

TDS21 WIFI FAN COIL THERMOSTAT



I. Product Summary:

TDS21 WIFI Fan Coil Thermostat is touch screen thermostat with WIFI Function, the thermostats can be controlled by phone App.(IOS and Android phone)

It is designed to control the fans and valves in air conditioner applications via comparison of the room temperature an setting temperature as reaching the aim of comfort and saving energy.

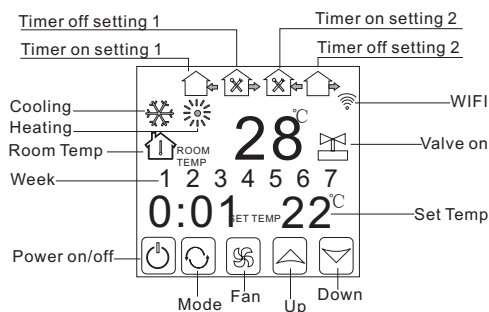
II. Technical Parameter:

Power Supply	AC200~240V 50 ~60Hz
Current Load	3A~5A
Power Consumption	<0.5W
External Material	PC+ABS (flame retardant)
Sensing Element	NTC
Set Temp. Range	10-40°C
Accuracy	±1°C
Dimension	86x86x13.3mm
Ambient Temp.	0-45°C, 5-95%RH(Non-condensing)
Storage Temp.	-5~55°C
Timing Error	<1%

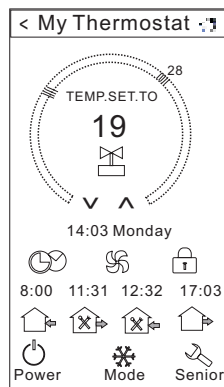
III. Main Functions and Characteristics

1. Heating, cooling, ventilation mode.
2. WIFI for Andriod & Apple IOS phone.
3. Large Glass screen display and touch screen type.
4. 2 pipe and 4 pipe for choose.
5. 3 fan speed+Auto.
6. Programmable timing switch function, 4 period a day setting.
7. Temperature compensation when differs from actual temp.
8. Selectable 80mmx80mm European hidden box.
9. Key Lock function.
10. Fan coil in-control and out-of-control adjustable.(only for 2 pipe)

IV. User Interface Explanation (Thermostat Port)



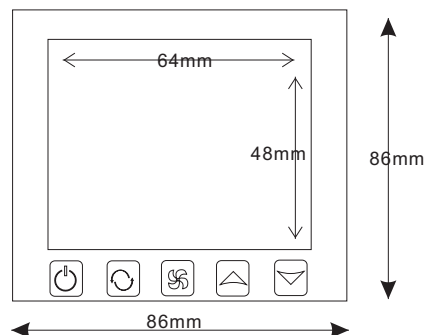
V. User Interface Explanation (Phone Port)



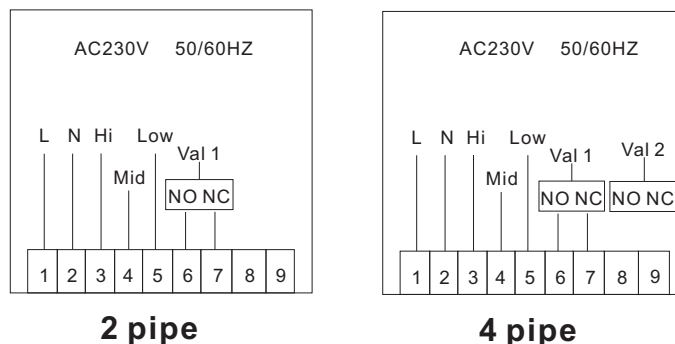
VI. Model Spec

Model	Current Loading	Program Time switch	Key Lock	Controlled Objects
TDS21WIFI-AC2	3A~5A	✓	✓	2 pipe central air conditioner
TDS21WIFI-AC4	3A~5A	✓	✓	4 pipe Central air conditioner

VII. Dimension



VIII. Wiring Diagram



IX. Thermostat Operation Instruction

1. Setting Power on/off

Press to turn on/off the power.

2. Setting Temperature

Press to set the temperature.

3. Setting the System Mode

Press to select heating, cooling or ventilation. Factory Default is ventilation.

4. Setting the Fan Speed

Press to select the fan speed.

- is Low speed (Factory default);
- is Mid speed;
- is High speed;
- is Auto speed.



In auto mode, the fan will run according to the comparison of room temperature and set temperature.



5. Setting the Real Time.




Press and hold for 3 sec., hh will flash in the position of hh: mm. Press to adjust the current hour. Press , mm will flash in the position of hh: mm. Press to adjust the current minute. Press , 1 will flash in the position of week: 1234567. Press to adjust the current week.

6. Setting the Time-on(Regular Boot)



Press  for more than 3 seconds, after setting the time, continue to press  until  and "hh" twinkling. Press  to adjust the hours.



After the adjustment of hours, press  until the "mm" twinkling, press  to adjust the minutes.



After the completion of all adjustments, press  to confirm, then  does not twinkle, Regular boot setup is complete.




The operation of canceling Regular boot is the same, press  to the state of Regular boot, then pressing , the  is twinkling, Regular boot has been canceled.



7. Setting the Timer off

After the setting of Regular boot, press  again, until  and "hh" twinkling, press  to adjust the hours.



After the adjustment of hours is completed, press  until the "mm" twinkling, press  to adjust the minutes.

After the completion of all adjustment, press  to confirm, then  does not twinkling, Off timer setup is completed.

The operation of canceling Off timer is the same, press  to the state of Off timer, then pressing , the  is twinkling, Off timer has been canceled.

The setting of the third period and forth period are same with the first and second period, the icons are   (on, off/into the house, out of the house)

8. Setting the Circulation of Timer Switch

After setting the time of timer switch, continue to press the , there will be "Loop", then press , week display area will displays the day of the week, or the transformation of "12345" "123456", or "1234567".



If the screen only displays the day of the week, then the timer switch setting is valid only for the day.(= "Execute once" in App interface)


If it displays "12345", then the timer switch is valid from Monday ~ Friday, and Saturday and Sunday will be invalid.


If it displays "123456", then the timer switch is valid from Monday ~Saturday, and Sunday will be invalid.

If it displays "1234567", then the timer switch is valid from Monday ~ Sunday.


9.Advanced Setting Mode

In power-off state, press  and  meanwhile, to enter into Advanced Setting.

Press  to switch dIF, Sh1, SI2, Sh2, SI2, ADJ, FAN, FrE, LOC, ADD, FAC.

Display code	Function	Parameters	Factory default
dIF	Deadzone/hysteresis	0.5℃; 1℃	1℃
SH1	Max temp in cooling	10~40℃	40℃
SL1	Min temp in cooling	10~40℃	10℃
SH2	Max temp in heating	10~40℃	40℃
SL2	Min temp in heating	10~40℃	10℃
AdJ	Temp. Calibration	-5~5℃	0℃
FAN	Fan coil control mode	0:fan coil in-control 1:fan coil out off control	0
FrE	Anti-freeze function	0:Anti-freeze On 1:Anti-freeze Off	0
LOC	Key lock(button lock)	0:Unlock 1:All locked except  2:All button locked	0
Pon	Working state memory function	when power fails suddenly, working state memory or not 00: no memory 01: memory	00
FAC	Factory setting	00: Factory reset 08:Just display	08

Advanced Setting in "BEOK AC" App interface is "Senior" 

Touch press  for 2 second, you will enter into Advanced Setting interface.

X. Phone Port Operation Instruction

1. Install APP on phone

For IOS system: Login in App Store, search " Beok AC", you can download it on your iphone. Or scan below code to download:

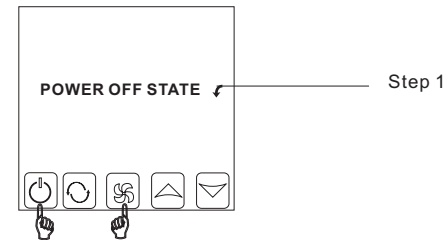




For Android System: Login in Google Play, search "Beok AC", you can download it on your phone. Or scan below code to download:

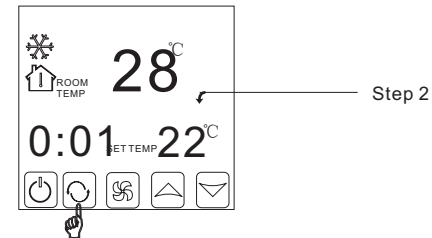


2. Connection Thermostat with Phone

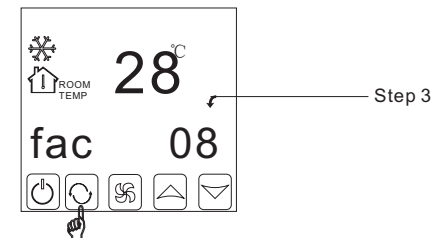
Thermostat part Setting




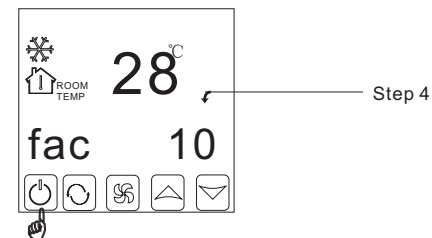
Press and hold  then press  button the same time for 2 seconds, then will enter into Advanced Setting.



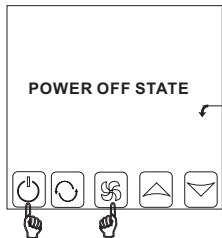
After enter into Advanced Setting, press  10 times until "FAC" appears.



When FAC appears, press  to change 08 to 10 or 32, make FAC=10 or FAC=32.

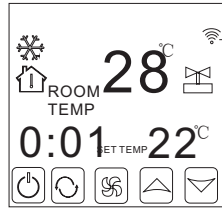


Then, press  to power-off state.



Step 5

Hold on button, then press again for 2 seconds, then you can find the WIFI symbol twinkling.



When the wifi symbol twinkling quickly and frequently: Connection can start

When wifi symbol twinkling slowly: It means Off Line

When twinkling Stops: Connection succesfully.

At this time, wifi symbol will be twinkling quickly and frequently. It means, you can connect thermostat with phone now.

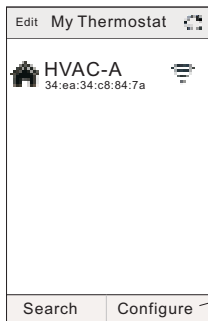
When wifi symbol stop twinkling, it means thermostat is successfully connected with your phone.

Phone part setting

During the WIFI symbol twinkling, Open "Beok AC" APP on your phone, you can see APP welcome page.



1. When the thermostat Wifi Symbol twinkling fast and continually, you can start the configure on your Phone App.



Press Configure key

2. Enter your wifi name and password, then press start connection at below. When connection successfully, it will appear "Connection Success".

< Add a new device

Add a new device to WIFI network

WIFI Name:

WIFI Password:

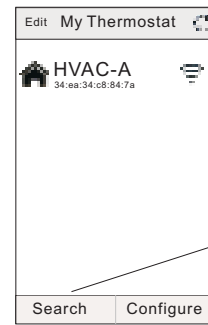
☐ Display password

<<Possible cause of wifi connection failure>>

Start Connection

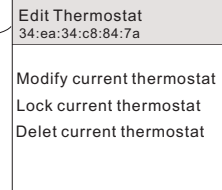
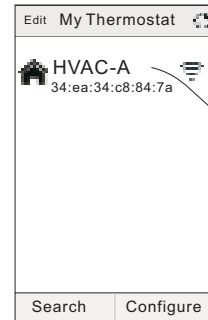
Attention: Only when the WIFI symbol twinkling continually, thermostat connection with phone will be successfully. If wifi twinkling stops but connection didn't finish, enter into Advanced setting to adjust wifi symbol again.

3. After connection success, you need press "Search" key.



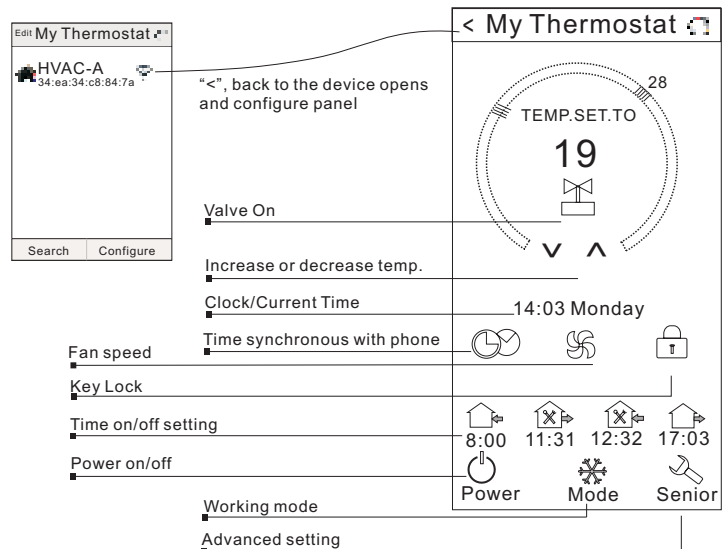
Press Search key

4. Then it will appear your wifi thermostat HVAC. HVAC is the factory setting name, when you have more than 2 thermostats, you can change it to any name you want.



- Long press HVAC for 5 seconds, it will appear Edit Thermostat page. (IOS phone: slide to left, to edit.)
- Press Modify Current Thermostat.
- For examples:.. You can change HVAC to room 1, Bedroom Bath room, or anything you like.

APP Interface on the Phone



Thermostat Setting through Phone Operation

1. Clock

Press to make the thermostat time synchronize with the current time (your phone time). You will see the words "Time sync success"

2. Fan Speed Setting

Press to select the fan speed (Low speed, Medium speed, High speed, Auto)

3. Key Lock

Press in the App interface, to lock the button of thermostat. (Go into Advanced setting, you will find 3 locking way. Unlock; Lock all button except power button; Lock all button)

4. Time Switch

Press 2 seconds to enter into time switch working, you will find bellows:

My Thermostat	Choose loop mode
Loop: Exec...	Execute once
Week Setting:	12345
	123456
	1234567
Time on setting 1: 8:00	
Time off setting 1: 11:31	
Time on setting 2: 12:32	
Time off setting 2: 17:03	
	07 59
	8 : 00
	09 01
	Cancel Ok

You can set 4 time on/off period. For example,

For example:

8:00am time-on, 11:31am time-off.(first time switch circle)

Thermostat start working automatically from 8:00am-----11:31am



2. Connect the lines with the LCD board.

3. Connect the LCD board into the wall plate.

XIII. Attention

Model	TDS21WIFI-AC2	TDS21WIFI-AC4
Thermostat	✓	✓
User Manual	✓	✓
Screws	✓	✓

Our Service:

We offer the warranty of 24 months from the sales day.

During the warranty, if it is belong to the quality issue, we will fix or replace by free after testing.

If it is not quality problem or beyond the warranty time, we will charge for the after-sales service.



Warning:



The symbol means the unit is being installed, it may cause electrical shock hazard during maintaining, so please make sure it is operated by the professional technical worker.