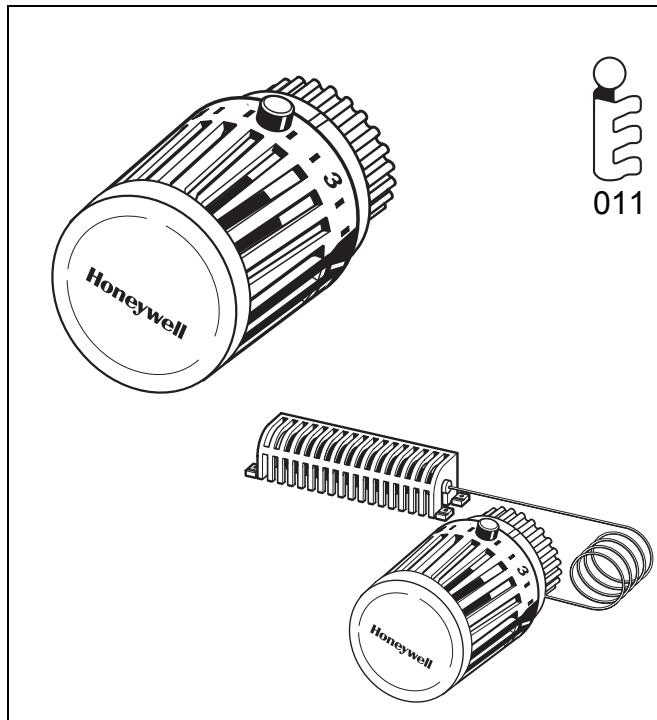


# T1000 Series Thera-100

## RADIATOR THERMOSTATS

### PRODUCT DATA



### Design

The radiator thermostat consists of:

- Handwheel with lid, socket and red or green economy button
- Honeywell HW M30 x 1.5 connection and 11.5 mm closing dimension
- Internal wax sensor
- External liquid sensor with support cage
- Spindle assembly
- Connection nut

### Materials

- Handwheel socket and lid made of plastic, white to RAL9016
- Economy button made of red or green plastic
- Socket, support cage and spindle assembly made of plastic
- Sensor filled with wax or sensor filled with liquid for remote versions
- Connection nut made of nickel-plated brass

### Application

A Radiator Thermostat is installed onto a Thermostatic Radiator Valve Body (TRV body). The combination of both, the Thermostatic Radiator Valve (TRV), controls the room temperature by adjusting the flow of hot water through a radiator.

TRVs are installed in water-based heating systems on the supply or, less commonly on the return connection of radiators. Radiator thermostats of this type with wax sensor fulfill the European Standard EN 215 when used with certified Honeywell TRV bodies.

Honeywell radiator thermostats with Honeywell (HW) M30 x 1.5 connection are suitable for all TRV body and radiator inserts with M30 x 1.5 connection and 11.5 mm closing dimension.

### Features

- **Conforms with M30 x 1.5 connection to European standard EN 215**
- **Equipped with internal wax sensor or external liquid sensor**
- **Over-temperature protection**
- **Modern, ergonomical design with red economy button (EU-version) or green economy button (GB-version) for optimal setting**
- **Compact size**

### Specifications

<b>Thermostat connection</b>	M30 x 1.5
<b>Setpoint range</b>	0 - * - 1..6 * - 1..6 (T1000W0NA)
<b>Temperature range</b>	1...26°C (34...79°F) 6...26°C (43...79°F) (T1000W0NA)
<b>Closing dimension</b>	11.5 mm

## Dimensions and Ordering Information

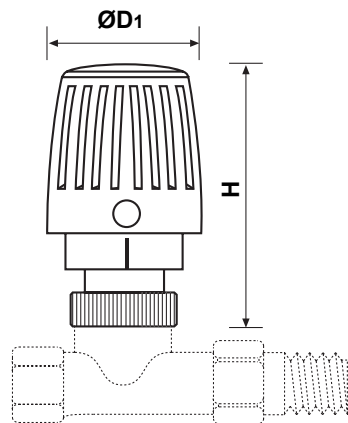


Fig. 1. T1000 with internal sensor

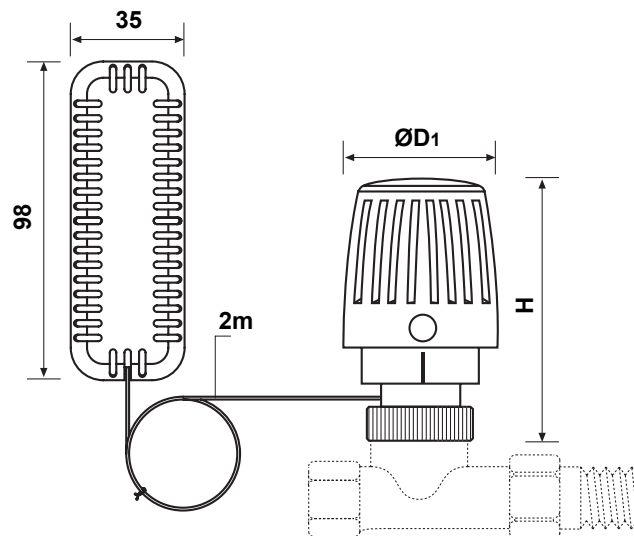


Fig. 2. T1000 with remote sensor

Table 1. Dimensions

Type	H closed	H open	ØD <sub>1</sub>
Thera-100	76.8	82.5	50

NOTE: All dimensions in mm unless stated otherwise.

Table 2. Available versions and OS-Nos (OS=Ordering Specification)

Type	EN215 certification	Connection
Thera-100 with internal sensor	•	M30 x 1.5
	•	M30 x 1.5
	•	M30 x 1.5
		M30 x 1.5
		M40 x 1.5
Thera-100 with remote sensor	•	M30 x 1.5
		M30 x 1.5

Table 3. Available versions and suitable TRV-bodies

OS-No.	Connection	V2000	V117	V100 (M30x1,5)	V100 (M40x1,5)
<b>Standard variants</b>					
T1002W0	M30 x 1.5	Yes	Yes	No	No
T1002W0NA	M30 x 1.5	Yes	Yes	No	No
T1002W0GB	M30 x 1.5	Yes	Yes	No	No
T100120W0	M30 x 1.5	Yes	Yes	No	No
<b>BRAUKMANN valve variants</b>					
T1002B3W0	M30 x 1.5	No	Yes	Yes	No
T1002B4W0	M40 x 1.5	No	No	No	Yes
T100120B3W0	M30 x 1.5	No	Yes	Yes	No

## Function

Radiator thermostats of this type control the TRV body. The air passing around the sensor of the radiator thermostat causes the sensor to expand when the temperature rises. The expanding sensor closes the TRV accordingly. When the room temperature changes the TRV opens or closes proportionally. Only the amount of water required to maintain the room temperature set on the radiator thermostat is allowed to flow through the valve.

### Please Note:

- To avoid stone deposit and corrosion the composition of the medium should conform with VDI-Guideline 2035
- Additives have to be suitable for EPDM sealings
- System has to be flushed thoroughly before initial operation with all valves fully open
- Any complaints or costs resulting from non-compliance with above rules will not be accepted by Honeywell
- Please contact us if you should have any special requirements or needs

## EN215 Information

The radiator thermostats listed in table 2 with M30x1.5 connection and wax sensor or remote version with external liquid sensor in connection with certified Honeywell TRV bodies conform to the European Standard EN215.

**Table 4. Comparison of radiator thermostats of this type specs and EN 215 requirements**

	<b>Thera-100 remote</b>	<b>Thera-100 with wax sensor</b>	<b>EN215 requirements</b>
Min. setpoint temperature	6°C (43°F)	6°C (43°F)	5...12°C (41...54°F)
Max. setpoint temperature	26°C (79°F)	26°C (79°F)	≤ 32°C (90°F)
Hysteresis	0.3K	0.8K	≤ 1.0K
Influence of differential pressure	0.5 K	0.7K	≤ 1.0K
Influence of heating medium	0.4K	0.8K	≤ 1.5K
Response time	8 min.	20 min.	≤ 40 min.

NOTE: All °C- and °F-values specified at ideal incident flow. This can differ from stated values depending on installation position and air flow.

NOTE: Influence of differential pressure depends on TRV body used.

## Setpoint

**Table 5. Setpoint temperature**

Setpoint	0	*	1	2	3	4	5	6
°C	1	6	11	14	17	20	23	26
°F	34	43	52	57	63	68	73	79

NOTE: All °C and °F-values approximate. Heating can freeze when radiator thermostats with zero-position are set at position '0'. Zero-position is also thermostatically controlled - when temperature falls the TRV may open.

## Installation Examples

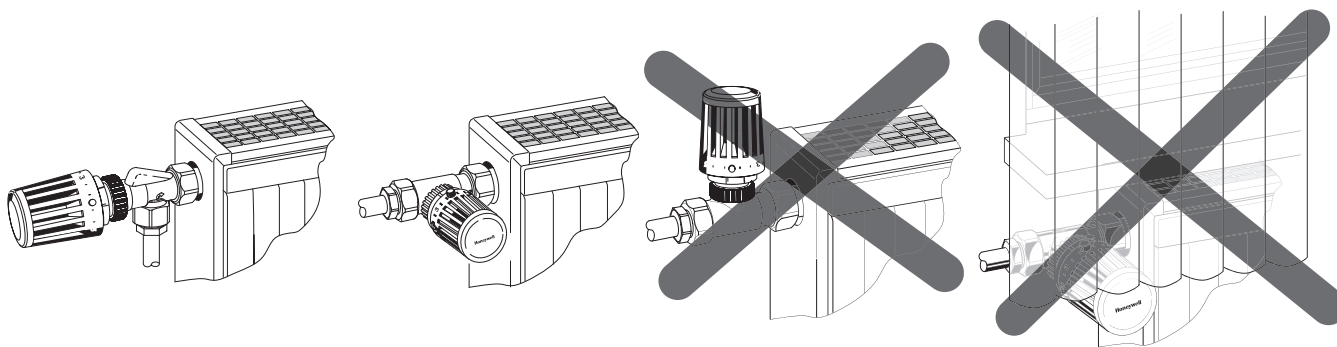


Fig. 3. Correct and false installation positions for Non-UK-version

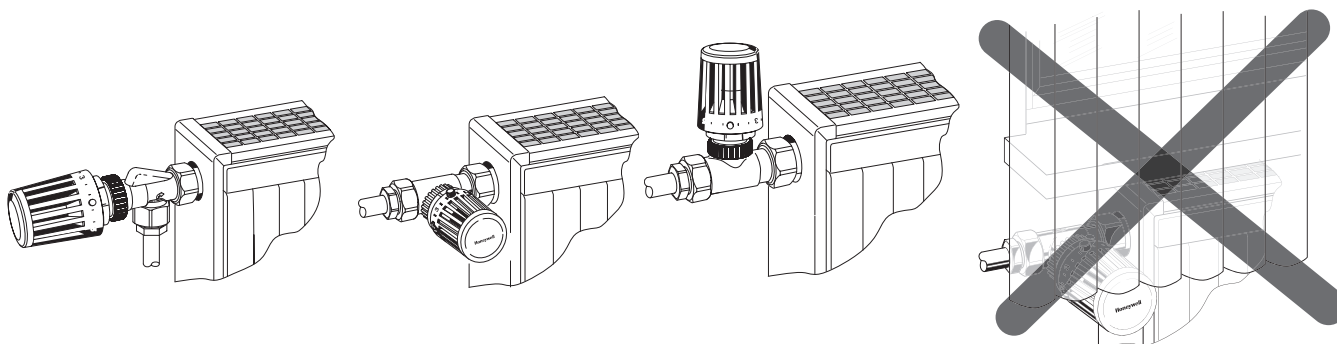


Fig. 4. Correct and false installation positions for UK-version

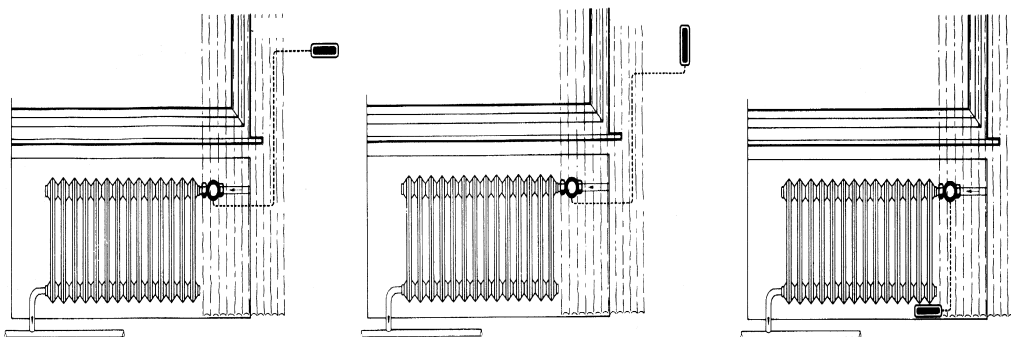


Fig. 5. Correct installation positions for radiator thermostats with remote sensor

## Accessories

### Special tool for assembly of radiator thermostats



### Accessories for Thermostats with M30 x 1.5

#### Adapter



DA-Adapter from Danfoss  
snap connection RA to  
M30 x 1.5

#### Adapter



HZ-Adapter from M28 x 1.5  
with 9.5 mm closing dimen-  
sion to M30 x 1.5 with  
11.5 mm closing dimension

### Decoring for connection nut



white (RAL9016)

10 pair, 20 pieces

chrome

10 pair, 20 pieces

### Theft-protection ring, white (RAL9016)



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