BAC-6000 Series Round Thermostat
User Guide

For Fan Coil Unit

Welcome

Thank you for your purchase.

Your new thermostat will provide uniform and comfortable temperature control throughout every room in your property. We bring together technology, craftsmanship and the highest quality materials to provide you with a safe, reliable product combined with sleek, contemporary design.

Please read this installation/programming manual for comprehensive instructions on installing and operating your thermostat. Please also ensure a suitably qualified person installs your thermostat and complies with all local regulations.

In the box you will find

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

ABOUT YOUR THERMOSTATS

BAC-6000 series Modern Round 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 temp. as reaching the aim of comfort and saving energy.

MODEL DEFINITION

A : Two pipe; Control Fan Coil Unit and Two Wired Motorized Valve
M : Two pipe; Control Fan Coil Unit and 0-10V Motorized Valve
E : Four pipe; Control Fan Coil Unit and Two Wired Heat Valve and Two Wired Cool Valve.
N : Modbus RTU communication   B : BACnet communication
W : Wifi connection
K : Keycard   T : Clock
W2 : Window   P : Programmable
E : External Sensor

For example: BAC-6000AW

FEATURES

On Appearance
1. Negative black screen will bring you to a secret world.
2. 51mm round display area helps to protect your eyes.
3. Glass or Acrylic Lens is for your selection.
4. Touch buttons to make simple operation.
5. Amazing Silver Frame opens your modern life.
6. The visiable thickenss above the wall is only 11mm.
7. Rotation to connect gives you easy installation.
8. 86mm hidden box and european 60mm round box is suitable.
9. White, black or gold housing creates your colorful life.

On Functionality
1. Powerful functions are available such as BACnet/Modbus/WIFI etc,.
2. 0.5°C Accuracy keeps temperature within the level you set.
3. ℃ & ℉ is changeable. (Customized Function)
4. Data memory when power is off.
5. 5+2 six periods programmable maximize comfort and economy.
6. Creat thermostat group to Centralized control
7. Interated with amazon echo and google home
8. All setting languages synchronize your time zone, address and language

DIMENSION

Unit: mm
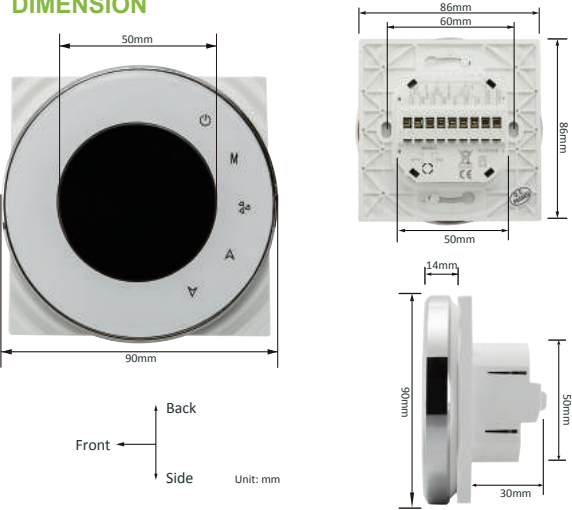
TECHNICAL DATA

Power Supply: 95 ~ 240 VAC, 50 ~ 60HZ
Fan Relay Amps Resistance: 5A; Inductive: 3A
Valve Relay Amps Resistance: 3A; Inductive: 1A
Sensor: NTC3950, 10K
Accuracy: ±0.5 ℃
Set Temp. Range: 5 -35 ℃
Dispaly Temp. Range: 5 ~ 99℃
Ambient Temp.: 0 ~ 45 ℃
Ambient Humidity: 5 ~ 95 % RH (Non Condensing)
Storage Temp.: -5 ~ 45 ℃
Power Consumption: <1.5W
Timing Error: < 1%
Shell Material: PC +ABS (Fireproof)
Installation Box: 86 * 86mm Square or European 60mm Round Box
Wire Terminals: Wire 2 x 1.5 mm2 or 1 x 2.5 mm2
Protection Class: IP20
Buttons: Capactive Touch Buttons

BEFORE WIRING AND INSTALLING...

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
3. Installer must be a trained, experienced service technician.
4. After installation is complete, check out product operation as provided in these instructions.

⚠ CAUTION

Electrical Shock or Equipment Damage Hazard. Can shock individuals or short equipment circuitry. Disconnect power supply before installation.

WIRING

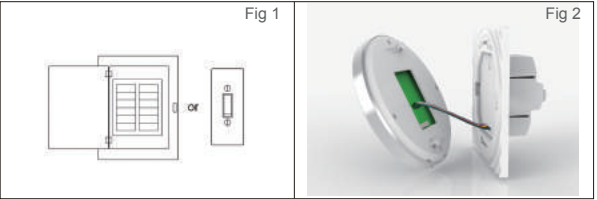Two Pipe, On/off   Four Pipe, On/off   Two Pipe, Modulating
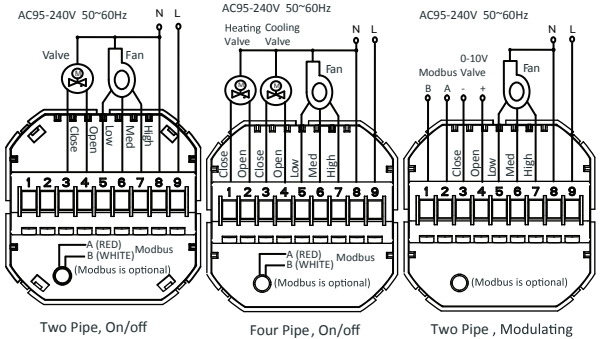
INSTALLATION

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

Step 1. Keep the electricity off. See Fig 1.
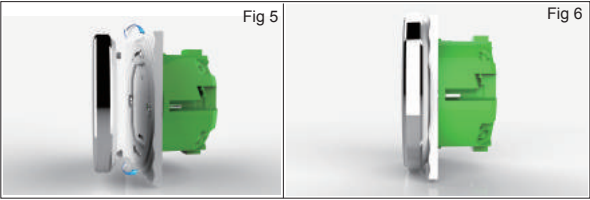Step 2. Remove the mounting Plate by rotating the LCD part. See Fig 2.

Fig 1   Fig 2

Step 3. Connect power supply, load into the appropriate terminals. (see "Wiring your thermostat" for details and Fig 3).
Step 4. Fix the mounting plate into the wall with screws in the box. See Fig 4.
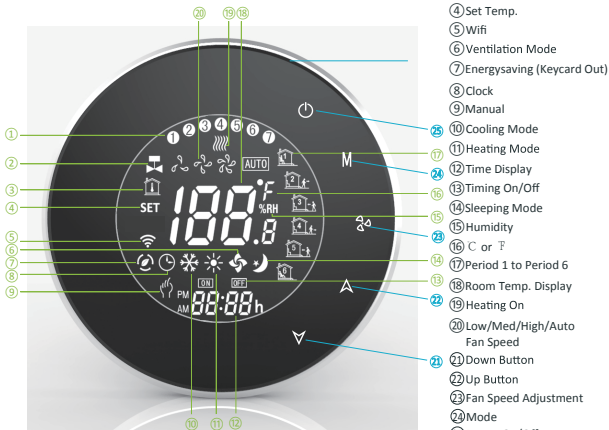
Fig 3   Fig 4
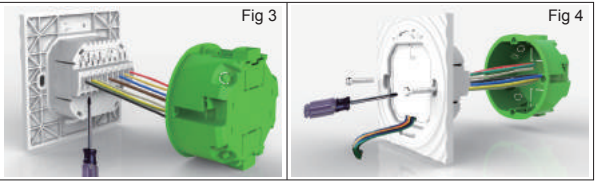
Step 5. Fasten body of thermostat and the mounting plate through rotating. See Fig 5.
Step 6. Installation complete. See Fig 6.

Fig 5   Fig 6

HOME SCREEN QUICK REFERENCE

① Monday To Sunday
② Valve On
③ Room Temp.
④ Set Temp.
⑤ Wifi
⑥ Ventilation Mode
⑦ Energysaving (Keycard Out)
⑧ Clock
⑨ Manual
⑩ Cooling Mode
⑪ Heating Mode
⑫ Time Display
⑬ Timing On/Off
⑭ Sleeping Mode
⑮ Humidity
⑯ ℃ or ℉
⑰ Period 1 to Period 6
⑱ Room Temp. Display
⑲ Heating On
⑳ Low/Med/High/Auto Fan Speed
㉑ Down Button
㉒ Up Button
㉓ Fan Speed Adjustment
㉔ Mode
㉕ Power On/Off

OPERATION

During Power On

1. Power On/off: Press ⏻ to turn the thermostat on/off.

2. Manual & Programmable
Press and hold M, will flash. Press Λ to select manual and press Ⅴ to select weekly programmable.

3. Setting Temperature
In the mode of manual, press Λ Ⅴ to set temperature. will display in the left corner of screen.

4. Locking Your Thermostat
Press and hold the ΛⅤ for 5 seconds to lock/unlock your thermostat. In item 3 of high senior options, you can select full lock or half lock.

5. Selecting System Mode
Press M to change the system mode HEATING, COOLING and VENTILATION. In the mode of VENTILATION, the valve is off but the fan runs.

6. Setting the Fan Speed
Press ♨ to select the fan speed AUTO, HIGH, MED, LOW.

7. Restore Manufacturer Defaults
Press the Restore Manufacturer Defaults ,you can reset thermostat (See Fig 9-3).

8. Adjusting/Setting the Clock
Press and hold M , will flash. Press M to set minute,hour and weekday (1 = Monday, 2 = Tuesday etc.) by using the Λ Ⅴ arrows,after 3 seconds the value will be confirmed automatically.

9. Adjusting the Weekly Programmable
Press M to do the adjustment of weekly programmable.
Then press M to change the different items. Press Λ or Ⅴ to set the relative values.
Your thermostat provides six scheduled heating and cooling periods each day – three Comfort periods - 1, 3 & 5 (the temperature required when room is occupied) and three Economy periods – 2, 4 & 6 (the temperature required when room is unoccupied).You can set both the time and temperature for each of these six daily periods. Adjusting/setting the schedules can only be carried out when in program mode;Touch M (mode) to change between manual mode
and programme mode. In manual mode, will show in the bottom left of the screen.Touch the icon M for four times until the weekday schedule settings appear (1 2 3 4 5 will show along the top of the screen).
Use the Λ and Ⅴ arrows to adjust the time for the 1st (Comfort) period Press the icon M and use the Λ and Ⅴ arrows to set the temp. for the 1st period. Repeat this process for periods 2 – 6. Press the icon M once more to enter the weekend schedule settings (6 & 7 will show along the top of the screen). Repeat the above process to set the weekend schedule. Press M once more to confirm and exit.

Default settings for program schedule

Time display	WEEKDAY (MONDAY – FRIDAY) (1 2 3 4 5 shows on screen)		WEEKEND (SATURDAY) (6 shows on screen)		WEEKEND (SUNDAY) (7 shows on screen)	
	TIME	TEMPERATURE	TIME	TEMPERATURE	TIME	TEMPERATURE
Period 1	06:00	20°C	06:00	20°C	06:00	20°C
Period 2	08:00	15°C	08:00	20°C	08:00	20°C
Period 3	11:30	15°C	11:30	20°C	11:30	20°C
Period 4	13:30	15°C	13:30	20°C	13:30	20°C
Period 5	17:00	22°C	17:00	20°C	17:00	20°C
Period 6	22:00	15°C	22:00	15°C	22:00	15°C

In the mode of programmable, set temp., time and timing on/off could not be adjusted.

During Power Off

Setting the Functions and Options
When power is off, press and hold M and ♨ at the same time for 5 sec. in order to reach system function.
Then press M to change the different items.
All the settings will confirm automatically when power is on.

Code	Function	Setting and options	Default
1	Temperature compensation	-7 to 7°C	-1
2	Fan control	00:When room temp. reaches the set point,the fan will turn off 01:When room temp. reaches the set point,the fan will turn to low speed	0
3	Button Locking	00:All buttons are locked except power button 01:All buttons are locked.	01
4	Heat/cool	00:Cool only 01:Heat/Cool	01
5	Min. Set Temp.	5 to 15°C	05
6	Max. Set Temp.	5 to 35°C	35
7	12/24 hours	00:12h 01:24h	01
8	Display Mode	00: Display both set temp. and room temp. 01: Display set temp. only	00
9	Energy saving Mode	00: Non-energy saving Mode 01: Energy saving Mode,set Temp. keep economy Temp.	00
A	Heating Economy Temp.	10 to 30°C	20
B	Cooling Economy Temp.	10 to 30°C	26
C	Deadband Temp.	1 to 5°C	1
D	Standby Brightness of backlight	3-99 bigger value,more brightness	4

WI-FI CONNECTION

App language is the same as your phone's default language, it supports multi-languages:

Chinese	English	German	French	Russian	Japanes	Greek
Spanish	Italian	Hebrew	Turkish	Arabic	Dutch	

If language not include,English is the default language.

Before using your Wi-Fi thermostat for the first time,you must configure the Wi-Fi signal and settings through your smartphone or table.This will allow communication between your connected devices

Step 1 Download your APP (Fig 1-1)

Fig 1-1   Fig 1-2 IOS   Fig 1-3 Android

For IOS devices, search for My BecaSmart in Apple Store and download. alternatively,scan the relevant QR code here (Fig 1-2)

For Android devices, search for My BecaSmart in Google Play and download.Alternatively,scan the relevent QR code(Fig 1-3).

Step 2 Register

"*Beca Smart*" would like to send you notifications may include sounds and icon badges.These can be configured in settings,please click "*Allow*" (See Fig 2-1), then you will see the register page, input your phone or email and do as steps below .
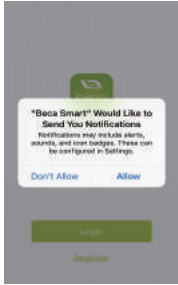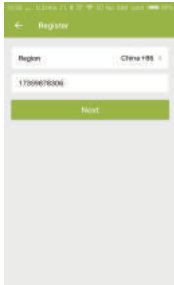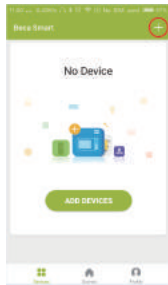
(Fig 2-1)   (Fig 2-2)   (Fig 2-3)

Step 3 Connect your Wi-Fi signal

Press the "+"on the upper right corner of the page (see Fig 2-3).
Note: If your routers doesn`t support ZP Mode or the wifi signal is weak,please choose AP mode to connect wifi signal.AP mode supports all router and even wifi signal is weak.
On your thermostat
EZ mode: With the EZ mode distribution network,you need to set the indicator to flash.Please follw these steps to complete the setup.
Step 1 Install the device and connect the power.Keep the device off.
Step 2 Press and hold"Button Down ∀ " for 8 seconds.
Step 3 The icon"🛜" on the screen will flash one time per second.
Make sure the light is blinking.Any details see enclosed documents
"How to make indicator rapidly blink"
AP mode: Using the mode AP to configure the net work, you need to set the indicator to slow flashing.Please finish the setting according to the following steps:
Step 1 Install the device and connect the power.Keep the device off.
Step 2 Press and hold"Button Down ∀ " for 8 seconds.(See Fig 3-2)
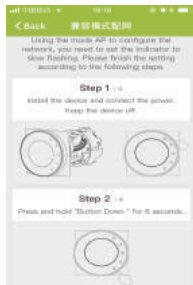Step 3 The icon"🛜" on the screen will flash one time per second.

Step 4 Press and hold the "Button Down"again for 8 seconds.The icon " 🛜 " on the screen will flash one time every 3 seconds.(See Fig 3-3) Any details see enclosed documents "How to make indicator slowly blink"(See Fig3-1)

(Fig 3-1)   (Fig 3-2)   (Fig 3-3)

If choose EZ mode, the app will search your available wireless router and input password.(See Fig 4-1)

If choose AP mode,please follow these steps to setup.
Step 1 Confirm the indicator slowly blink,and input wifi password;
Step 2 Select thermostat wifi signal "Smartlife-CE4A" and press Connect Now (See Fig 4-2)
Step 3 Go back to App My BecaSmart,it will connect automaticaly . This setting maybe typically takes about 5~60 seconds to complete.
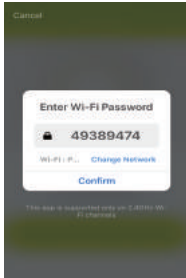
(Fig 4-1)   (Fig 4-2)   (Fig 4-3)

Note 1:
The room has a power button 🔘 ,you can turn on/off with it.

Wifi connected,Setting your devices

3. If wifi connected,your rooms will display at the page (see Fig 4-1), you can click and enter your room.
Note 2:
Click on your room from the home screen and begin setting your thermostat (Fig 5-1)

🔴 Power on/off button,press it,turn on the device,press it again, turn off the device.

Mode button. In this mode you can set cooling, heating and ventila-tion. ❄ is heating, is cooling and is ventilation.

Low Fan Speed button. Press this button to select auto, low, med and high speed. is auto speed, is low speed, is med speed, and is high speed.

🔒 Lock/Unlock button. If button is green, the screen is "locked". If button is grey, the screen is "Unlocked"

Econony button,in this mode,the temperature will be keep 26 degree.This temperature cannot be changed or adjusted.

Manual button:In this mode,your heating can be set manually (ie.Not using the pre-programmed settings)

Program button. When this button shows, your thermostat is in program mode and will follow any pre-set heating schedule. When in Manual mode, press the button to select mode and vice-versa.

* Slide the yellow button backwards or forwards to manually adjust the temperature, the temperature will show in the centre of the page. After a few seconds the current room temperature will show.
* When in Program mode, click on the schedule logo (At the bottom of the page) to be taken to the schedule page(See Fig 5-1) where you can simply click on the working days (Mon-Fri) and then the time/Temp. to adjust to your prefered schedule.
* You can set 6 periods - time and temp. (Fig 5-2 and5-3)
* Repeat the above after clicking on the Weekend (Sat –Sun) settings at the top of the page
* Once your schedule has been set, click on SAVE and the App will send your schedule to your thermostat and confirm the schedule has been saved.
* your thermostat can be controlled by multiple devices.Simply download the BECA SMART App and share from the first connecter Multiple devices cannot control one thermostat simultaneously.
* The unique ID number of your thermostat is displayed on a sticker on the rear of your thermostat.
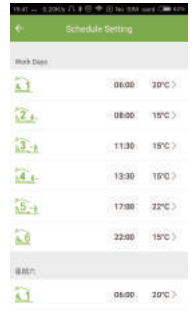
(Fig 5-1)   (Fig 5-2)   (Fig 5-3)

Create Group

* You can create group for your thermostats.(See Fig 9-2 and Fig 9-3) Thermostats in the group can be centrally managed at the same time.

Creat Your Own Scene

Customize your own personal scenes to suit your needs.For example, set your home to automatically turn on thermostat on when you back home.Any details (see Fig 9-1 and 9-2)
Step 1: You can set a condition for Task like Temperature below 20 degree,then click Save.(Condition:Temp.,Humidity,Wether,PM2.5, Air Quality,Sunrise/Sunset,Device)
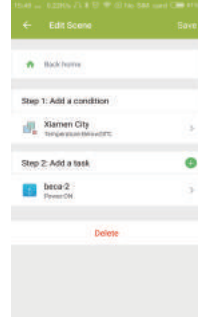
Step 2: Add a task,press + to Select Device (Power ,Set Temp,Lock Mode) to act, then Save.If you want to delete the scene,you can press Delete below.
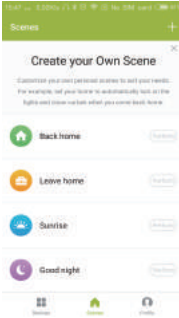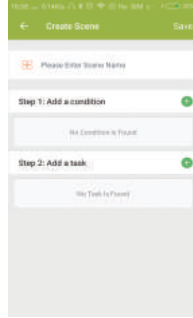
(Fig 6)   (Fig 6-1)   (Fig 6-2)

Note 2:Scene mode takes precedence over programming mode, all the Temp. Humidity,weather,PM2.5,Air quality,sunrise /sunset will be synchronized with your time zone and location.

Profile Setting (See Fig 7)

Setting :Press Settings you can set sound and Viabration,push Notification and clear Cache if you want.
*Set your own profile,*your profile picture,Nick name,temp. unit,location, time zone pattern unlock and change login password(see Fig 7-1)
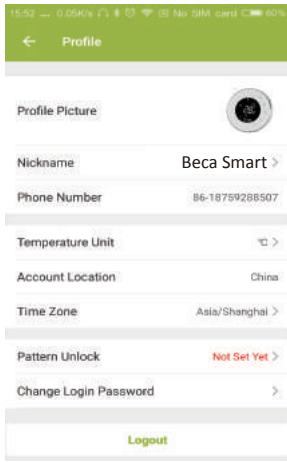*Logout* :If you want logout,please press "*logout*"
Scenes :Press the arrow you will be taken to the Scenes page.
Device Sharing: You can share your devices to your family members or received from others (See Fig 9-2,9-3 and Fig 8-1,8-2,8-3)
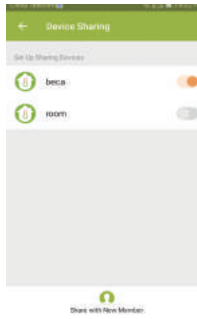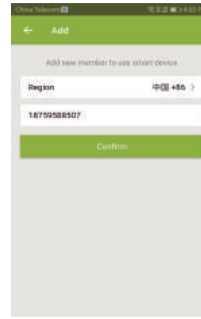*Message Center:* Messages will be list in the center from Support
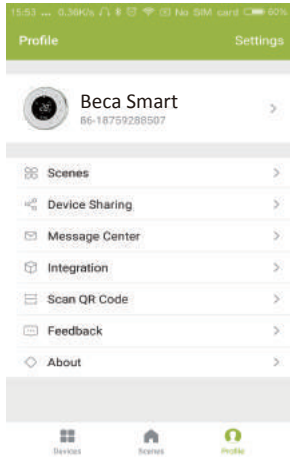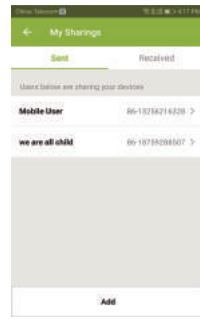

(Fig 7)   (Fig 7-1)

Device Sharing:

(Fig 8-1)   (Fig 8-2)   (Fig 8-3)

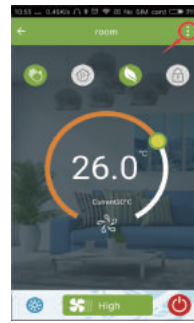### Integration-Support Third Party Control

Your thermostat can work with amazon echo and Google Home
How to control your device via Echo,please press "*Use Now >*" then you can see the steps enclose.
How to control your device via google Home,please press"*Use Now >*",then you can see the steps enclose.(See Fig 9-1) Or you can contact third-party via device room as Fig 9-2 and Fig 9-3
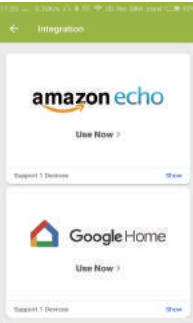
(Fig 9-1)   (Fig 9-2)   (Fig 9-3)

SIMPLE EXCEPTION HANDLING

No.	Phenomenons	Handling
1	Power is on but without display.	* Check if the terminals between LCD panel and Power Unit Box is loosen.
2	Without output but display works.	* Use a new LCD panel or new Power Unit Box to replace the old one.
3	Room Temp. is a little different from the actual.	* Do temperature calibration in item 1 of high senior options

SERVICE

Your thermostat carries an 18 month warranty from date of purchase. Service outwith the warranty period may incur a charge. More detail please contact with us directly.