

# Infracomfort HY01WE Thermostat User Manual

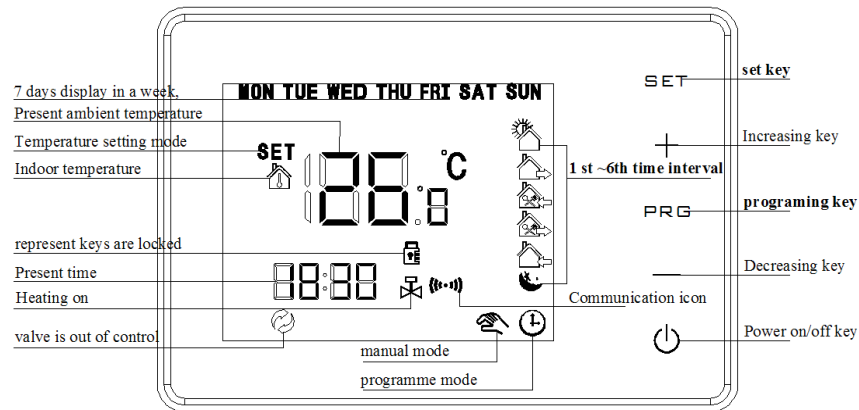
Many thanks for your selection of our products and services, and also for your trust and support to us



## Product Specification

- ☆ Power: 100-240V 50/60Hz(W/E,W/W) two AA\* 1.5V alkaline batteries(BW)
- ☆ Range of temperature adjustment: 5~35°C/41~95°F
- ☆ 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
- ☆ Output: Switch relay
- ☆ Display accuracy: 0.5°C or 1°F
- ☆ Probe sensor: NTC(10k)1%
- ☆ Size(mm): 130\*90\*27 And 107\*78\*28
- ☆ Contact capacity: 16A(electric heating) 3A(water heating)
- ☆ 5A(gas boiler heating)

## Displays & Buttons



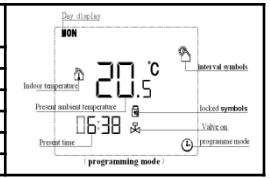
## Operation Key

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	

## 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.
	Sensor choice (A04)	N1 : single build-in sensor ; N2 : single build-out sensor ; N3 : build-in and build-out sensor

45 R5	high temperature protection (A05)	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. Default value is =45°C
5 R6	low temperature protection (A06)	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. Default value is =5°C
5 R7	setting temperature lowest limiting value (A07)	Range:1°C~10°C:
35 R8	setting temperature highest limiting value (A08)	Range:30°C~70°C
MON TUE WED THU FRI R9	Week programme choice (A09)	<b>MON TUE WED THU FRI SAT SUN</b> : represent 7 days programme <b>MON TUE WED THU FRI SAT</b> : represent 6+1 programme <b>MON TUE WED THU FRI</b> : represent 5+2 programme “ — — ”represent programme is canceled

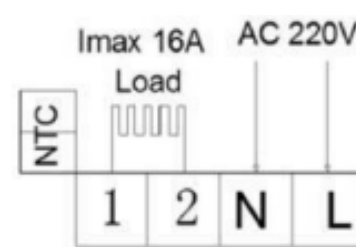
#### MODE 2:

Turn off thermostat, long press “PRG” for 3 seconds it will display B01-B05,then press “SET” to switch between these options

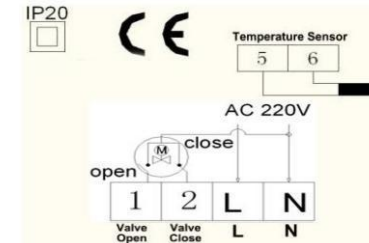
Display symbol	Option content	Press “+” or “—” to adjust value
b1 2	Valve control option (b01)	0 represent valve is controlled by the thermostat 1 represent valve is not controlled by the thermostat, it's always closed
b2	Anti-freezing (Descaling function) function option (b02)	0 close, 1 open. Anti-freezing function: when valve is continuously closed over 100 hours, it will be opened for 3 minutes.
b3	GA/GB option (b03)	0-GA: valve switch protection time is about 3 seconds; 1-GB: valve switch protection time is about 15 seconds; GB no anti-freezing function
b4	°C or °F (b04)	Celsius degree or Fahrenheit degree
R0 b05	Restore factory (b05)	Display A o, Long press PRG key whole show Restore factory 

LCD panel and power panel should be connected( please connect them softly to avoid the line broken)	LCD panel also be connected to the hidden box	Please press the cover softly and finished the installation.
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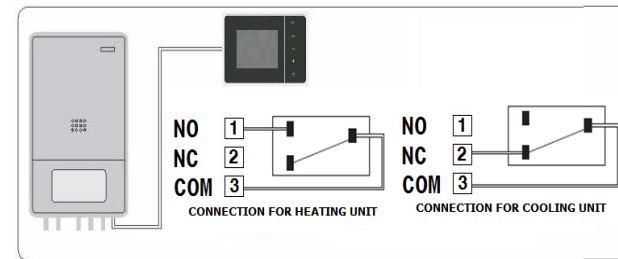
#### Wiring Diagram



Electric Heating






Water Heating



Gas wall hung boiler Heating

**NO: Normally-Open point**  
**NC: Normally-Closed point**  
**COM: Public terminal of relay**

		
Please use a small screwdriver (about 3.5mm width) insert. The notch of LCD broad about 4mm	Up the screwdriver with a little pressure, and Open the LCD panel	Please use two screw to fasten the power panel the hidden box.
