White RAL9010/Dark Grey RAL7024
Dimensions	86 × 86 × 16 mm

Parameter settings

Parameter number	Function definition	Function selection and setting	Factory default	
			WT-DM	
P13	Communication Address Setting	1 – 64	01	01
P14	Communication Baud Rate Setting	00: 4800, 01: 9600	00	00
P15	Communication Parity Setting	00: None, 01: Odd, 02: Even	01	01

Dimensions

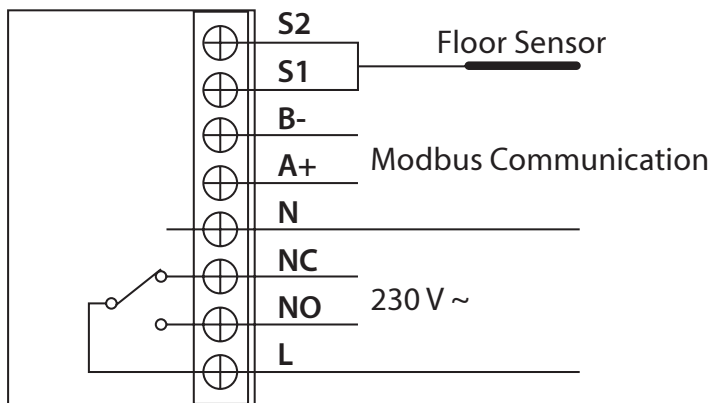
Figure: Basic Plus² WT-DM



All dimensions are in mm

Connections

Wiring connections



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	BasicPlus2 thermostat	Danfoss	
Export Control Declaration	BasicPlus Thermostats	Danfoss	
EU-UK Declaration	Danfoss EU-UK VJCUB102.04	Danfoss	LVD, EU RoHS, UK RoHS

Contact details

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