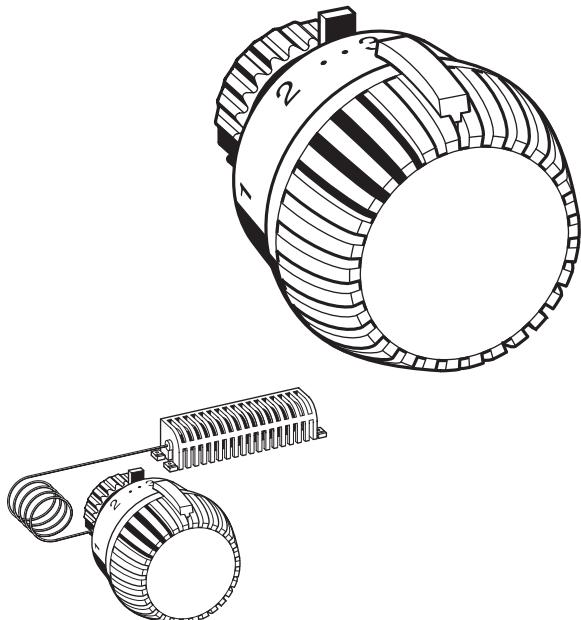


T7000 2080fl

HEAVY-DUTY RADIATOR THERMOSTAT

PRODUCT DATA



Design

The radiator thermostat consists of:

- Handwheel with lid and socket
- M30 x 1.5 connection and 11.5 mm closing dimension
- Sensor with support cage
- Internal or remote sensor
- Liquid-filled sensing element
- Spindle assembly
- Connection nut

Materials

- Handwheel and lid made of plastic, white to RAL9010
- Socket made of black plastic
- Support cage and spindle construction made of plastic
- Sensor filled with liquid
- Connection nut made of nickel-plated brass

Application

Thermostats are installed onto thermostatic valve bodies (TRV bodies). The combination of thermostat and TRV body, (TRV), controls the room temperature by regulating the flow of heating water into a heating surface.

TRVs are installed in water-based heating systems at the supply or, less commonly at the return connection of radiators or other heating surfaces.

With specially designed (normally closed) valves, thermostats are sometimes also used in water-based cooling systems to control individual cooling circuits.

Thermostats of this type conform to the European Standard EN215 when used with certain Honeywell TRV bodies.

Thermostats of this type with M30 x 1.5 connection are suitable for all Honeywell TRV bodies and radiator inserts, all Honeywell valve series M, as well as other TRV bodies and radiator inserts with M30 x 1.5 connection and 11.5 mm closing dimension.

Features

- Conforms to European standard EN215
- Equipped with liquid-filled sensing element
- Memory-clip
- Equipped with concealed limiting and blocking tabs
- Conforms with former requirements of the German Federal Office for Defence Procurement TL4520-014, Class 1
- Tested and approved for use in protection shelters by the German Federal Office for Civil Defence

Specifications

Thermostat connection	M30 x 1,5
Setpoint range	0 - * - 1..5 (with zero-position) * - 1..5 (without zero-position) * - 1..3
Temperature range	1...28°C (34...82°F) (with zero-position) 6...28°C (43...82°F) (without zero-position) 6...21°C (43...70°F) (without zero-position)
Closing dimension	11.5 mm

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

Dimensions and Ordering Information

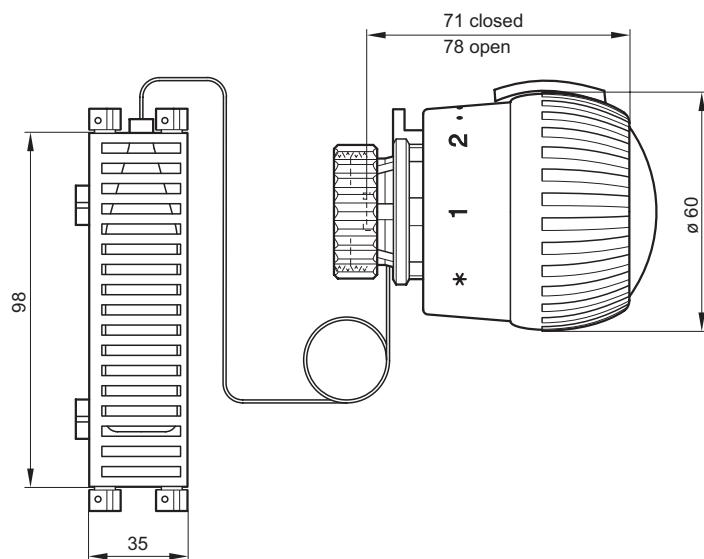
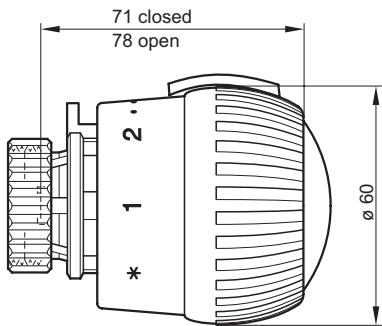


Fig. 1. 2080fl with internal sensor

Fig. 2. 2080fl with remote sensor

NOTE: All dimensions in mm unless stated otherwise.

Table 1. Available versions and OS-Nos (OS=Ordering Specification)

Type	EN215 certification	Zero-position ('0')	Connection	Capillary tube length	Colour	Cap	OS-No.
2080fl with internal sensor							
Limited to position 3	•		M30 x 1.5	-	white	* - 1..5	T7001
	•		M30 x 1.5	-	white	* - 1..3	T7001B3
	•	•	M30 x 1.5	-	white	0 - * - 1..5	T7001W0
2080fl with remote sensor							
Limited to position 3			M30 x 1.5	0.8 m	white	* - 1..5	T700108
			M30 x 1.5	2.0 m	white	* - 1..5	T700120
			M30 x 1.5	5.0 m	white	* - 1..5	T700150
			M30 x 1.5	0.8 m	white	* - 1..3	T700120B3
		•	M30 x 1.5	0.8 m	white	0 - * - 1..5	T700108W0
		•	M30 x 1.5	2.0 m	white	0 - * - 1..5	T700120W0

EN215 Information

The EN215 standard refers to a complete TRV made up of thermostat and radiator valve. Please check under '<http://www.cert-trv.cenorm.be>' for up-to-date information on certified combinations.

Table 2. Comparison of thermostats of this type specs and EN 215 requirements

	2080fl without zero-position	2080fl with remote sensor, without zero-position	EN215 requirements
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	≤ 0.4K	≤ 1.0K
Influence of differential pressure	0.3K	0.6K	≤ 1.0K
Influence of static pressure	0.5K	0.5K	≤ 1.0K
Influence of heating medium	0.8K	0.6K	≤ 1.5K
Response time	31 min.	12 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.

Installation Examples

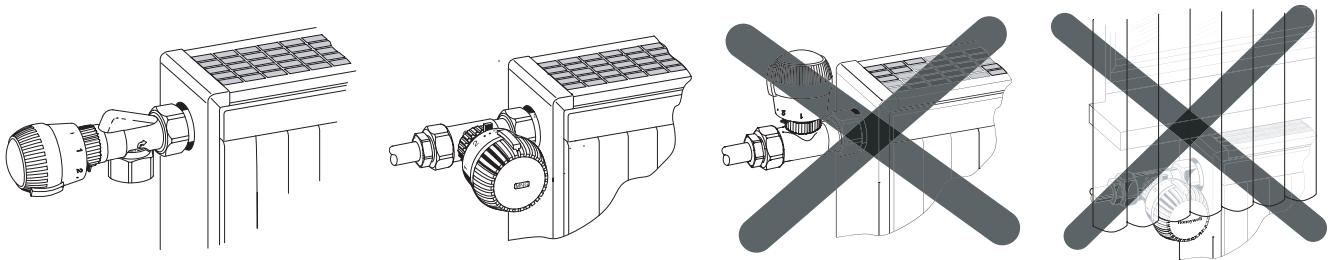


Fig. 3. Correct and false installation for thermostats with internal sensor

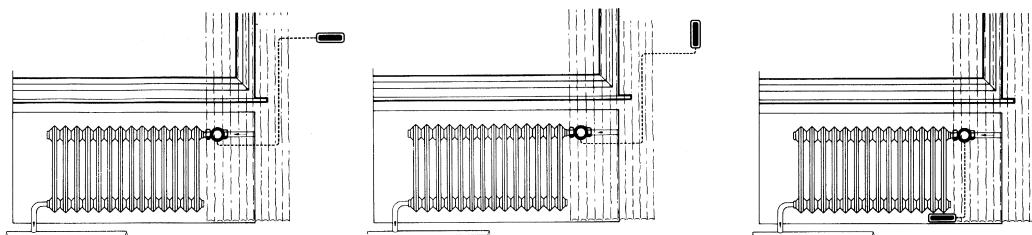


Fig. 4. 2080fl with remote sensor

Setpoint

Table 3. Thermostats of this type with zero-position ('0')

Setpoint	0	*	1	2	3	4	5
°C	1	6	11	16	21	25	28
°F	34	43	52	61	70	77	82

Table 4. Thermostats of this type without zero-position ('0')

Setpoint	*	1	2	3	4	5
°C	6	11	16	21	25	28
°F	43	52	61	70	77	82

Table 5. Thermostats of this type without zero-position ('0')

Setpoint	*	1	2	3	4	5
°C	6	11	16	21		
°F	43	52	61	70		

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

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

Accessories

Theft-protection ring



with Allan screws TA2080A001



with double-punch screws TA2080A002

Screwdriver for double-punch screws



TA2080B002

Cover ring, white



only for M30 x 1.5 connection TA1000A001

Adapter



DA-Adapter from Danfoss snap connection RA to M30 x 1.5 TA1010DA01

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

Special tool for assembly of thermostat



VA8210A001

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