



T6000 Series

Thera-30

Radiator Thermostats with ergonomical Design

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 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.

SPECIAL FEATURES

- „A“-class energy efficiency certified according TELL labeling scheme
- Conforms with M30 x 1.5 connection to European standard EN 215
- Available with liquid-sensor
- 5-year warranty



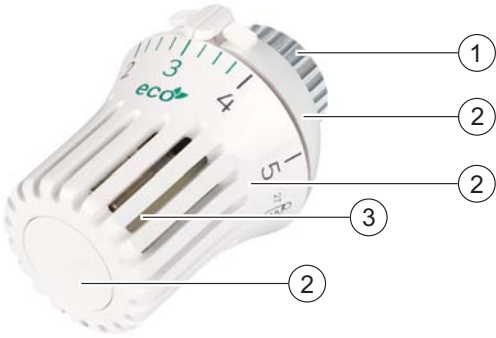
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TECHNICAL DATA

Connection to valve body	
Standard:	M30 x 1.5 thread
Danfoss:	Snap connection RA valves
Herz:	M28 x 1.5 thread
Temperature set-point range	
0 - * - 1 ... 5	1 - 28 °C
* - 1 ... 5	6 - 28 °C
Operating characteristics	
Closing dimension:	11.5 mm

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

CONSTRUCTION

Overview		Components	Materials
	1	Coupling nut	Brass, nickel plated
	2	Handwheel with lid and socket	White RAL9016
	3	Socket, support cage and spindle assembly	Plastic

METHOD OF OPERATION

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.

INSTALLATION GUIDELINES

Setup requirements

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

Installation Example

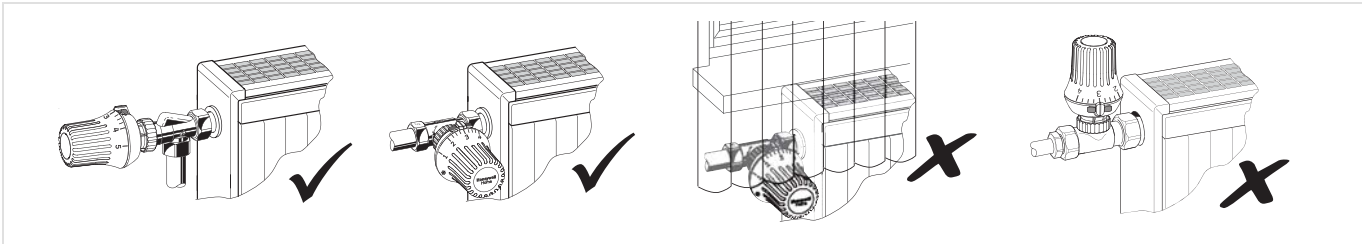


Fig. 1 Correct and false installation positions for radiator thermostats with internal sensor

TECHNICAL CHARACTERISTICS

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

Parameter	EN 215 Requirements	Thera-30
Min. set point temperature	5 - 12 °C	6 °C
Max. set point temperature	≤ 32 °C	28 °C
Hysteresis	1.0 K	0.26 K
Influence of differential pressure	≤ 1.0 K	0.22 K
Influence of heating medium	≤ 1.5 K	0.18 K
Response time	≤ 40 min	22 min
Control accuracy	≤ 1.2 K	0.2 K

Note: All °C - 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

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.

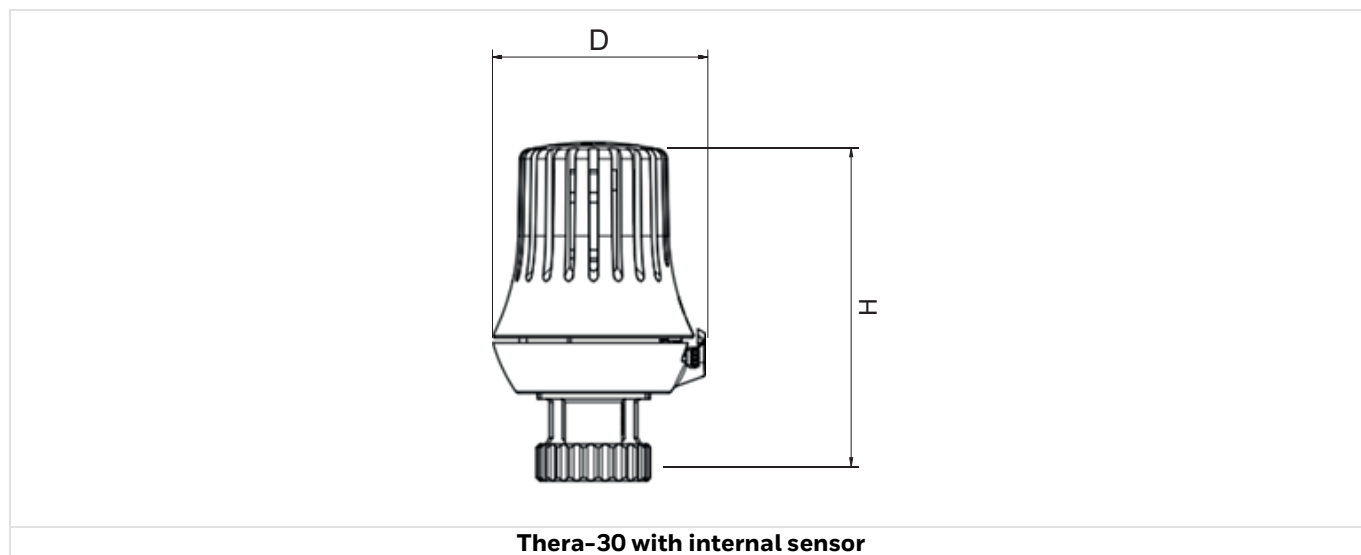
Tab. 2 Radiator thermostats with zero-position ('0')

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

Tab. 3 Radiator thermostats without zero-position ('0')

Set point		❄	1	2	3	4	5
°C	-	6	14	16	20	24	28
°F	-	43	54	61	68	75	82

DIMENSIONS



Type	H closed	H open	D
Thera-30	87	91	60
Thera-30 - DA Type	87	100	60

Note: All dimensions in mm unless stated otherwise.

ORDERING INFORMATION

The following tables contain all the information you need to make an order of an item of your choice. When ordering, please always state the type, the ordering or the part number.

Options

The following tables contain all the information you need to make an order of an item of your choice. When ordering, please always state the type, the ordering or the part number.

Type	EN 215 certification	Zero position ('0')	Connections	Capillary tube length	Cap	Item No.
Thera-30, Thera-30-DA with internal sensor						
Liquid sensor	•	-	M30 x 1.5	-	Honeywell Home	T6000
	•	•				T6000WO
	-	-	DA type			T600DA
	-	•				T6000DAWO
Liquid sensor without cap	•	-	M30 x 1.5	-	none	T6000C
	•	•				T6000WOC
	-	-	DA type			T6000DAC
	-	•				T6000DAWOC
Thera-30 and Thera-30-DA with remote sensor						
Liquid sensor	•	-	M30 x 1.5	2.0 m	Honeywell Home	T600020
	•	•				T600020WO
	-	-	DA type			T600020DA

Accessories

	Description	Dimension	Item No.
	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
	TA1010DA DA - Adapter from Danfoss		
	Snap connection RA to M30 x 1.5		TA1010DA01
	TA6900A Theft - protection ring		
	white (RAL9016)		TA6900A001
	VA8210A Special tool for assembly of radiator thermostats		
			VA8210A001
	TA6000A Cover cap for customer specific logos, white		
			TA6000A001
	TA1000B Decoring, white		
			TA1000B001

For more information

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