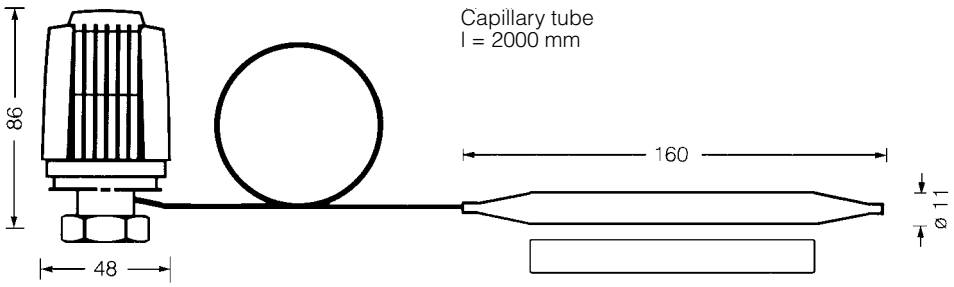
HERZ Thermostat

Temperature Controller with Contact Sensor

Standard Sheet for

7420/7421

Edition 1000 (0999)



Dimensions in mm

7420/7421

Models

The HERZ-Thermostat with contact sensor is a proportional controller without power requirement for temperature control and/or limitation in hot water circuits and air heaters.

7420 HERZ Thermostat with contact sensor for floor heating systems, consisting of a thermostatic head with hydrosensor (liquid filled), capillary tube, pipe contact sensor and fastening material for affixing it to the pipe.

7421 HERZ Thermostat with contact sensor for boiler intake temperature control, otherwise same as 7420.

Order Numbers Operating Data

Article number	**7420**		**7421**
Handwheel colour Order numbers	white 1 **7420** 06	brown 1 **7420** 00	brown 1 **7421** 00
Set value range	20–50 °C		40–70 °C
Maximum differential pressure	0.75 bars 0.2 bars for low-noise operation		
Hysteresis	0.3 K		
Effect of heating medium temperature	0.15 K / 10 K		
Excess temperature safety function	10 K above max. scale value		

Fields of Application

For installation on all HERZ valves suitable for thermostatic operation. For article and order numbers, dimensions and forms of delivery see the respective product standard sheets.

Mode of Operation

In the HERZ-Thermostat with contact sensor, the change of volume of the hydrosensor liquid filling is transmitted through a capillary tube into a system of bellows which on its part actuates the valve spindle.

The thermostatic valve (control element) is closed when the pipe temperature rises. The temperature scale is directly on the handwheel, temperature adjustment is performed by means of this scale.

HERZ Armaturen

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Thermostatic Head Installation

1. Unscrew screw cap or handwheel from the thermostatic valve body.
2. Open the thermostatic head completely, place union nut on the valve. In doing so, turn the thermostatic head in such a way that the handwheel scale can be read easily.
3. Tighten union nut moderately with 30 mm open-end-wrench.
4. Test for proper functioning by turning the handwheel and set the thermostat to the desired temperature.

Contact Sensor

The contract sensor and its base are attached to the pipe by means of clips; however, it can also be placed in a submersible sleeve.

Flawless heat transmission must be ensured.

Theft Protection

To prevent theft retaining clips are available that are installed over the fastening nut and which can only be opened with a special key.

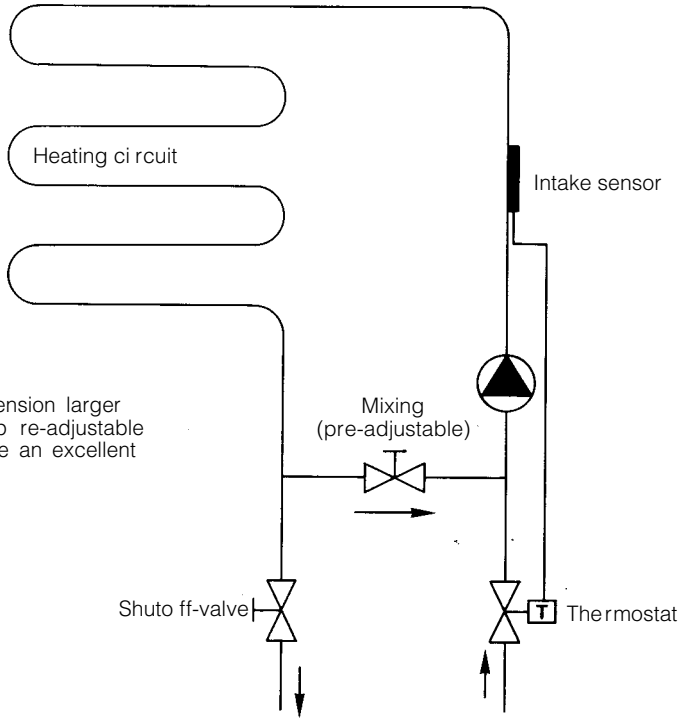
Accessories

1 **6616** 00	2 mm Allen key, for HERZ thermostatic valve heads and theft protection **7552** 03
1 **6807** 90	HERZ-TS-90 assembly key
1 **7552** 03	Theft protection, 2 clips that are fastened with Allen screws. Locking and unlocking with key 1**6616** 00.
1 **7555** 00	Retaining clips for mounting capillary tubes

Examples for Application

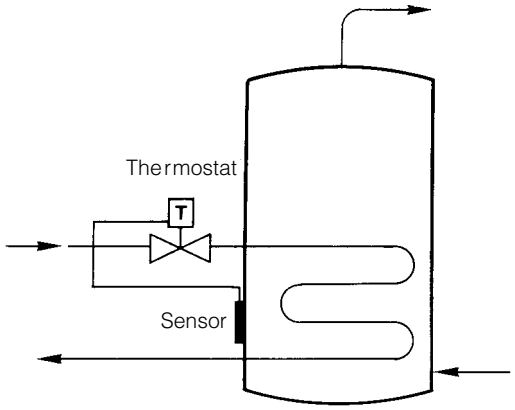
Floor heating

The mixing valve should be one dimension larger than the thermostatic valve. The pre-adjustable HERZ-DR-T and HERZ-DR valves are an excellent solution.



Industrial water heater

The sensor can also be installed in a submersible sleeve.



Air heater