

HY01RF Wireless Thermostat User Manual

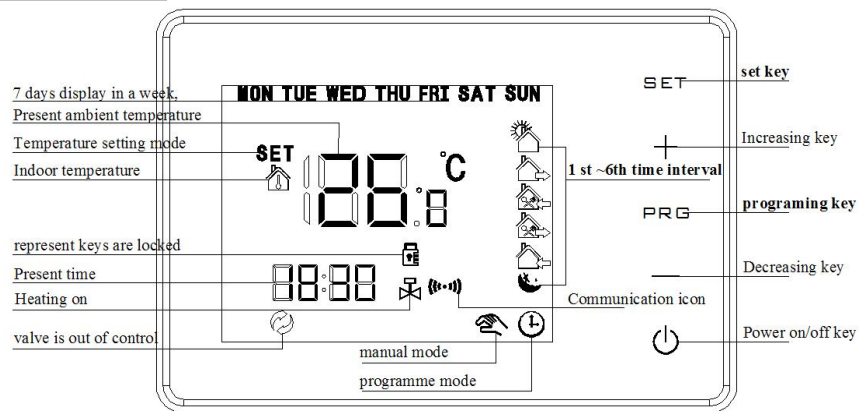
Many thanks for your selection of our products and services, and also for your trust and support to us



Product Specification

- ☆ Power: two AA* 1.5V alkaline batteries
- ☆ Range of temperature display: 0~40°C/32~104°F
- ☆ Insulating condition: Normal environment
- ☆ Running program: Set per 1 week as a cycle
- ☆ Installation: Wall mounted or on battery seat
- ☆ Working environment temperature: 0~70°C/32~122°F
- ☆ Range of temperature adjustment: 5~35°C/41~95°F
- ☆ Display accuracy: 0.5°C or 1°F
- ☆ Output: Switch relay
- ☆ Probe sensor: NTC(10k)1%
- ☆ Size(mm): 130*90*27 And 107*78*28
- ☆ Contact capacity: 16A/220V(RF electric heating)
5A/220V(RF gas boiler heating)
3A/220V(RF water heating)

Displays & Buttons



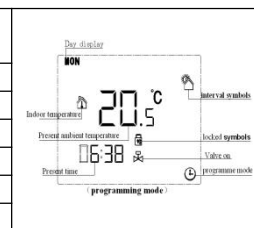
Operation Key

NO:	symbols	represent
A	SET	set key: short press it to switch programme mode to manual mode. At programme mode, press “+” or “-” to adjust the value, it will automatic enter into temporary manual mode
B	+	Increasing key
C	PRG	clock key: short pressing is setting clock, long pressing is setting programme Keys locked/unlocked: press “+” and “-” at the same time for 3 seconds
D	-	Decreasing key
E	⏻	Power on/off key

Run Mode

Factory Preset Mode

Interval	Monday to Friday	the default value	Saturday and Sunday	the default value
1st	06:00-08:00	20°C	06:00-08:00	20°C
2nd	08:00-11:30	15°C	08:00-11:30	15°C
3rd	11:30-13:30	15°C	11:30-13:30	15°C
4th	13:30-17:00	15°C	13:30-17:00	15°C
5th	17:00-22:00	22°C	17:00-22:00	22°C
6th	22:00-06:00	15°C	22:00-06:00	15°C



Mode	explain	printscreen
Programming mode	Press“SET”to switch into programme mode (As shown in picture one) Programme illustration 5+2 programme function(advanced options contain of 6+1 and 7 days programme function, you can also cancel this programme function), that is Monday to Friday is the same setting value, and Saturday to Sunday is the same setting value. Every day can be divided into 6 time interval Setting the programme value:long press“PRG” to enter into programme setting mode, then short press“PRG”to switch, press“+”or“-”to adjust value.	
Manual Mode	Press“SET”to enter into manual mode (As shown in picture two), press“+”or“-”to adjust value.	
Temporary manual mode	at programme mode,press “+” or “-” to adjust the value, it will automatic enter into temporary manual mode	

Sending condition of Thermostat

- Send once for 20 minutes
- Press on/off key
- Switch over output state
- Ⓜ Communication instruction,be long bright display in normal communication and blinking display in abnormal communication

Transceiver tips

Transceiver LED display instruction:

- Power light (green light):it's bright when power on
 - Signal light(orange light):it's long bright within 10s after power on (match IP),signal light off when it receive match,signal light is blinking within 10s when power off.
 - Load light/fault light (red light):
- A、 When no fault:light on when load output,light off when no load output
B、 When fault: light is blinking and indication when fault










- Signal light blink 1 time when it does not receive 485 signal for 1 hour (light on 0.25 seconds light off 0.25 seconds), spacing out the light for 2 seconds
- IP is fault(IP:FFFF),light blink 2 times (light on 0.25 seconds light off 0.25 seconds), spacing out the light for 2 seconds
- Light blink 3 times when it does not receive wireless signal for 1 hour (light on 0.25 seconds light off 0.25 seconds),spacing out the light for 2 seconds
- Light blink 4 times when built-out sensor is fault (light on 0.25 seconds light off 0.25 seconds), spacing out the light for 2 seconds

Advanced Options

Advanced options can be classified to two sets









MODE 1:

Turn off thermostat, long press **SET** for 3 seconds, it will display A01-A09, then press **SET** to switch between these options

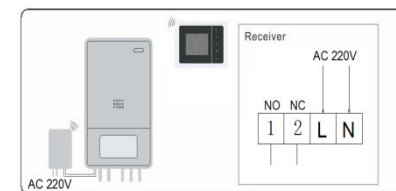
Display symbol	Option content	Press “+” or “-” to adjust value
	temperature compensation (A01)	Press “+” or “-” key to adjust setting value (-9~9) increment:0.5°C.
	Start differential temperature (A02)	Range: 1°C~5°C: 1. When the setting temperature is higher than or equal to the sum of indoor temperature and the start differential temperature, the heating equipment will turn on. 2. When the indoor temperature is higher than or equal to the sum of the setting temperature and the start differential temperature, the heating equipment will turn off.
	Keypad (A03)	0 half locked: all keys are locked except for the on-off key; 1 full locked, all keys are locked including the on-off key.
	high temperature protection (A04)	Range: 35~70 When the lowest setting temperature is 35°C, press “-”, it will display “- -”, high temperature protection function is canceled; if the indoor temperature is higher than the high temperature protection value, the heating equipment will be cut off.
	low temperature protection (A05)	Range: 5°C~10°C ; When the highest setting temperature is 10°C, press “+”, it will display “- -”, low temperature protection function is canceled; if the indoor temperature is lower than the low temperature protection value, the heating equipment will turn on.
	setting temperature lowest limiting value (A06)	Range: 1°C~10°C:
	setting temperature highest limiting value (A07)	Range: 30°C~70°C
	Week programme choice (A08)	MON TUE WED THU FRI SAT SUN : represent 7 days programme MON TUE WED THU FRI SAT : represent 6+1 programme MON TUE WED THU FRI : represent 5+2 programme “- -” represent programme is canceled
	Transceiver IP check (A09)	Within 10 seconds after transceiver power on, press “+” key shortly, check transceiver. Check successfully as shown

MODE 2:

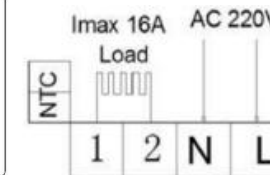
Turn off thermostat, long press “PRG” for 3 seconds it will display B01-B08, then press “SET” to switch between these options

Display symbol	Option content	Press “+” or “-” to adjust value
	version number (b01)	version number 1.0
	IP high Setting (b02)	Press “+” or “-” key to adjust setting value (0 ~ FF)
	IP low setting (b03)	Press “+” or “-” key to adjust setting value (1 ~ FF)
	Write transceiver IP address (b04)	Within 10 seconds after transceiver power on, press “+” key to send address
	valve controlling selection (b05)	Press “+” or “-” key to adjust setting value, 0 valve is controlled by thermostat, 1 valve is not controlled by thermostat, Keep valve in closed state
	Descaling function (b06)	Press “+” or “-” key to adjust setting value, 0 turn off, 1 turn on Descaling function: continue to close valve for 100 hours and force to open valve for 3 minutes
	Degrees Celsius and Fahrenheit selection (b07)	0 = °C 1 = °F
	Factory reset (b08)	Display A0, long press PRG key, show all setting key and factory reset

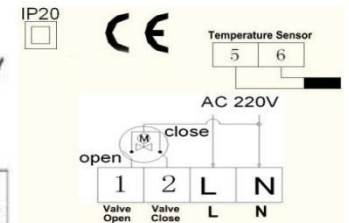
Wiring Diagram



Gas wall hung boiler



Electric Heating



Water Heating

NO: Normally-Open point

NC: Normally-Closed point