

Data Sheet

Basic Plus²

Floor Heating Room Thermostats

Application



WT-T



WT-D/WT-DR



WT-P/WT-PR

All 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.

Functions

Room Thermostat, WT-T (Dial)

By turning the dial to the desired setpoint temperature, optimal thermal comfort in the room is achieved. In addition to temperature, the thermostat setting scale includes a frost symbol allowing for minimal energy consumption while avoiding freezing temperatures in the room.

The thermostat is equipped with diodes, which display a green light through the front cover while the thermostat is ON, but without heat demand. A red light is displayed when the thermostat is ON and there is heat demand.

Features of Room Thermostats, WT-D (display) and WT-P (display and programmable):

- Modern design with white backlight.
- **AWAY** function.
- **Child safety lock.**
- **3 selectable temperature control modes:**
 1. Room temp. control (default).
 2. Room with floor temp. limit control.
 3. Floor temp. control.
- **2 selectable floor temperature control modes:**
 1. High
 2. Low
- **Max. and min. limit settings** for room and floor temperature.
- **Optional room temperature display** when power is OFF (default setting: no display).

- **Floor sensor terminals.** For thermostats equipped with LCD display, enabling control of maximum floor temperature and reducing the risk of overheated and damaged floors (for specific maximum floor temperatures, refer to the recommendations from floor suppliers).
- **Frost protection mode.** Use this feature instead of turning the thermostat OFF completely to protect against damages due to low temperatures. The room temperature will be maintained around 5° C.
- **Temperature calibration.** This function allows you to change the temperature setpoint of the room thermostat, to compensate for a possible temperature deviation between the room thermostat and, for example, the centre of the room.
- **Advanced programmable timer.** This function allows you to set a timer-controlled program for automatic comfort temperature and energy-saving lower setback temperature when standard room comfort temperature is not required.

Room Thermostats, WT-DR (display) and WT-PR (display and programmable)

The thermostats have voltage-free auxiliary SPST relay for controlling the external equipment, such as a boiler.

Additional features:

- Programmable 5/2-day feature with 4 time segments (WT-P & -PR).
 - Clock in 12-hour or 24-hour format (WT-P & -PR).
- Other functionalities are identical with those listed for WT-D and WT-P.

Ordering

| Product | Type | Supply voltage | Output voltage | Code no. |
|--|-------|----------------|----------------|-----------------|
| Basic Plus ² WT-T Toggle | WT-T | 230 V AC | 230 V AC | 088U0620 |
| Basic Plus ² WT-D Display | WT-D | 85–250 V AC | 85–250 V AC | 088U0622 |
| Basic Plus ² WT-DR Display and Relay | WT-DR | 85–250 V AC | 85–250 V AC | 088U0624 |
| Basic Plus ² WT-P Programmable | WT-P | 85–250 V AC | 85–250 V AC | 088U0625 |
| Basic Plus ² WT-PR Programmable and Relay | WT-PR | 85–250 V AC | 85–250 V AC | 088U0626 |

Accessories

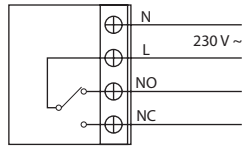
| Product | Type | Code no. |
|------------------------|--------|-----------------|
| BasicPlus floor sensor | FH-CWF | 088U0610 |

Technical specifications

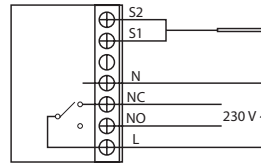
| Feature | WT-T | WT-D/DR | WT-P/PR |
|-----------------------------|--------------------------------------|---|---|
| Type | Dial with LED indicator | LCD display with push buttons | LCD display with push buttons, programmable |
| Operating room temperature | Off, 5 - 30° C | Off, 5 - 35° C | |
| Operating floor temperature | - | Off, 20 - 45° C | |
| Ambient temperature | -10 - 60° C | | |
| Fault indication | - | Yes | |
| Hysteresis | 1° C, below the setpoint temperature | 1° C, symmetrical around the setpoint temperature | |
| LCD backlight | - | Yes, white | |
| Max. load, inductive | < 1 A | | |
| Max. load, resistive | < 3 A | | |
| Auxiliary relay | - | Volt-free relay (WT-DR and WT-PR), e.g. boiler | |
| 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 10K, accuracy: ±1% | NTC 100K, accuracy: ±1% | |
| Sensor, floor | - | Optional (FH-CWF) | |
| Shell material | ABS, non-inflammable | | |
| IP class | 30 | | |
| ErP class | | | |
| Approval | CE marking, EN 60730 | | |
| Colour | White RAL9010/Dark Grey RAL7024 | | |
| Dimensions | 86 × 86 × 30 mm | 86 × 86 × 16.0 mm | |

Wiring connections

Room thermostat, WT-T

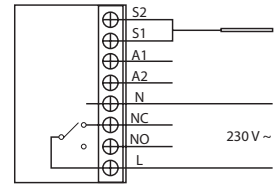


Room thermostat, WT-D/P



S1, S2: floor sensor

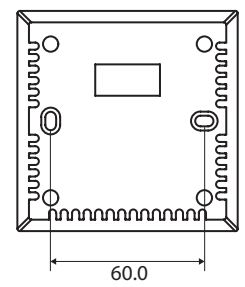
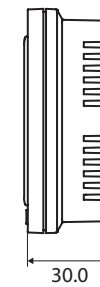
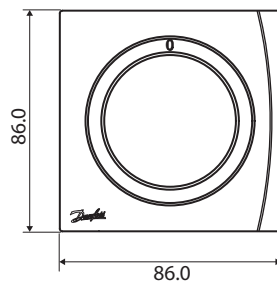
Room thermostat, WT-DR/PR



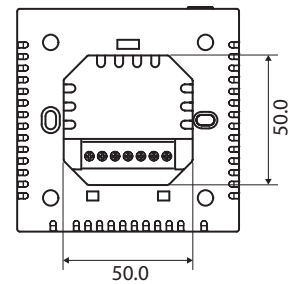
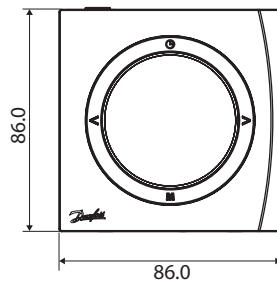
S1, S2: floor sensor
A1, A2: volt-free auxiliary relay, e.g. boiler

Dimensions

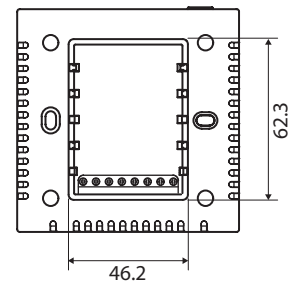
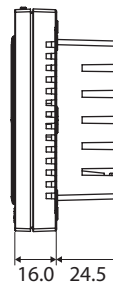
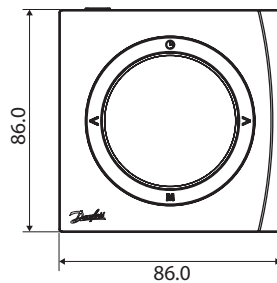
Room Thermostat, WT-T (Dial)



Room Thermostat, WT-D/WT-P

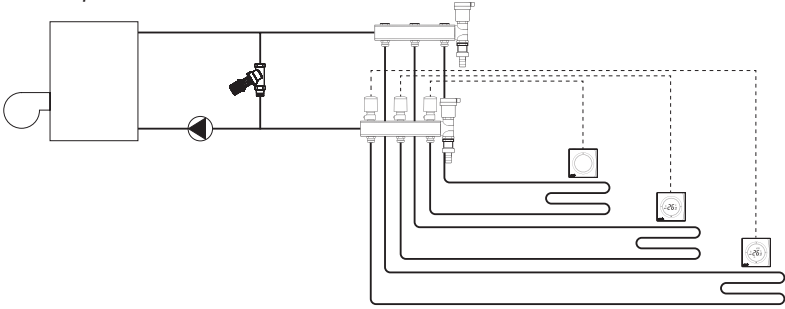


Room Thermostat, WT-DR/WT-PR

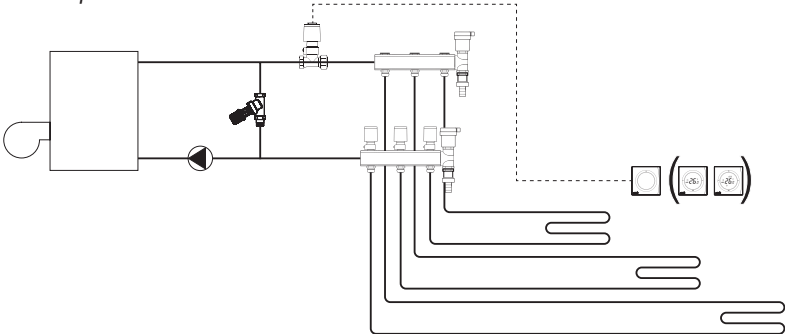


Application examples

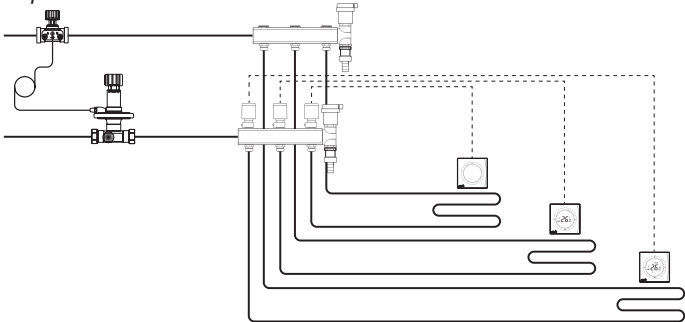
Individual room temperature control



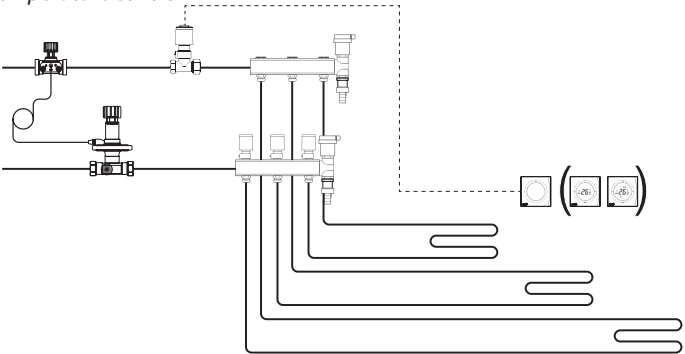
Reference room temperature control



Individual room temperature control



Reference room temperature control



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