

HMI WIFI programmable controller - user guide



Welcome

Thank you very much for purchasing HMI WIFI controller. Please read and keep this manual for future reference of users and operators. If you require further assistance, please contact directly with Reventon Group Sp. z o.o.

In the box you will find

- programmable controller HMI
- user guide
- external sensor NTC
- screws (2 pieces)

Service

We offer the warranty of 24 months from the sales day. Please become acquainted with the Warranty Terms on the website <http://www.reventongroup.eu/en/complaints>.

Technical data

Sensor: NTC 10k Accuracy: $\pm 0.5^{\circ}\text{C}$
 Temp. range: 5 - 35°C Power consumption: < 1.5 W
 Timing error: < 1%
 Power supply: 95~240 VAC, 50~60 Hz
 Maximal current load: 5A (for fan); 3A (for valve)
 Shell material: PC + ABS (fireproof)
 Dimensions: 88 x 88 x 42 mm
 Operation/storage conditions: $t = 0 - 45^{\circ}\text{C}$, $\varphi = 5-95\%$
 Degree of protection: housing - IP20; external sensor - IP68

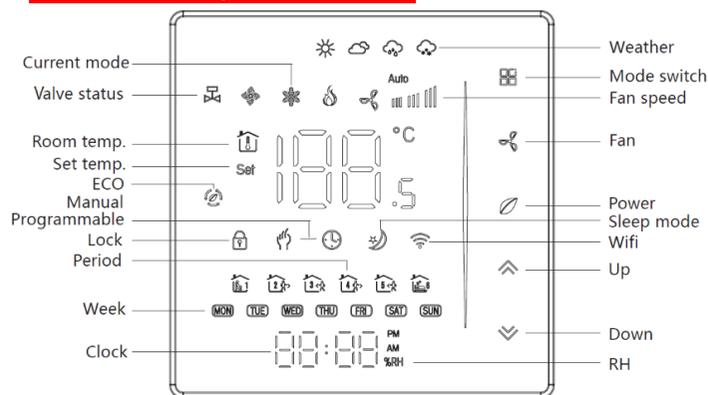
About device

HMI WIFI is designed to on/off control the 3-stage fans operation via comparison of the room temperature and setting temperature. It also enables controlling of on/off valve. It can work in heating, cooling or ventilation mode. The item is microprocessor based device with LED display.

Features of the controller

- 86 mm hidden box and European 60 mm round box are suitable
- LED matrix light, simple display, energy saving, protecting eyes
- Touch buttons to make simple operation
- The visible thickness above the wall is only 12 mm

Home screen quick reference



Operation

- Power On/off:** Press to turn the thermostat on/off.
- Manual & Programable mode**
Press and hold , until will flash. Press to select manual or press to select weekly programmable mode.
- Setting Temperature**
In the manual mode, press or to set temperature. The manual mode is signalised by icon on the screen.
- Locking your Thermostat**
Press simultaneously and hold for 5 seconds to lock/unlock your thermostat. See point 9 for setting of full lock or half lock.
- 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.
- Setting the Fan Speed**
Press go to select the fan speed AUTO, HIGH, MED, LOW.
- Set Clock**
Press and hold , until will flash. Press to set minute, hour and weekday. By using and , after 3 seconds the value will be confirmed automatically.
- Adjusting the Weekly Program**
After setting the clock, press to adjust the program. Then press again to start to set the subsequent periods. Press or to set the starting time of period and set temperature for it.

There could be set six periods for weekdays (MONDAY-FRIDAY) and separate periods for SATURDAY and SUNDAY.

After setting the schedule, confirm it by pressing again.

Default settings are following:

Time display	MONDAY – FRIDAY (1 2 3 4 5 on screen)		SATURDAY (6 on screen)		SUNDAY (7 on screen)	
	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. Setting functions and options

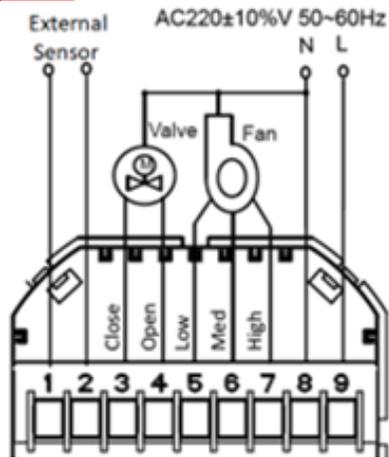
When power is off, press and hold and at the same time for 5 sec. to go to system functions. Then press to change the different items. Press or to set the relative values according to the table below.

No.	Function	Settings & Options	Default
1	Temp. compensation	-9 - 9°C	-3°C*
2	Fan control	00: When room temp. reaches the setpoint, the fan will turn off 01: When room temp. reaches the setpoint, the fan will keep low speed running	0
3	Button Locking	00: All buttons except Power are locked 01: All buttons are locked	1
4	Mode Select Custom	00: Cooling / Ventilation 01: Cooling / Heating / Ventilation	1
5	Min. set. temp.	5 - 15°C	5°C
6	Max. set. temp.	15 - 45°C	35°C
7	12 / 24 hours	00: 12 h; 01: 24 h	1
8	Display mode	00: Display both set and room temp. 01: Display set temp. only	0
9	Energy-saving mode**	00: Energy saving mode 01: Non-energy saving mode	0
A	Heating energy-saving temperature	10 - 30°C	20°C
B	Cooling energy-saving temperature	10 - 30°C	26°C
C	Brightness (6:00-22:00)	0-8	1
D	Brightness (22:00-6:00)	0-8	0
E	Deadzone temp.	1 - 5°C	1
F	Version number		U3

* when you using external sensor change the value to 0°C

** when active, the set temperature is equal the value set in A or B (depending on the current mode)

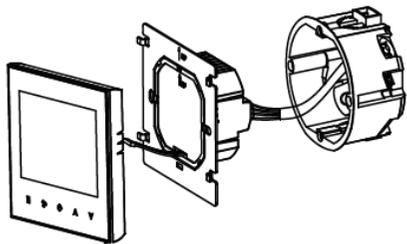
Wiring diagram



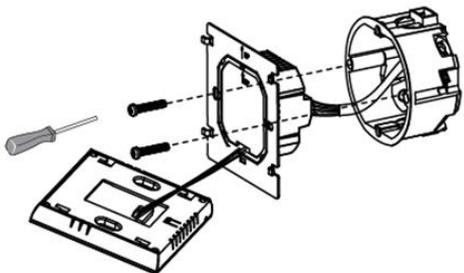
Installing

This product is suitable for box 86 x 86 mm or Ø 60 mm.

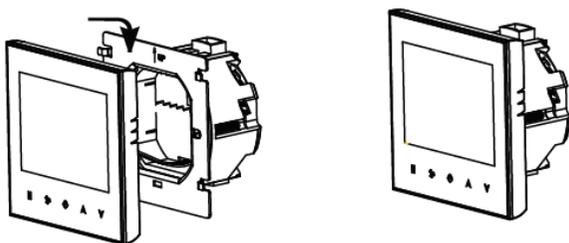
1. Connect the wires into the terminals.



2. Fix the wall plate into the wall box by a screwdriver.



3. Connect the LCD board into the wall plate.



⚠ WARNING: Please arrange the professional technician to install this product according to installation drawing and instruction.

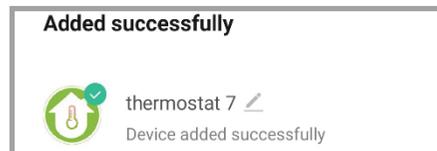
RISK OF ELECTRICAL SHOCK: Disconnect power supply before making electrical connection. Contact with components carrying hazardous voltage can cause electrical shock and may result in severe personal injury or death.

WiFi communication

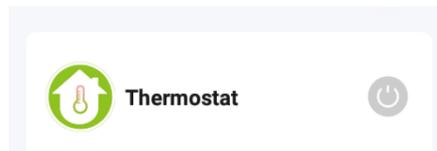
1. Download, install, register and log it to 'Smartlife' app (app icon shown on the left below). For download, you can also use the below QR code.



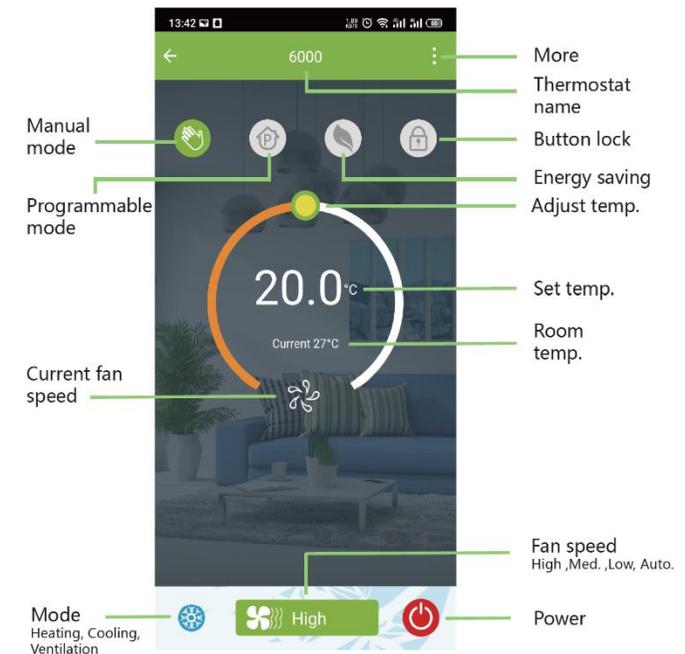
2. Connect the controller:
 - a) In the app, click '+' icon in the app, accept the permission for localisation sharing and choose the proper type of item i. e. SMALL HOME APPLIANCIES / THERMOSTAT (WIFI).
 - b) Then choose the appropriate wifi net, type the password and choose next.
 - c) On the screen is written 'Reset the device first'. To do this, turn on HMI WIFI and press and hold until the icon displays and blinks quickly. Then you can choose in app 'Confirm the indicator is blinking' and 'Blink quickly'.
 - d) After about 2 minutes, the item should be added successfully, what will be confirmed by the text:



3. Controlling: Each added HMI WIFI would display on the main screen of app like it is shown below.



You can choose it to go into the controlling interface of the controller. The interface is quite intuitive, its main functions are listed in the next column.



Under the 'More', you can find the following:

