T1000 Series

Thera-100

Radiator Thermostat

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

Thermostat connection:	M30 x 1.5
Setpoint range:	0 - ❄ - 1..6 ❄ - 1 - 6 (T1000W0NA)
Temperature range:	1- 26 °C (34..79 °F) 6 - 26 °C (43...79 °F) (T1000W0NA)
Closing dimension:	11.5 mm

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 liquid or sensor filled with liquid for remote versions
- Connection nut made of nickel-plated brass

DIMENSIONS AND ORDERING INFORMATION

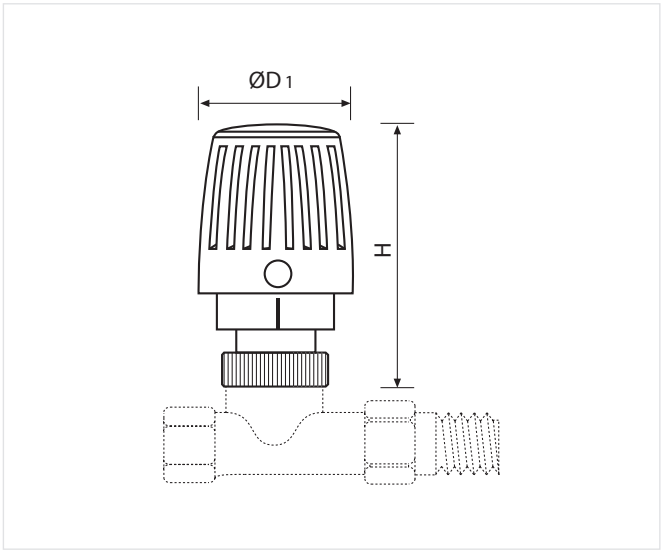


Fig. 1 T1000 with internal sensor

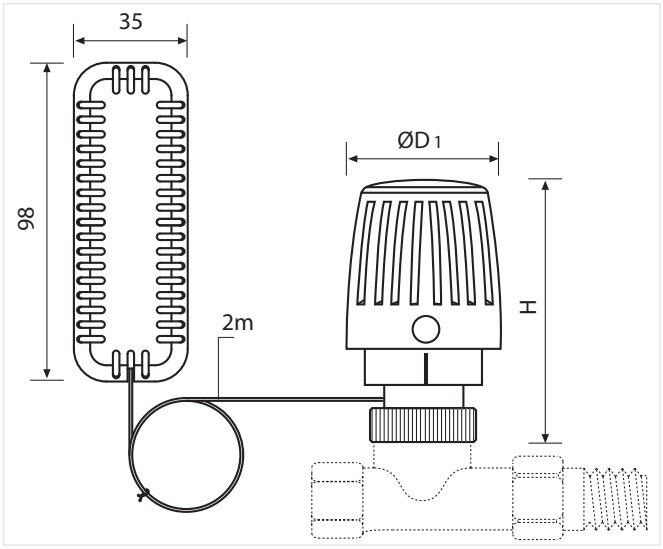


Fig. 2 T1000 with remote sensor

Tab. 1 Dimensions

Type	H closed	H open	ØD1
Thera-100	76.8	82.5	50

Note: All dimensions in mm unless stated otherwise.

Tab. 2 Available versions and OS-No (OS = Ordering Specification)

Type	EN 215 certification	Connection	OS-No.
Thera-100 with internal sensor	•	M30 x1.5	T1002WO
	•	M30 x1.5	T1002WONA
	•	M30 x1.5	T1002WOGB
		M30 x1.5	T1002B3WO
		40 x1.5	T1002B4WO
Thera-100 with remote sensor	•	M30 x1.5	T100120WO
		M30 x1.5	T100120B3WO

Tab. 3 Available versions and suitable TRV-bodies

OS-No.	Connection	V2000	V117	V100 (M30x1.5)	V100 (M40x1.5)
Standard variants					
T1002WO	M30 x 1.5	Yes	Yes	No	No
T1002WONA	M30 x 1.5	Yes	Yes	No	No
T1002WOGB	M30 x 1.5	Yes	Yes	No	No
T100120WO	M30 x 1.5	Yes	Yes	No	No
BRAUKMANN valve variants					
T1002B3WO	M30 x 1.5	No	Yes	Yes	No
T1002B4WO	M40 x 1.5	No	No	No	Yes
T100120B3WO	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

EN 215 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.

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

	Thera-2080 without zero-position	Thera-2080 with remote sensor, without zero-position	EN 215 requirements
Min. set point temperature	6 °C (43 °F)	6 °C (43 °F)	5 - 12 °C (41 - 54 °F)
Max. set point temperature	26 °C (79 °F)	26 °C (79 °F)	≤ 32 °C (90 °F)
Hysteresis	0.3 K	0.8 K	≤ 1.0 K
Influence of differential pressure	0.5 K	0.7	≤ 1.0 K
Influence of heating medium	0.4 K	0.8 K	≤ 1.5 K
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.

SET POINT

Tab. 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 EXAMPLE

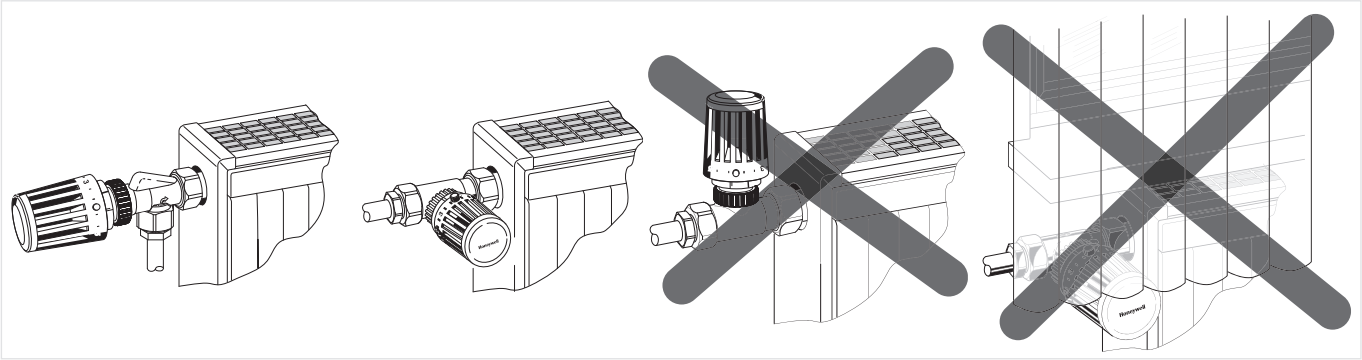


Fig. 3 Correct and false installation positions for Non-UK-version

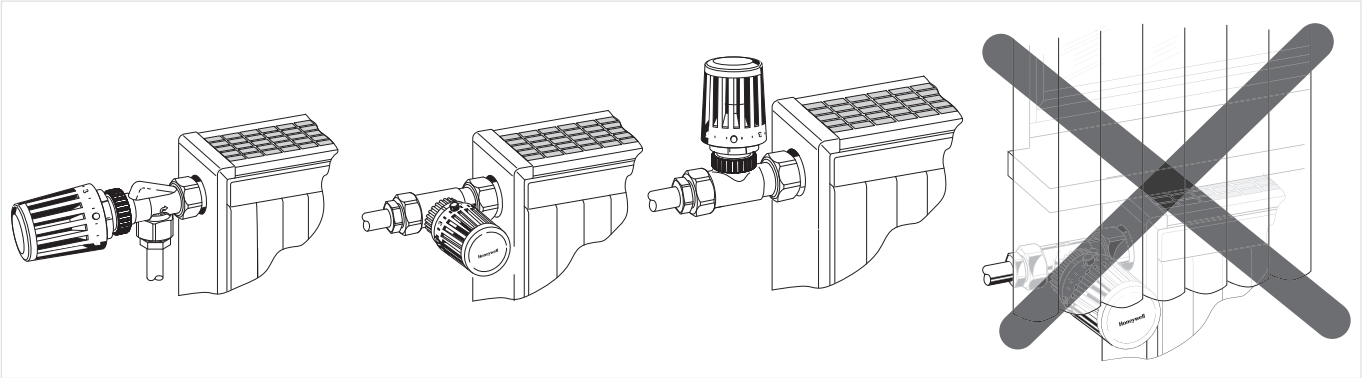


Fig. 4 Thera-2080 Correct and false installation positions for UK-version remote sensor

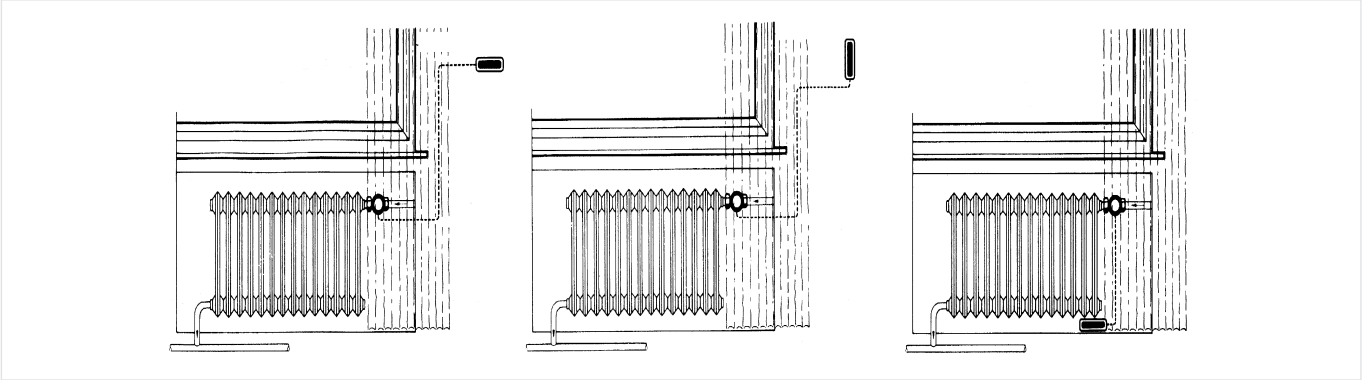
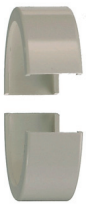
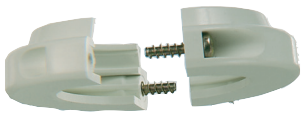


Fig. 5 Correct installation positions for radiator thermostats with remote sensor

ACCESSORIES

	Description		Dimension	Part No.
	**VA8210A**	**Special tool for assembly of radiator thermostats**		
				VA8210A001
	**TA1010DA**	**DA - Adapter from Danfoss**		
		Snap connection RA to M30 x 1.5		TA1010DA01
	**TA1010HZ**	**HZ - Adapter**		
		HZ-Adapter from M28 x 1.5 with 9.5 mm closing dimension to M30 x 1.5 with 11.5 mm closing dimension		TA1010HZ01
	**TA1000A**	**Decoring for connection nut**		
		white (RAL9016) 10 pair, 20 pieces		TA1000A001
		chrome 10 pair, 20 pieces		TA1000A002
	**TA6900A**	**Theft - protection ring**		
		white (RAL9016)		TA6900A001

For more information

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