HY703RF-WIFI ThermostatUser Manual

Thank you very much for choosing our products and services, and also for your trust and support. HY series thermostats are suitable for temperature control of electric floor heating system, water floor heating system and gas boiler heating system, all products are designed with backlight.



App Store research"Smart Life" or "Smart RM" download APP, APP icon as below





There are two WIFI distribution methods, you can choose one of them:

- receiver distribution network, power supply is connected, long press key to enter WIFI distribution network, the blue lights flash said EZ distribution network model, blue light slow said AP mode of distribution network
- Thermostat distribution network: switch on the power supply, after the thermostat and the receiver are successfully paired, Power off thermostat, then press

 with ▲ 3-5 seconds, Active WiFi pairing

 seconds

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Function Definition

WW:Waterheating 5A WE:Electric heating 16A WW-LD:boiler heating and water heating

Product Features

- Up to 0.5°C accuracy for precise control of your desired temperature
- Child lock design, do not worry about children will be misuse
- Power-down memory function, easy to use
- Programming mode working methods include: 5+2, 6+1, 7 days three ways, and can be DIY programming
- Classic holiday mode, so you can fully save energy while on vacation
- External sensor temperature can be queried by pressing a key
- Temporary manual mode: Set the temperature in the programming mode, the thermostat will run according to the temporary setting temperature until

the programming mode operation.

Product Specifications

♦ Thermostat operating voltage: 2*AA (Alkaline Batteries)/USB adapter (Type-C USB 5V/1A) ! Pls remove batteries when USB power is working.

Icon Function Description

Programming mode

Manual mode

Holidaymode, holiday days and temperature can be set to run in countdown mode

FLOOR External sensor temperature value

Low battery icon

Child lock

- ♦ Sensor:: NTC(10k)1%
- Setting temperature range:
 5~35℃ (default)
- ♦ Display resolution: ± 0.5 °C
- ♦ Receiver operating voltage: 90-240VAC 50/60Hz
- ♦ Receiver load current:16A

Activate window function



- On heating, the icon disappears to indicate that the heating is stopped when the flashing display indicates high temperature protection
- RF communication icon, always on when normal, blinking indicates abnormal communication
- Indicates that the WIFI connection is disconnected. Please check the network
- The indicates that the WIFI connection is normal. Blinking, it indicates that EZ network distribution mode is underway
- ©:Cooling mode, this icon is always displayed when switching to cooling mode and flashes when the cooling load is output

Key Function Description



♦ Short press to power on/off

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- ♦ Setting key, short press to switch between manual mode/programming mode
- ♦ Power on state, long press for 3-5 seconds to enter the programming parameter setting
- ♦ Power off state, long press for 3-5 seconds to enter advanced option A

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- ♦ Increase key
- Long press to query external sensor temperature (only valid for sensor type selection N3 in advanced options)
- ♦ Press or V briefly in programming mode to enter temporary manual mode

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- ♦ Decrease key
- ♦ Long press to lock/unlock thermostat

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- ♦ Power on state, while long press to enter the time setting
- ♦ Power off state, press and hold to enter Advanced Option B at the same time

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♦ Power on state, press and long press at the same time to enter the holiday mode setting, then OFF flashes, press or to change to ON, then short press to switch to set the days and temperature setting of holiday mode, then press will turn on the holiday mode

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♦ Power off state, press and hold 3~5 seconds to enter the WIFI distribution network mode, and it will be on for 3~5 seconds

5+2 (factory default),6+1 and 7 models 6 times period setting for user choose. In the advanced options choose model of you need, power on state, long press key for 3-5 seconds to enter the programming parameter setting, after entering the setting, short press key to switch the period hour, period minute, period temperature setting options, press or to adjust the corresponding parameters, after the setting is completed, keep the interface for 10 seconds, then the parameters will be saved automatically and exit.

Wake up		Leave home I		Back home		Leave home		Back home		Sleep	
6:00	20℃	8:00	15℃	11:30	15℃	13:30	15℃	17:00	15℃	22:00	15℃

Advanced Options Settings

1, Advanced Option A

In power off state, press and hold for 3-5 seconds to enter the advanced option A setting, short press to switch the option to be set, press or to adjust the parameters. After setting, keep the interface for 10 seconds to save the parameters and exit automatically.

Display	Set Items	Setting Parameters	Factory
Symbol			Default
A1	TemperatureCalibration	-9 ℃ ~9℃	-1°C
A2	Start/stop working temperature difference setting	0. 5~2. 5℃	1℃
A3	Children lock setting	0: half lock; 1: full lock	0
A4	Power on/off state memory after electricity cut	0:Thermostat on/off with memory when electrify 1:Thermostat off when electrify 2:Thermostat on when electrify	0
A5	Weekly programming selection	0: 5+2 1: 6+1 2:7	0
A6	Setting temperature minimum limit	1~10℃	5
A7	Setting temperature	20~70°C	35

	maximum limit		
A8	Low temperature protection setting	1~10°C, when set to 10°C, then press "A" will display 【】, at this time, it means cancel the low temperature protection	5
А9	High temperature protection for external sensor	20~70°C, when set to 20°C, then press "▼" will display 【】, at this time, it means cancel high temperature protection	45
AA	High temperature protection temperature difference setting	1~9°C	2
AB	Window function triggers temperature	Display $[-1]$, at this time, it means close the open window temperature detection, press "\[\begin{align*} \]" to display the value 5 open window temperature detection, setting range $5 \sim 25$	
AC	Window function running time	5~60	15
AD	Restore factory settings	To display Ao, press and hold the key until the LCD is fully displayed, which will restore the Advanced Option A parameter to its default.	
AE	Heating/Cooling mode	0: heating 1: cooling	0

2, Advanced Option B

In power off state, press and hold the and keys simultaneously for 3-5 seconds to enter the advanced option B setting, short press the key to switch the option to be set, and press or to adjust the parameters. After setting, keep the interface for 10 seconds to save the parameters and exit automatically.

Display Symbol	Set Items	Setting Parameters	Factory Default
B1	IP address high	00-FF	00
B2	IP address low	01-FF	01

		Thermostat in this option, the receiver is	00
	Thermostat and receiver pairing	powered on within 10 seconds, after	
		continuously clicking the thermostat	
В3		"A" key, the thermostat will send IP to	
		the receiver, the display 55 indicates that	
		the thermostat and receiver pairing	
		success.	
D4	Comment of the last in the	N1: Single built-in	N1
B4	Sensor type selection	N3: Internal and external sensors	
DE	Minute interval of RF	0-30 minutes	20
B5	transmission		
D.C.	Second interval of RF	3-30 seconds (this item is valid when	30
B6	transmission	B5=0)	
В7	Backlight function	0: off 1: on	0

, B5 and B6 in the advanced options when setting the value ≤ 20 minutes, it is recommended to use the USB adapter power supply, such as the use of battery power, the battery life will be greatly shortened.

High temperature protection temperature difference setting description: The initial factory high temperature protection setting is 45° C, high temperature protection return difference setting is 2, when the external sensor detection temperature rise is greater than 45° C, the relay will stop output, and the thermostat issued a high temperature protection alarm; when the external sensor detection temperature drop is less than 43° C, the relay will re-output, and the alarm is lifted. (This function is effective when the relay has output)

Please select the correct working mode of internal and external temperature sensor, if the selection is wrong or the sensor fails (damaged), the display interface will show "E1" or "E2" and the thermostat will stop heating until the fault is eliminated.

Description of thermostat data RF communication:

- 1. Communication every 20 minutes under normal working conditions
- 2. On/off will communicate with the receiver once time
- 3. When the output status is switched, it will communicate with the receiver once.

: It is always on when wireless communication is normal, and it flashes when wireless communication is abnormal.

Receiver-related description:

 $\textbf{Power indicator (green):} always \ on \ after \ power \ on,; \ off: \ green \ light \ on \ for \ 1 \ second \ and \ off$

for 1 second.

RF signal indicator (orange):power on within 10 seconds is always on (at this time you can send the IP address of the thermostat to the receiver to complete the pairing: refer to the advanced options of the thermostat and receiver pairing options), pairing successfully after this signal lights out; or 10 seconds without pairing action this light will also automatically go out; normal operation, the receipt of wireless signals, this light flashes.

Load/fault indicator (red): When working normally, the load output open light is on, the load output close light is off; when there is a fault, flashing alarm, the fault indication is as follows:

- 1, thermostat and receiver not paired: flash 2 times (fast flash), interval out 2 seconds
- 2, wireless signal loss (1 hour without data communication): flash 3 times (fast flash), interval extinguished 2 seconds
- 3, external sensor alarm: flash 4 times (fast flash), interval extinguished 2 seconds

 Note: Fault 3 is only valid when N3 is selected for Sensor Type in the Thermostat Advanced

 Options.

WIFI signal indicator (Blue): Flash once when receiving WIFI Data; Continuous Flash indicates the EZ distribution mode on WIFI; Continuous slow flash indicates the AP distribution mode on WIFI; Always on when the distribution is successful; And when the WIFI is abnormal, will flash twice, interval extinguished two seconds.

Wiring and installation instructions

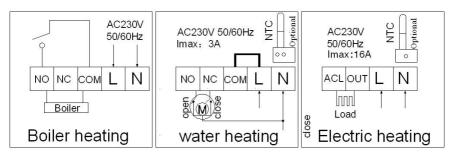
- 1. Read these instructions carefully, failure to follow them may damage the product or lead to dangerous situations.
- 2. Check the instructions and the maximum load power given in the product to make sure the product is suitable for your application.
 - 3. The installer must be a trained and experienced maintenance technician.
 - 4. After installation is complete, follow the instructions in the instructions.



Working with electricity can lead to short circuits or damage to equipment and cause personal injury!

Be sure to disconnect the power supply before installation

Wiring diagram



WW-LD:boiler heating and water heating WW:water heating WE:electric heating

Note: The wiring diagram is for reference only, please refer to the actual wiring diagram of the product for specific wiring.