Touch Screen Room Thermostat

User Guide   Model：TP528series

Welcome

Your new thermostat will provide year of reliable service. Using this digital thermostat will provide more uniform comfort in your home through the seasons. Thank you for buying the product! Please read this manual for complete instructions on installing and operating your thermostat. If you require further assistance, please feel free to contact us.

In the box you will find

Thermostat   1pc   Screws   2pc
User Guide   1pc   Wall plate   1pc

Service

We offer the warranty of 18 months from the sales day. If it is not the problem of quality or beyond the warranty time, we will charge for the after-sale service.

Technical Data of your thermostat

Sensor：NTC Accuracy：±0.5℃

Temp. Range：5 -35℃ Power Consumption：＜1.5W

Timing error：＜1%

Power Supply：110~240V, 50 ~60Hz

Current Load： Induction for fan: 3A;
Resistive for fan: 5A

Shell Material：PC （Fireproof）

Dimension：86x86x13.3mm

Installation box：86*86mm or European 60mm

Ambient Temp.：0 ~ 45℃， 5 ~ 95%RH(Non condensing)
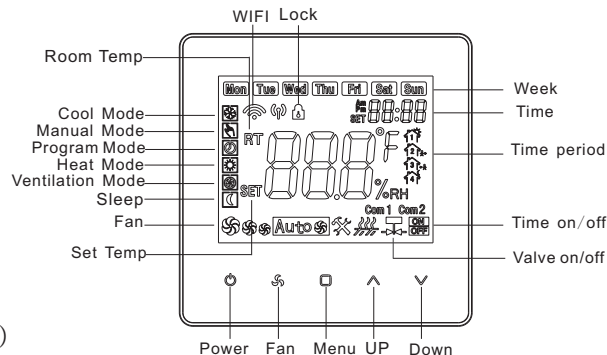
Storage Temp.：−5~ 60℃

About your thermostat

Tp528 series Modern Touch Screen Room Thermostats are designed to on/off control the fans and valves in air conditioner applications via comparison of the room temperature and setting temperature as reaching the aim of comfort and saving energy. TP528Series are microprocessor based thermostat with LCD display.

Features of your thermostat

Modern desgin similar as a cell phone.
Beautiful Frame CHROME creates elegant life.
Acrylic lenses to avoid the finger scrath.
Touch Button makes simple operation.
Large screen display with backlight is easy to read—even in the dark.
Four periods program schedules maximize comfort and economy.
One-touch temp control overrides program schedule at any time.
Precise comfort control keeps temperature within 0.5°C of the level you set.
Internal and external sensor selectable is suitable for any place.
Data memory when power is off.
Easy installation.
86mm hidden box and european 60mm round box is available.

Home screen quick reference

Model definition of your thermostat

Fc2: Two pipe; Control Fan Coil Unit and Two wired Motorized valve.(when room temperature reaches the setpoint, both will turn off)
FC2F: Two pipe; Control Fan Coil Unit and Two wired Motorized valve.(when room temperature reaches the setpoint, valve will turn off but fan will turn to low speed)
D: Two pipe; Control on/off Motorized Damper
C: Two Pipe; Control Fan Coil Unit and Three wired Motorized valve
M1: Two pipe; Control 0-10V Motorized Valve
4: Four pipe; Control Fan Coil Unit and Two wired Heat and Cool Motorized valve.
T: Clock
L: Backlight
P: Weekly Programmable
N: RS485/MODBUS RTU communication
K: Keycard
E: External sensor
P and N could not be compatible at the same time.
For example:TP528FC

Operation

1. Setting the temperature

When power is on,long press ⏻ button,you could select manual mode or programm mode
a. In the mode of programmable , set temperature, time and timing on/off could not be adjusted. If the user want to change, please reprogram.
b. In the mode of manual, press ∧ ∨ to set temperature. ✋ will display in the left corner of screen.

2. Setting Lock (optional function)

Press and hold ∧ ∨ for 3 sec. to lock the screen. The icon 🔒 will display on the screen.
Press and hold ∧ ∨ again for 3 sec. to unlock the screen.

3. Setting the fan

Press ❄ to select the fan speed AUTO, HIGH, MED, LOW.

4. Setting the system mode

Press ☐ to change the system mode HEATING,
COOLING and VENTILATION. In the mode of
VENTILATION, the valve is off but the fan runs
When power on,long press ☐ to set weekly proram

5. Setting the Sleeping

Press and Hold 🌀☐ to set the sleeping. ☾ will flash.
Press and Hold ⋀ ⋁ at the same to cancel

6.Select manual and program

When power on.Long press ⏻ button, ✋ will flash
Press ☐ , ⏰ will flash. Long press ☐ to
select weekly programmable
Long press ☐ to set min of the time
Press ☐ to set hours of the time;
Press ☐ to set week of the time;

7. Adjusting the weekly programmable

When power on,Long press ☐ into programmable.
Press ☐ to change the different items.
Press ⋀ or ⋁ to set the relative values.
The order is Minute adjusting→ Hour adjusting
→ Temerature adjusting → Minute timing-on → Hour
timing-on→ Minute timing-off→ Hour timing-off→
Temperature adjusting (
"12345","6","7", is "5+1+1" programmable mode,
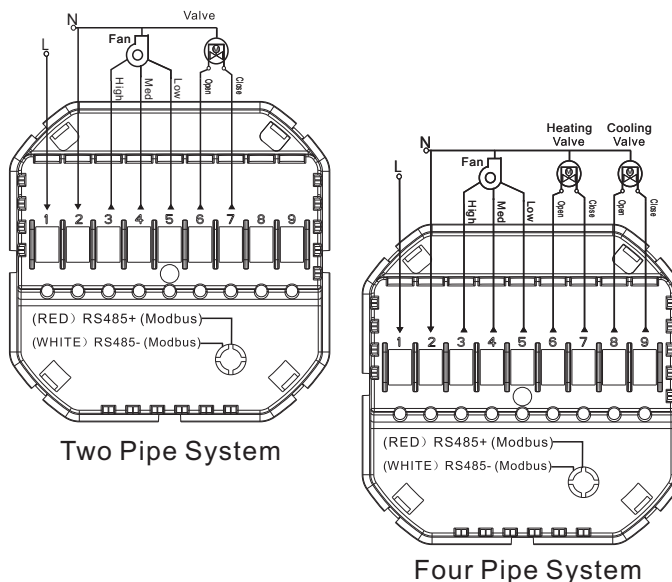every mode has two times zones and a time
temperature setting)

Week	First Period			Second Period		
	Turn on time	Turn off time	Set temp.	Turn on time	Turn off time	Set temp.
Mon−Fri	1	2	3	4	5	6
Sat	7	8	9	10	11	12
Sun	13	14	15	16	17	18

8.Configuration Menu Settings

During power off, press and hold ☐ at the same
time for 5 sec.to enter the configuration menu
Short Press ☐ to change the settings
Press ⋀ or ⋁ to set the relative values.
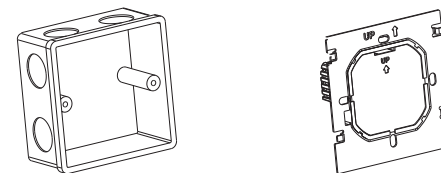All the settings will confirm automatically when
power is on.

No.	Function	Press ⋀ ⋁ set	Default
1	Temp. Calibration	−6℃ to 6℃	0℃
2	Max Set Temp.	20℃ to 35℃	30℃
3	Min. Set Temp	5℃ to 20℃	14℃
4	working Mode	1 : Cooling Only 2 : Heat/Cool	2
5	Temp Display	F:Fahrenheit C : Celsius	C
6	Fan Control	0 : When room temp reaches the setpoit, the fan will turn off 1 : When room temp reaches the setpoint, the fan will turn to low speed	1
7	Lock	0 : All buttons locked except power 1:All buttons locked	0
8	Time Display	1:12hours 0: 24hours	0
9	Display Mode	0 : Display both room temp and set temp 1 : Display set temp only	0
A	Dead Zone Temp	1-5℃	1℃
B	Data Memory	0:Power off when power lose 1: Remain the same status when power on	1
C	Rs485 address	1-254	001

Wiring your thermostat
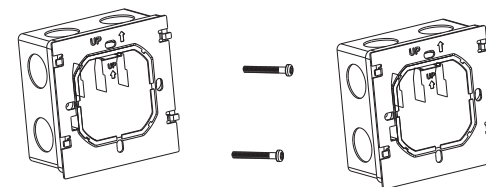

Two Pipe System

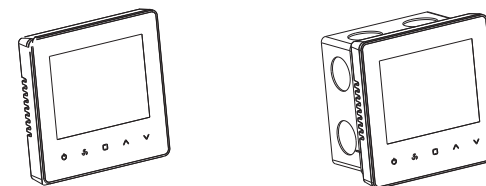Four Pipe System

Installing your thermostat

This product is suitable for standard 86mm wall
box or european 60mm round box.

1. Connect the wire of power and other equipment into
the terminals.

2. Fix the wall plate into the wall box by a screwdriver.

3. Connect the LCD board into the wall plate

WARNING: Please arrange the professional technician
to install this product according to installation drawing
and instruction.
RISK OF ELECTRICAL SHOCK. Disconnect power
supply before making electrical connection. Contact
with components carrying hazardous voltage can
cause electrical shock and may result in severe
personal injury or death.instruction.