



## T9000 Series

### Thera-2

#### 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 liquid sensor fulfill the European Standard EN 215 when used with certified Honeywell Home TRV bodies.

Honeywell Home radiator thermostats with Honeywell Home (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.

Radiator Thermostats of this type with snapping (DA) type connection are suitable for TRV bodies and valve inserts with Danfoss (RA) type compatible snap connection.



#### FEATURES

- Conforms with M30 x 1.5 connection to European standard EN 215
- Available with liquid- or wax sensor
- Equipped with easy to use range stoppers
- Modern ergonomical design

#### SPECIFICATIONS

Thermostat connection:	
HW type:	M30 x 1.5
DA type:	Snap connection
Setpoint range with zero position:	0 - ❄ - 1 - 5
Setpoint range without zero position:	❄ - 1 - 5
Temperature range without zero position:	1...26 °C (34...79 °F) 6...28 °C (43...82 °F)
Closing dimension:	
HW type:	11.5 mm

Note: Zero-position is also thermostatically controlled when temperature falls the TRV may open.

#### DESIGN

The radiator thermostat consists of:

- Handwheel with socket
- Honeywell HW M30 x 1.5 connection and 11.5 mm closing dimension or Danfoss snapping RA type connection
- Sensor with support cage
- Spindle assembly
- Connection nut

#### MATERIALS

- Handwheel, lid and socket made of plastic, white to RAL9016
- Socket, support cage and spindle assembly made of plastic
- Sensor filled with liquid or wax
- Connection nut made of nickel-plated brass

#### 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.

## DIMENSIONS AND ORDERING INFORMATION

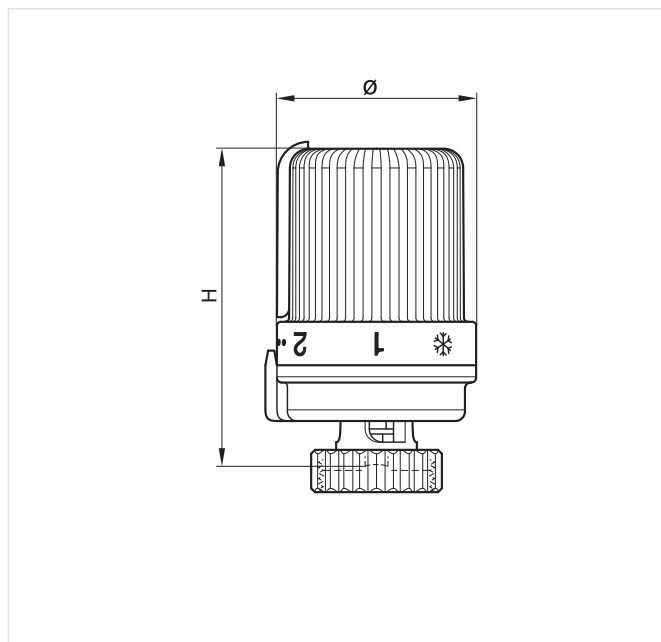


Fig. 1 Thera-2 with internal sensor

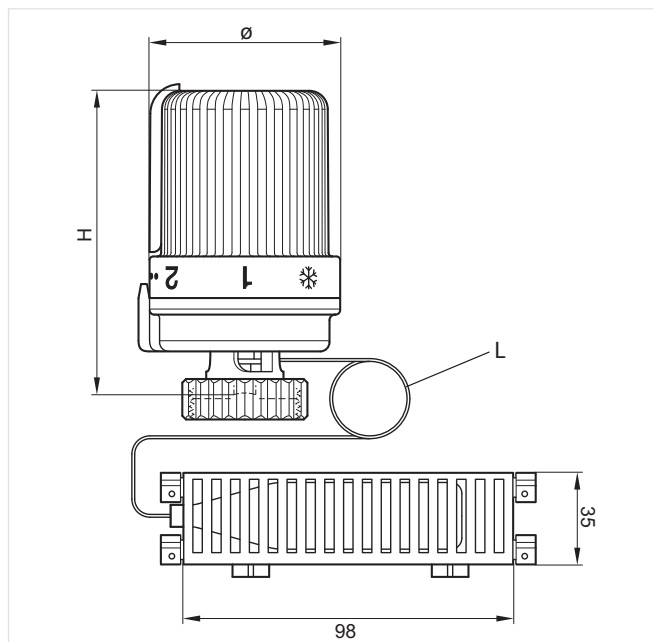


Fig. 2 Thera-2 with remote sensor

**Tab. 1 Dimensions**

Type	H closed	H open	Ø	L
Thera-2 (Fig. 1.)	82.5	88.5	52	-
Thera 2 DA (Fig. 1.)	90.0	96.0	52	-

Note: All dimensions in mm unless stated otherwise.

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

Type	EN 215 certification	Zero-position ('0')	Connection	Capillary tube length	Colour	OS.-No.
Thera-2 and Thera-2-DA with internal sensor						
Liquid sensor	•		M30 x 1.5	-	white	T9001
	•	•	M30 x 1.5	-	white	T9001WO
			DA type	-	white	T9001DA
		•	DA type	-	white	T9001DAWO

## EN 215 INFORMATION

All radiator thermostats of this type with M30x1.5 connection in connection with certified Honeywell Home TRV bodies conform to the European Standard EN 215.

**Tab. 3 Comparison of radiator thermostats of this type specs and EN 215 requirements**

	Thera-2	Thera-2 with remote sensing element	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	28 °C (82 °F)	28 °C (82 °F)	≤ 32 °C (90 °F)
Hysteresis	0.4 K	0.6 K	≤ 1.0 K
Influence of differential pressure	0.22 K	0.24 K	≤ 1.0 K
Influence of heating medium	0.35 K	0.2 K	≤ 1.5 K
Response time	21 min.	8 min.	≤ 40 min.
Control accuracy	0.2 K	0.2 K	≤ 1.2 K

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

## SET POINT

**Tab. 4 Radiator thermostats of this type with zero-position ('0')**

Setpoint	0	❄	1	2	3	4	5
°C	1	6	10	15	20	23	26

**Tab. 5 Radiator thermostats of this type without zero position ('0')**

Setpoint		❄	1	2	3	4	5
°C		6	12	16	20	24	28

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.

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

## 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 Home
- Please contact us if you should have any special requirements or needs

## INSTALLATION EXAMPLE

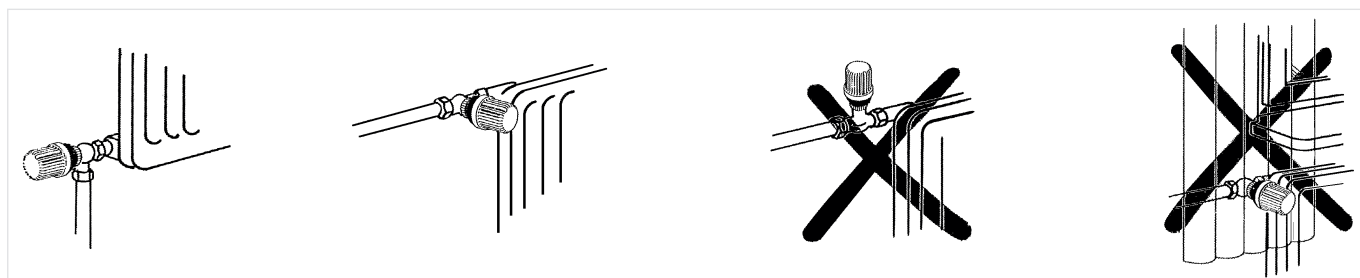


Fig. 3 Correct and false installation positions for radiator thermostats with internal sensor

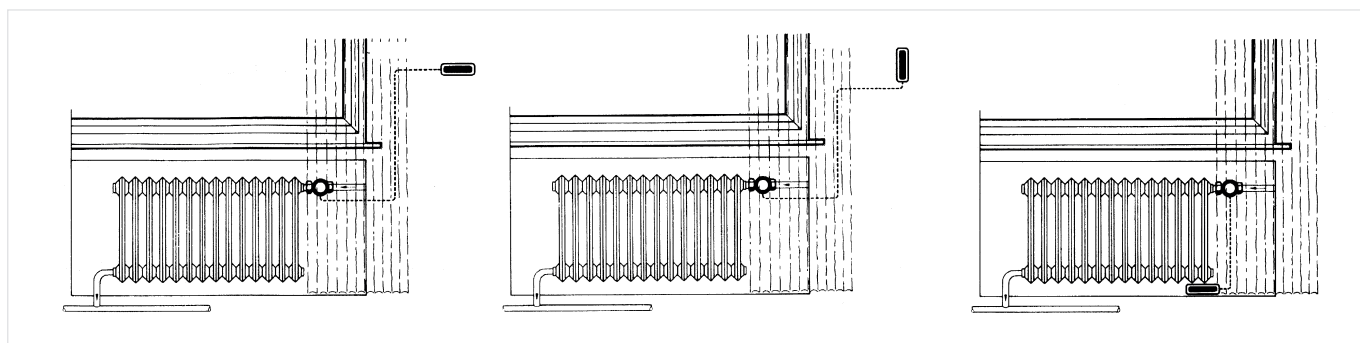
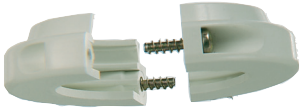





Fig. 4 Thera-2 with remote sensor

## ACCESSORIES

	Description	Dimension	Part No.
	<b>TA6900A Theft - protection ring</b>		
	white (RAL9016)		TA6900A001
	<b>VA8210A Special tool for assembly of radiator thermostats</b>		
			VA8210A001
	<b>TA1010DA DA - Adapter from Danfoss</b>		
	Snap connection RA to M30 x 1.5		TA1010DA01
	<b>TA1010HZ HZ - Adapter</b>		
	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

### For more information

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