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Wall Hung Boiler Room Thermostat
OR30 OT Thermostat

 BOSCH

Operating Instruction

Contents

1 Symbols and safety precautions

1.1 Key to symbols

Warnings

<table>
<tr>
<td>⚠</td>
<td>Warnings in this document are identified by a warning triangle printed against a grey background.
Keywords at the start of a warning indicate the type and seriousness of the ensuing risk if measures to prevent the risk are not taken.</td>
</tr>
</table>

The following keywords are defined and can be used in this document:
• **NOTICE** indicates a situation that could result in damage to property or equipment.
• **CAUTION** indicates a situation that could result in minor to medium injury.
• **WARNING** indicates a situation that could result in severe injury or death.
• **DANGER** indicates a situation that will result in severe injury or death.

Important information

<table>
<tr>
<td>ℹ</td>
<td>This symbol indicates important information where there is no risk to people or property.</td>
</tr>
</table>

Additional symbols

Symbol	Explanation
▶	Step in an action sequence
→	Cross-reference to another part of the document
•	List entry
–	List entry (second level)

Table 1

1.2 Safety instructions

General safety instructions

▶ Follow the manual to ensure complete functionality.
▶ Install and use heaters and other accessories according to the manual.
▶ Accessories only can be installed by authorized installer.
▶ The accessories must not be connected to power supply of 220~240V.
▶ Before installing the accessories:
  Interrupt power supply of heaters and other members of bus (220~240V AC).
▶ Please inform the working way of the accessories, and guide customers to operate.
▶ Heater is switched on when freezing danger occurs, and comply with anti-freezing tips.

Damage caused by operational errors

Operational errors may cause personal injury and/or property damage.

▶ Ensure that children should not operate and/or play with the equipment under unattended circumstances.
▶ Ensure that the equipment only can be touched by personnel who can operate the equipment correctly.
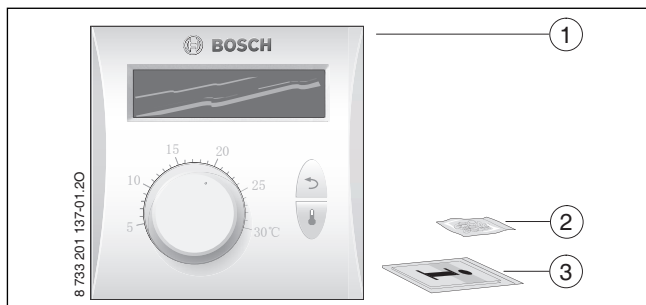
2 Delivery scope

Fig.. 1

[1] OT controller
[2] Installation package (screws…)
[3] Manual instruction

3 Product instruction

OR30 room thermostat has the advantages of easy operation and practicality.

3.1 Proper use

Please carefully read this manual before using, and operate according to requirements specified in the manual.

> **i** Error conditions please refer to error code introduction of wall hung boiler.

3.2 Technical parameters

Voltage	3V± 10%
Temperature range	5~30 ℃
Measure precision	± 1 ℃
Dimensions	86 × 86 × 28mm
Ambient temperature	-5 ℃~40 ℃
Load current	0.5A~125VAC 2A~30VDC
Material & Color	Ivory ABS

Table 2

3.3 Accessories

- Manual instruction
- Installation package
  - Screws*2
  - Anchors*2

3.4 Main functions and features

- Set temperature by knob
- Display current temperature
- Boiler working condition
- Memory function in case of power-down
- Fault display function
- Reset function for boiler fault
- Temperature correction
- Check the CH and DHW water temperature
- Set the parameter of CH and DHW water
- Control the flame so as to make the room temperature comfortable

3.5 Cleaning

▶ Use wet cleaning cloth to wipe the housing of controller. Must not use irritant or corrosive detergent.
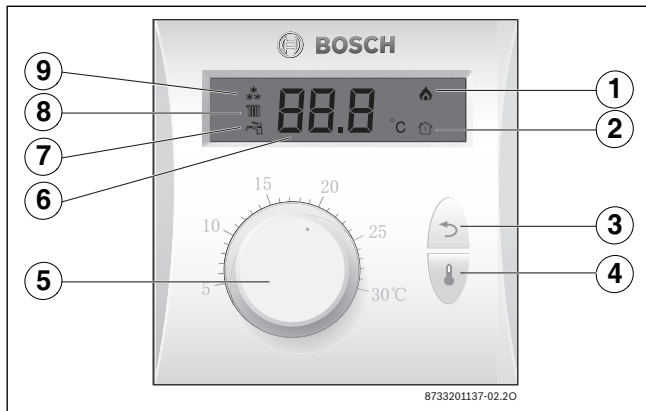
4 Product description

Fig. 2

- [1] Operation condition
- [2] Room temperature icon
- [3] Up \Exit \Reset
- [4] Down\ menu
- [5] Temperature knob
- [6] Current room temperature
- [7] DHW (Domestic heating water)
- [8] CH (heating water)
- [9] Anti-freezing

5 Installation

5.1 Installation instructions

- Isolate the appliance from the electrical supply.
- Avoid installing the thermostat close to fridge, radiator, kitchen, computer, window, doorway or other over-cooling, over-heating and temperature changed frequently areas. The best position to install the thermostat is a dry place which can precisely reflect room temperature, and has low interference.
- Ambient temperature: -5 ℃~40 ℃
- Relative humidity: Max RH 85% (23 ℃)
- Altitude: Less than 2000 Meter

5.2 Installation of room thermostat

The standard mounting holes are at the back of thermostat, and user can install the thermostat on the wall with them. Open the thermostat and install the thermostat according to the letters given by the follow picture.
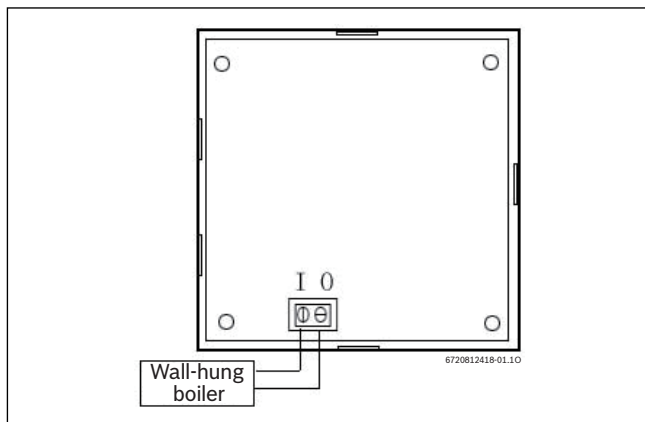

Fig. 3

5.3   Installation steps

▶ Finger-tighten the middle part of three edges of back cover, as shown in the figure, to make the three edges recessed, and then remove back cover(→see Fig. 4).
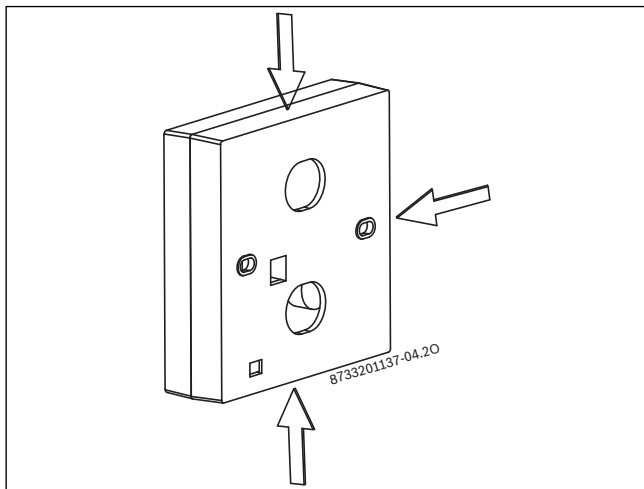

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Fig. 4

▶ Drill two installing holes on the wall, and push swell plastic button in holes. Use screws to fix back cover onto wall surface,(→see as Fig. 5) (Distance between two holes is 60mm, please try to make uniform height).
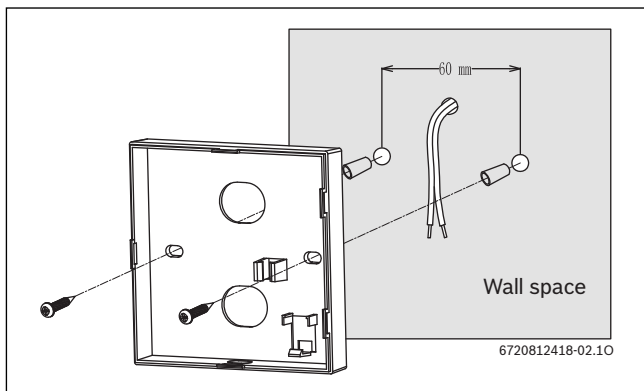

Fig. 5

▶ Use a screwdriver to connect OT cable to product connector base, as shown in Fig. 6 (Regardless of cable positive and negative electrodes).
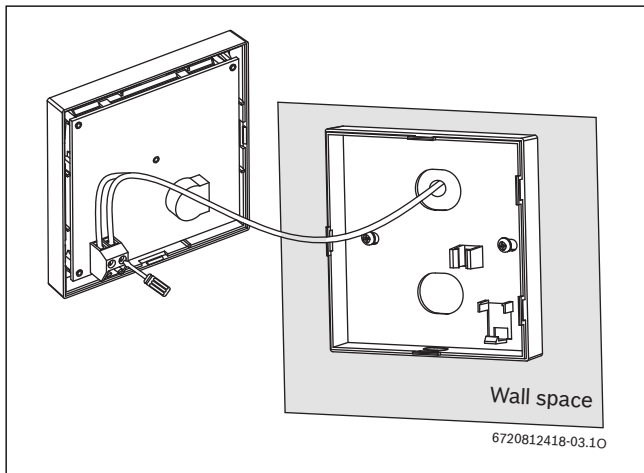

Wall space

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Fig. 6

▶ Fix the product on the back cover, as shown in Fig. 7.
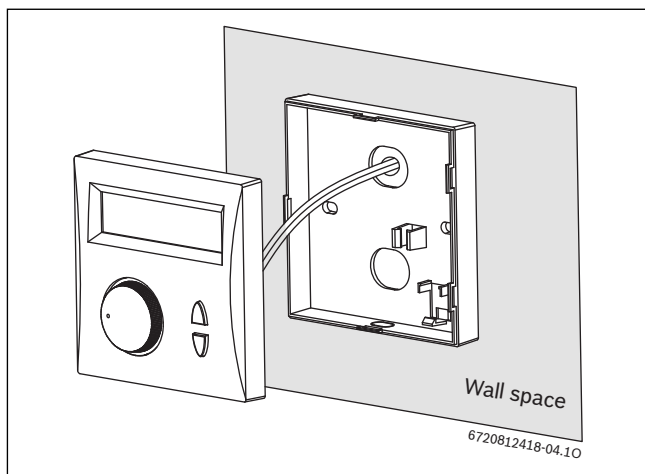

Fig. 7

6 Operation instructions

OR30 room thermostat has the advantages of easy operation and practicality. The function of it is operated by two key and a knob.

- **Fault reset:** Press "UP" keys to reset if the fault code occurs.
- **Check CH/ DHW temperature:** Press "Down" key to check the CH/ DHW temperature, and then press "UP" key to exit.
- **Set target room temperature:** Increase or decrease the room temperature by rotating knob.
- **Set the target temperature of DHW:** Press "DOWN" key twice to check DHW temperature, then press "DOWN" and "UP" simultaneously to set the target temperature of DHW. Adjust the target point by "DOWN" and "UP" key. Press "DOWN" and "UP" once simultaneously to exit.
- **Temperature calibration:** Press "DOWN" and "UP" simultaneously for 5s to start temperature calibration. LCD shows battery icon, and calibrates the temperature by "DOWN" and "UP" key. Press "DOWN" and "UP" simultaneously once to exit.
- **Default reset:** Press "UP" key for 5s until LOD blinks.Press any key to exit.
- The temperature displayed on thermostat is different from thermograph.The test methods of thermograph and thermostat are different. In general conditions, thermostat's temperature sensor is more precise than thermograph. Due to the difference of regions and environments thermostat has a slight deviation. If this deviation is large (>5 °C), you can use "temperature calibration" to adjust (See part 6.1).

6.1 Temperature calibration

Due to the regions and environments thermostat has a slight deviation. user can adjust the temperature through "temperature calibration".

▶ Press up(P8) and down(P9) key together to enter temperature correction and then the battery icon will flash up on the LCD.
▶ Adjust the value by "up(P8)"and "down (P9)"key. If the temperature difference is not very obvious, this function is not recommended.

	There is 2 ℃ inaccuracy in household thermometer.

7 Applicable model

Boiler model	Model No.	Serials
Eurosmart MINI	L1P18 （WBN6000-16C）	7716482002
	N1P17 （WBN6000-15S）	7716482003
"New" Eurostar	L1P20-WBN6000-18CRN S5500	0T1010044700023338
	N1P20-WBN6000-18HRN S5500	0T1010044700023332
	L1P27-WBN6000-24CRN S5500	0T1010044700023339
	N1P27-WBN6000-24HRN S5500	0T1010044700023333
	L1P31-WBN6000-28CRN S5500	0T1010044700023340
	N1P31-WBN6000-28HRN S5500	0T1010044700023334

Table 3

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