



# ROOM THERMOSTAT KONVEKA TW24

INSTALLATION  
AND USER GUIDE



## PRODUCT OVERVIEW

Konveka TW24 is dedicated for regulating the heating and/or cooling in one zone (room) of a building. This enables the setting of a specific temperature within the zone and allows for the creation of a weekly time-temperature schedule, delivering enhanced comfort and significant energy savings.

It can control:

- convectors, fan coils or other heating – cooling devices with 0-10V speed control fans.
- Heating - cooling devices or manifolds with 24VDC actuators.

The thermostat can be controlled by smartphone using mobile applications: Smart Life or Tuya Smart.

## TECHNICAL SPECIFICATIONS

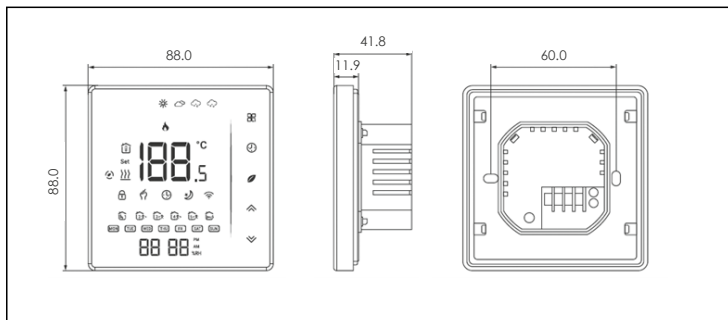
Power supply	95 ~240 VAC, 50~60Hz
Current load	Fan Relay Resistance: 5A; Inductive: 3A Valve Relay Resistance: 3A; Inductive: 1A
Sensor	NTC3950, 10K
Accuracy	$\pm 0,5^{\circ}\text{C}$
Power consumption	< 1,5W
Set temperature range	5 - 35°C
Ambient temperature	0 - 45°C
Ambient and storage humidity	5 - 95% RH (Non-condensing)
Storage temperature	-10 to 45°C

Shell material	PC + ABS (Fireproof)
Protection class	IP20
Buttons	Capacitive Touch Buttons
Dimensions	88 x 88 x 41,8 mm

## STANDARD SET

Thermostat	1 pc.
Floor sensor	1 pc.
Screws	2 pc.
User Guide	1 pc.

## DIMENSIONS

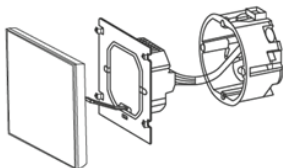


## INSTALLATION

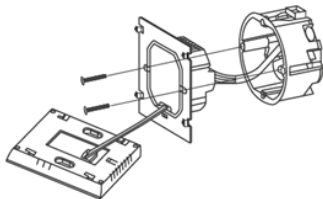
Thermostat is suitable for installation in standard 86 x 86 mm square box or 60 mm European round box. Only shielded cables can be used for all connections of this thermostat.



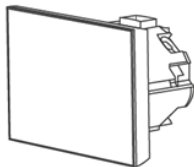
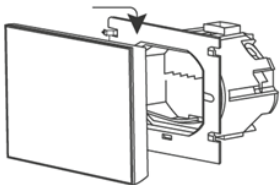
Installation or maintenance work on the thermostat must only be undertaken after disconnecting the power cables! Contacts with live power cables could result in serious injury or even death! All installation and wiring work must be performed by a professional electrician!



1. Connect power supply and control wires



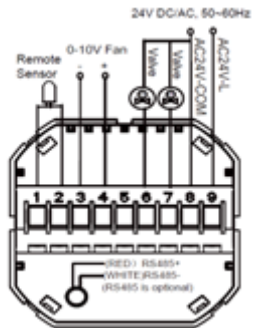
2. Using enclosed screws connect the thermostat to el. installation box



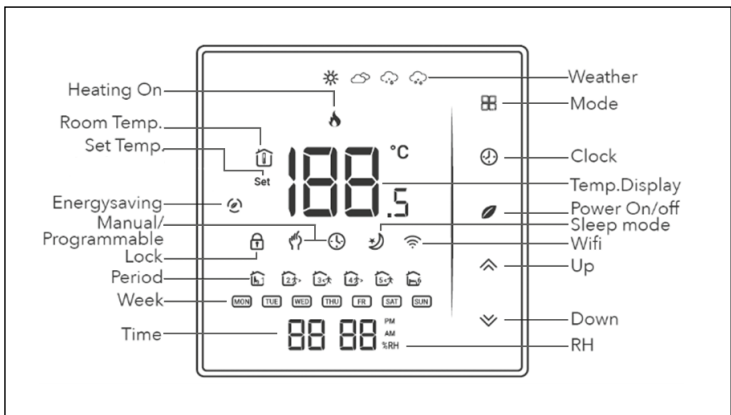
3. Place the front panel of the thermostat against the housing and press it down

4. The thermostat is set

## WIRING



## THERMOSTAT CONTROL






**1. Power on/off.** Press  to turn thermostat on/off.

### 2. Manual and Programmable settings

Press and hold ,  will flash. Press  to select manual and press  to select weekly programmable.


### 3. Setting the temperature

In the mode of manual, press   to set temperature.  will display in below the middle of the screen.






#### 4. Selecting System Mode

Press  to change the system mode HEATING, COOLING and VENTILATION. In the mode of VENTILATION, the valve is off but the fan runs.


#### 5. Setting the Fan Speed

Press  go to select the fan speed AUTO, HIGH, MED, LOW.

#### 6. Set Clock




Press and hold ,  will flash. Press  to set minute, hour and weekday by using the   arrows, after 3 seconds the value will be confirmed automatically.




#### 7. Locking the thermostat

Press and hold   for 5 seconds to lock/unlock your thermostat. In Function selection mode No. 3, it is possible to select full lock or half lock.



#### 8. Setting weekly programs in programmable mode

Press , to select programmable mode.

Then press  to change the different items. Press  or  to set the relative values.

Thermostat provides six scheduled heating and cooling periods each day – three Comfort periods – 1, 3 and 5 (the temperature required when room is occupied) and three Economy periods – 2, 4 and 6 (the temperature required when room is unoccupied). You can set both: the time and the temperature, for each of these six daily periods. Adjusting/setting the schedules can only be carried out when in program mode. Touch  to change between manual mode and programmable mode. In manual mode  will show in the bottom left of the screen. Touch the icon  for four times until the weekday schedule settings appear (1 2 3 4 5 will show along the top of the screen).




Use   arrows to adjust the time for the 1st (Comfort) period. Press the icon  and use   arrows to set the temperature for the 1st period. Repeat this

process for periods 2 – 6. Press the icon  once more to enter the weekend schedule settings (6 and 7 will show along the top of the screen). Repeat the above process to set the weekend schedule. Press  once more to confirm and exit.

## Default settings for program schedule

Time display	Weekday (1 2 3 4 5)		Saturday (6)		Sunday (7)	
	Time	Temp.	Time	Temp.	Time	Temp.
Period 1	06:00	20°C	06:00	20°C	06:00	20°C
Period 2	08:00	15°C	08:00	20°C	08:00	20°C
Period 3	11:30	15°C	11:30	20°C	11:30	20°C
Period 4	13:30	15°C	13:30	20°C	13:30	20°C
Period 5	17:00	22°C	17:00	20°C	17:00	20°C
Period 6	22:00	15°C	22:00	15°C	22:00	15°C

## 9. Function selection

During power off hold  and  at the same time for 5 seconds in order to reach system function. Then press  to change the different items. All settings will confirm automatically when power is on.

Code	Function	Setting and Options	Default
1	Temperature compensation	-9 to 9 °C for internal sensor	-3
2	Fan control	00: When room temp. reaches the set point, the fan will turn off 01: When room temp. reaches the set point, the fan will keep low speed running	00
3	Button locking	00: All bottoms are locked except power button 01: All bottoms are locked	01



4	Mode Select Custom	00: Cooling / Ventilation 01: Cooling / Heating / Ventilation		01
5	Min Set Temperature	5 to 15°C		5
6	Max Set Temperature	15 to 45°C		35
7	12/24 hours	00: 12h 01: 24h		01
8	Display mode	00: Display both set temperature and room temperature 01: Display set temperature only		00
9	Energy saving mode	00: ON 01: OFF		00
10	Heating Energy saving temperature	10 to 30°C		20
11	Cooling Energy saving temperature	10 to 30°C		26
12	Daytime display brightness	0-8	When set to 0, the device will run for 10 seconds after inactivity. The screen will go completely off with no display.	6
13	Nighttime display brightness	0-8		3
14	Fan low speed voltage	0-10V		2
15	Fan medium speed voltage	0-10V		5
16	Fan high speed voltage	0-10V		10
17	Cooling mode	0-6	When the thermostat is connected to an external sensor, set item 21 to 0, and the temperature difference between the temperature detected by the external sensor and the room temperature is used as the condition for the fan to be turned on. <b>Cooling mode:</b> if pipe temperature is lower or higher less than by 3°C than set temperature, fan will not operate. If the pipe temperature is more than 3°C lower than the set temperature, the fan will start working.	3

18	Heating mode	0-6	<p><b>Heating mode:</b> if pipe temperature is lower or higher less than by 3°C than set temperature, fan will not operate.</p> <p>If the pipe temperature is more than 3°C higher than the set temperature, the fan will start working.</p> <p>This setup ensures that the fan only operates when there is a significant temperature difference between the water pipe and the set temperature, which helps to prevent fan for idle operating.</p>	3
19	Modbus IP address	1-225		1
20	Baud rate	1: 9600 2: 19200 3: 38400 4: 57600 5: 115200		1
21	2-pipe or 4-pipe	0: 4-pipe 1: 2-pipe		0
22	External sensor function selection	00: Restrict fan operation, see item 16 01: Detect room temperature, test internal sensor is invalid		1
23	Version number			U7

## WI-FI CONNECTION

Before using your Wi-Fi thermostat for the first time, you must configure the Wi-Fi signal and settings through your smartphone or tablet.

This will allow communication between your connected devices. Search for "Smart Life App" or "Tuya Smart App" in Apple Store or Google Play.



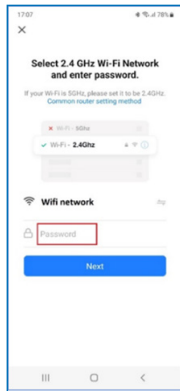
Open the app.



Select  
„Add Device“



In the left menu select  
„Small Home  
Appliances“, In the right  
menu select  
„Thermostat (Wi-Fi)“



Select Wi-Fi network, enter  
password and select **“Next”**.  
If your network is working on  
5 GHz, you must switch to 2.4  
GHz. If you don't know how  
to do it, please consult your  
network provider

Switch off the thermostat, push and hold  until blinking  icon will appear.



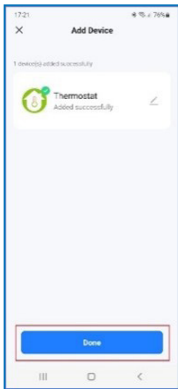
Select  
"Confirm the  
indicator is  
blinking"



Select the same  
blinking speed  
as on your  
thermostat



Select  
"Go to Connect"  
and connect to your  
network



Wait for 1 – 2 min.,  
Until device will  
be added. Select  
"Done"

## WARRANTY

The thermostat comes with a 24-month warranty. If the thermostat breaks down either during the warranty period or afterwards, or if you have any uncertainties, please contact us:

### Telephone number

+370 677 06303

+370 600 05968

### Email

sales@konveka.lt

donatas@konveka.lt