PROGRAMMABLE THERMOSTAT

PT 14-P

WITH SIMPLE CONTROL AND BACKLIT DISPLAY

Intended for:
- direct heaters
- radiant panels
- electric floor heating

ELEKTROBOCK CZ

INSTALLATION AND LOCATION

Install the thermostat at a suitable place where its operation cannot be affected by direct flow of hot air from the heater, sunshine or other disturbing effects. Neither install it on an external wall. The installation height should be approx. 1.5 m above the floor. Place the thermostat in the "reference room", such as the living room (the heating source will switch according to the temperature in this room).

The installation must only be done by a properly qualified person!
Before installation, disconnect the power supply!

INSTALLATION PROCEDURE

1) Switch off the main circuit breaker.
2) Loosen the locking screw and remove the front part of the thermostat with the electronics (Fig. 1).
3) Fix the back part of the thermostat to the wall (Fig. 2).
4) Connect the wires to the terminal board; take heed to proper tightening of the terminals.
5) Put on the front part of the thermostat with LCD and ensure the thermostat with the locking screw against splitting.
6) Switch on the main circuit breaker. If everything is OK, the LCD shows the current temperature.
7) Set the thermostat parameters and the required temperature program according to the instructions.
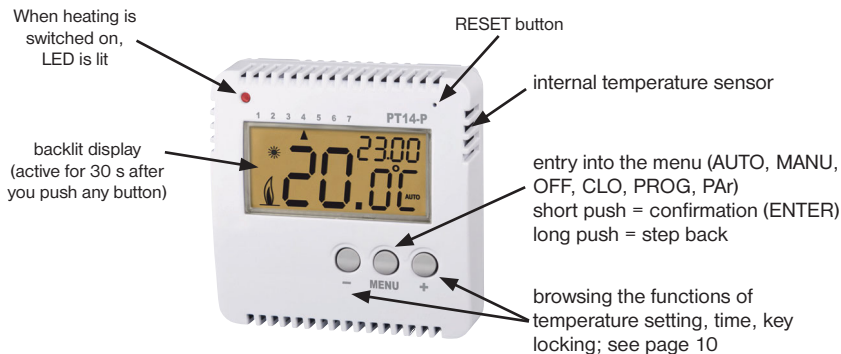
PT14-P DESCRIPTION

When heating is switched on, LED is lit

RESET button

internal temperature sensor

backlit display (active for 30 s after you push any button)

entry into the menu (AUTO, MANU, OFF, CLO, PROG, PAr)
short push = confirmation (ENTER)
long push = step back

browsing the functions of temperature setting, time, key locking; see page 10

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

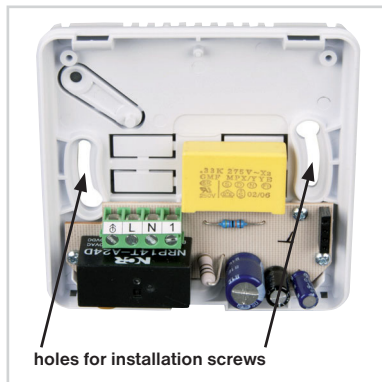**Fig.2** Fix the back part of the thermostat to the wall.

holes for installation screws

Fig.3 Connect the inlet wires according to the diagram.

L

N

HEATING- max. 16 A

UNUSED

⏚ | L | N | 1
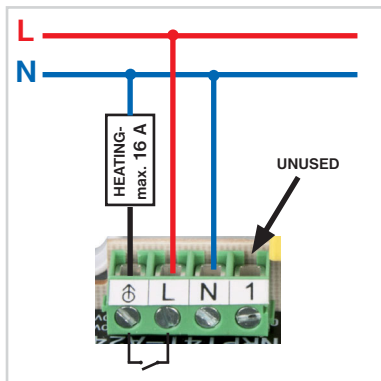
Fig.4 Put the electronics part onto the bottom part and ensure it with the locking screw.

current day

preset required
temperature
(☾ , ☀ , 🍸)

required temperature
or current time
or status information

heating on
indication

preset mode

current temperature
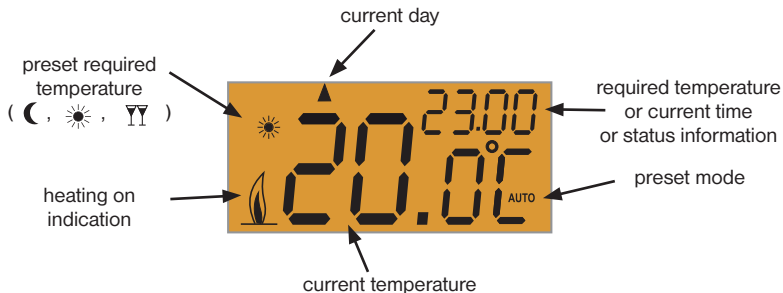
FUNCTIONS AND SETTING

Push any button to activate the display backlight. Then push the **MENU** button to enter the menu. Browse in the menu with the ➖ or ➕ button:

AUTO : the thermostat works according to the program preset (page 8, 9).

MANU : used for manual temperature setting (selection with the ➖ or ➕), button); the temperature remains constant until the next manual temperature change.

OFF : tin this mode, the thermostat is off permanently (the anti-freeze protection of 3 °C is functional).

CLo : current day and time setting.

PROG : mode for temperature program setting.

PAr : parameter settings.

CURRENT DAY AND TIME SETTING (CLo)

Push twice the **MENU** button; choose the **CLo** function with the ➕ button; confirm with the **MENU** button. The hour indication is flashing on the display, set the current hour with the ➖ or ➕ button and confirm with the **MENU** button. Similarly, proceed with the minutes, day and year, confirm each setting with the **MENU** button. Return to the menu by means of long push of the **MENU** button.
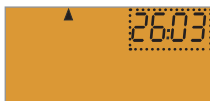
PARAMETER SETTING   (PAr)

Push twice the **MENU** button; chose the **PAr** function with the ➕ button; confirm with the **MENU** button.
Set the parameters as follows:

P1 economical temperature (17 °C by default) ☾

- The display shows **P1**
- Set the required economical temperature with the ➖ or ➕ button and confirm it with the **MENU** button.

P2 comfortable temperature (23 °C by default) ☀

- The display shows **P2**
- Set the required comfortable temperature with the ➖ or ➕ button and confirm it with the **MENU** button.

P3 party temperature (25 °C by default) ☗

- The display shows **P3**
- Set the required party temperature with the ➖ or ➕ button and confirm it with the **MENU** button.

P4 hysteresis (0.5 °C by default)

- The display shows **P4**
- Set the required hysteresis with the ➖ or ➕ button (see the graph) within the range of **0.1 to 6 °C** (selection by 0.1 °C) and confirm it with the **MENU** button**.**
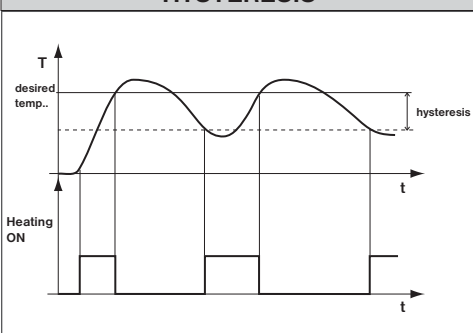
P5 minimum switch-on time (1 minute by default)

- The display shows **P5**
- With the ➖ or ➕ button, set the minimum time of the thermostat switch-on in minutes.
  Choose it according to the type of the heating system used within the range of **1 to 5 minutes** (see the table) and confirm with the confirm it with the **MENU** button.

HYSTERESIS

Heating type	Minimum source switch-on time
Electric heating	**1**
Plate radiators	**2 (3)**
Cast iron radiators	**4**
Floor heating	**5**

P6 current temperature correction (0 °C by default)

- The display shows **P6**
- With ➖ or ➕ button, set the correction within the range
  of **-5 °C to +5 °C** and confirm it with the **MENU** button.

It is used to correct the temperature measured by the thermostat. The setting must be done only after 12-hour operation, when the internal sensor temperature has stabilized. Measure the room temperature with a thermometer; if it is different from the thermostat temperature, set the correction.

P7 keyboard lock code (not set by default)

- The display shows **P7**
- With ➖ or ➕ button, set a combination of 4 digits (from 0 to 9)
  and confirm it with the **MENU** button.

The keys will be locked within 1 minute (after entry in the basic display); the LCD shows the **LOC** message. If you push a key, the LCD prompts you to enter the keyboard code; after entering the correct code, you can make any changes (control elements are functional again).
The control elements are locked again automatically after the setting is completed (within approx. 1 minute).

RECOMMENDATIONS:

- Record the keyboard code in the table;
- The code can be cancelled with the **- - - -** option;
- If you lose the code, you must restore the default settings of the thermostat. Hold ➖ button and briefly press the button RESET (see page2). Not before the sign **rESE** will appear on the LCD screen leave the ➖ buttons.

YOUR CODE

P8 firmware version (default settings restoration)

Firmware version, for information only.

FACTORY SETTINGS RESTORATION:

Push long (for approx. 3 s) the ➖ button, the **RESE** message appears shortly on the LCD and the default setting of the thermostat will be restored!

TEMPERATURE PROGRAM SETTING   (PROG)

Push twice the **MENU** button; select the **PROG** function with the ✚ button and confirm it with the **MENU** button.

CHOOSE A DAY OR BLOCK OF DAYS:

- With the ✚ button, choose a day or block of days which you want to program:

1= Monday	5= Friday	12345= Monday to Friday
2= Tuesday	6= Saturday	67= Saturday to Sunday
3= Wednesday	7= Sunday	1234567= all week
4= Thursday	TABLE FOR SELECTION OF DAYS TO PROGRAM	

- After selection, push the **MENU** button.

CHOOSE THE 1ST CHANGE TIME:
- The first time change setting (1) appears on the display; the time value is flashing
- Set the first change time with the ➖ or ✚ button (minimum step of 10 min) and confirm it with the **MENU** button.

CHOOSE THE REQUIRED TEMPERATURE:

- The ☀, ☾ or ☓ symbol appears on the display. Choose the required temperature with the ✚ button (the temperature values are preset in the parameters P1, P2 and P3 (see page 5).
- Confirm with the MENU button again.

- The second time change setting (2) of the same day appears automatically on the display.
- Repeat this procedure until you set all (up to 6) of the time changes; then exit the programming mode by long push of the **MENU** button.
- Choose the **AUTO** function; the thermostat starts working according to the preset program.
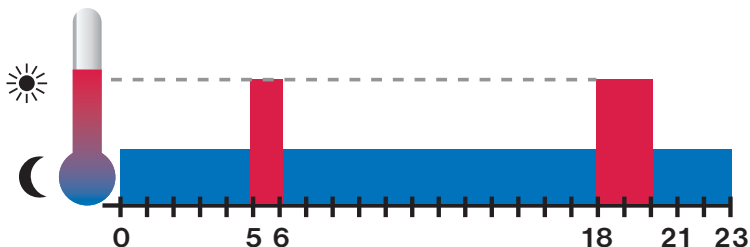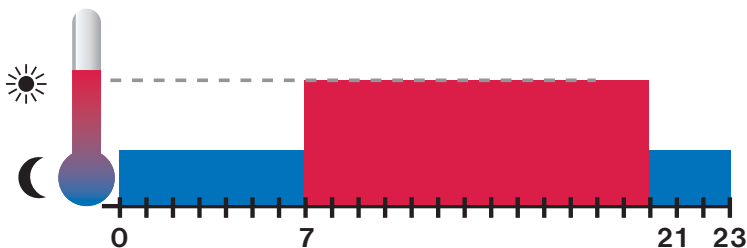
P1 ☾ = 17°C   P2 ☀ = 23°C   P3 �ừ = 25°C

program for Mon-Fri

program for Sat-Sun

SHORT TERM TEMPERATURE CHANGE

In the AUTO mode, push any button, and then the ⊖ or ⊕ button to make a short-term change of the temperature.
The thermostat will keep this temperature until the next temperature change given by the program.

OFF FUNCTION permanent switch-off

Push twice the **MENU** button; select the **OFF** function with the
➕ button and confirm it with the **MENU** button**.**
The thermostat will switch off. The **OFF** message appears on the
display. To cancel this function, push twice the **MENU** button and
choose another mode (AUTO or MANU) with the ➕ button.
Note: The anti-freeze mode is still active.

KEY LOCK

It is used to lock the keyboard as a protection against undesirable
operation.
Push the **MENU** and ➖ buttons; in this way, the keyboard will be
locked. The **LOC** message appears on the display.
To cancel, unlock, you can simultaneously push the MENU and
➕ button.
Note: If the key lock code has been entered (see parameter P7,
page 7), it is necessary to enter the pertinent code!

ANTI-FREEZE MODE

If the room temperature falls below 3 °C, the thermostat
automatically switches the connected device (heater).
The **FrO** message appears on the display.
As soon as the temperature rises by 0.5 °C, the thermostat
resumes the preset mode.

AUTOMATIC CHANGE OF SUMMER/WINTER TIME

If the current time is set correctly, the change from the summer to
winter time and vice versa is automatic.

PT 14

Thermostat with a backlit display, suitable for direct heaters, floor heating and electric heating panels.

Advantages:
- quick selection of economical and comfortable temperature
- simple operation
- output relay max. 16 A
- power supply 230 VAC
- fixed hysteresis 0.5 °C

PT 14-HT

Thermostat with a backlit display, suitable for control of thermoelectric drives (NC = closed in de-energized state). A semiconductor providing for noise-free operation is used as the switching element.

Advantages:
- quick selection of economical and comfortable temperature
- simple operation
- up to 2 thermoelectric drives can be connected to the outlet
- power supply 230 VAC
- stepless control
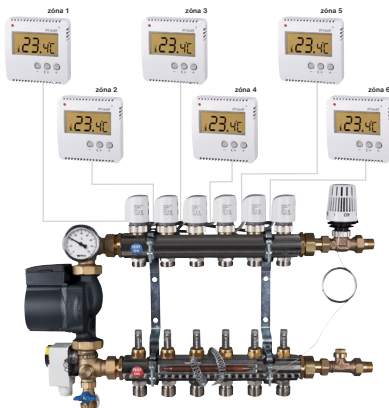
PROGRAMMABLE THERMOSTAT

PT14-P

Suitable for households, family houses and offices with electric heating. It can be used for switching of direct heaters, electric radiant panels or electric floor heating up to the current of 16 A. The well-arranged backlit display enables reading and setting even at low intensity of the ambient lighting.

Technical parameters	
Power supply	230 V/ 50 Hz
Power consumption	1 VA (1W)
Hysteresis - adjustable	0.1°C to 6°C
Number of temper. changes	6 temper. changes per every day
Minimum programming time	10 minutes
Adjustable temper. range	+3°C to 39°C
Temperature settings	by 0.5°C
Minimum indication step	0.5°C
Measuring accuracy	± 1°C
Switching element	relay
Protection	IP20
Protection class	II
Output	max. 16 A
Operating temperature	0°C to +40°C

In the case of guarantee or post-guarantee service, send the product to the distributor's or manufacturer's address

CE

LEAD FREE
in compliance with s RoHS

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