BEOK CONTROLS

TGT70 GLASS SCREEN THERMOSTAT

I. Product Summary:

TGT70 series thermostats are luxurious programmable thermostat with large screen display. It is applied to temperature control of industrial, commercial and domestic room,and start of control heating applicance, especially used in the floor-heating systems.
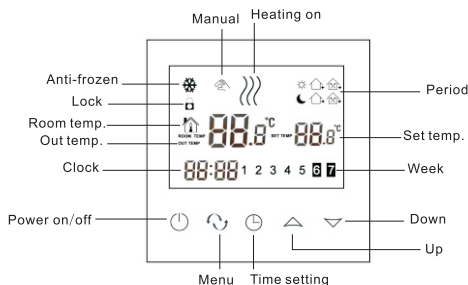
II. Technical Parameter:

Power Supply	200～240V 50～60Hz
Current Load	≤3A（water heating） ≤16A（electric heating）
Power Consumption	<0.3W
External Material	PC+ABS (flame retardant)
Sensing Element	NTC
Set Temp. Range	5-99℃ (factory setting 5-35℃)
Floor Set Temp. Range	5-99℃
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. Modern design similar as a cell phone.
2.Large screen display and touch button.
3.Power-off memory function.
4.Real-time data save function.
5.5+2 or 6+1or 7days six periods program schedule.
6.Selectable 80mmx80mm European hidden box.
7.Precise comfort control keeps temperature within1°C of the level you set.

IV. User Interface Explanation

Manual | Heating on
Anti-frozen
Lock
Room temp.
Out temp.
Clock
Power on/off
Menu | Time setting
Period
Set temp.
Week
Down
Up

V. Model Definition
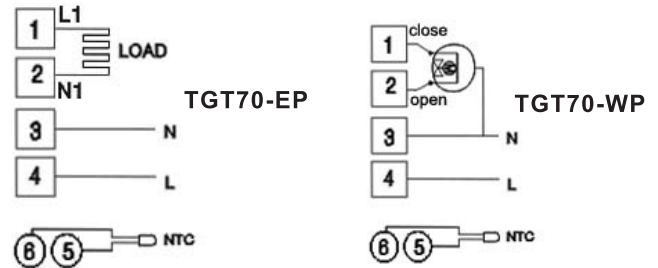
WP: For Water Heating System, 3A
EP: For Electric Floor Heating System, 16A
For example: TGT70-EP   TGT70-WP

VI. Model Spec

Model	Current Loading	External Sensor	Week Programmable	Child Lock	Drop up
TGT70-EP	16A	√	√	√	Optional
TGT70-WP	3A		√	√	Optional

VII.Wiring Digram


TGT70-EP   TGT70-WP

VIII. 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 Clock
Press ⏰ to set minute, hour and week.
Press △▽ for adjusting.

4. Setting the Manual Mode.
Manual mode means non-programmable mode.
Press ↻ then ✎. will display in the screen, it is in manual mode.
Press △▽ to set the temperature.
Press ⏰ to set minute, hour and week.

5. Setting the Child Lock
Long press ⏰ to enter into child lock mode, 🔒 will display.
Long press ⏰ again, the child lock will be disappeared.

6. Setting the Programmable Mode.
Press and hold ↻ into programmable mode. LOOP and 12345 will display.
Press △▽ to select the control way: 5+2 or 6+1 or 7 days programmable.
12345 display in the position of week means 5+2;
123456 display in the position of week means 6+1;
1234567 display in the position of week means 7 days programmable.
Press ↻ to select the periods.
Press △▽ to change the temperature;
Press ⏰ to do time adjustment.
Press △▽ to change the time;
Press ↻ again to select the weekend's temp.
If you want to make temporary adjustment in any period,
press ↻ then ✎. will flash. When finish the setting, all will confirm automatically.

Press ↻ to switch operation between manual mode and programmable mode.

Period		Period Icon	Defaulted Time	Defaulted Temp.
Week	1	☀	6:00	20℃
	2	⌂	8:00	15℃
	3	🏠	11:30	15℃
	4	🏠	12:30	15℃
	5	⌂	17:30	22℃
	6	☾	22:00	15℃
Weekend	1	☀	8:00	22℃
	2	☾	23:00	15℃

Remark:
(1) The defaulted temperature of period3 and period4 is the same as period2. Please change it according to the request.
(2) When setting temperature is 00, this period is power off.
(3) How to check floor temp?
During power on, press and hold ⏰ then press the button of power to check floor temp.. OUT TEMP will display.
Press ⏰ again to display room temp.

7. Advanced Setting

In the state of power-off, long press and hold ⏲ then press ⏻ into advanced setting mode. Then press ↻ to set relative item.

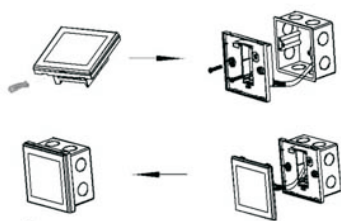| Display Code	Function	Setting And Options	Factory Defult
SEN	Sensor mode	0:Internal sensor 1:Floor sensor 2:Both internal sensor and floor sensor	0
OSV	Set temp. range for floor sensor	5-99℃	42℃
DIF	Deadzone for floor temp.	1-9℃	2℃
SVH	High limit temp. for internal sensor	5-99℃	35℃
SVL	Low limit temp. for internal sensor	5-99℃	5℃
ADJ	Measure temp.	Check and calibrate the actual room temp.	0.5℃accuracy calibrate
FRE	Anti-frozen	00 : Close anti-frozen 01 : Open anti-frozen	00
PON	Power memory	00 : Power memory off 01 : Power memory on	00
FAC	Factory setting	00 : Return to factory setting 08 : Just display	08

Remark:
Deadzone for floor temp.: i.e. the setting deadzone for floor sensor is 2, OSV is 42℃, when actual temp. reach 44℃, the relay will stop working; when actual temp. is back to 40℃, the relay starts working again. It works when room temp. is lower than set temp.

Sensor error:
Please select the right sensor mode. If select the different mode or there is error of sensor, Err will display on the LCD screen, the thermostat will stop heating till the problem is solved.

IX. Installation Instruction

This product is suitable for standard 80*80mm wall box and 60 mm european round box.

1.Connect the line of power and valve into the terminals. Fix the wall plate into the wall box by a screwdrive.

2.Connect the lines with the LCD board.

3.Connect the LCD board into the wall plate.

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

X. ATT:

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.
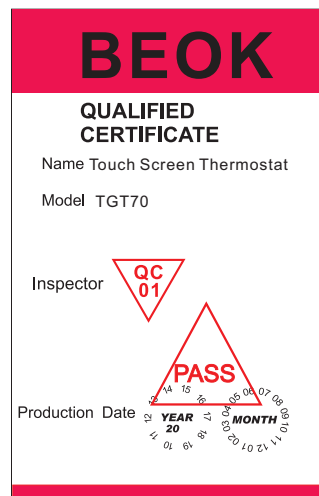
In the box you will find:

Model	TGT70-EP	TGT70-WP
Thermostat	√	√
User Manual	√	√
Screws	√	√
Dryer	√	√
External sensor	√	

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 them for you by free after test them.

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.