

Wireless RF Room Thermostat



**Operating Instructions
English Language**

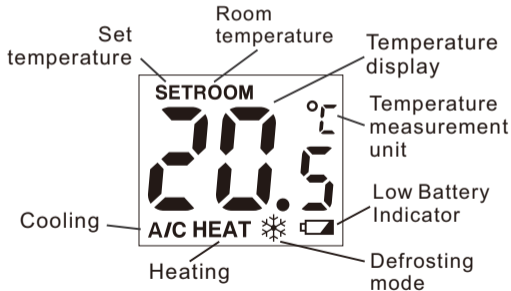
GENERAL DESCRIPTION OF THE THERMOSTAT

This type switched-mode room thermostat is suitable to regulate the overwhelming majority of boilers available in Europe. It can easily be connected to any gas boiler or air conditioning device that has a double wire connector for a room thermostat, regardless of whether it has a 24 V or 230 V control circuit.

Temperature can be measured more precisely as compared to simple, conventional thermostats. In accordance with the selected switching sensitivity, the thermostat will switch the boiler or any other appliances on and off below and above the adjusted temperature, respectively, and contributes to reduce energy costs while maintaining comfort.

The switching sensitivity of the thermostat is $\pm 0.1^{\circ}\text{C}$ ($\pm 0.2^{\circ}\text{C}$). This means the difference between the adjusted temperature and the actual temperature measured during the switching process. For example, if the factory default setting is 20°C on the thermostat, then the device switches the boiler on at 19.8°C or below, and switches it off at 20.2°C or above.

The information shown on the liquid crystal display of the thermostat includes the following:



1. LOCATION OF THE DEVICE

It is reasonable to locate it in a room used regularly or for many hours per day so that it is in the direction of natural ventilation in the room but protected from draught or extreme heat (e.g. direct sunlight, refrigerator, chimney, etc). Its optimal location is 1.5 m above floor level.

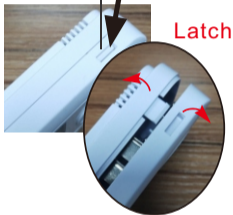
IMPORTANT WARNING!

If the radiator valves in your flat are equipped with a thermostatic head, replace the thermostatic head of the radiator valve with manual control knob or adjust it to maximum temperature in the room where the room thermostat is to be located, otherwise the thermostatic head may disturb the temperature control of the flat.

2. INSTALLATION OF THE THERMOSTAT

- To install the thermostat, Remove the rear panel of the thermostat from the front panel using a screwdriver as shown.
- With the help of the screws provided and some tools fasten the rear panel of the device to the wall.
- Using a small screwdriver, remove the cover of the terminal block from the inner side of the rear panel.

Vertical angle:
30 - 45°



Attention! The device must be installed and connected by a qualified professional. Always follow the manufacturer's instructions when connecting the thermostat to any heating or cooling appliance. The voltage appearing at terminal No. 1, No. 2 or No. 3 depends only on the system being controlled, therefore the dimensions of the wire are determined by the type of the device to be controlled. The length of the wire is of no significance.



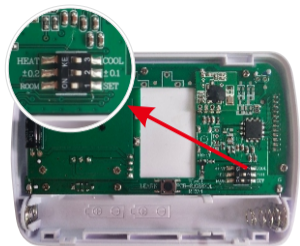
3. PUTTING THE THERMOSTAT INTO OPERATION

To put the thermostat into operation, Remove the rear panel of the thermostat from the front panel as shown

The battery compartment is on the inside of the front panel of the case. Insert 2 AA alkaline batteries (TYPE LR6) into the battery compartment as shown. After inserting the battery, the display flashes to measure the room temperature

4. Coding switch selection

After removing the rear panel of the device, desired Settings can be obtained by changing the coded switch on the PCB board.



The heating mode	HEAT	COOL	The Cooling mode
Temperature sensitivity of operating switch $\pm 0.2^{\circ}\text{C}$	$\pm 0.2^{\circ}\text{C}$	$\pm 0.1^{\circ}\text{C}$	Temperature sensitivity of operating switch $\pm 0.1^{\circ}\text{C}$
The LCD displays only the environment temperature	ROOM	SET	On the LCD, room temperature and setting temperature are displayed alternately.

5. SETTING THE DESIRED TEMPERATURE

When the factory default temperature is set to 20°C and the factory default temperature is set to 20°C, the temperature of the thermostat switch on the connected heating device is lower than 19.8°C (connecting terminals 1 and 2) and higher than 20.2°C (disconnected terminals 1 and 2) under the switch sensitivity ($\pm 0.2^\circ\text{C}$).

Adjust the knob, the display screen at the upper left corner will appear "SET" (adjust the temperature) prompt, the back is bright, (SET the temperature on the display gray), adjust the knob can be adjusted to 5-35°C.

- Approximately 5 seconds after setting the room temperature to be maintained, the device automatically switches to normal mode. The notice "**SET**" disappears from the bottom right corner of the display, and once again the current room temperature is displayed.

6. Heating Mode

According to the change in room temperature and temperature setting, the device controls (switches on or off) the boiler or any other heating equipment connected to the appliance. When activated, the normally open contact pairs, i.e. No. 1 (NO) and No. 2 (COM), of the relay of the device clamp shut, and, as a consequence, the appliance connected to the thermostat is switched on. The appearance of the notice “**HEAT**” in the bottom left corner of the display indicates that the device is activated.

7. Cooling mode

According to changes in room temperature and temperature setting, the equipment control (switch) is connected to the refrigeration equipment. When activated, the normally open contact pairs of the device clamp relay, i.e., No. 1 and No. 2 (COM), are closed, so that the appliance connected to the thermostat is on. The appearance of the "A/C" notification below indicates that the device is activated.



8. Comfortable temperature and economical temperature setting

Switch to  the run comfortable setting temperature (20°C by default)

Switch to  the run Economic setting temperature (18°C by default)



9. BATTERY REPLACEMENT

The average lifetime of the batteries is 1 year. The “” It is displayed on the LCD, Replace the batteries whenever the “” icon indicating low battery voltage appears on the display. After battery replacement, the desired temperature should be adjusted again, because during the battery replacement the thermostat is reset to factory default settings.

10. Receiver Operation (By press MANUAL to switch the receiver operation mode)

1. Manual mode: Press MANUAL once, the green light will be on (Manual mode), press M/A can control the Relay ON/OFF (ON: red lights on, OFF: red lights off).
2. AUTO mode: Press MANUAL again, the green light will be off (Auto mode), the ON/OFF will be controlled by the transmitter.

11. LEARN CODE

1. Under the AUTO running mode, press MIA on the receiver for 10 secs to enter this mode, the green light will be flashing.
2. Remove the back cover of the transmitter, hold the LEARN button on the PCB board for 3 secs, the receiver green light stops flashing when it received the signals. Then the thermostats is paired and the transmitter can control ON/OFF to the receiver now.

12. ON/OFF button on the receiver

O: OFF

When there is no need to use the thermostat for some seasons, the users can just turn OFF (by the left side of the receiver) the power of the receiver and does not need to move off the front case;

|: ON

The receiver is normal operating.

TECHNICAL DATA

— switchable voltage:	24 V AC / DC,...230 V AC; 50 Hz
— switchable current:	6 A (2 A inductive load)
— temperature measurement range:	0 to 40°C (in 0.1°C increments)
— adjustable temperature range:	5 to 35°C (in 0.5°C increments)
— temperature measurement accuracy:	±0.5°C
— selectable switching sensitivity:	±0.1°C / ±0.2°C
— storage temperature:	-10°C to +60°C
— power supply voltage:	2x1.5 VAA alkaline batteries (LR6 type)
— power consumption:	1.5 mW
— battery lifetime:	approx. 1 year
— dimensions:	119 x 80 x 31 mm
— weight:	121 g
— temperature sensor type:	NTC 10 kΩ ±1% at 25°C
— operating frequency:	868.35MHz

This type thermostat complies with the requirements of EU standards.

Radio Equipment Directive 2014/53/EU
RoHS Directive 2011/65/EU

