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**HY703RF WIFI
Thermostat**



technolysis HY703RF WIFI Thermostat User Manual

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technolysis HY703RF WIFI Thermostat



Product Information

- The HY703RF-WIFI Thermostat is designed for temperature control in various heating systems including electric floor heating, water floor heating, and gas boiler heating.
- It features a backlight for easy visibility.

Product Usage Instructions

There are two WIFI distribution methods available:

- Receiver distribution network: Long press the key to enter the WIFI distribution network. Blue lights flashing indicate EZ distribution network mode, while slow blue lights indicate AP mode of distribution network.
- Thermostat distribution network: Switch on the power supply, pair the thermostat and receiver, then power off the thermostat and press for 3-5 seconds to activate WiFi pairing.
- Classic holiday mode for energy-saving during vacations.
- Child lock design to prevent misuse by children.
- External sensor temperature display with a key press.
- Power-down memory function for easy use.
- Temporary manual mode for setting immediate temperature adjustments.

The thermostat offers different programming modes including 5+2, 6+1, and 7-day options. Set desired temperatures for each period and the thermostat will operate accordingly.

FAQ

- **Q:** How do I switch between manual mode and programming mode?
- **A:** Short press the setting key to switch between manual mode and programming mode.
- **Q:** How do I lock/unlock the thermostat?
- **A:** Long press the decrease key to lock/unlock the thermostat.
- **Q:** What is the function of the external sensor temperature display?
- **A:** Press the increase key to query the external sensor temperature.

HY703RF-WIFI Thermostat User 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 systems, water floor heating systems, and gas boiler heating systems, all products are designed with backlight.



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



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

- receiver distribution network, the 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 the thermostat, then press  for  3-5 seconds Active WiFi pairing  

Function Definition

- WW: Water heating 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's 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 next period and then return to the programming mode operation.

Product Specifications

- **Thermostat operating voltage:** 2*AA(Alkaline Batteries)/USB adapter (Type-C USB 5V/1A)! Pls, remove the batteries when the USB power is working.
- **Sensor:** NTC(10k)1%
- **Setting temperature range:** 5~35°C (default)
- **Display resolution:** $\pm 0.5^{\circ}\text{C}$
- **Receiver operating voltage:** 90-240VAC 50/60Hz
- **Receiver load current:** 16A

Icon Function Description

-  Programming mode
-  Manual mode
-  Holiday mode, holiday days, and temperature can be set to run in countdown mode
- **FLOOR**  External sensor temperature value
-  Low battery icon
-  Child lock
-  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
-   It indicates that the WIFI connection is normal. Blinking, indicates that the 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
-  Activate window function









Key Function Description

- Short press to power on/off
- 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
- Increase key
- Long press to query external sensor temperature (only valid for sensor type selection N3 in advanced options)
- Press **or** briefly in programming mode to enter temporary manual mode
- Decrease key
- Long press to lock/unlock thermostat
- + 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
- + 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
- + 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





Programming mode parameter setting

5+2 (factory default), 6+1, and 7 models 6 times period setting for user choose. In the advanced options choose the model 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	Back home	Leave home	Back home	Sleep
6:00 20°C	8:00 15°C	11:30 15°C	13:30 15°C	17:00 15°C	22:00 15°C

Advanced Options Settings






Advanced Option A

In the 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 Symbol	Set Items	Setting Parameters	Factory Default
A1	TemperatureCalibration	-9 °C ~9°C	-1°C
A2	Start/stop working temperature difference setting	0.5~2.5°C	1°C
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 electrified 1:Thermostat off when electrified 2:Thermostat on when electrified	0
A5	Weekly programming selection	0: 5+2 1: 6+1 2:7	0
A6	Setting temperature minimum limit	1~10°C	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 "  " will display —, at this time, it means cancel the low temperature protection	5
A9	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 —, at this time, it means close the open window temperature detection, press "  " to display the value 5 open window temperature detection, setting range 5 ~ 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

Advanced Option B

In the 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

B3	Thermostat and receiver pairing	Thermostat in this option, the receiver is powered on within 10 seconds, after continuously clicking the thermostat “  ” key, the thermostat will send IP to the receiver, display 55 indicates that the thermostat and receiver pairing is successful.	00
B4	Sensor type selection	N1: Single built-in N3: Internal and external sensors	N1
B5	Minute interval of RF transmission	0-30 minutes	20
B6	The second interval of RF transmission	3-30 seconds (this item is valid when B5=0)	30
B7	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 issues 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 an 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

- **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.

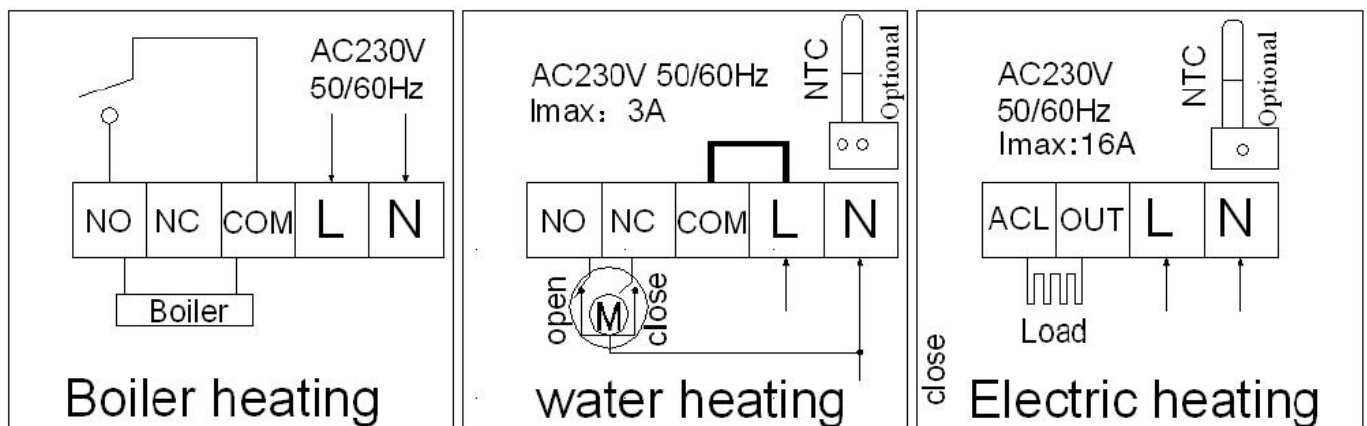
Wiring and installation instructions

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.

Attention

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: 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.

Documents / Resources

	<p>technolysis HY703RF WIFI Thermostat [pdf] User Manual</p> <p>HY703RF-WIFI, HY703RF2REV06-WIFI-v1.0, HY703RF WIFI Thermostat, HY703RF, WIFI Thermostat, Thermostat</p>
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References

- [User Manual](#)

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