

QD92 Thermostat for hot water floor heating system



1. Preface

Dear customers:

Thank you for choosing our new product: QD92 water floor heating thermostat. It's our biggest wish to bring convenience to your daily life. Before using this product, please read the user's manual carefully, which will help you use it correctly.

2. Function Overview

2.1 Application

QD92 is applied to the independent-household floor heating system, and it can control the working status of the floor heating device through comparison between the environmental temperature and setting temperature, improving comfort and saving energy.

2.2 Features

- Large LCD backlight display
- Strong and stable switching power supply
- Auto restart function(optional)
- Setting temperature and room temperature display, intuitively and conveniently.
- Elegant and fashionable exterior design
- Accurate and stable temperature control
- Accurate weekly timer function(able to do temporarily manual adjustment)
- Electric ball valve control and passive linkage control function
- Three working modes: manual, automatic, antifreezing.
- Antifreezing protection and overheat protection.
- Temperature calibration function
- Return difference temperature setting
- Key lock function
- Backlight function
- IR remote (purchase it separately)

3. Diagram and Description

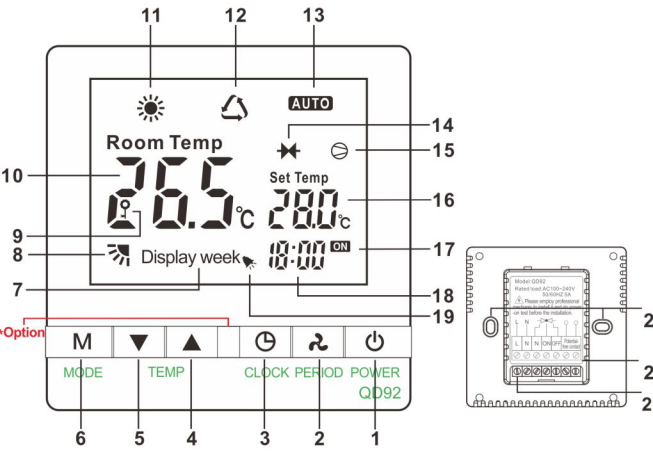


Diagram Description

No.	Description
1	Power button: turn on or turn off the thermostat manually.
2	Period programming button: Enter into 5+2 programming mode. Press "M" Key to adjust time period, and press UP and Down button to adjust time and temperature. Press POWER button to save the setting and exit.
3	Clock button: Adjust current clock, and press UP and Down button to adjust the time.
4	Up button: Adjust the setting temperature, clock, and factory parameters. It will be invalid to press this button in antifreezing mode.
5	Down button: Adjust the setting temperature, clock, and factory parameters. It will be invalid to press this button in antifreezing mode.

6	Mode button: In the state of power on, it can be used to switch the working mode among manual, automatic, antifreezing. When setting the clock and factory parameters, it can be used to switch different parameters.
7	Week display: Display the current week. It will indicate the corresponding numbers in period programming.
8	Antifreezing protection indication: In the state of antifreezing protection, this symbol flickers.
9	Button lock symbol: This symbol will be always bright when the buttons are locked. In the state of power on, press and hold UP & DOWN button together for 3 seconds to lock and unlock the buttons.
10	Room temperature display: Display the current room temperature.
11	Manual mode: This symbol will be always bright when the thermostat works in manual mode. When it flickers, it means the thermostat is in the temporary manual operation under the automatic mode.
12	Antifreezing mode: This symbol will be always bright when the thermostat works in antifreezing mode.
13	Automatic mode: This symbol will be always bright when the thermostat works in automatic mode (5+2 days mode).
14	Water valve symbol: This symbol will be always bright when the water valve is opened, and it will disappear when the water valve is turned off.
15	Passive connection port: This symbol will be always bright when passive connection function is on, and disappear when it is off, and flicker when it is in the state of delayed open.
16	Setting temperature: Display setting temperature.
17	5+2 days period programming setting: It will show "ON" when entering into period programming setting.
18	Current time: Display the current time or the contents of programming.
19	Overheat protection symbol: It will flicker When the overheat protection is opened. And it will disappear in normal state.
20	Screw holes on the baseplate: When installing the thermostat, they are used to fasten baseplate.
21	Wiring diagram: Please connect wires according to this instruction.
22	Connecting terminals: Connect the external wires.
*Option	IR receiver: Receive the instruction from remote control(purchase it separately)

4. Basic operation

- 4.1 Turn on/turn off: Press "⏻" once to turn on the thermostat. Press "⏻" again to turn off it, and the screen will only show the current time and room temperature. At the same time, the electrical ball valve and passive connection function will be off.
- 4.2 Setting temperature: In the state of power on, press "▲" or "▼" to set the temperature. Pressing "▲" can raise the setting temperature, and pressing "▼" can lower the setting temperature. Each time you press "▲" or "▼", you can raise or lower the setting temperature by 1°C. Pressing and holding "▲" or "▼", after 1 second can help adjust the temperature quickly. It is invalid in antifreezing mode.
- 4.3 Mode selection: In the state of power on, press "M" to switch working mode. Pressing this button repeatedly can switch the mode among manual, automatic, antifreezing.
 - Manual mode: Adjust the setting temperature manually, and control the floor heating device to turn on and turn off.
 - Automatic mode: At this mode, the thermostat will work automatically according to time and temperature set in period programming. (For detailed information, please check 4.5.) It totally has 12 periods of time for setting. (6 periods in working days, and 6 periods on weekend)
 - Temporally manual mode: In the automatic mode, you can adjust the setting temperature temporarily as required. This setting temperature is only valid in the current period. When it enters into next period, the temperature will restore setting temperature of this period.
- 4.4 Antifreezing mode: When the users go out for a long time, in order to avoid the damage to the device in low temperature (eg: water pipe damaged by frost) When the room temperature is lower than the antifreezing temperature, thermostat will turn on automatically.
- 4.4.1 Firstly, week symbol flickers, and press "▲" or "▼" to adjust. After finishing, press "⏻" to confirm week and enter into hour setting.
- 4.4.2 Secondly, hour symbol flickers, and press "▲" or "▼" to adjust. After finishing, press "⏻" to confirm hour and enter into minute setting.
- 4.4.3 Thirdly, minute symbol flickers, and press "▲" or "▼" to adjust. After finishing, press "⏻" to confirm the minute, and the thermostat will save the clock data and exit from the clock setting.

- 4.5 Period programming: Check the table 4.5 for the factory default parameters of period programming. In the state of power off, press "⏻" to enter into period programming setting.
- 4.5.1 Time and temperature setting in working days (Monday-Friday)(Picture 4.5.1) Firstly, the period icon in working days (Monday-Friday) flickers, and the LCD temperature area display "1", which means you are setting the first period of working days. Press "▲" or "▼" to adjust the time. After finishing, press "M" to confirm and enter into temperature setting. Now the starting temperature will flicker. Press "▲" or "▼" to adjust the temperature. After finishing, press "M" to confirm and enter into the second period setting.
- 4.5.2 Finish the setting of 6 periods (Monday-Friday) through repeated setting. After entering into the second period setting, the LCD temperature area display "2", which means you are setting the second period of working days. According to the step of 4.5.1, finish the time and temperature setting of 6 periods and confirm them, then enter into the period setting of weekend.
- 4.5.3 Time and temperature setting on weekend (Saturday-Sunday)(Picture 4.5.2) Now, the period symbol flickers, and the LCD temperature area display "1", which means you are setting the first period of weekend. Set all 6 periods according to the same setting ways with working days.
- 4.5.4 Setting confirmation After setting, press "⏻" to save all the periods setting. When you finish setting a certain period and don't need to set continuous periods, you can press "⏻" to save the period setting.

4.5.5 Notice

- During the setting, if there is no parameter adjustment in 30 seconds, the thermostat will cancel the setting automatically and exit from the period programming.
- If you need to restore the factory default parameters(table 4.5), please check 5.4 Restore factory setting.

Table 4.5 Factory default parameters

Period	Working days(Monday-Friday)	Period	Weekend(Saturday, Sunday)
	Start time Start temperature		Start time Start temperature
The first period	6:00 20°C	The first period	6:00 20°C
The second period	8:00 15°C	The second period	8:00 15°C
The third period	11:30 15°C	The third period	11:30 15°C
The fourth period	12:30 15°C	The fourth period	12:30 15°C
The fifth period	17:00 22°C	The fifth period	17:00 22°C
The sixth period	22:00 15°C	The sixth period	22:00 15°C

Pic 4.5.1 Time and temperature setting in working days(Monday-Friday)

