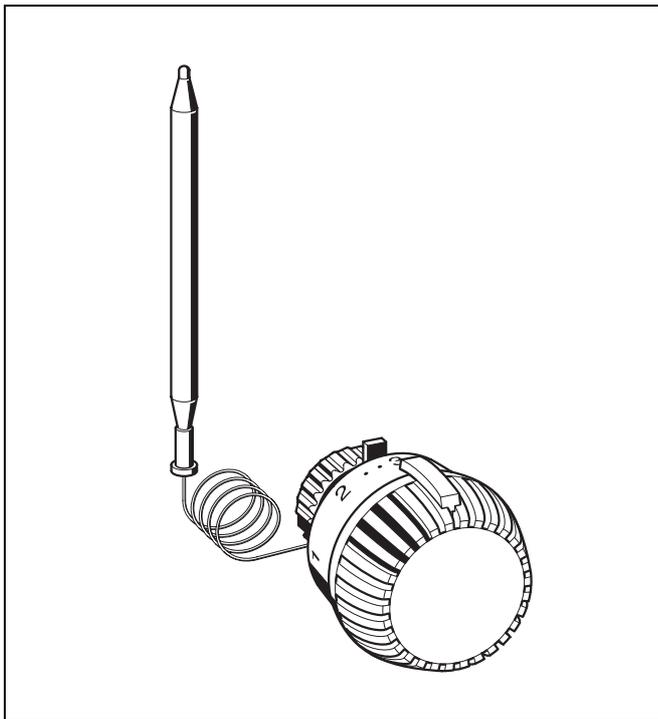


## T7500 2080WL

### 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

- Liquid-filled sensing element
- Memory-clip
- Equipped with concealed limiting and blocking tabs

#### Specifications

Operating temperature	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 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 2080WL.

#### Function

Thermostats of this type control the TRV body. The medium passing around the sensor of the thermostat causes the sensor to expand when the temperature rises. The sensor acts onto the valve spindle and this causes the TRV to close. When the temperature falls the sensor contracts and the spring-loaded valve spindle is opened. The TRV opens in proportion to the temperature of the sensor. Only the amount of water required to maintain the temperature set on the thermostat can flow through the valve.

## Dimensions

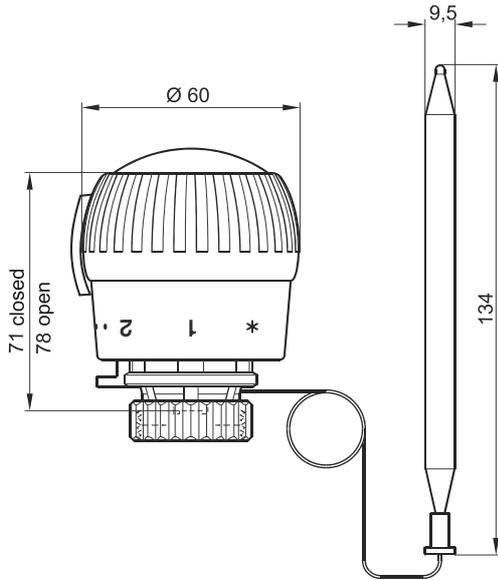


Fig. 1. 2080WL with remote sensor

NOTE: All dimensions in mm unless stated otherwise.

## Ordering Information

OS-No.: 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

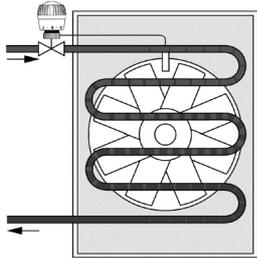


Fig. 2. Control of air heater

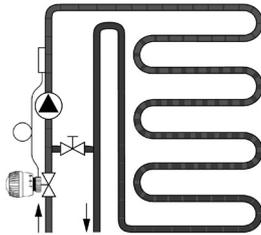


Fig. 3. Mixer control for underfloor heating

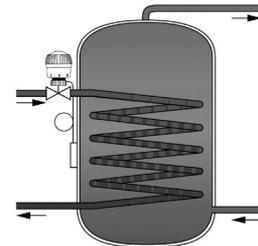


Fig. 4. For hot water storages and heat exchangers

## Accessories

### Theft-protection ring



with Allan screws

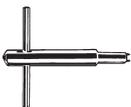
TA2080A001



with double-punch screws

TA2080A002

### Screwdriver for double-punch screws



TA2080B002

### Brass sensor pocket



R1/2"

TA2085A001

### Sealing kit for installation 2080WL



R1/2"

TA2085B001

### Special tool for assembly of thermostat



VA8210A001

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