



BEOK 2025 CATALOG

Electric Underfloor Heating
Thermostat



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About BEOK

CE RoHS RED EAC

Shanghai Beok Controls Co., Ltd, founded in 2010, has over 10 years experience to integrate the research, development and production of HVAC control system products. We adhere to the strict and practical product requirements, and take a serious and responsible attitude to provide every customer with better products and better services.



BEOK Service



Customize
Program



Customize
App



Design/
Printing



Customize
Product Color



Customize
Package



ODM
Service

Main Functions of BEOK Thermostats



App control (Wi-Fi model only)

Control the heater remotely by smart phone.



Voice control (Wi-Fi model only)

Controlling the heater via smart speakers.



Programmable schedule

Set the temperature for each time of day and make it cycle automatically every day.



Temperature calibration

Calibrate thermostat display to actual room temperature.



Child lock

Lock the keypad when you need it to avoid misuse.



Non-volatile memory

Various current settings of the thermostat can be memorized in case of power failure.



Anti-freeze

Maintains room temperature at 5°C to prevent electronic devices from freezing. Can be turned on or off in the advanced settings.



Adjustable backlight

The brightness of the backlight can be adjusted so that the glare does not affect your rest.

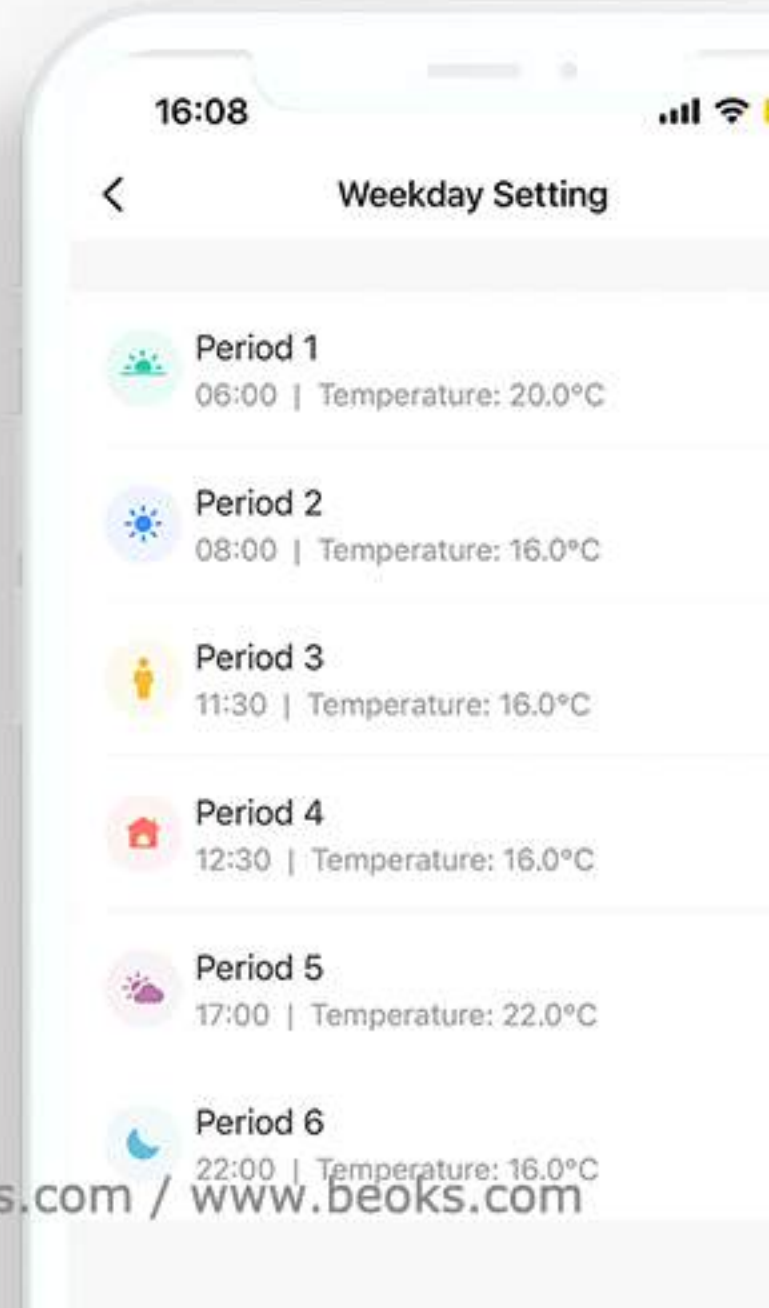
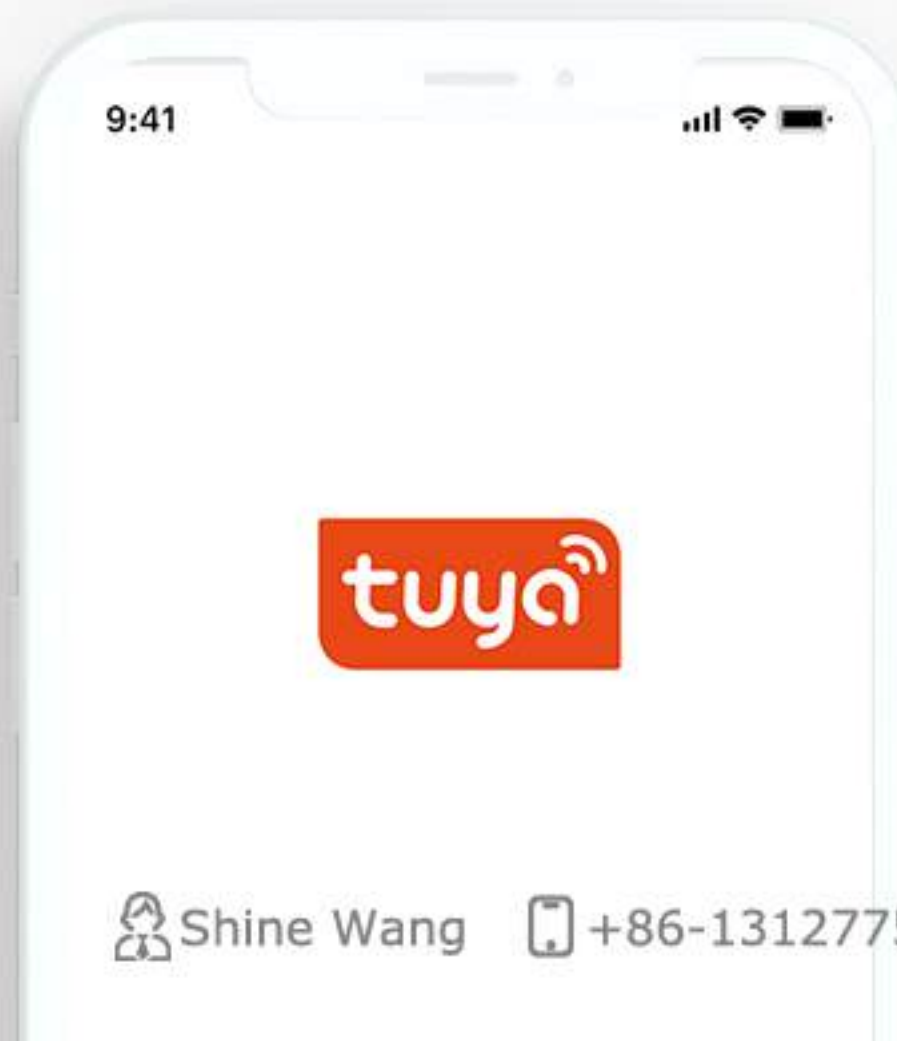
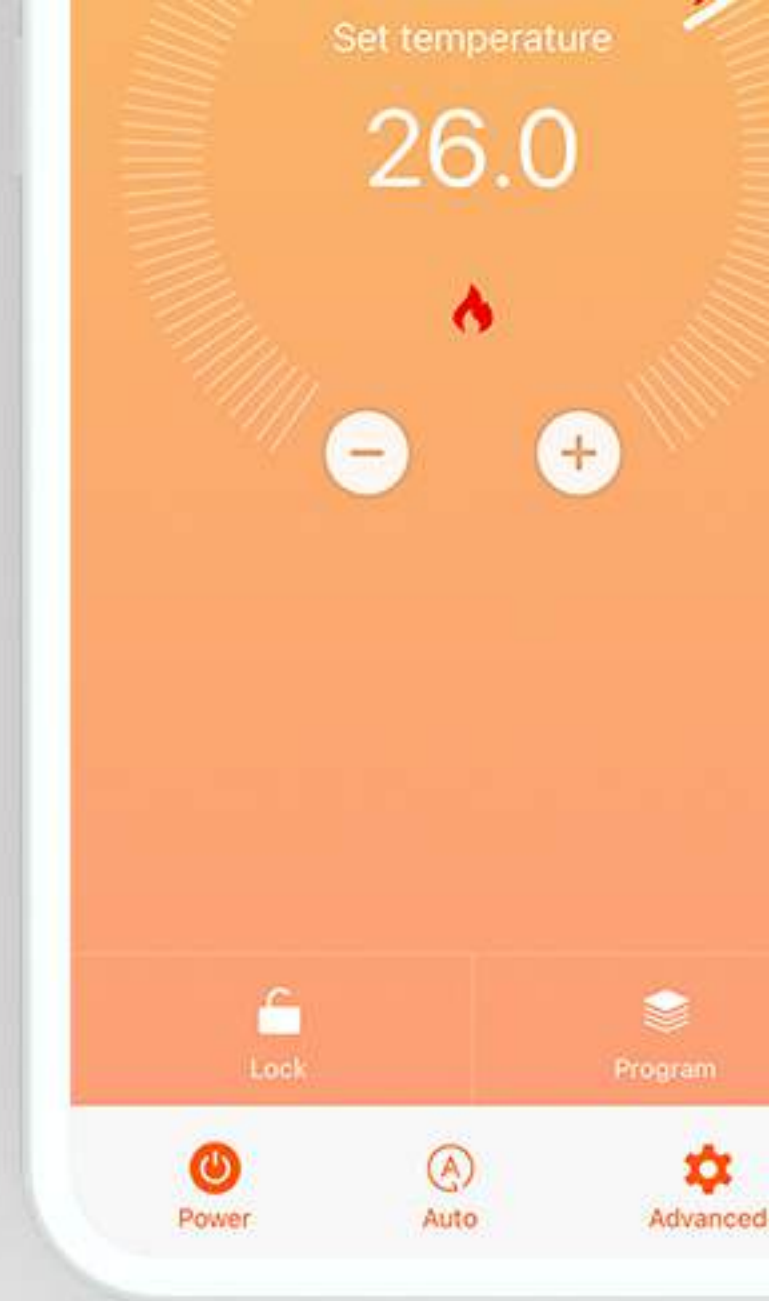


Constant temperature

The temperature hysteresis can be set to a minimum of 0.5°C, effectively preventing indoor temperature differences.

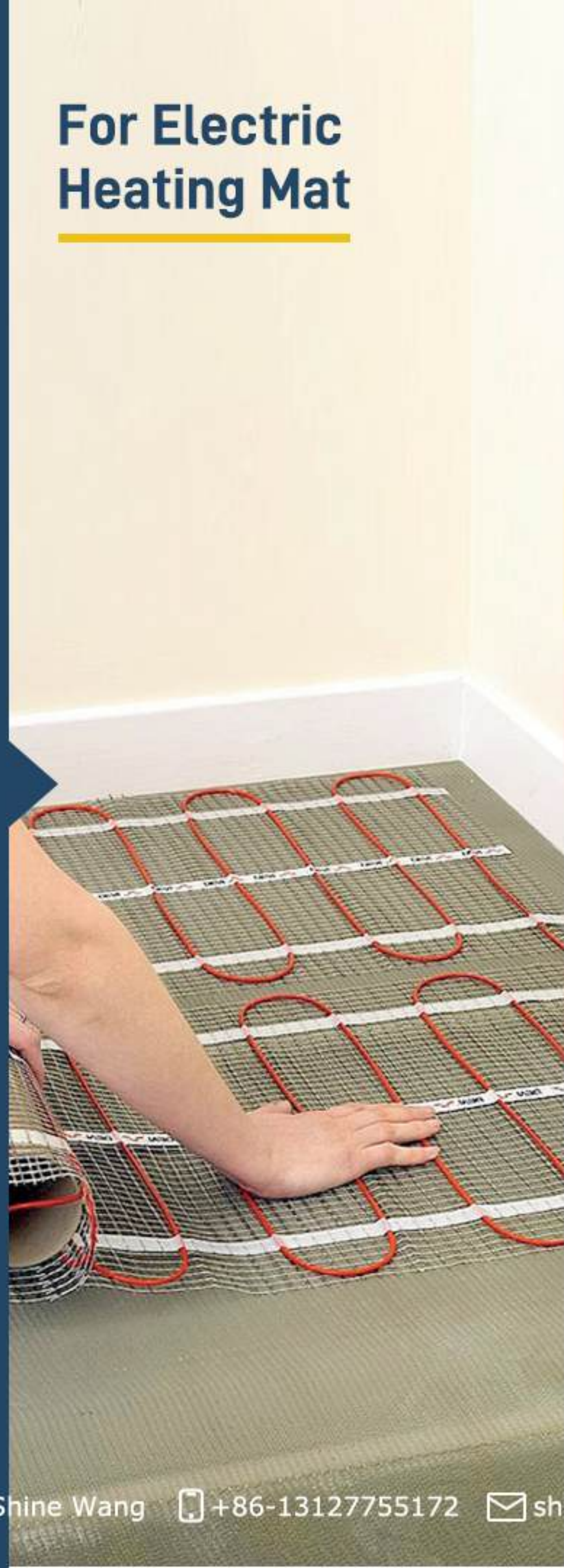
Individual functions may vary depending on the model, please refer the product introduction page for details.

Thermostat App Interface



Electric Underfloor Heating Thermostat

For Electric Heating Mat



For Electric Heating Film



For Electric Heating Cable

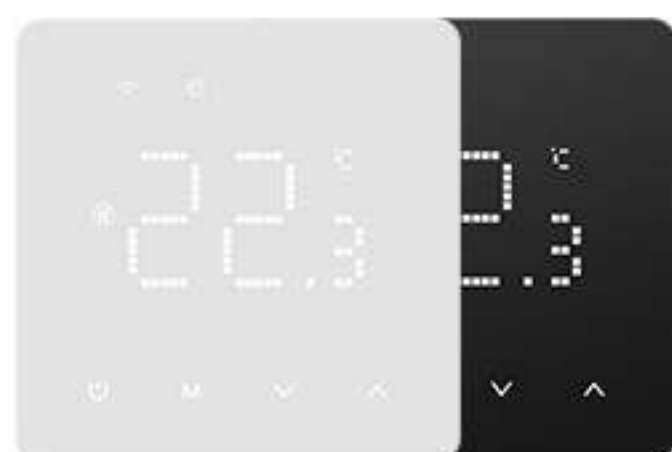


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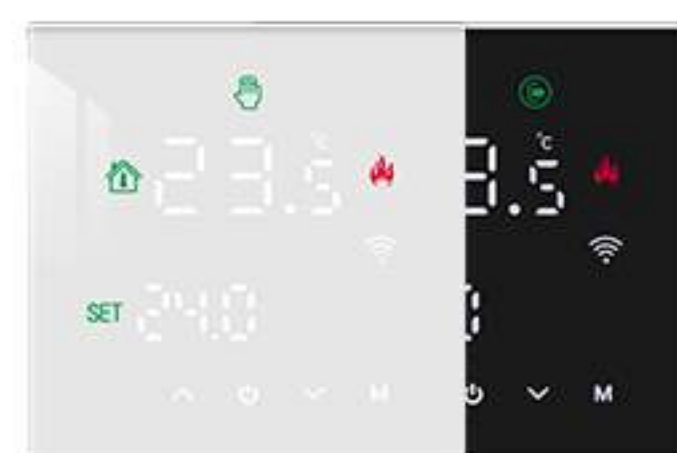
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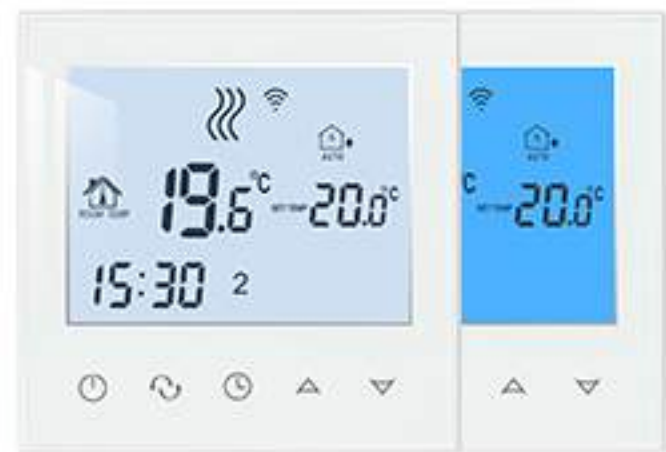
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BEOK Electric Underfloor Heating Thermostat



Model No.
TOL47-EP



86x86x14mm. Frosted case with large anti-reflective LCD screen. 5 mechanical keys.

Work with Tuya apps | iOS & Android

Support smart speakers



Technical Data

Power supply
AC100~240V; 50/60Hz

Load current
16A

External material
PC+ABS (flame retardant)

Working environment
-5~50°C

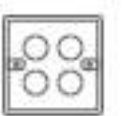
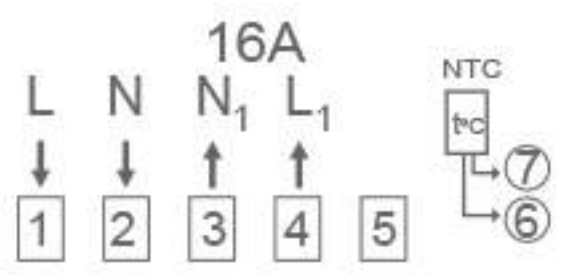
Set temp. range
5~95°C (default 60°C)

Temperature hysteresis
±0.5~±9.9°C Adjustable
(default ±1°C)

Temperature sensor
NTC

Wiring Diagram

For Electric Underfloor Heating



Suitable for standard 86mm junction box or European 60mm box.

Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 100~240V	Electric Heating(16A)	Wi-Fi	External Sensor
TOL47-EP	✓	✓		✓
TOL47-WIFI-EP	✓	✓	✓	✓

BEOK Electric Underfloor Heating Thermostat

Model No.

TGM50-EP

86x86x12.5mm. Frosted one-piece body with 4 touch keys. 2 colors optional.

Work with Tuya apps  | iOS & Android

 **zigbee** | Zigbee Model Optional

Support smart speakers   



TGM50-EP



TGM50B-EP



Special Feature



Open-window Detection

This thermostat stops heating when there is a sudden drop in room temperature to minimize wasted energy due to open windows.

Technical Data

Power supply

AC100~240V;
50/60Hz

Load current

16A

External material

PC+ABS (flame retardant)

Working environment

-5~50°C

Set temp. range

5~95°C (default 60°C)

Temperature hysteresis

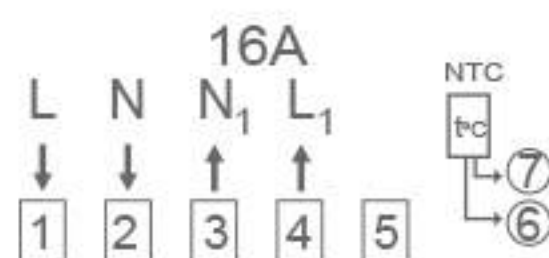
±0.5~±9.9°C Adjustable
(default ±1°C)

Temperature sensor

NTC

Wiring Diagram

For Electric Underfloor Heating



Suitable for standard 86mm junction box or European 60mm box.

Selection Table

Model	Power Supply	Application	Remote Control		Additional
	AC 100~240V	Electric Heating(16A)	Wi-Fi	Zigbee	External Sensor
TGM50-EP / TGM50B-EP	✓	✓			✓
TGM50-WIFI-EP / TGM50B-WIFI-EP	✓	✓	✓		✓
TGM50-ZB-EP / TGM50B-ZB-EP	✓	✓		✓	✓



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TGP5 Series Thermostats

Work with Tuya apps | iOS & Android | Support smart speakers

Technical Data

Power supply
AC100~240V; 50/60Hz
Load current
16A
External material
PC+ABS (flame retardant)
Working environment
-5~50°C

Set temp. range
5~95°C (default 60°C)
Temperature hysteresis
±0.5~±9.9°C Adjustable
(default ±1°C)
Temperature sensor
NTC

Wiring Diagram



Suitable for standard 86mm junction box or European 60mm box.



TGP53-EP



TGP508-EP



Model No.
TGP53-EP



86x86x13mm.

Glass screen, 3 subtle shiny silver physical buttons with icons that light up when woken up.

Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 100~240V	Electric Heating(16A)	Wi-Fi	External Sensor
TGP53-EP	✓	✓		✓
TGP53-WIFI-EP	✓	✓	✓	✓



Model No.
TGP508-EP



86x86x14mm. 3 vertically distributed touch keys.

Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 100~240V	Electric Heating(16A)	Wi-Fi	External Sensor
TGP508-EP	✓	✓		✓
TGP508-WIFI-EP	✓	✓	✓	✓

BEOK Electric Underfloor Heating Thermostat



Model No.
TGP51G-EP



86x86x13mm.
Glass screen, 4 touch keys with silver icons.

Work with Tuya apps or BEOK Home    | iOS & Android

Support smart speakers   



Technical Data

Power supply
AC200~240V; 50/60Hz

Load current
16A

External material
PC+ABS (flame retardant)

Working environment
-5~50°C

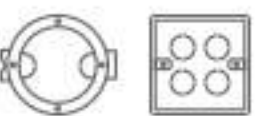
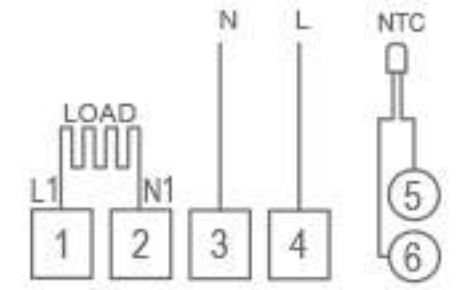
Set temp. range
5~95°C (default 60°C)

Temperature hysteresis
±0.5~±9.9°C Adjustable (default ±1°C)

Temperature sensor
NTC

Wiring Diagram

For Electric Underfloor Heating



Suitable for standard 86mm junction box or European 60mm box.

Selection Table

Model	Power Supply	Application	Remote Control	Additional
	AC 200~240V	Electric Heating(16A)	Wi-Fi	External Sensor
TGP51G-EP	✓	✓	✓	✓
TGP51G-WIFI-EP	✓	✓	✓	✓

Model No. **TGW60-EP** 86x86x12.5mm. LCD glass display with touch keys. 2 colors optional.

Work with Tuya apps  | iOS & Android

Support smart speakers   



TGW60W-EP



TGW60B-EP



Technical Data

Power supply
AC100~240V; 50/60Hz

Load current
16A

External material
PC+ABS (flame retardant)

Working environment
-5~50°C

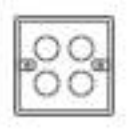
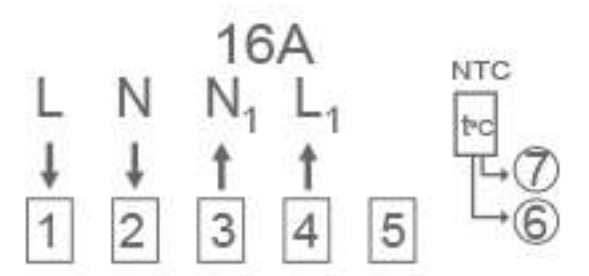
Set temp. range
5~95°C (default 60°C)

Temperature hysteresis
±0.5~±9.9°C Adjustable (default ±1°C)

Temperature sensor
NTC

Wiring Diagram

For Electric Underfloor Heating







Suitable for standard 86mm junction box or European 60mm box.

Selection Table

Model	Power Supply	Application	Remote Control	Additional
	AC 100~240V	Electric Heating(16A)	Wi-Fi	External Sensor
TGW60W-EP / TGW60B-EP	✓	✓		✓
TGW60W-WIFI-EP / TGW60B-WIFI-EP	✓	✓	✓	✓

TDR8 Series Thermostats


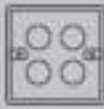
Work with Tuya apps  | iOS & Android | Support smart speakers   

Technical Data

- Power supply**
AC100~240V; 50/60Hz
- Load current**
16A
- External material**
PC+ABS (flame retardant)
- Working environment**
-5~50°C
- Set temp. range**
5~95°C (default 60°C)
- Temperature hysteresis**
±0.5~±9.9°C Adjustable (default ±1°C)
- Temperature sensor**
NTC

Wiring Diagram



  Suitable for standard 86mm junction box or European 60mm box.



TGR86-EP



TGR85-EP



TDR83-EP



TDR89-EP

Model No.
TGR85-EP

86x90x14mm.
Glass mirror surface with touch keys.

 **zigbee** | Zigbee Model Optional



Selection Table

Model	Power Supply	Application	Recmote Control		Additional
	AC 100~240V	Electric Heating(16A)	Wi-Fi	Zigbee	External Sensor
TGR85-EP	✓	✓			✓
TGR85-WIFI-EP	✓	✓	✓		✓
TGR85-ZB-EP	✓	✓		✓	✓

Model No.
TDR83-EP

86x86x18mm.
Touch keys. 2 colors optional.



Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 100~240V	Electric Heating(16A)	Wi-Fi	External Sensor
TDR83W-EP	✓	✓		✓
TDR83W-WIFI-EP	✓	✓	✓	✓
TDR83B-EP	✓	✓		✓
TDR83B-WIFI-EP	✓	✓	✓	✓

Model No.
TGR86-EP

86x86x18mm.
Glass mirror surface with touch keys.



Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 100~240V	Electric Heating(16A)	Wi-Fi	External Sensor
TGR86-EP	✓	✓		✓
TGR86-WIFI-EP	✓	✓	✓	✓

Model No.
TDR89-EP

86x86x14mm.
2 colors optional. TDR89W: white backlight with silver touch keys.
TDR89B: negative display with touch keys that glows red when woken up.



Selection Table

Model	Power Supply	Application	Recmote Control		Additional
	AC 100~240V	Electric Heating(16A)	Wi-Fi	Zigbee	External Sensor
TDR89W-EP	✓	✓			✓
TDR89W-WIFI-EP	✓	✓	✓		✓
TDR89W-ZB-EP	✓	✓		✓	✓
TDR89B-EP	✓	✓			✓
TDR89B-WIFI-EP	✓	✓	✓		✓
TDR89B-ZB-EP	✓	✓		✓	✓

BEOK Electric Underfloor Heating Thermostat

Model No.
TS4-EP

86x86x14mm. 2 colors optional. TS4W: Black screen with glossy white touch key area. TS4G: Black screen with frosted gray touch key area.

Work with Tuya apps | iOS & Android | Support smart speakers



Technical Data

Power supply
AC100~240V; 50/60Hz

Load current
Water heater 3A
Electric heater 16A

External material
PC+ABS (flame retardant)

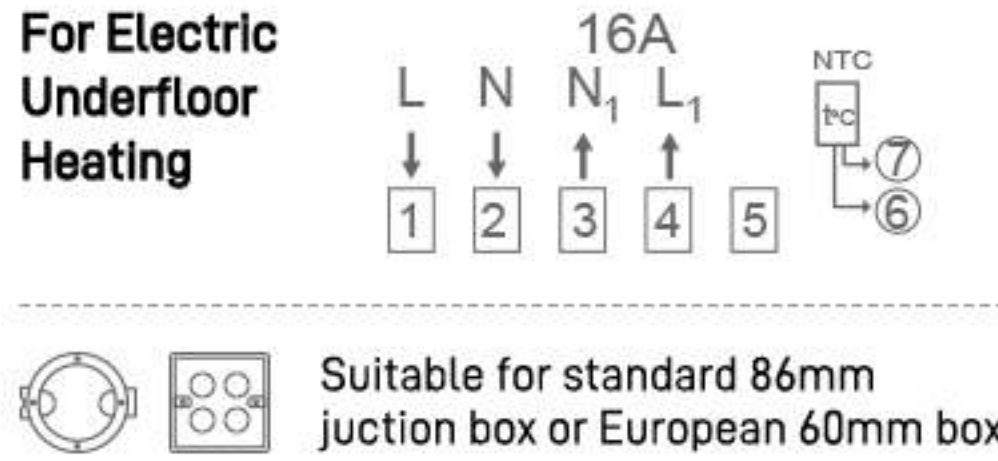
Working environment
-5~50°C

Set temp. range
5~95°C (default 60°C)

Temperature hysteresis
±0.5~±9.9°C Adjustable (default ±1°C)

Temperature sensor
NTC




Wiring Diagram





Selection Table

Model	Power Supply	Application	Remote Control	Additional
	AC 100~240V	Electric Heating(16A)	Wi-Fi	External Sensor
TS4W-EP / TS4G-EP	✓	✓		✓
TS4W-WIFI-EP / TS4G-WIFI-EP	✓	✓	✓	✓

TDS Series Thermostats

Work with Tuya apps or BEOK Home    | iOS & Android

Support smart speakers  

Technical Data

Power supply
AC200~240V; 50/60Hz

Load current
16A

External material
PC+ABS (flame retardant)

Working environment
-5~50°C

Set temp. range
5~95°C (default 60°C)

Temperature hysteresis
±0.5~±9.9°C Adjustable
(default ±1°C)

Temperature sensor
NTC

Wiring Diagram

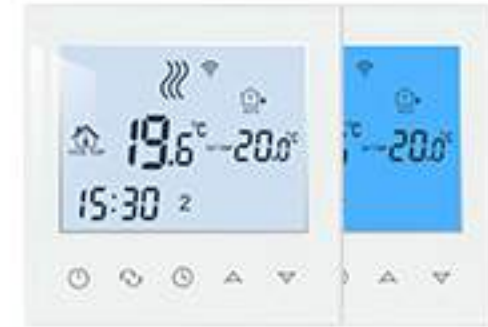
For Electric Underfloor Heating



Suitable for standard 86mm junction box or European 60mm box.



TGT70-EP



TDS21-EP



TDS23-EP



TOL313-EP

Model No. **TGT70-EP** 86x86x16mm.
Glass screen with touch keys.



Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200~240V	Electric Heating(16A)	Wi-Fi	External Sensor
TGT70-EP	✓	✓		✓
TGT70-WIFI-EP	✓	✓	✓	✓

Model No. **TDS21-EP** 86x86x16mm.
Touch keys. 2 backlight colors optional.



Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200~240V	Electric Heating(16A)	Wi-Fi	External Sensor
TDS21-EP-W	✓	✓		✓
TDS21-WIFI-EP-W	✓	✓	✓	✓
TDS21-EP-B	✓	✓		✓
TDS21-WIFI-EP-B	✓	✓	✓	✓

Model No.

TDS23-EP

86x86x16mm.
Touch keys. 2 backlight colors optional.



TDS23-EP-W



TDS23-EP-B

Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200~240V	Electric Heating(16A)	Wi-Fi	External Sensor
TDS23-EP-W	✓	✓		✓
TDS23-WIFI-EP-W	✓	✓	✓	✓
TDS23-EP-B	✓	✓		✓
TDS23-WIFI-EP-B	✓	✓	✓	✓

Model No.

TOL313-EP

86x86x16mm.
5 Mechanical keys. 2 backlight colors optional.



TOL313-EP-W



TOL313-EP-B

Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200~240V	Electric Heating(16A)	Wi-Fi	External Sensor
TOL313-EP-W	✓	✓		✓
TOL313-WIFI-EP-W	✓	✓	✓	✓
TOL313-EP-B	✓	✓		✓
TOL313-WIFI-EP-B	✓	✓	✓	✓

TDS7 Series Thermostats

Work with Tuya apps or BEOK Home    | iOS & Android

Support smart speakers  

Technical Data

Power supply
AC200~240V; 50/60Hz

Load current
16A

External material
PC+ABS (flame retardant)

Working environment
-5~50°C

Set temp. range
5~95°C (default 60°C)

Temperature hysteresis
±0.5~±9.9°C Adjustable
(default ±1°C)

Temperature sensor
NTC



Wiring Diagram

For Electric Underfloor Heating



Suitable for standard 86mm junction box or European 60mm box.



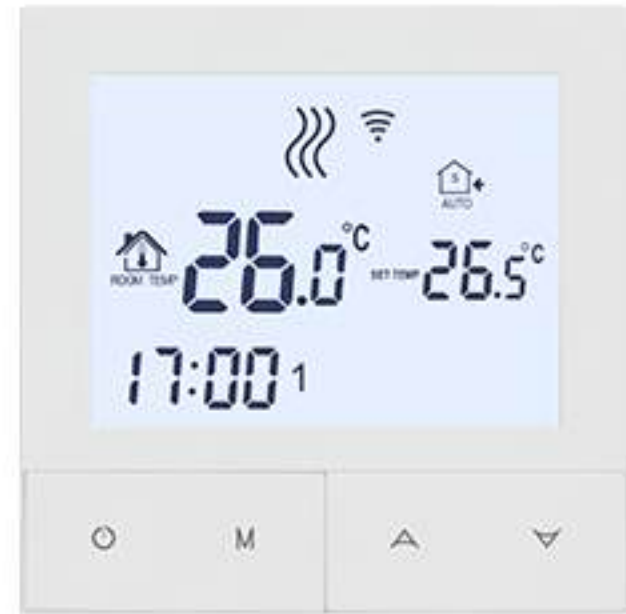
TDS72-EP



TDS75-EP



TGT79-EP



Model No.
TDS72-EP



86x86x13mm.
Frosted tactile shell with mechanical keys.

Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200~240V	Electric Heating(16A)	Wi-Fi	External Sensor
TDS72-EP	✓	✓		✓
TDS72-WIFI-EP	✓	✓	✓	✓



Model No.
TDS75-EP



86x86x15mm.
Glossy panel with touch keys.

Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200~240V	Electric Heating(16A)	Wi-Fi	External Sensor
TDS75-EP	✓	✓		✓
TDS75-WIFI-EP	✓	✓	✓	✓



Model No.
TGT79-EP



86x86x15mm.
Glossy panel with touch keys. Negative display screen.

Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200~240V	Electric Heating(16A)	Wi-Fi	External Sensor
TGT79-EP	✓	✓		✓
TGT79-WIFI-EP	✓	✓	✓	✓

BEOK Electric Underfloor Heating Thermostat

Model No.
TC38-EP

86x86x15mm. 2 colors optional. White: glossy panel with silver touch keys. Black: dark mirrored panel with silver touch keys.

Work with Tuya apps or BEOK Home  | iOS & Android

Support smart speakers 



TCW38-EP



TCB38EP



Technical Data

Power supply
AC200~240V; 50/60Hz

Load current
16A

External material
PC+ABS (flame retardant)

Working environment
-5~50°C

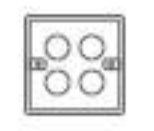
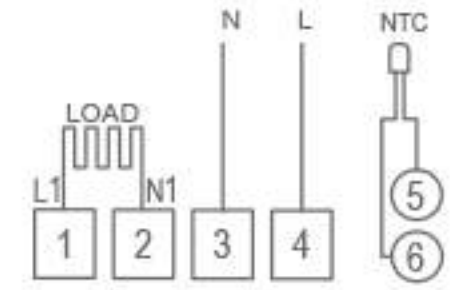
Set temp. range
5~95°C (default 60°C)

Temperature hysteresis
±0.5~±9.9°C Adjustable
(default ±1°C)

Temperature sensor
NTC

Wiring Diagram

For Electric Underfloor Heating



Suitable for standard 86mm junction box or European 60mm box.

Selection Table

Model	Power Supply	Application	Remote Control	Additional
	AC 200~240V	Electric Heating(16A)	Wi-Fi	External Sensor
TCW38-EP / TCB38-EP	✓	✓		✓
TCW38-WIFI-EP / TCB38-WIFI-EP	✓	✓	✓	✓



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