R102 TOUCH ROOM THERMOSTAT

EN Operating Manual

Safety Instructions

WARNING

Risk of electric shock!

Connection and mounting must be carried out by a professional electrician!

Note
1.The national regulations and safety instructions.
2.Interferences and changes to the device will invalidate the warranty and guarantee rights.
3.The device must only be used for the described purpose.

Read and observe these instructions to guarantee optimum function of the device and a safe operation.

Description of the Device

The R102 room thermostat allows you a practical heat regulation, saves energy and the desired room temperature can be set easily.
1.Control of heating systems within a temperature range from +5℃ to +35℃
2.Automatic frost protection
3.Touch screen

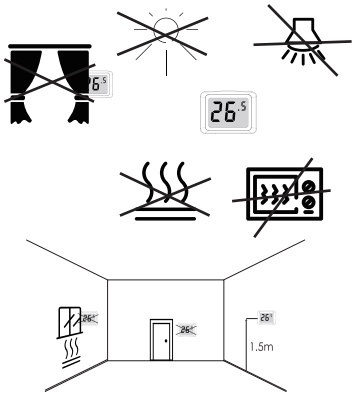
Designated Use

1.Surface mounted device which is mounted on walls.
2.Suitable for use in dry rooms only!

Technical Data

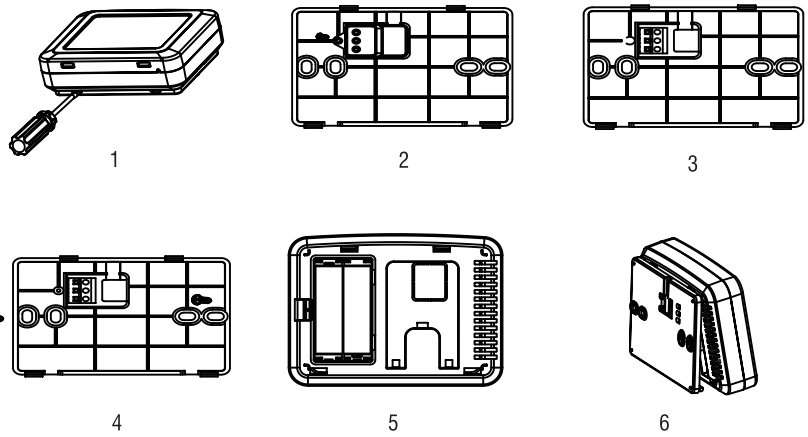
Dimensions H × W × D(㎜)	83.5×111×33.5
Power supply	2×1.5V LR06/AA
Protection class	II
Switching capacity	
- 0hmic load	max. 6 A / 250 V AC/50 Hz
- Inductive load	max. 2 A / 250 V AC/50 Hz
Switching output	potential-free
Function mode	Heating
Automatic frost protection	+5℃
Controlled temperature	+5℃...+35℃
Temperature meas. range	+0℃...+50℃
Ambient temperature	−5℃...+45℃
Accuracy	±1℃ for +20℃
Resolution	0.5℃
Protection degree	IP 30

Installation and Mounting Illustrations

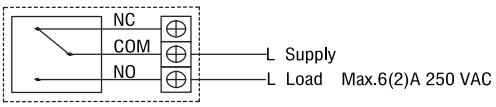


Installation

1. Remove the backplate: Insert a flat-bladed screwdriver into the two slots on the underside of the assembled product, and gently lever the backplate away from the thermostat.
2. Unscrew the relay housing and remove it.
3. Connect the wires according to the wiring diagram. Then mount the relay housing.
4. Fasten the backplate on the wall by means of the screws included in the delivery. See note i) overleaf
5. Insert the batteries(1.5 V AA LR06).
6. Re-assemble the thermostat to the backplate: place the slots at the top of the thermostat over the tabs on the backplate, and then gently rotate the thermostat to engage with the tabs at the bottom.



Wiring Diagram



Temperature Setting

The room temperature can be set by touching the display. See note ii) overleaf
1. Touch the display twice.
The background illumination of the display goes on and the temperature indication flashes.
2. Touch the left side of the display to reduce the temperature and the right side to increase the temperature. If you do not enter anything within 5 seconds, the set temperature is stored and the current temperature is shown again on the display.

Touch the display once in order to switch on the background illumination of the display for 5 seconds.

Battery Status Display

! If the batteries are empty, the symbol appears on the display.

If the battery change is carried out within a few minutes, the differential and the preset temperature remain stored.

Operating Modes

The room thermostat works continuously and regulates the set room temperature in the heating mode.

If the boiler is switched ON, the symbol appears in the display.

Configuration Setting

Enter into Configuration Setting by pressing and holding the right bottom corner (hidden SET button) for 5 seconds. Then press SET button sequentially to view and amend (if required) parameters noted below. 10 seconds after the last screen-touch input, the R102 will exit configuration setting, and your changes will be stored.

Display Symbols	Options Properties	Remark
01 (at the left bottom corner)	Inside sensor temperature correction	Range: -9 to+9 ℃ Press left or right side of the display for adjustment.
02 (at the left bottom corner)	Temperature differential	Range: 1-5 ℃ Press left or right side of the display for adjustment.

CE

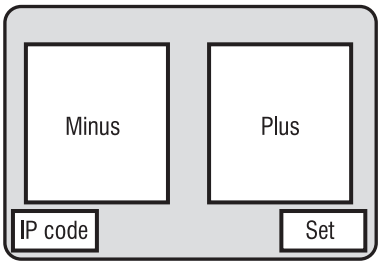
ERP Class I; 1% contribution to system energy efficiency

Notes

i) When installing on to a wall-box, a drilled blanking-plate will be required.

ii) The touch screen area is smaller than the total LCD screen area. See the diagram. The device saves battery power by putting the touchsrceen into a 'sleep' mode. To wake the device up, touch once, pause, then touch again.

Now touch left (minus) or right (plus) as required.



Touchscreen areas

The grey area is the LCD

What is a room thermostat?

... an explanation for householders

A room thermostat simply switches the heating system on and off as necessary. It works by sensing the air temperature, switching on the heating when the air temperature falls below the thermostat setting, and switching it off once this set temperature has been reached.

Turning a room thermostat to a higher setting will not make the room heat up any faster. How quickly the room heats up depends on the design of the heating system, for example, the size of boiler and radiators.
Neither does the setting affect how quickly the room cools down. Turning a room thermostat to a lower setting will result in the room being controlled at a lower temperature, and saves energy.

The heating system will not work if a time switch or programmer has switched it off.
The way to set and use your room thermostat is to find the lowest temperature setting that you are comfortable with, and then leave it alone to do its job. The best way to do this is to set the room thermostat to a low temperature – say 18 C – and then turn it up by one degree each day until you are comfortable with the temperature. You won't have to adjust the thermostat further. Any adjustment above this setting will waste energy and cost you more money.

If your heating system is a boiler with radiators, there will usually be only one room thermostat to control the whole house. But you can have different temperatures in individual rooms by installing thermostatic radiator valves (TRVs) on individual radiators. If you don't have TRVs, you should choose a temperature that is reasonable for the whole house. If you do have TRVs, you can choose a slightly higher setting to make sure that even the coldest room is comfortable, then prevent any overheating in other rooms by adjusting the TRVs.

Room thermostats need a free flow of air to sense the temperature, so they must not be covered by curtains or blocked by furniture. Nearby electric fires, televisions, wall or table lamps may prevent the thermostat from working properly.