

## APPLICATION

This thermostat range has been developed to control electric underfloor or water heating or water/gas boilersystem. These units are designed for use in commercial, industrial, civil, and domestic properties.

## FEATURES

- Simple installation
- Acrylic face plate
- Large, backlit display
- Sleek, contemporary design
- Elegant chrome frame
- Feather touch control panel
- 5+1+1 six period per day programming
- Simple, one-touch temperature control over-ride. Pre-set temperatures maintained within  $\pm 1^{\circ}\text{C}$  Internal and external sensors allow control of
- both air and/or floor temperatures
- Suitable for installation in a standard single backbox
- WIFI/ZIGBEE/MODBUS communication optional

## TECHNICAL INFORMATION

Sensor : NTC Accuracy :  $\pm 1^{\circ}\text{C}$

Power Consumption :  $< 1.5\text{W}$  Timing Error :  $< 1\%$

Power Supply :  $95 \sim 240\text{VAC}$ ,  $50 \sim 60\text{Hz}$

Current Load :  $5\text{A}$  (water heating, water/gas boiler),  $16\text{A}$  (electric heating)

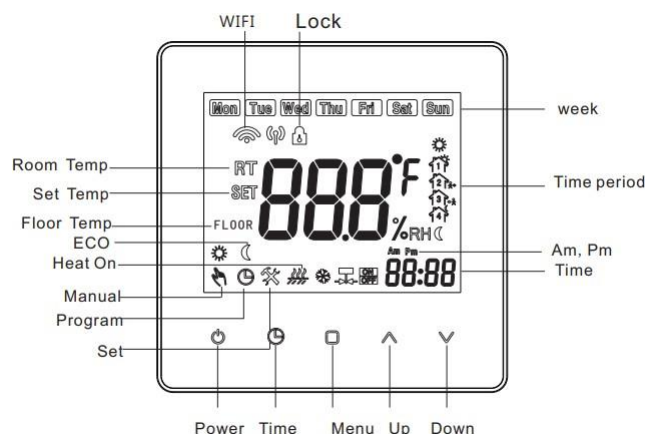
Shell material : PC+ABS (flame retardant)

Dimension :  $86 \times 86 \times 13.3\text{mm}$

Ambient Temp. :  $0\text{--}45^{\circ}\text{C}$ ,  $5\text{--}95\%\text{RH}$   
(Non-condensing)

Storage Temp. :  $-5\text{--}55^{\circ}\text{C}$  Installation Hole distance:  $60\text{mm}$

## LCD DISPLAY REFERENCE



## QUICK FUNCTIONS

Press this button to power on/off your thermostat.

Time setting: Press button to set min/hour/day.

Manual/program setting.

**Manual mode:** Press to select manual mode. When you are on manual mode will show in bottom left corner. Press to select desired temperature.

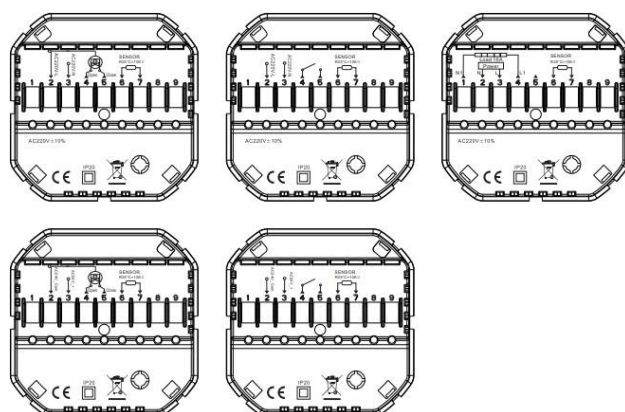
**Program mode:** Press to select program mode. When you are on program mode will show in bottom left corner. Press for 5 seconds to activate program set mode. Press to set the desired (5+1+1) six periods time and temp. When you have set your time and temp period press to save and return to home screen.

**Temporary mode:** During program mode. If you need to change the temp. The icons will appear. The pre-program setting will return in the next period.





**Child Lock set:** Press and hold the button for 5 seconds to lock/unlock your thermostat.

**Factory re-set:** Press button for 5 seconds to enter program mode. Press and hold for 5 seconds. When the 'def' flashes on the screen your thermostat has been re-set to factory settings.

## WIRING DIAGRAM



## CONFIGURATION MENU

Turn off the stat  Press  button for 5 seconds to enter configuration menu. During this menu, short press  to change parameters. Press  to confirm the setting.



No.	Function	Press $\wedge \vee$ to set	Default
1	Calibration	-9°C to 9°C	0°C
2	Dead Zone	1°C to 5°C	1°C
3	Lock	0:Unlock 1:All buttons will lock except the Power button	1
4	Sensor Selection	IN:= control temperature using the internal sensor OU:=control temperature using external sensor ALL:= Both inner and external sensor	ALL
5	Minimum temperature setting	5°C to 15°C	5°C
6	Maximum temperature setting	15°C to 45°C	35°C
7	Display Mode	00:Display room temp and set temp 01:Display set temp only	0
8	Standby Backlight	0-100	10
9	High temperature protection setting	25°C-70°C	45°C
A	Anti-freeze temperature range	2-10°C	5°C
B	Anti-Freeze protection	0:Off 1:ON	0
C	ECO mode	0:Off 1:ON	0
D	ECO Temp set range	5°C to 30°C	16°C
E	Backlight selection	1-100	80

**Note:Water heating&Gas boiler heating Item4 select IN  
Electric heating item4 select ALL**

## DIMENSIONS



## PROGRAM SETTINGS

When power is on, press  for 5 seconds to enter programmable mode. Press  to change the different items. Press  $\wedge \vee$  to set the relative values.

The order is Minute  $\rightarrow$  Hour  $\rightarrow$  Temperature  $\rightarrow$  Minute timing-on  $\rightarrow$  Hour timing-on  $\rightarrow$  Minute timing-off  $\rightarrow$  Hour timing-off  $\rightarrow$  Temperature adjusting.

("Mon-Fri", "Sat", "Sun" = "5+1+1")

programmable mode, every mode has two times zones and a time temperature setting)

Time display	Weekday(MON-FRI)		Weekend(Saturday)		Weekend(Sunday)	
	Time	Set Temp	Time	Set Temp	Time	Set Temp
Period 1	6:00	22°C	6:00	22°C	6:00	22°C
Period 2	8:00	16°C	8:00	16°C	8:00	16°C
Period 3	12:00	22°C	12:00	22°C	12:00	22°C
Period 4	14:00	16°C	14:00	16°C	14:00	16°C
Period 5	18:00	22°C	18:00	22°C	18:00	22°C
Period 6	22:00	16°C	22:00	16°C	22:00	16°C

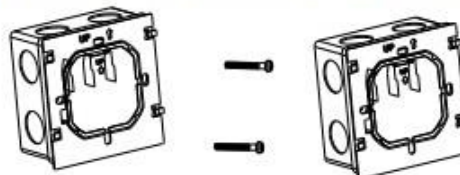
## INSTALLATION

Your thermostat is suitable for installation within a standard 86mm pattress box or European 60mm round pattress box.

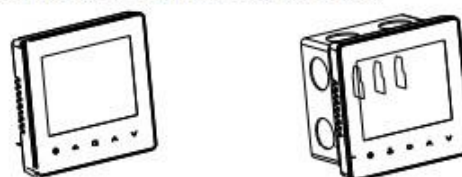
1. Keep power off.Remove the mounting Plate.



2. Connect power supply, load and external (floor) sensor into the appropriate terminals if there is external sensor. (see "Wiring your thermostat" for details and Fix the mounting plate into the wall with screws in the box.



3. Fasten body of thermostat and the mounting plate through the groove.Installation complete.



**RISK OF ELECTRICAL SHOCK.** Disconnect/isolate power supply prior to making electrical connections. Contact with high voltage components can cause electrical shock, severe injury or death.