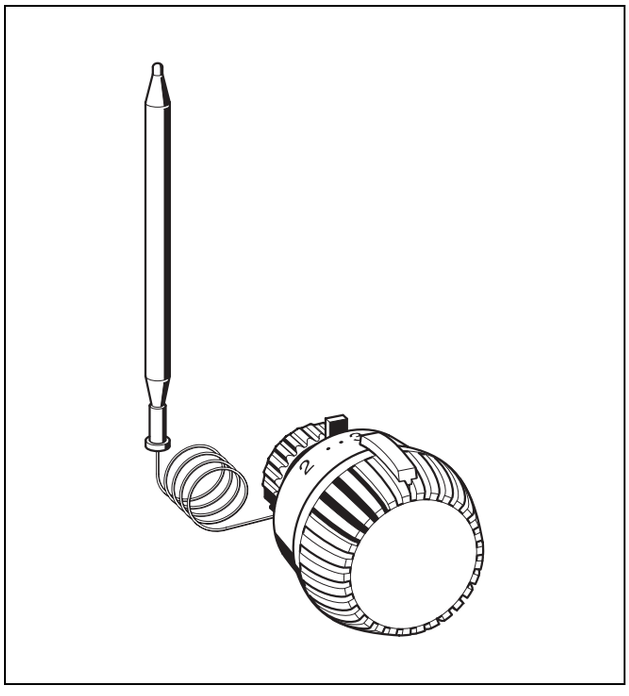
Honeywell

T7500Series Thera-2080WL

THERMOSTAT WITH REMOTE SENSOR FOR WATER AND AIR

PRODUCT DATA



Design

The radiator thermostat consists of:

- Housing with lid and socket
- M30 x 1.5 connection and 11.5 mm closing dimension
- Liquid-filled sensing element with capillary tube (length 2m)
- Capillary tube
- 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
- Liquid-filled copper sensor phial with nickel-plated copper capillary tube
- Connection nut made of nickel-plated brass

Application

Thermostats of this type are proportional controller without external energy requirement for the temperature-dependent control of warm air heaters, hot water generators, heat exchangers, etc. The remote sensor is directly immersed into the medium. Alternatively a sensor immersion pocket is available separately as an accessory.

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

- **Remote sensor for water and air**
- **Equipped with memory-clip**
- **Equipped with limiting and blocking tabs**

Specifications

Operating pressure	max. 130°C (266°F)
Differential pressure	max. 0.3...1 bar (4.4...14.5 psi), dependent upon used TRV body
Thermostat connection	M30 x 1.5
Setpoint range	2..7
Temperature range	20...70°C (68...158°F) at nominal flow rate
Closing dimension	11.5 mm

NOTE: P-bands given in the flow diagrams of thermostatic valves have to be multiplied with two when the valves are used with the Thera-2080WL.
Example: kv-value 0.45 at 2K P-band for use with a normal thermostat changes to kv-value 0.45 at 4K P-band for use with the Thera-2080WL.

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

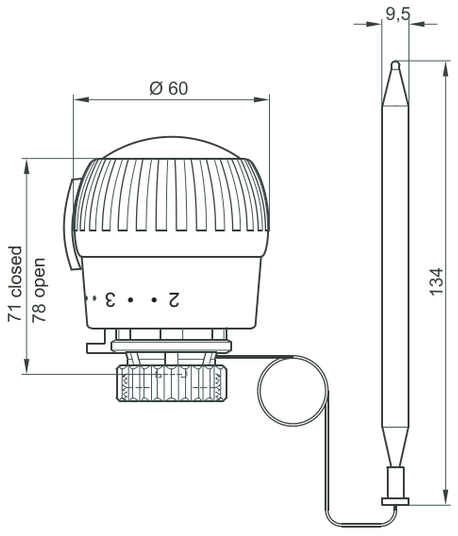


Fig. 1. Thera-2080WL with remote sensor

NOTE: All dimensions in mm unless stated otherwise.

Ordering Information

Type	OS-No.
Thera-2080WL with remote sensor for water and air	T750120

Setpoint

NOTE: All °C and °F-values approximate.

Setpoint	2	3	4	5	6	7
°C	20	30	40	50	60	70
°F	68	86	104	122	140	158

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

Installation Examples

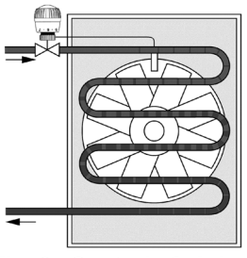


Fig. 2. Control of air heater

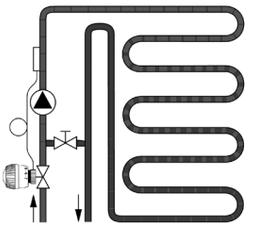


Fig. 3. Mixer control for underfloor heating

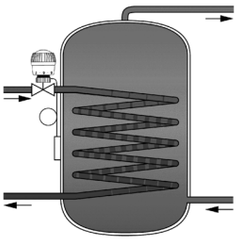


Fig. 4. For hot water storages and heat exchangers

Accessories

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

Adapter

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

Special tool for assembly of radiator thermostats

VA8210A001

Sealing kit for installation Thera-2080WL

R1/2" — TA2085B001

Brass sensor pocket

R1/2" — TA2085A001

Theft-protection ring

with Allan screws — TA2080A001

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EN0H-2005GE25 R1111
November 2011

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