Honeywell

T100 R / T100 RS

THERMOSTATS WITH REMOTE SENSOR FOR HOT WATER UNITS
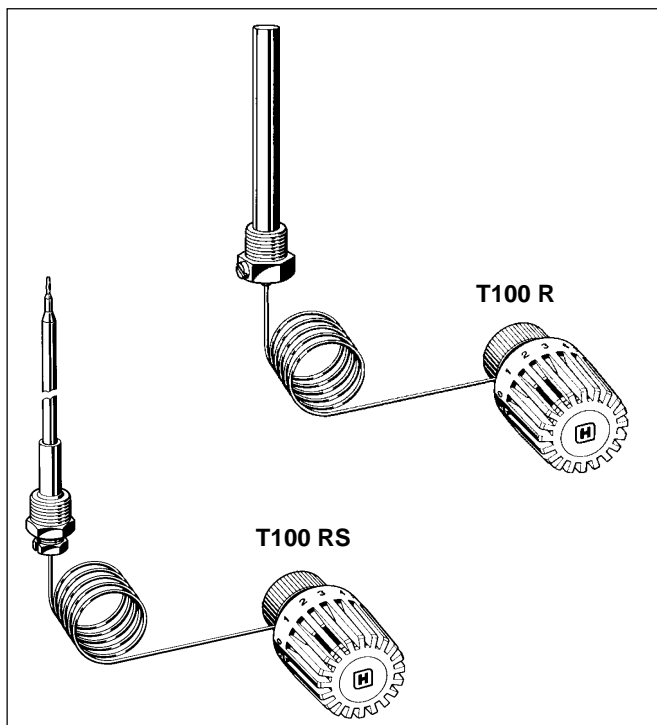
T100 R

T100 RS

Application

T100 R and T100 RS thermostats are used for regulating hot water temperature or control of hot water units.

Features

- **Thermostat body with low thermal conductivity**
- **T100 R with immersion pocket for sensor**
- **Replacement of T100 R thermostat can be carried out without draining the system**
- **T100 RS is installed with rapid-response sensor directly immersed in the heating medium**
- **High control accuracy**
- **Over temperature protection**
- **Liquid-filled sensing element**

Specifications

Thermostat connection	M30 x 1.5
Flow temperature	max. 120°C (248°F)
Operating pressure	max. 10 bar (145 P.S.I.)
Differential pressure	max. 1.2 bar
Time constant	10 s (T100 R) 5 s (T100 RS)
Control range	Types AA and DA: 10...50°C (50...122°F)
	Types AB and DB: 30...70°C (86...158°F)
Over-temperature protection	40K above set value

Design

The thermostats are made up of:
- Handwheel with socket
- External liquid-filled sensor with capillary tube and fitting
- T100 R with additional immersion pocket
- Spindle assembly
- Connection nut

Materials

- Handwheel made of white plastic
- Socket made of black plastic
- Support cage and spindle assembly made of plastic
- Connection nut made of nickel-plated brass
- Immersion pocket made of nickel-plated brass

Function

The T100 R or T100 RS thermostats reliably control the temperature in a hot water generator according to the setting and without external energy source.

The sensor expands or contracts according to the temperature and the movement of the sensor in turn opens or closes the aperture in the valve body through which water flows to the hot water generator.
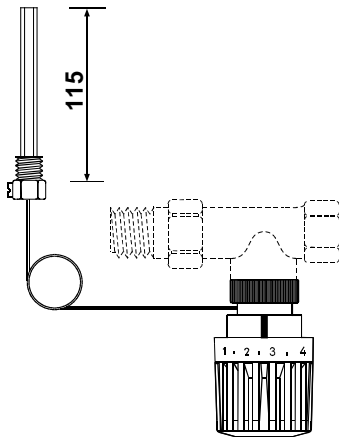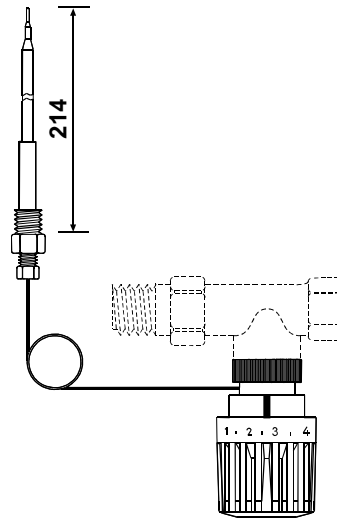
Dimensions

Fig. 1. Dimensions T100 R

Fig. 2. Dimensions T100 RS

Options

T100 R - AA	With R ½" immersion pocket	Setting range 10...50°C (50...122°F)
T100 R - AB	With R ½" immersion pocket	Setting range 30...70°C (86...158°F)
T100 RS - DA	With R ½" screw-in sensor	Setting range 10...50°C (50...122°F)
T100 RS - DB	With R ½" screw-in sensor	Setting range 30...70°C (86...158°F)

Ordering Information

Type	Temperature °C (°F)																			
	10 (50)	**13** (55)	**17** (63)	**20** (68)	**23** (73)	**27** (81)	**30** (86)	**33** (91)	**37** (99)	**40** (104)	**43** (109)	**47** (117)	**50** (122)	**53** (127)	**57** (135)	**60** (140)	**63** (145)	**67** (153)	**70** (158)
T100 R-AA	0	1	2	3	4	5	6	7	8	9	10	11	12						
T100 R-AB							0	1	2	3	4	5	6	7	8	9	10	11	12
T100 RS-DA	0	1	2	3	4	5	6	7	8	9	10	11	12						
T100 RS-DB							0	1	2	3	4	5	6	7	8	9	10	11	12

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