TGR87 ROUND FAN COIL THERMOSTAT

I. Product Summary:

TGR87 series Fan Coil Thermostat is touch screen thermostat with round shape. It was sliver edge, with white or black circle for choose.

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.
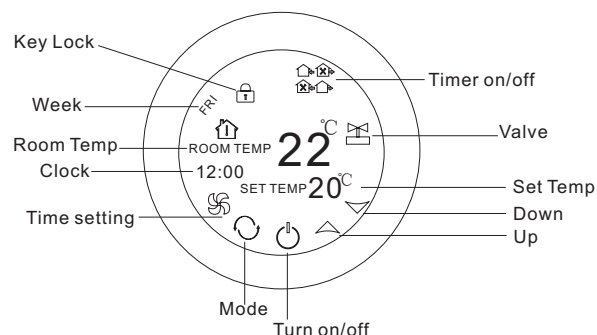
II. Technical Parameter:

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

III. Main Functions and Characteristics

1. Heating, cooling, ventilation mode.
2. Glass screen display and touch screen type, round shape.
3. 2 pipe and 4 pipe for choose.
4. 3 fan speed+Auto.
5. Time switch function, 4 period a day setting.
6. Temperature compensation when differs from actural temp.
7. Selectable 80mmx80mm European hidden box.
8. Key Lock function.
9. Fan coil in-control and out-of-control adjustable.(only for 2 pipe)

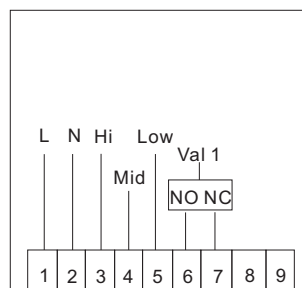## IV. User Interface Explanation(Thermostat Port)

V. Model Spec

Model	Current Loading	Time switch	Key Lock	Controlled Objects
TGR87-AC2	3A~5A	✓	✓	2 pipe central air conditioner
TGR87-AC4	3A~5A	✓	✓	4 pipe central air conditioner

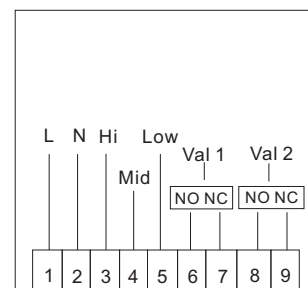## VI. Dimension

85mm · 85mm · 50mm · 25mm · 18mm · 8mm

VII. Wiring Diagram

2 pipe

4 pipe

VIII. 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.
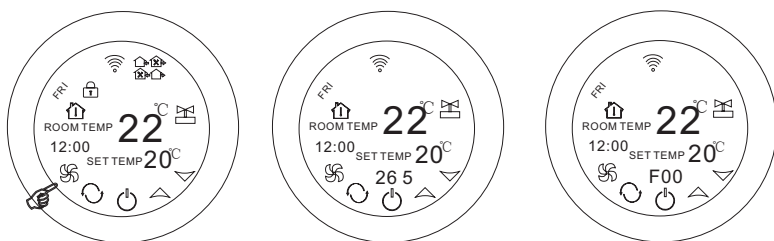
9.Advanced Setting Mode

Temperature Adjustment
(Attn: Only when your room temperature is different with actual temperature, you do this operation.)

In power-on status, press ✿ about 7 seconds, then "XX X" will display on the bottom of the screen. For Example: "26 5" means temp is 26.5℃ then you can press △▽ to modify the temperature.

It will confirm automatically after correct temp twinkling 7 seconds.

Fan Coil Controlling Mode Setting(Only for 2 pipe)
(You can select the fan coil In control & Out of control.)

In power-on status, press ✿ about 7 seconds, "XX X" will display on the bottom of the screen, then continue to press ✿ again, "F00" or "F01" will display. Press △▽ to choose "F00" or "F01"

In "F00" mode:
when room temperature reaches to the setted temp, the fan coil stops working.

In "F01" mode:
when room temperature reaches to the setted temp, the fan coil goes on working.

IX. Installation Instruction

The products suits for standard 80*80mm wall box or 60*60mm Europe round box

1   2   3   4

1.Turn off the main power.Take away the front display screen part, then use screwdriver to open the installation panel.

2. Refer the wiring diagram(VII) to connect the lines with terminals. Fix the installation panel with installation box with screws, and insert into wall

3. Insert the display screen part into the installation panel.

4. Installation finished.

NOTICE: The installation wire should be 1.5-2.5mm2.

X. Attention

Thank you for buying this 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.
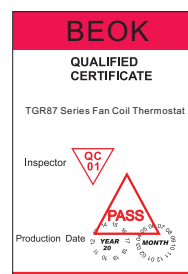
In the box you will find:

Model	TGR87-AC2	TGR87-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.

BEOK
QUALIFIED CERTIFICATE
TGR87 Series Fan Coil Thermostat
Inspector
Production Date
CE
RoHS

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.