

# SPATIAL THERMOSTAT

# PT14-HT

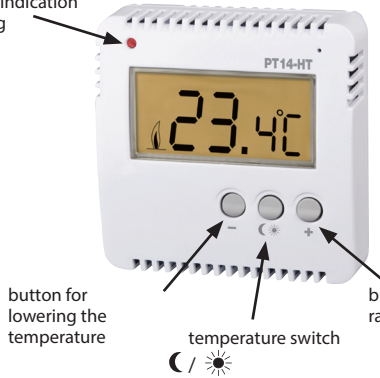
## FOR CONTROL OF THERMOELECTRIC DRIVES

*Intended/designed for*

- radiators equipped with thermoelectric drives
- hot water underfloor heating distributors with thermoelectric drives

## DESCRIPTION

power indication  
heating



button for  
lowering the  
temperature

temperature switch



button for  
raising the temperature

We recommend:

Thermoelectric actuator type NC (valve closed without voltage), not part of PT14-HT.

Can be ordered at [www.elbock.cz](http://www.elbock.cz) order no.0030.



## ASSEMBLY AND LOCATION

Install the thermostat in a suitable place where its operation will not be affected by the direct flow of warm air from the heater, sunlight and other interfering influences. Also avoid mounting on an exterior wall. The installation height should be approx. 1.5 m above the ground.

**Installation may only be carried out by a suitably qualified person!**

**Installation must be carried out without voltage!**

## ASSEMBLY PROCEDURE

- 1) Switch off the main circuit breaker.
- 2) Unscrew the locking screw and remove the front part of the thermostat with electronics (Fig.1).
- 3) Attach the back of the thermostat to the wall (Fig.2).
- 4) Connect the wires to the terminal board, make sure that the terminals are sufficiently tightened (Fig.3).
- 5) Attach the front of the thermostat with LCD and secure the thermostat against splitting locking screw (Fig.4).
- 6) Switch on the main circuit breaker. If everything is OK, the current temperature is displayed on the LCD.

Fig.1 Unscrew the locking screw and remove thermostat electronics.



Fig.2 Attach the back of the thermostat on the wall.



Fig.3 Connect the supply wires according to the scheme.

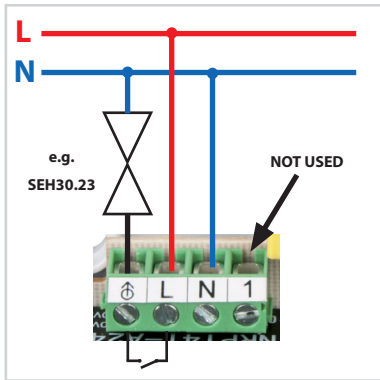


Fig.4 Place the part with the electronics on the bottom part and secure with a locking screw.





## FUNCTIONAL DESCRIPTION

PT14-HT is a digital room thermostat for controlling thermoelectric actuators type NC (without voltage valve closed). We recommend type SEH30.23.



The switching element is a triac, which guarantees noiseless operation when regulating the valves.



Another advantage is the PWM (pulse width modulation) function, in which there is a smooth regulation and thus the prevention of overheating of the room.

ASS function (anti scale system), automatic protection of the valve against limescale deposits. The valve opens fully once a week and closes even when it is not heating.

Frost protection is functional if the room temperature drops below 3 °C, the valve opens automatically and waits for the temperature to rise.


## SETTINGS

When you press the button for the first time  or  the LCD backlight is activated. The next press sets the desired temperature. The thermostat allows you to set the temperature between 3 °C and 39 °C.

This temperature can be changed continuously with the buttons  and  or by simply switching the two temperatures with the button  / .

For  for example, we set 19 °C and for  23°C.

Then just set every morning  and evening .

If the power supply is switched off, the control is set to function after its restoration  at 18 °C.

The factory default values are:

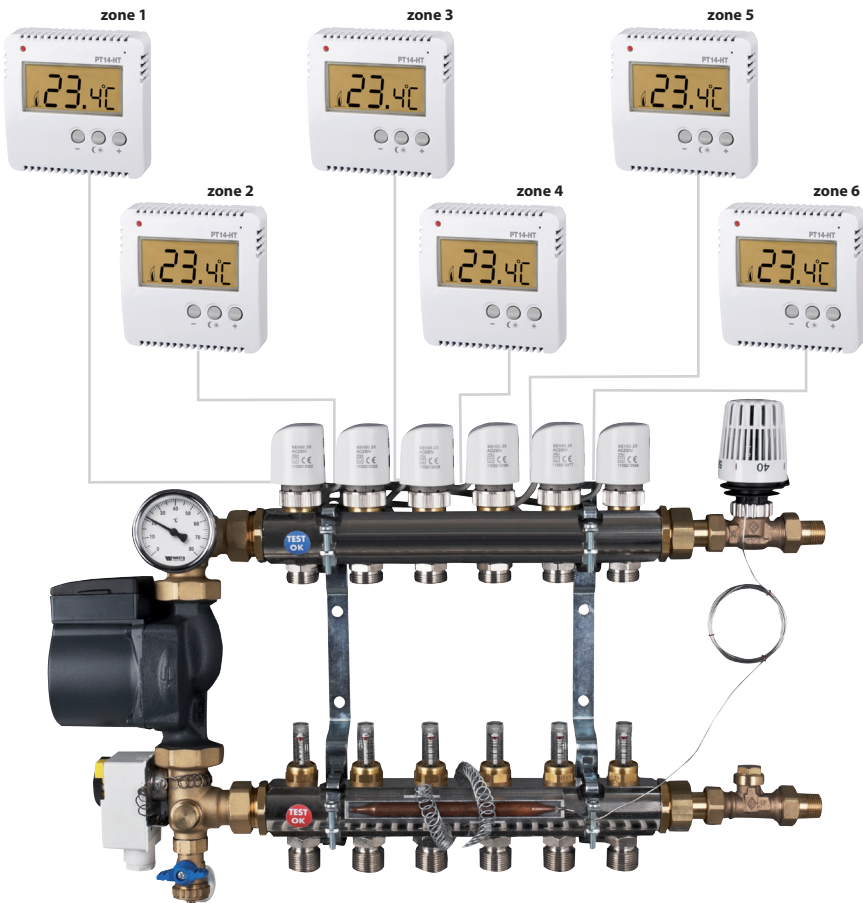
 18°C

 21°C

**These values are always set after a power failure.**



## EXAMPLE OF USE



# ROOM THERMOSTAT **PT14-HT**

It is designed to control thermoelectric actuators type NC (without voltage valve closed), which are part of hot water underfloor heating or radiators. It is used to regulate the temperature in living spaces. The clear LED backlit display allows reading and setting in low ambient light intensity. Easy setup allows control even for older people.

Technical parameters	
Type of regulation	PWM
Minimum indication jump	0.1 °C
Adjustable temperature range	+3 °C to 39 °C
Temperature settings	after 0.5 °C
Measurement accuracy	± 1 °C
Power supply	230 V / 50 Hz
Power consumption	0.5 VA (0.5 W)
Switching element	triac
Degree of protection	IP20
Protection class	II
Output	max. 0.1 A, max. 2 pcs of valves
Fuse	630 mA, type F630L / 250V
Operating temperature	0 °C to + 40 °C

In case of warranty  
and post-warranty service,  
send the product to  
producer.



[www.elbock.cz](http://www.elbock.cz)

**ELEKTROBOCK CZ s.r.o.**

Blanenská 1763

Kuřim 664 34

Tel.: +420 541 230 216

Technical support (up to 2 pm)

Mobile: +420 724 001 633

+420 725 027 685