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TP44

TP44 Digital Programmable Thermostat

TP44

1. Popis

The digital thermostat is suitable to control temperature in a living room and is very easy to use. It allows you to control heating or cooling when the room temperature is lower or higher than set by the user. Installation is very easy thanks to the step-by-step instructions.

IMPORTANT: Installation of the equipment must be performed by a trained specialist. The user manual is intended for authorized operators.

IMPORTANT: Please read the instructions carefully before installation and follow the instructions provided when using the thermostat.

Recommendation regarding batteries

- Use only batteries of the specified type.
- Make sure that you insert the batteries as marked in the appropriate compartment. Inserting batteries with reverse polarity can damage the thermostat.
- Do not mix batteries of different types, e.g. alkaline with zinc-carbon batteries or old ones with new ones.
- If you know that the thermostat will not be used for a long time, remove the batteries to prevent damage to the thermostat by leakage.

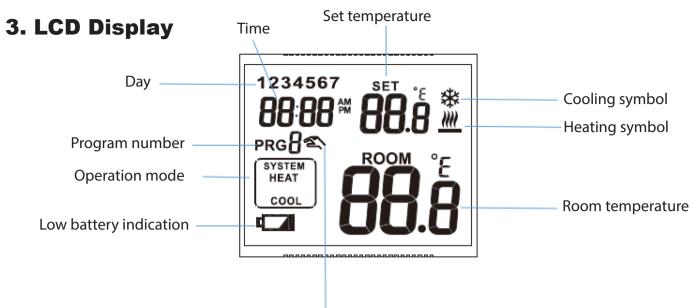**Recommendations regarding installation and use of the thermostat**

- This thermostat is intended for indoor use only (rooms, garages, verandas). Do not place it outdoors, do not expose it to rain.
- Do not place it in high humidity areas.
- It should be installed on an inner wall, about 1,5 m above the floor, located where room temperature changes can be felt thanks to freely circulating air.
- Do not install above a heat source (a TV set, heater, fridge etc.) or to places where it may be exposed to direct sunshine, draught, radiation from other devices.
- This thermostat can control only one device. Connecting several devices in cascade or in series (e.g. a heater and fan) does not guarantee its proper functioning.
- Turn off the power before connecting any equipment.
- Be extremely careful when connecting the equipment and power; improper connection or insufficient shielding of electrical cables can damage the equipment and endanger your safety.

Note: The manufacturer disclaims any liability for damage caused by improper installation or use of the device contrary to the instructions.

2. Specifications

Thermostat: code 17173

1. Programmable: yes, 7 days, 5/2 days and 24 hours, 6 temperature changes per day
2. Displayed temperature range: 0-40 °C (in 0.1 °C increments)
3. Adjustable temperature range: 7-35 °C (in 0.5 °C steps)
4. Temperature measurement accuracy: ±1 °C (at 20 °C)
5. Power supply: 2x 1.5A AAA batteries, alkaline
6. Load: 6(2) A, 230 V
7. Low Battery Indication: When the battery voltage drops below 2.7 volts, the symbol 🔋 appears.
8. Standby power consumption: 30 µA, backlight ≤6 mA
9. Backlight colour: white
10. Dimensions: 120 x 77 x 28 mm

3. LCD Display

Time — Set temperature

Day — 1234567 — Cooling symbol

Heating symbol

Program number — PRG

Operation mode — SYSTEM HEAT COOL

ROOM °C

Room temperature

Low battery indication

Manual operation symbol

4. Operating Modes

Keep pressed the middle of the circle ☐ for 5 sec., that opens operating mode selection. Press **+** or **–** to select heating mode (HEAT) or cooling mode (COOL), press ☐ to confirm.

5. Time Settings

1. Press once the symbol ⊕/▶▶ , until the day number starts flashing, using a **+** or **–** key select 1 to 7.
2. Press once the symbol ⊕/▶▶ , until the hours symbol starts flashing, using a **+** or **–** key select from 0 to 23.
3. Press once the symbol ⊕/▶▶ , until the minutes symbol starts flashing, using a **+** or **–** key select from 0 to 59.
4. To confirm the changes, press ☐ or wait for 15 s for the values to be saved and the thermostat returns to the operating mode set.

6. Program Settings

1. Press once the symbol **PRG** key, the weekday numbers will start flashing (1, 2, 3, 4, 5, 6, 7).

2. Use the + or – key to select a setting „1 2 3 4 5" or „6 7" (mode 5/2), „1 2 3 4 5 6 7" (7 days mode), or gradually „1, 2, 3, 4, 5, 6, 7" (24h mode).

3. Press the **PRG** key once, **PRG1** will appear on the display and the time will flash, use the **+** and **–** keys to set the first time of the desired program (in 10 minute increments).

4. Press the **PRG** key again, the temperature will flash, use the **+** and **–** keys to adjust the temperature (in 0.5 °C increments).

5. Press the **PRG** key again, the display shows **PRG** and the time flashes. Repeat steps 3 and 4 until all 6 times and temperatures are set for Monday (selected day).

6. When the times and temperatures are set for Monday and 1 (Monday) is flashing, press the **PRG** key again and repeat steps 2 to 4 until the desired times and temperatures for all 7 days are set.

7. Once the times and temperatures are set for all 7 days of the week, press the ☐ key as confirmation or wait for 60 seconds before the values are accepted and the thermostat returns to its operating mode.

8. Press **PRG** repeatedly to scroll through the set parameters.

9. Default settings:

Day 1 to Day7:

PRG1: 6:00 20 °C	PRG2: 8:00 15 °C	PRG3: 12:00 15 °C
PRG4:14:00 15 °C	PRG5: 17:00 21 °C	PRG6: 22:00 15 °C

7. Manual Temperature Setting

Press **+** or **-** to set the temperature, then press ▢ or wait for 15 seconds before the values are accepted. The symbol 🕊 is displayed. The thermostat will run following this value until the program changes or until the key ▢. The display shows alternatively clock and the time remaining to return to the program.

8. Temperature Calibration

Hold down the ▢ key for 5 seconds to enter the operation mode selection, then press the ⊕/▸▸ key and the option opens to calibrate the temperature "CAL" (from -3 °C to + 3 °C in 0.5 °C increments). Use the **+** and **-** keys to set the desired value and press the ▢ key to confirm.

9. Backlight

The backlight turns on when the dial is used and turns off after 15 s of inactivity.

10. Battery Replacement

The average battery life is 1 year, but it can be significantly reduced if backlight is often switched on. When the low battery symbol 🔋 appears on the display, the batteries need to be replaced. Battery replacing will cause loss of preset time.
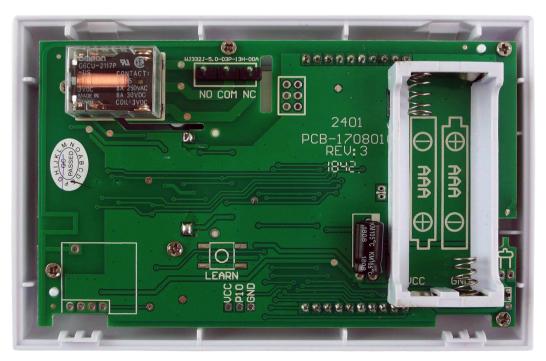
11. Permanent Temperature / Holidays

Press **+** or **-**, the temperature will flash. Then press ⊕/▸▸ to enter continuous temperature mode. Confirm changes by pressing ▢ or wait 15 seconds for the values to be accepted. The temperature set in this way will remain in effect until you terminate it by pressing ▢.

12. Reset to Factory Settings

Remove the back cover and remove the batteries, press and hold the key ▢ on the front panel. Insert the batteries, the display will light up and show all symbols, then release the button and the thermostat will return to factory settings.

13. El. Wiring

The thermostat controls the boiler or A/C via a potential-free relay: 1 (NC), 2 (COM), 3 (NO).

Rear side of the front panel

Heating: connect the two connecting cables of the controlled device to terminals No. 3 (NO – normally open) and No. 2 (COM).

Cooling: Connect the two connecting cables of the controlled cooling unit to terminals No. 2 (COM) and No. 1 (NC - normally closed).
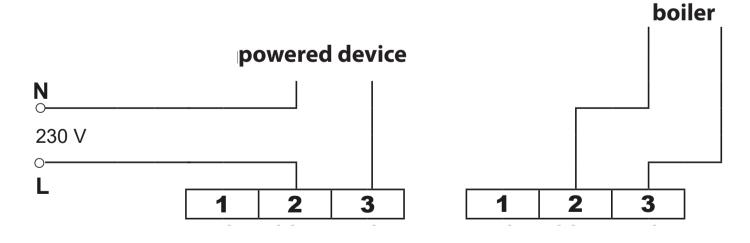
- For safety reasons, the removed inner cover must be replaced immediately after connecting the cables.

The equipment shall be installed and connected by a qualified professional. Always follow the manufacturer's instructions when connecting the thermostat to a heating or cooling system.

Thermostat Wiring Diagrams for Heating:

For equipment requiring 230V power supply.

For equipment requiring potential-free contact.

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