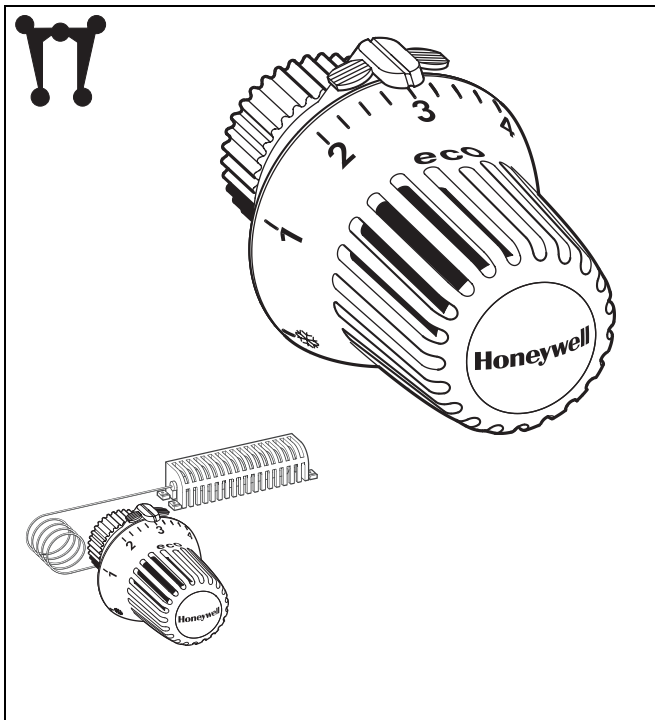


## T6000 Series Thera-3

### RADIATOR THERMOSTATS WITH ERGONOMICAL DESIGN



### Design

The radiator thermostat consists of:

- Handwheel with lid and socket
- Honeywell HW M30 x 1.5 connection and 11.5 mm closing dimension or Danfoss snapping RA type connection or Herz HZ M28 x 1.5 connection and 9.5 mm closing dimension
- Internal or remote sensor
- Sensor with support cage
- Liquid- or wax sensor
- 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

### 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 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.

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.

Radiator Thermostats of this type with Herz (HZ) type connection are suitable for TRV bodies and valve inserts with Herz M28 x 1.5 connection and 9.5 mm closing dimension.

### 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**

### Specifications

Thermostat connection	M30 x 1.5	HW type or
	Snap connection	DA type or
Setpoint range	M28 x 1.5	HZ-type
	0 - * - 1..5	(with zero-position)
Temperature range	* - 1..5	(without zero-position)
	1...28°C (34...82°F)	(with zero-position)
Closing dimension	6...28°C (43...82°F)	(without zero-position)
	11.5 mm	HW type or
	9.5 mm	HZ-type

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

## Dimensions and Ordering Information

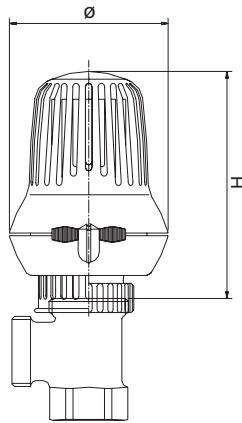


Fig. 1. Thera-3 with internal sensor

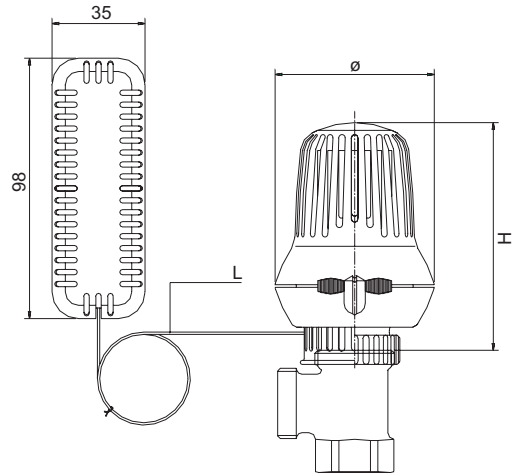


Fig. 2. Thera-3 with remote sensor

Table 1. Dimensions

Type	H closed	H open	Ø	L
Thera-3	87	93	60	0.8 - 2.0 - 5.0 m

NOTE: All dimensions in mm unless stated otherwise.

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

Type	EN215	Zero-position ('0')	Connection	Capillary tube length	Colour	Cap	OS-No.
Thera-3, Thera-3-DA and Thera-3-HZ with internal sensor							
Liquid sensor	•		M30 x 1.5	-	white	MNG	T6001
	•		M30 x 1.5	-	white	none	T6001C
	•		M30 x 1.5	-	white	Honeywell	T6001H
	•	•	M30 x 1.5	-	white	MNG	T6001W0
	•	•	M30 x 1.5	-	white	none	T6001W0C
	•	•	M30 x 1.5	-	white	Honeywell	T6001W0H
			DA type	-	white	MNG	T6001DA
			DA type	-	white	none	T6001DAC
			DA type	-	white	Honeywell	T6001DAH
		•	DA type	-	white	MNG	T6001DAW0
		•	DA type	-	white	none	T6001DAW0C
		•	DA type	-	white	Honeywell	T6001DAW0H
			M28 x 1.5	-	white	MNG	T6001HZ
	•	M28 x 1.5	-	white	MNG	T6001HZW0	
Wax sensor	•		M30 x 1.5	-	white	MNG	T6002
	•		M30 x 1.5	-	white	none	T6002C
	•		M30 x 1.5	-	white	Honeywell	T6002H
	•	•	M30 x 1.5	-	white	MNG	T6002W0
	•	•	M30 x 1.5	-	white	none	T6002W0C
	•	•	M30 x 1.5	-	white	Honeywell	T6002W0H
Thera-3 and Thera-3-DA with remote sensor							
Liquid sensor	•		M30 x 1.5	0.8 m	white	MNG	T600108
	•		M30 x 1.5	2.0 m	white	MNG	T600120
	•		M30 x 1.5	5.0 m	white	MNG	T600150
	•	•	M30 x 1.5	0.8 m	white	MNG	T600108W0
	•	•	M30 x 1.5	2.0 m	white	MNG	T600120W0
	•	•	M30 x 1.5	5.0 m	white	MNG	T600150W0
	•	•	M30 x 1.5	0.8 m	white	Honeywell	T600108W0H
	•	•	M30 x 1.5	2.0 m	white	Honeywell	T600120W0H

## 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

All radiator thermostats of this type with M30x1.5 connection in connection with certified Honeywell TRV bodies conform to the European Standard EN215.

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

	<b>THERA-3</b>	<b>THERA 3 with remote 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	28°C (82°F)	28°C (82°F)	≤ 32°C (90°F)
Hysteresis	0.4K	0.5K	≤ 1.0K
Influence of differential pressure	0.3K	0.6K	≤ 1.0K
Influence of static pressure	0.4K	0.4K	≤ 1.0K
Influence of heating medium	0.25K	0.15K	≤ 1.5K
Response time	23 min.	16 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 4. Radiator thermostats of this type with zero-position ('0')**

Setpoint	0	*	1	2	3	4	5
°C	1	6	12	16	20	24	28
°F	34	43	54	61	68	75	82

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

Setpoint		*	1	2	3	4	5
°C		6	12	16	20	24	28
°F		43	54	61	68	75	82

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

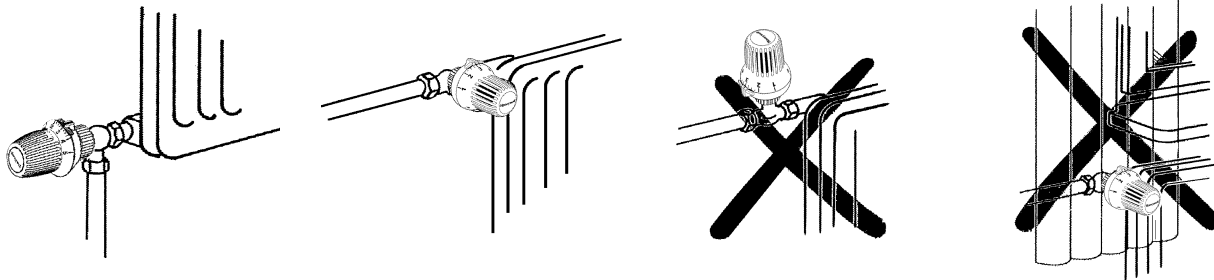


Fig. 3. Correct and false installation positions for radiator thermostats with internal sensor

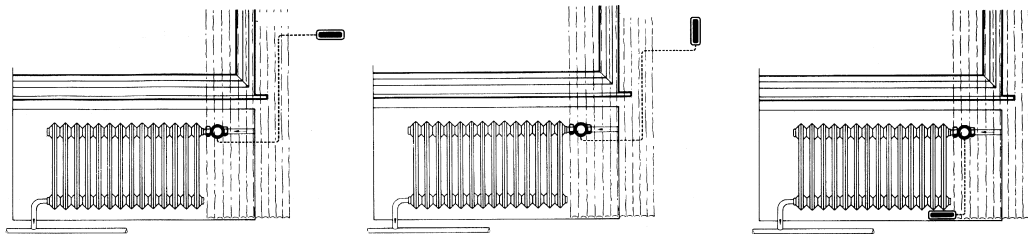


Fig. 4. Thera-3 with remote sensor

## Accessories

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



TA6900A001

### Decoring for connection nut

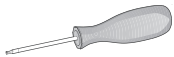


white (RAL9016)  
10 pair, 20 pieces  
white (RAL9016)  
1 pair, 2 pieces

TA1000A001

TA1000A011

### Torx-Screwdriver for theft-protection ring



TA6900B001

chrome  
10 pair, 20 pieces  
chrome  
1 pair, 2 pieces

TA1000A002

TA1000A022

### Cover cap for customer specific logos, white



TA6000A001

### Special tool for assembly of radiator thermostats

VA8210A001

### Trim ring, white



TA1000B001



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EN0H-2002GE23 R0109

January 2009

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