



Room temperature controller
with weekly programme

USER MANUAL

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1. Introduction

Dear Customer,

Thank you for purchasing this product.

This product meets the requirements of current statutory, European and national guidelines. To maintain this status and to ensure safe operation, you as the user must observe these operating instructions!



These operating instructions are part of this product. They contain important information concerning operation and handling. Please bear this in mind in case you pass on the product to any third party. Therefore, retain these operating instructions for reference!

In case of any technical questions, contact or consult:

Tel.: 00387 62 255 398

E-mail: servis@kovan.ba

Mon.-Sat.: 7:00 – 16:00

2. Intended use

The product measures the current room temperature via an internal temperature sensor. Depending on an intended set temperature, the integrated switching output is activated. The heating and cooling devices can be controlled by it.

A contact-sensitive LC display is used to operate all functions.

The product is supplied with power by two AA/mignon type batteries.

Observe the safety notes and all other information in these instructions.

This product complies with the applicable statutory, national and European specifications. All company names and product names are trademarks of their respective owners. All rights reserved.

3. Explanation of Symbols



This lightning symbol is used when your health is at risk, e.g. from electric shock.



An exclamation mark in a triangle indicates important instructions in this operating manual which must be observed.



The „hand“ symbol indicates special information and advice on operation of the device.

4. Safety information



In case of damage caused by non-compliance with these safety instructions, the warranty/guarantee will become void. We do not assume any responsibility for consequential damage!

We do not assume any liability for damage to property or personal injury caused by improper use or the failure to observe the safety instructions! In such cases the warranty/guarantee is void.

- The device is not a toy. Devices operated using the mains voltage must be kept out of the reach of children. Particular care must therefore be exercised if children are around.
- The product should only be used in closed, dry indoor areas, it must not become damp or wet. There is the risk of a fatal electric shock!
- Do not leave packaging material unattended. It may become a dangerous toy for children
- Do not use the product inside of rooms or in bad ambient conditions where flammable gases, vapours or explosive dust may be or are present! There is a danger of explosion!

- In commercial and industrial facilities, the regulations for the prevention of accidents as laid down by the professional trade association for electrical equipment and devices need to be observed

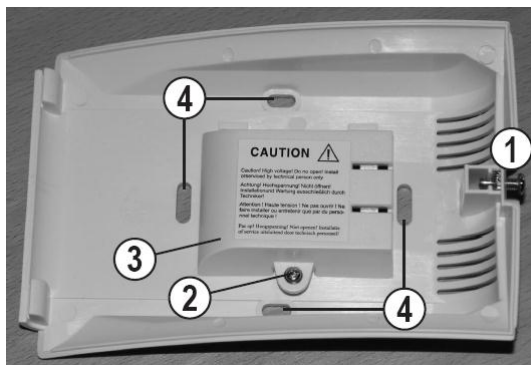
5. Installation



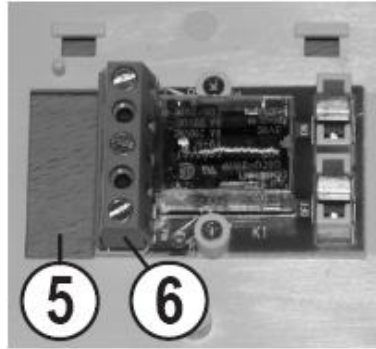
Mount the room thermostat on stable surfaces only. Use the screws or dowels appropriate for the surface: The product must be operated stationarily installed. The room thermostat must be voltage-free during installation.

To ensure that the room thermostat works properly, do not mount it close to radiators, electrical devices or windows. Also avoid direct sunlight.

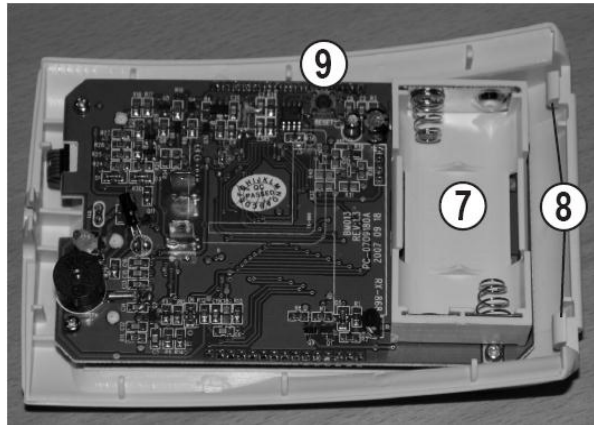
1. Screw for casing closure
2. Screw for protective cover
3. Protective cover
4. Apertures for wall-mounting



5. Opening for connection cable
6. Screw terminal (NC/COM/NO)



7. Battery compartment
8. Catches in the upper part of the casing
9. „Reset“ button



For installation do the following steps:

- Unscrew the screw (1) on the right side
- Remove the upper casing
- Insert two type AA/mignon batteries in the battery compartment (7) with the correct polarity. **IN CASE OF DAMAGE CAUSED BY NON-COMPLIANCE WITH THESE SAFETY**

INSTRUCTIONS, THE WARRANTY/GUARANTEE WILL BECOME VOID.

- Remove the screw (2) – **only wire-thermostat**
- Remove the protective cover (3) – **only wire-thermostat**
- Connect the power supply to the screw terminals (6) – **only wire-thermostat**
 - Connect contact No.19 of the boiler-electronics to COM on the room-thermostat
 - Connect contact No.18 of the boiler-electronics to NO on the room-thermostat
- Connecting the receiver of the **wireless room-thermostat:**
 - Connect the brown wire to contact No.19 of the boiler-electronics
 - Connect the blue wire to contact No.21 of the boiler-electronics
 - Connect the green-yellow wire to contact No.18 of the boiler-electronics
- Replace the protective cover (3) again – **only wire-thermostat**
- Secure the protective cover with the screw (2) – **only wire-thermostat**
- Use the fastening apertures (4) to screw the room thermostat to the wall
- Close the casing and retighten the screw (1) turned out in the beginning.

6. Factory settings

The room thermostat is set up with the following factory settings:

Monday - Sunday

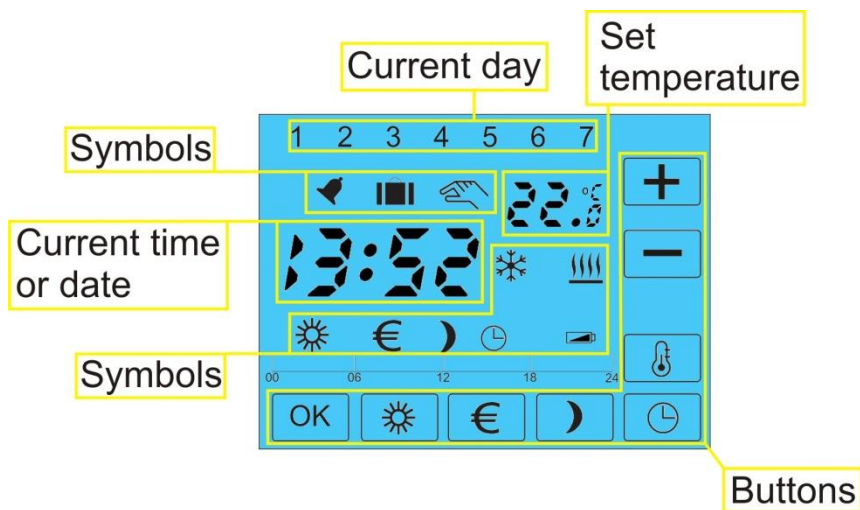
Duration of daily regimen _____ **6:00 – 23:00**

Duration of night regimen _____ **23:00 – 6:00**

Daily temperature _____ **23°C**

















Night temperature _____ **18°C**

7. Markings on the display






8. Setting the time

Podšavanje vremena i datuma se vrši na slijedeći način:

- Press the  button. The year flashes.
- Set it with the buttons  and 
- Press the  button. The month flashes.
- Set the month with the  and  buttons
- Press the  button. The date flashes.
- Set the date with the  and  buttons
- Press the  button. The hours of the current time flash.
- Set the hours with the  and  buttons
- Press the  button. The minutes of the current time flash.
- Set the minutes with the  and  buttons
- Press  to store the settings. The device leaves the setting mode.

9. Selecting Heating and Cooling Modes

- Press the  button. The year flashes
- Press  repeatedly to switch between heating mode (display „HEAT“) and cooling mode (display „COOL“)
- Briefly press  to confirm the settings. The device leaves the setting mode.



Heating mode: The relay is activated if the measured temperature falls **below** a set temperature threshold. The display shows



Cooling mode: The relay is activated if the measured temperature rises **above** a set temperature threshold. The display shows




10. Programming setup

There are three different programs:

- **Daily program**

In this program the regime is set up day by day:

- Hold down the button for 5 seconds
- A weekday or one of the day blocks starts flashing
 - 1 = Monday, 2 = Tuesday, 3 = Wednesday, 4 = Thursday, 5 = Friday, 6 = Saturday, 7 = Sunday
- Select the desired weekday or day block with the and buttons
- Confirm the selection with
- Now the time display 0:00 and the first point column in the bar display for the temperature curve flash

- Now set the desired period for the selected temperature value with **+** and **-** (in steps of 30 minutes)
- Normal temperature value 
- Temperature value for night reduction 
- Temperature value for economic operation 

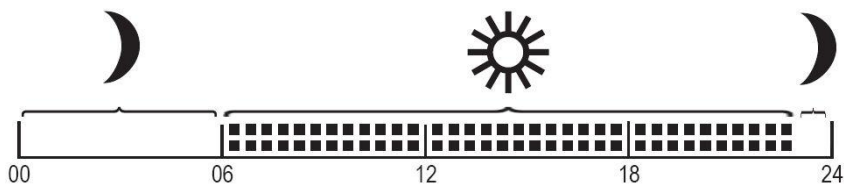


For these settings use chapter 12.

Settin the control temperatures

- Za memorisanje podešenja pritisnite tipku **OK**

Example:













00:00 – 06:00 Night control temperature (18 °C)

06:00 – 23:00 Daily control temperature (23 °C)

23:00 – 00:00 Night control temperature (18 °C)

Follow the next steps to program the room thermostat like shown above:





1. Hold down the  button for 5 seconds






2. Set the day with the  and  buttons
3. Press the  button
4. On the display flashes 0:00
5. Press the  button
6. Press the  button until 6:00 is displayed
7. Press the  button
8. Press the  button until 23:00 is displayed
9. Press the  button
10. Press the  button until 0:00 is displayed
11. Press the  button

If you don't press anything for longer than 15 seconds, the device will leave the programming mode.

▪ Program 5/2

In this regime the program is set up in two blocks. The first block for Monday – Friday and the second for Saturday - Sunday

- Hold down the  button for 5 seconds
- A weekday or one of the day blocks starts flashing
- Select the dayblock (1-5 for Monday - Friday, 6-7 for Saturday - Sunday) by pressing the  and  buttons
- Press the  button

- Now the time display 0:00 and the first point column in the bar display for the temperature curve flash
- Now set the desired period for the selected temperature value with  and  (in steps of 30 minutes)
- Normal temperature value 
- Temperature value for night reduction 
- Temperature value for economic operation 

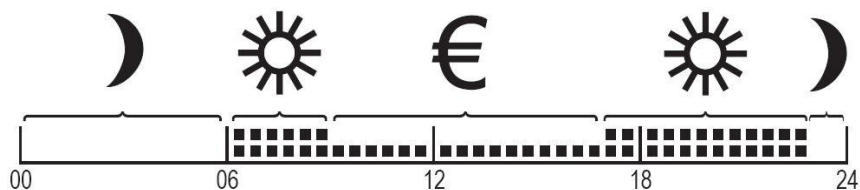


For these settings use chapter 12.

Settin the control temperatures

Example:

Monday - Friday



00:00 – 06:00 Night control temperature (18 °C)
















06:00 – 09:00 Daily control temperature (23 °C)

09:00 – 17:00 Economic control temperature (15 °C)

17:00 – 23:00 Daily control temperature (23 °C)

23:00 – 00:00 Night control temperature (18 °C)

Follow the next steps to program the room thermostat like shown above:

1. Press and hold the  button for 5 seconds
2. Set the dayblock (1, 2, 3, 4, 5) with the  and  buttons
3. Press the  button
4. On the display flashes 0:00
5. Press the  button
6. Press the  button until 6:00 is displayed
7. Press the  button
8. Press the  button until 9:00 is displayed
9. Press the  button
10. Press the  button until 17:00 is displayed
11. Press the  button
12. Press the  button until 23:00 is displayed
13. Press the  button
14. Press the  button until 0:00 is displayed
15. Press the  button

If you don't press anything for longer than 15 seconds, the device will leave the programming mode.



- **Weekly program**

In this program one regime is set up for the whole week.






11. Manual temperature setting

In manual mode  is displayed.

If you want to set up a duration time, a  is displayed.













Every confirmation is done by pressing the  button. By pressing the  button again, the room thermostat returns to normal regime.

11.1. Manual temperature setting

- Set the desired temperature manually with  and 
-  is displayed
- Press the  button once
- To go back to normal regime, press the  button again


11.2. Retain manual temperature



To set up a retain manual temperature do the following steps:

- Set up the desired temperatures with the  and  buttons
- Press the  button once
 - Use  and  to set the number of hours for which the manual temperature setting is to apply (you can set 1 – 24 hours)
 - Confirm the setting with  or
- Press the  button again to set the number of days
 - Use  and  to set the number of days for which the manual temperature setting is to apply (you can set 1 – 99 days)
 - Confirm the setting with the  button or
- Press the  button to hold the manual temperature without limitation
- If you want to quit the manual mode, press the  button














12. Temperature settings

Three control temperatures are available for temperature monitoring of the room thermostat:

-  - Normal temperature value


-  - Temperature value for energy saving
-  - Temperature value for night reduction


Proceed as follows to set the 3 temperatures:


- Press the  button and the symbol  flashes
 - To set the normal temperature value use the  and  buttons
- Press the  button and the symbol  flashes
 - To set the temperature value for energy saving use the  and  buttons
- Press the  button and the symbol  flashes
 - To set the temperature value for night temperature reduction use the  and  buttons
- Briefly press the  button to confirm the settings. The device leaves the setting mode.


If you don't press anything for longer than 15 seconds, the device will leave the programming mode.


13. Selecting mode of operation


Press  repeatedly to either activate automatic operation or set the room thermostat to maintain one of the temperature values.

Symbol  is displayed above the bar display – normal temperature value is active.




Symbol  is displayed above the bar display – temperature value for economic operation is active.










Symbol  is displayed above the bar display – temperature value for night temperature reduction is active.

The symbol  is displayed above the bar display, as well as the symbol for the current temperature value. The room thermostat now controls the room temperature depending on the temperature curve programmed by you.

The  symbol appears to the right of the time/temperature display – frost protection (this function is only available if the room thermostat is in heating mode)




14. Alarm/Wake-up function

- Keep the  button pressed for 5 seconds
- „AL“ appears at the top of the display
- Press the  button
- The pre-set alarm/wake-up time appears (e.g. 0:00) together with the symbol 


- Select the day block on which the wake-up sounds is to be output with the buttons  and 
- Press the  button
- The hours of the alarm/wake-up time flash
- Set the hours with the  and  buttons
- Press the  button
- The minutes of the alarm/wake-up time flash
- Set the minutes with the  and  buttons
- Confirm the setting with 


If you don't press anything for longer than 15 seconds, the device will leave the programming mode.

To deactivate the alarm/wake-up function do as follows:


- Press and hold the  button for 5 seconds
- Press the  button
- Press the  button

15.Key lock

To activate the key lock, keep the button  pressed for approx. 5 seconds, until all button symbols disappear from the display.

To deactivate the key lock again, keep the button  pressed again for approx. 5 seconds, until all button symbols appear again on the display.

16. Notes on batteries

When the  symbol shows up on the display, you need to exchange the batteries. **Please observe the correct polarity (positive/+ and negative/-).**

17. Maintenance and cleaning



To clean the outside of the room thermostat, a dry, soft and clean cloth is sufficient. Do not press too hard on the display, as this may cause scratch marks or lead to faulty displays or even broken screen. Dust on the casing can easily be removed with a clean brush and a vacuum cleaner. Never use any aggressive cleaning agents or other chemical solvents since this may damage the surface of the casing or even impair operation.

18. Disposal of batteries and rechargeable batteries

You as the end user are required by law (Battery Ordinance) to return all used batteries/ rechargeable batteries. Disposing of them in the household waste is prohibited!



Batteries/rechargeable batteries that include hazardous substances are labelled with these icons to indicate that disposal in domestic waste is forbidden. The descriptions for the respective heavy metal are: Cd=cadmium, Hg=mercury, Pb=lead (the names are indicated on the battery/rechargeable batteries free of charge at the official collection points of your community, on our stores, or wherever batteries/rechargeable batteries are sold!

Sa ovim će te ispuniti svoje građanske dužnosti u zaštiti okoline.

19. Technical data

Operating voltage.....3 V/DC, 2 pcs AA/Mignon batteries

Operating temperature.....+5 °C do +37 °C

Display range.....+3 °C do +37 °C (below +3 °C, the display shows „LO“, above +37 °C, the display shows „HI“)

Switching hysteresis.....+/- 0,2 °C

Dimensions (W x H x D).....ca. 130 x 88 x 38 mm

Weight.....ca. 185 g