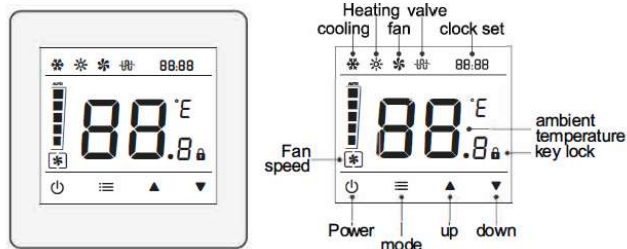


# TER.TOUCH.S. series thermostat constructions

TER.TOUCH.S series thermostat are designed to control motorized valves switch in air central conditioning system and the FCU speeds(H/M/L/Auto) though instructions of main chips. The NTC temperature sensing elements sense ambient temperature and adjust the room temperature desired when it falls below or rises above the thermostat setting



## Functional characteristics

- designing for fan coil control system in central air conditioning system;
- setting mode of fan coil on/off and cooling/heating/air supply;
- setting speed of air conditioning supply air: high/medium/low/auto;
- set temperature and display temperature;
- Optional control: air conditioning system / floor heating system;
- Optional functions:RS-485communication ports/supporting networking /system integration/remote monitoring;
- Suitable for four pipe fan coil

## Technical parameters:

**Power supply:** 85 - 240VAC, 50/60Hz

**Setting temperature range:** 16-31°C

**Accuracy:** ±0.5°C

**Ambient working temperature:** 0 - 45°C, < RH90%

**Maximum switch current:** 2A (resistive load) ;1A(inductive load)

**communication mode:** RS485

**Terminal block - max. wiring size:** s1 .5mm

**Protection level:** IP20

## Error Code:

- 1、 Built-in NTC sensor, short circuit shows E1; Open circuit shows E2.
- 2、 Pipe NTC sensor, short circuit shows E3; Open circuit shows E4;
- 3、 If the "E5" message is displayed, this is due to an error in the RTC circuit.
- 4、 If the "EE" message is displayed, this is an error from EE PROM.

## key definition:

UI Return Key Type	Button icon	Key function
⏻	Power	on/off
☰	mode	heating/cooling/fan
⌘	Fan speed	low/medium/high/Auto
▲	up	press the key once to increase the temperature by 0.5°C
▼	down	press the key once to decrease the temperature by 0.5°C
☰+▲	combination keys: clock setting	enter clock setting
☰+▼	combination keys: external sensor	enter the external sensor temperature query
▲+▼	combination keys: Lock key	enter lock key
☰+▲+▼	combination keys: initial setting	enter initial setting in the off state

Note: Press and hold the combination key for 5 seconds to activate the function.

## Operation instructions:

- 1.Power:** in the on/off state , press the key to change the off/on state;
- 2.Mode:** in the on state ,press the key to switch cooling, heating and fan mode;
- 3.Fan speed:** in the on state, press the key to switch low, medium and auto mode;
- 4.Temperature adjustment functions:** in the on state, press the key "up"/"on" once to increase/decrease the temperature by 0.5°C;
- 5.on/off memory function:**  
**G) parameters to be memorized in power-off state:** on/off, mode, fan speed , setting temperature, key lock.  
 @ "mode", "fan speed" and "setting temperature" are relative keys , no matter whether there is on/off memory or not, in the state without power-off, the "mode", "opening key" or "mode"+"fan speed"+"setting temperature" are relative information and memory;  
 @the advanced set of on/off can be set to(seeing the advanced setting table for details):  
**0:** the on/off state before power failure;  
**1:** no memory the on/off state ,always power on in the off state;  
**2:** no memory the on/off state ,always power on in the on state;  
**6.clock:** the clock will be reset after power failure and the software version will be displayed when the power is on .The clock setting is entered automatically after the parallel display ,you can press "mode" and "up" key to enter the clock setting during the use.  
**7.inital setting:** The thermostat will reenter to the factory default value after pressing the "mode"+"up"+"down" within 20 seconds after shutdown. After restarting and displaying the software version , the thermostat will enter the factory mode.

## Advance settings

In the ON state, press and hold the "mode" button for 5 seconds to enter into the advance settings. Then press "up" key or "down"key to select different function settings, and follow the instructions in the figure to set the corresponding function.

Item	Description	Alternative values	Default values
P01	Celsius /Fahrenheit: °C/°F	°C/°F	°C
P02	Accuracy:0.5/1°C(valid only for Celsius )	0.5/1°C	0.5 °C
P03	To set the maximum temperature	16°C - 31°C /50°F - 87°F	31°C / 87°F
P04	To set the minimum temperature	10°C - 31°C /50°F - 87°F	16°C / 61°F
P05	Start-up temperature difference	1°C - 5°C /2°F - 10°F	1 °C /2°F
P06	tempature compensation	9°C - 9°C /18°F - 18°F	0
P07	low temperature protection	No setting: -- Setting: 5°C - 12°C /41°F - 53°F	-
P08	fan status after valve closed	ON/OFF	OFF
P09	fan synchronizing	ON/OFF	ON
P10	Delay the closing time:when the fan on /off is not synchronized with valve (units are seconds)	0-99	0
P11	prevent cold wind during heating: off .do not prevent cold wind; on prevent cold wind	ON/OFF	ON
P12	anti cold wind temperature	25°C - 50°C /10°F - 99°F	35°C/77°C
P13	power failure memory of on/off state 1.the on/off state before power failure 2.no memory the on/off state, always power on in the off state 3 no memory the on/off state, always power on in the on state	1, 2, 3	1
P14	locking mode setting	0: full lock 1: full lock except opening key	0
P15	setting of two or four pipe fan coil	2/4	2
P16	set up I D	1-64	1

