

BEOK 2025 CATALOG

Wi-Fi Room 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

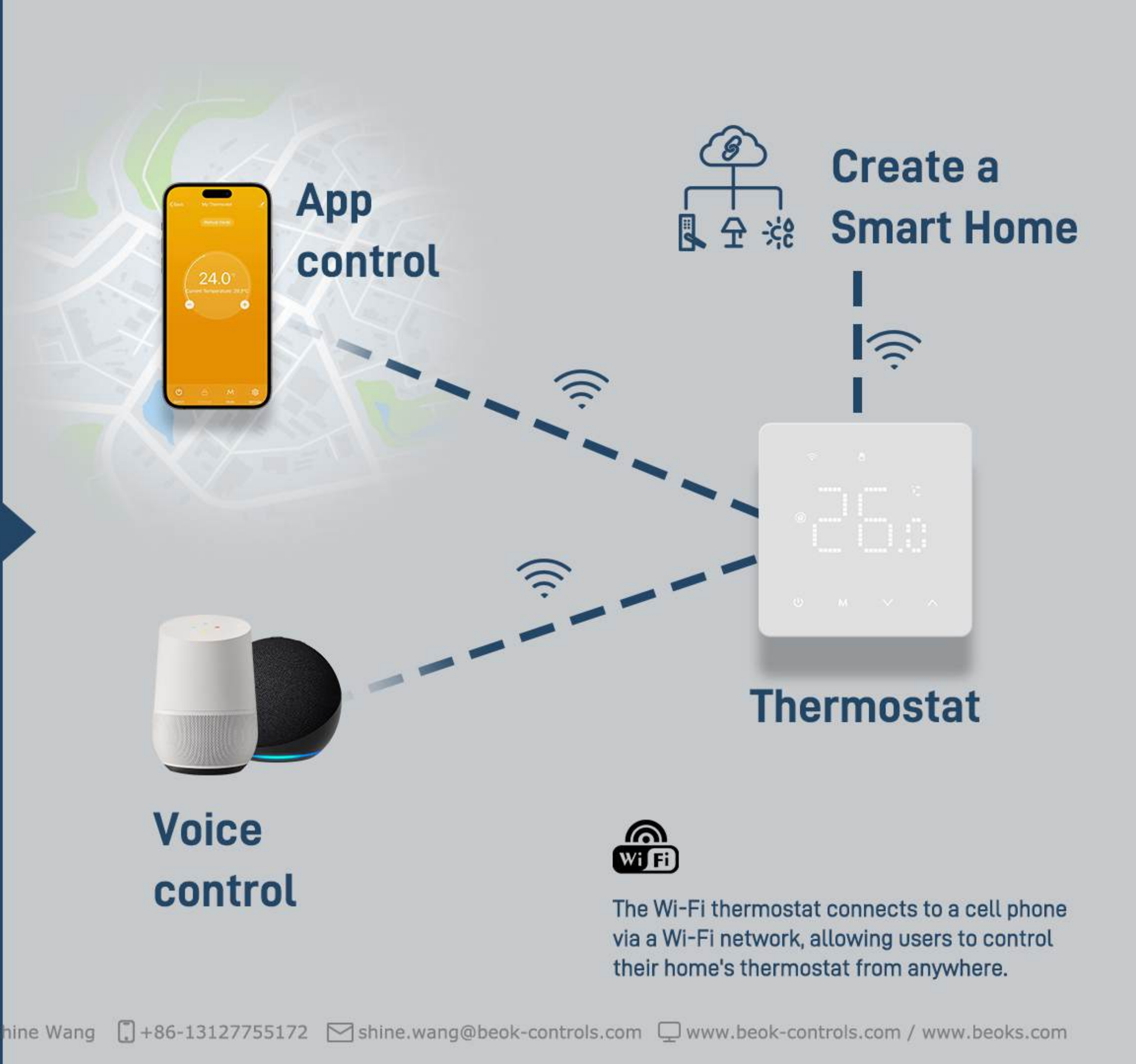


Customize
Package



ODM
Service

Wi-Fi Thermostat



The Wi-Fi thermostat connects to a cell phone via a Wi-Fi network, allowing users to control their home's thermostat from anywhere.

Main Functions of BEOK Thermostats



App control

Control the heater remotely by smart phone.



Voice control

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.

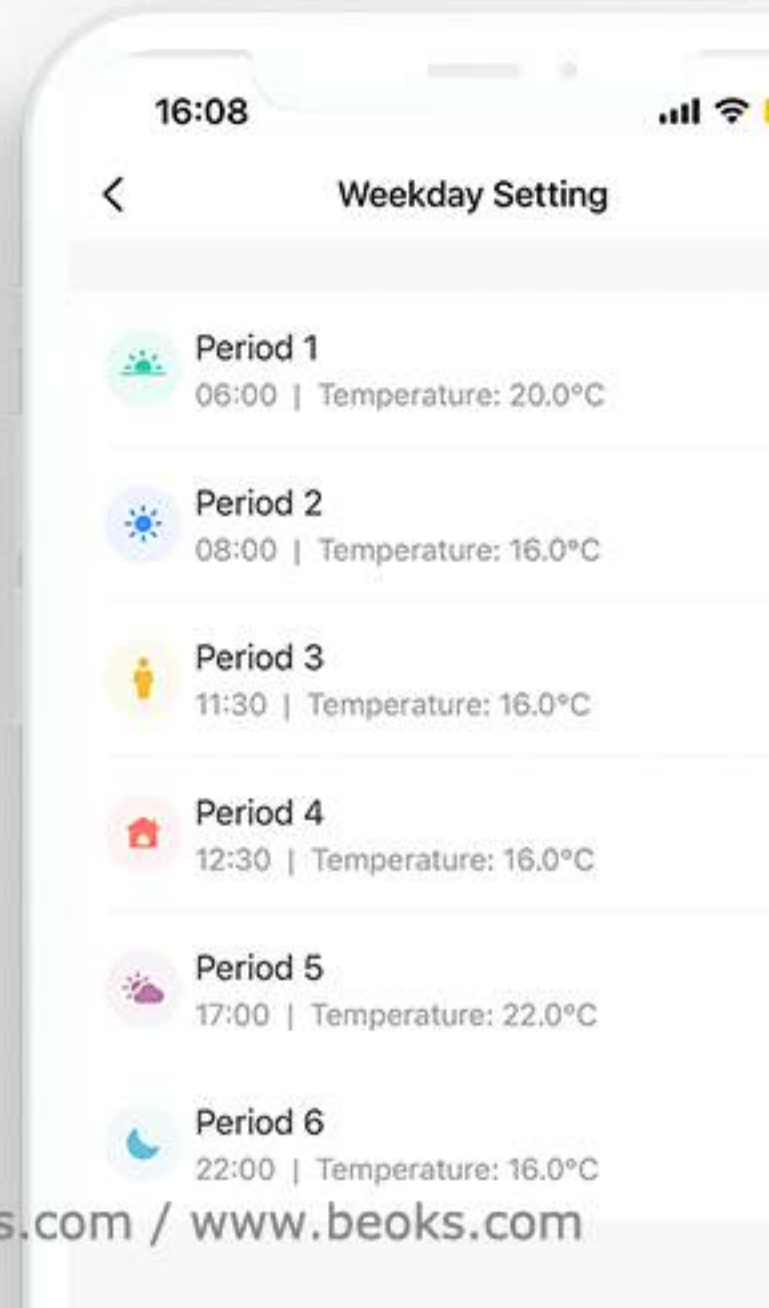
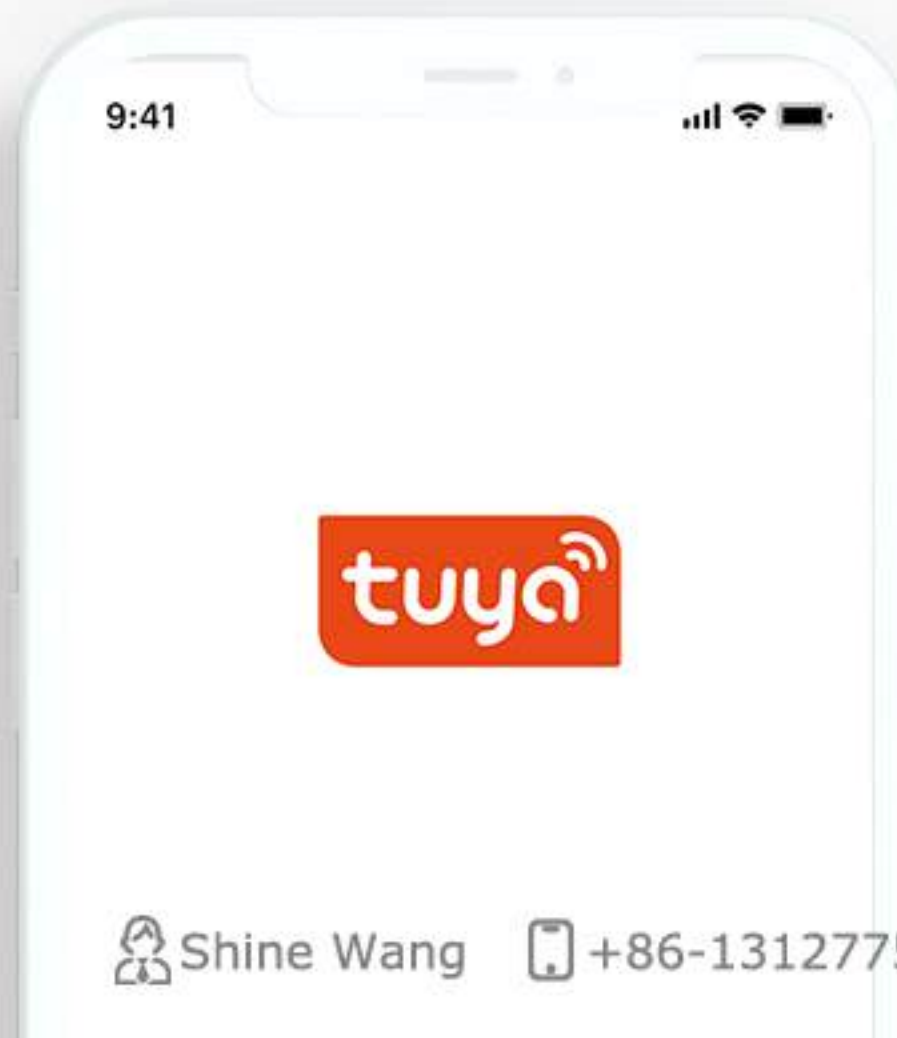
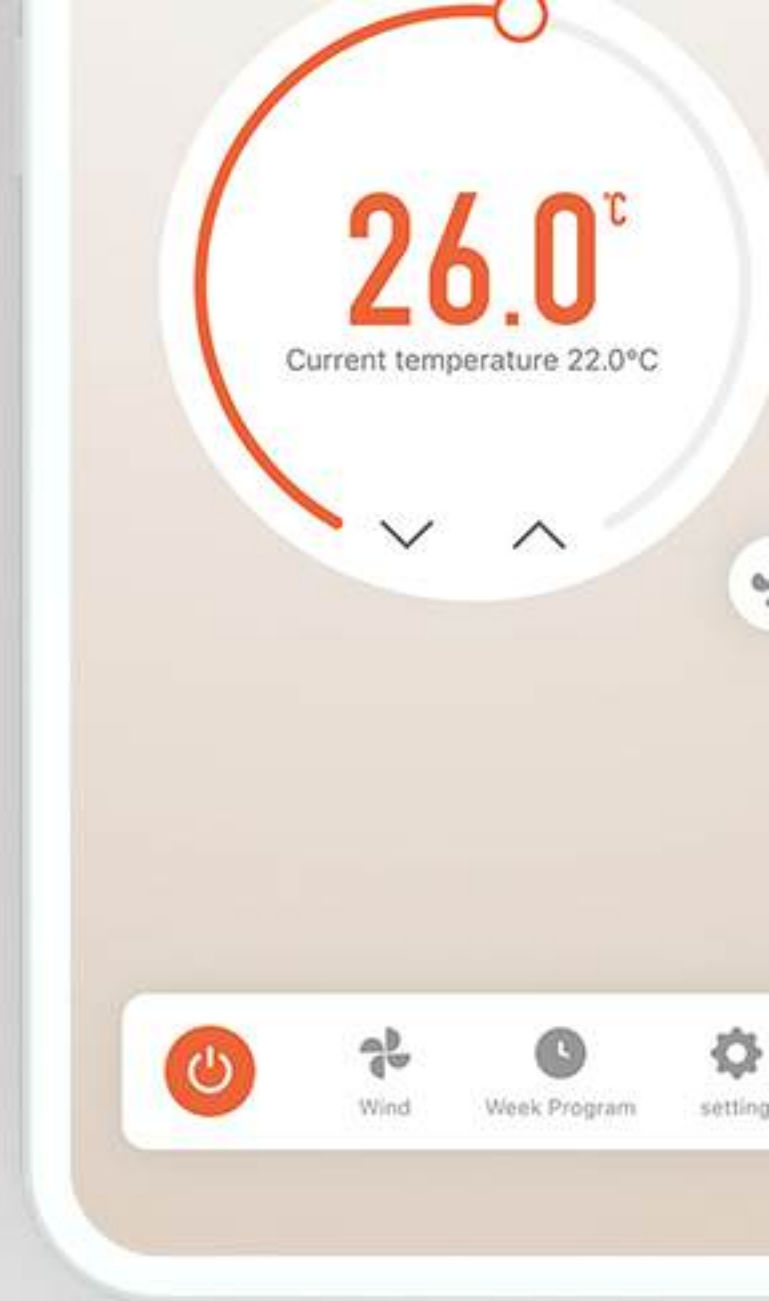
Thermostat App Interface



Tuya Apps



BEOK Apps



Underfloor Heating Thermostat

Controls include:

- **Electric underfloor heating:** electric heating mat, electric heating film or electric heating cable;
- **Water underfloor heating:** electric valves or actuators.





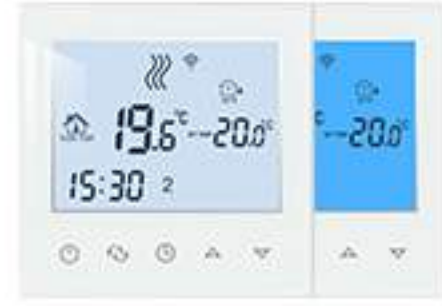
TS4-WIFI

P21



TGT70-WIFI

P22



TDS21-WIFI

P22



TDS23-WIFI

P22



TOL313-WIFI

P22



TDS72-WIFI

P25



TDS75-WIFI

P25



TGT79-WIFI

P25



TC38-WIFI

P27

Gas Boiler Thermostat

Controls include:

- Wired thermostat for gas boiler
- Wireless thermostat for gas boiler

Wired Thermostat for Gas Boiler



TOL47-WIFI-WPB

P30



TGM50-WIFI-WPB

P31



TGP53-WIFI-WPB

P32



TGP508-WIFI-WPB

P32



TGP51G-WIFI-WPB

P34



TGW60-WIFI-WPB

P35



TGR85-WIFI-WPB

P36



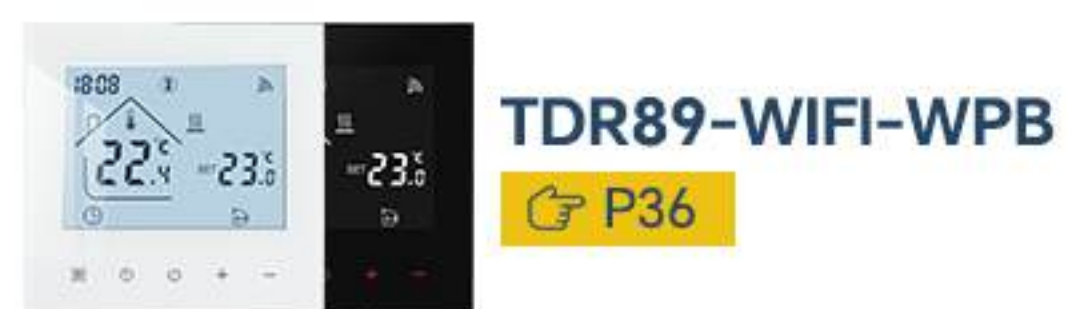
TGR86-WIFI-WPB

P36



TDR83-WIFI-WPB

P36



TDR89-WIFI-WPB

P36



TS4-WIFI-WPB

P39



TGT70-WIFI-WPB

P40



TDS21-WIFI-WPB

P40



TDS23-WIFI-WPB

P40



BOT-313WIFI

P40



TDS72-WIFI-WPB

P43



TDS75-WIFI-WPB

P43



TGT79-WIFI-WPB

P43



TC38-WIFI-WPB

P45



BOT-R9V-WIFI

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Wireless Thermostat for Gas Boiler



BOT-R7X-WIFI

👉 P48



BOT-306RF-WIFI

👉 P49



BOT-R6X-WIFI

👉 P50

Fan Coil Thermostat

Controls include:

- Thermostat for 2-pipe fan Coil
- Thermostat for 4-pipe fan Coil



TGT70-WIFI-AC

👉 P52



TDS21-WIFI-AC

👉 P52



TDS23-WIFI-AC

👉 P52



TGP51G-WIFI-AC

👉 P54



TOL313-WIFI-AC

👉 P55



Wi-Fi Thermostat for Underfloor Heating

There are two options for underfloor heating thermostats, for electric heating and for water heating.

For Electric Underfloor Heating



For Water Underfloor Heating



BEOK Underfloor Heating Thermostat



Model No.
TOL47-WIFI



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
Water heater 3A
Electric heater 16A

External material
PC+ABS (flame retardant)

Working environment
-5~50°C

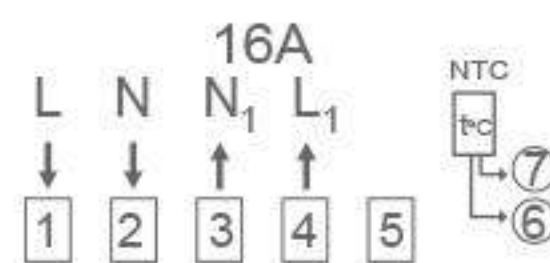
Set temp. range
5~95°C (default 60°C)

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

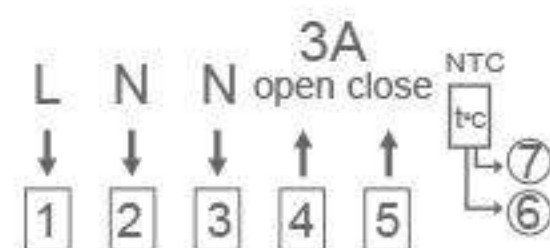
Temperature sensor
NTC

Wiring Diagram

For Electric Underfloor Heating



For Water 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)	Water Heating(3A)	Wi-Fi	External Sensor
TOL47-WIFI-EP	✓	✓	✗	✓	✓
TOL47-WIFI-WP	✓	✗	✓	✓	Optional

BEOK Underfloor Heating Thermostat

Model No. **TGM50-WIFI** 86x86x12.5mm. Frosted one-piece body with 4 touch keys. 2 colors optional.

Work with Tuya apps   | iOS & Android

Support smart speakers   



TGM50-WIFI

TGM50B-WIFI

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

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

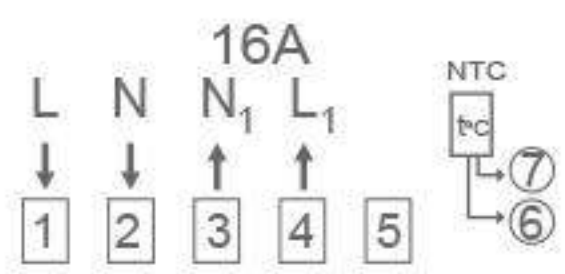
±0.5~±9.9°C Adjustable
(default ±1°C)

Temperature sensor

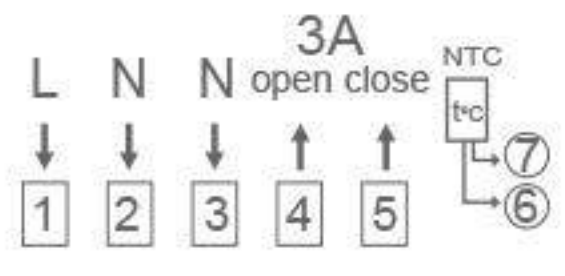
NTC

Wiring Diagram

For Electric Underfloor Heating



For Water 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)	Water Heating(3A)	Wi-Fi	External Sensor
TGM50-WIFI-EP	✓	✓	✗	✓	✓
TGM50B-WIFI-EP	✓	✓	✗	✓	✓
TGM50-WIFI-WP	✓	✗	✓	✓	Optional
TGM50B-WIFI-WP	✓	✗	✓	✓	Optional

TGP5 Series Thermostats

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



TGP53-WIFI



TGP508-WIFI

Wiring Diagram





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



Model No.
TGP53-WIFI

86x86x13mm.
Glass screen, 3 subtle shiny silver physical buttons with icons that light up when woken up.

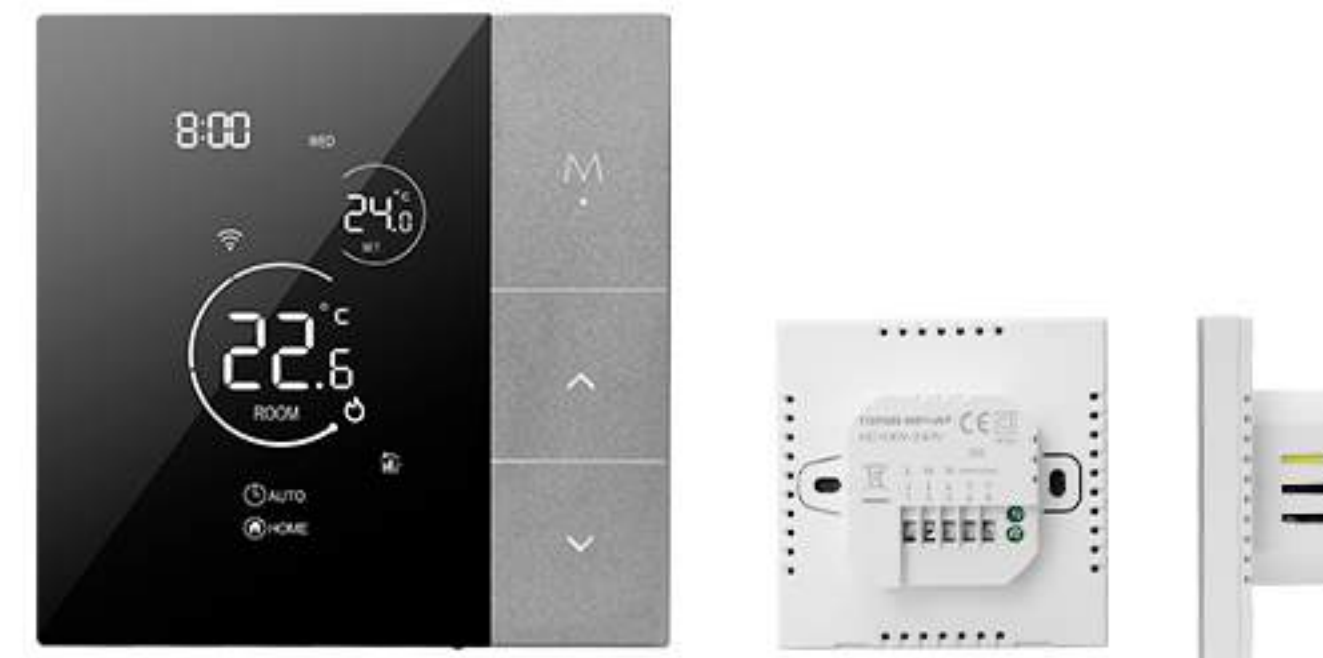


Selection Table

Model	Power Supply	Application		Recmote Control	Additional
	AC 100~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TGP53-WIFI-EP	✓	✓	✗	✗	✓
TGP53-WIFI-WP	✓	✗	✓	✗	Optional

Model No.
TGP508-WIFI

86x86x14mm. 3 vertically distributed touch keys.



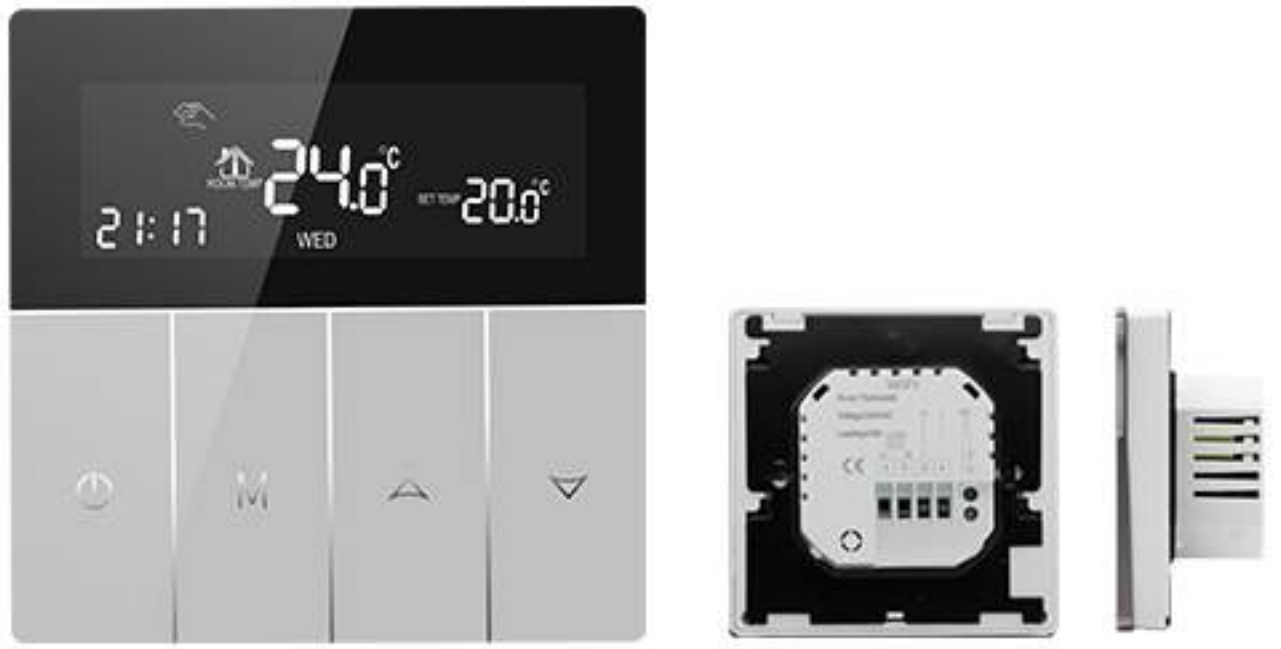
Selection Table

Model	Power Supply	Application		Recmote Control	Additional
	AC 100~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TGP508-WIFI-EP	✓	✓	✗	✗	✓
TGP508-WIFI-WP	✓	✗	✓	✗	Optional

BEOK Underfloor Heating Thermostat

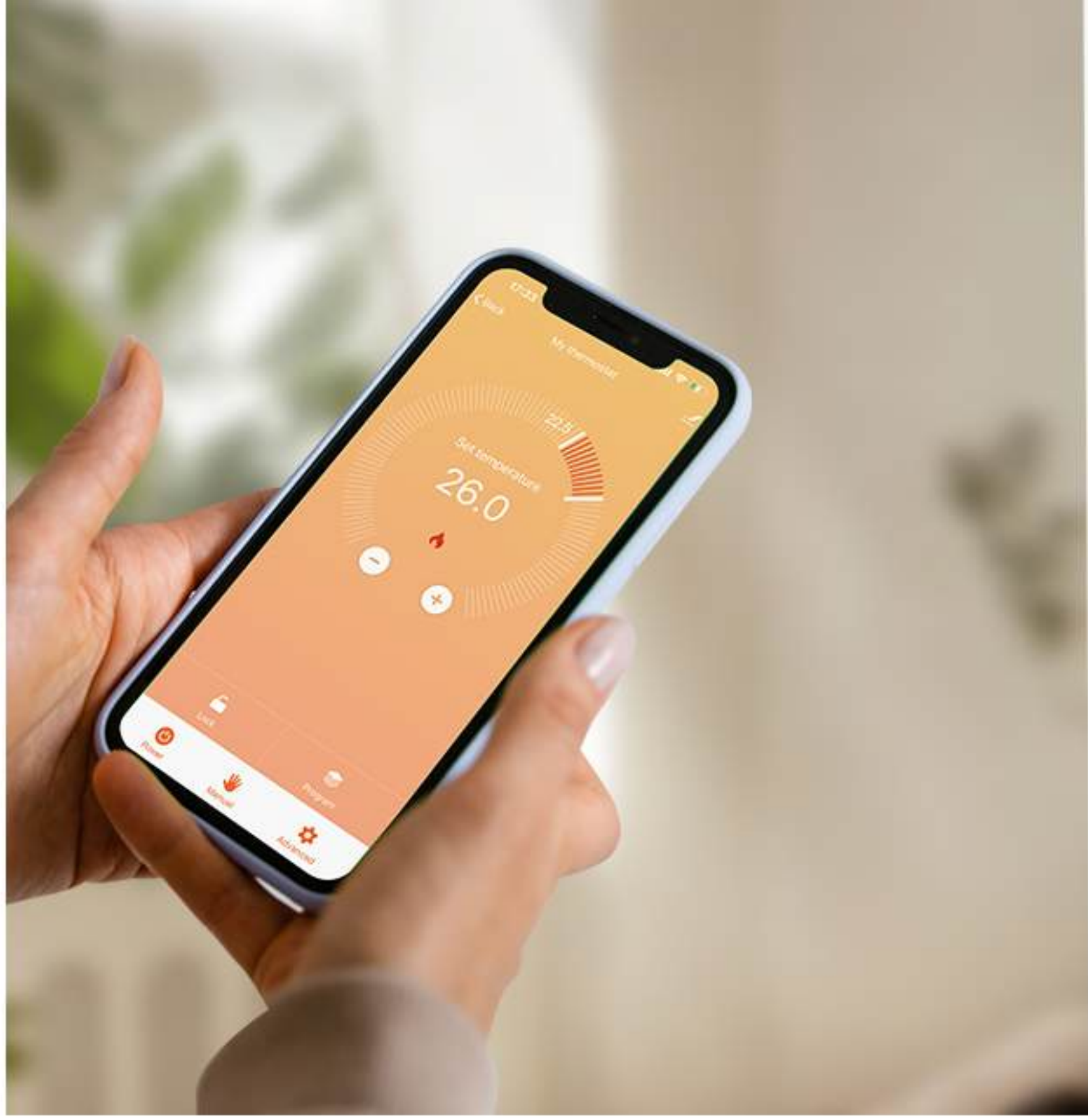
Model No.
TGP51G-WIFI

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
Water heater 3A
Electric heater 16A

External material
PC+ABS (flame retardant)

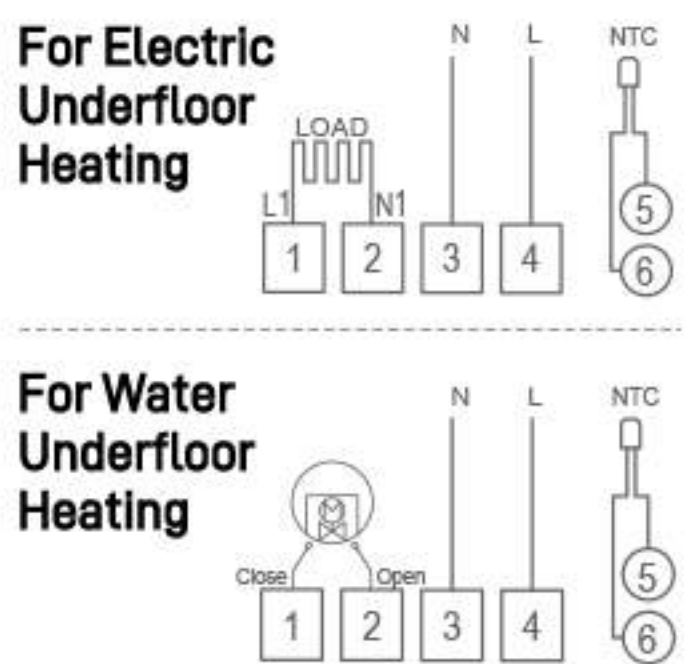
Working environment
-5~50°C

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



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

Selection Table

Model	Power Supply	Application		Recmote Control	Additional
	AC 200~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TGP51G-WIFI-EP	✓	✓	✗	✗	✓
TGP51G-WIFI-WP	✓	✗	✓	✗	Optional

BEOK Underfloor Heating Thermostat

Model No.
TGW60-WIFI

86x86x12.5mm. LCD glass display with touch keys. 2 colors optional.

Work with Tuya apps  | iOS & Android

Support smart speakers   



TGW60W-WIFI



TGW60B-WIFI



Technical Data

Power supply
AC100~240V; 50/60Hz

Load current
Water heater 3A
Electric heater 16A

External material
PC+ABS (flame retardant)

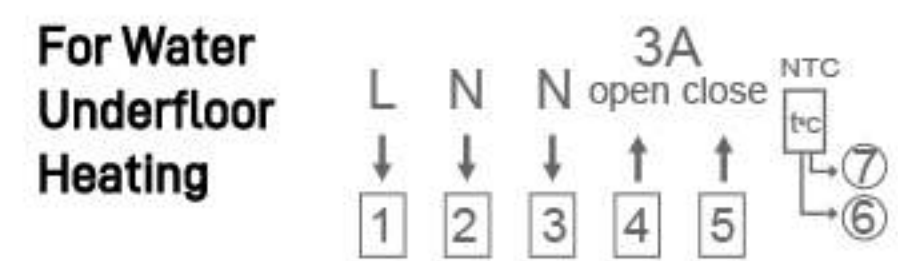
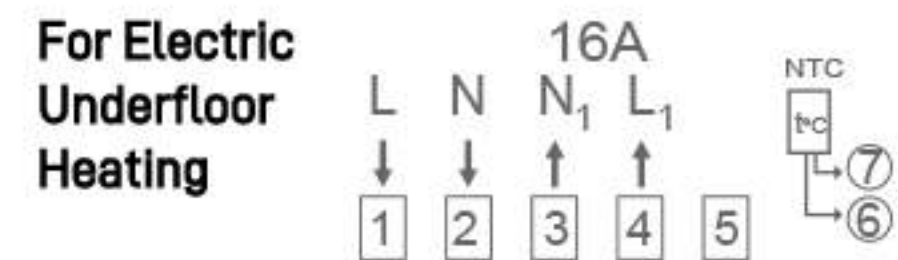
Working environment
-5~50°C

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




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)	Water Heating(3A)	Wi-Fi	External Sensor
TGW60W-WIFI-EP	✓	✓	✗	✓	✓
TGW60B-WIFI-EP	✓	✓	✗	✓	✓
TGW60W-WIFI-WP	✓	✗	✓	✓	Optional
TGW60B-WIFI-WP	✓	✗	✓	✓	Optional

TDR8 Series Wi-Fi Thermostats

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



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



TGR86-WIFI



TGR85-WIFI



TDR83-WIFI



TDR89-WIFI

Model No. **TGR85-WIFI** 86x90x14mm.
Glass mirror surface with touch keys.



Selection Table

Model	Power Supply	Application		Recmote Control	Additional
	AC 100~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TGR85-WIFI-EP	✓	✓	✗	✓	✓
TGR85-WIFI-WP	✓	✗	✓	✓	Optional

Model No. **TDR83-WIFI** 86x86x18mm.
Touch keys. 2 colors optional.



Selection Table

Model	Power Supply	Application		Recmote Control	Additional
	AC 100~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TDR83W-WIFI-EP	✓	✓	✗	✓	✓
TDR83W-WIFI-WP	✓	✗	✓	✓	Optional
TDR83B-WIFI-EP	✓	✓	✗	✓	✓
TDR83B-WIFI-WP	✓	✗	✓	✓	Optional

Model No. **TGR86-WIFI** 86x86x18mm.
Glass mirror surface with touch keys.



Selection Table

Model	Power Supply	Application		Recmote Control	Additional
	AC 100~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TGR86-WIFI-EP	✓	✓	✗	✓	✓
TGR86-WIFI-WP	✓	✗	✓	✓	Optional

Model No. **TDR89-WIFI** 86x86x14mm. 2 colors optional. TDR89W: white backlight with silver touch keys. TDR89B: negative display with touch keys that glows red when woken up.



TDR89W-WIFI



TDR89B-WIFI

Selection Table

Model	Power Supply	Application		Recmote Control	Additional
	AC 100~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TDR89W-WIFI-EP	✓	✓	✗	✓	✓
TDR89W-WIFI-WP	✓	✗	✓	✓	Optional
TDR89B-WIFI-EP	✓	✓	✗	✓	✓
TDR89B-WIFI-WP	✓	✗	✓	✓	Optional

BEOK Underfloor Heating Thermostat

Model No. **TS4-WIFI** 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)

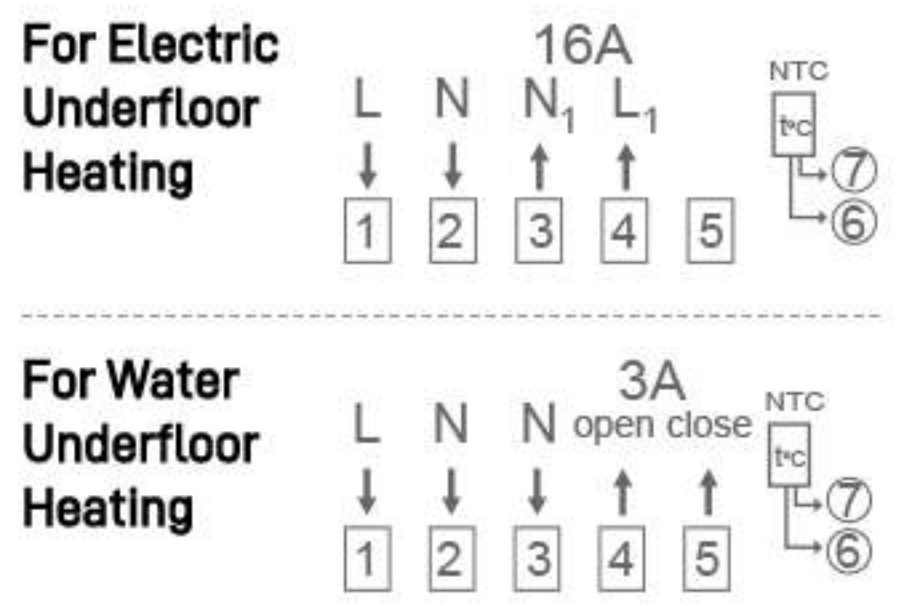
Working environment
-5~50°C

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



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)	Water Heating(3A)	Wi-Fi	External Sensor
TS4W-WIFI-EP	✓	✓	✗	✓	✓
TS4G-WIFI-EP	✓	✓	✗	✓	✓
TS4W-WIFI-WP	✓	✗	✓	✓	Optional
TS4G-WIFI-WP	✓	✗	✓	✓	Optional

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
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

For Electric Underfloor Heating



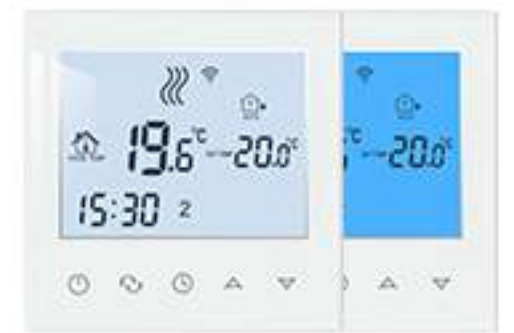
For Water Underfloor Heating




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



TGT70-WIFI



TDS21-WIFI



TDS23-WIFI



TOL313-WIFI

Model No.

TGT70-WIFI

86x86x16mm.

Glass screen with touch keys.



Selection Table

Model	Power Supply	Application		Recmote Control	Additional
	AC 200~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TGT70-WIFI-EP	✓	✓	✗	✓	✓
TGT70-WIFI-WP	✓	✗	✓	✓	Optional

Model No.

TDS21-WIFI

86x86x16mm.

Touch keys. 2 backlight colors optional.



Selection Table

Model	Power Supply	Application		Recmote Control	Additional
	AC 200~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TDS21-WIFI-EP-W	✓	✓	✗	✗	✓
TDS21-WIFI-WP-W	✓	✗	✓	✗	Optional
TDS21-WIFI-EP-B	✓	✓	✗	✓	✓
TDS21-WIFI-WP-B	✓	✗	✓	✓	Optional

Model No.

TDS23-WIFI

86x86x16mm.

Touch keys. 2 backlight colors optional.



TDS23-WIFI-W



TDS23-WIFI-B



Selection Table

Model	Power Supply	Application		Recmote Control	Additional
	AC 200~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TDS23-WIFI-EP-W	✓	✓	✗	✓	✓
TDS23-WIFI-WP-W	✓	✗	✓	✓	Optional
TDS23-WIFI-EP-B	✓	✓	✗	✓	✓
TDS23-WIFI-WP-B	✓	✗	✓	✓	Optional

Model No.

TOL313-WIFI

86x86x16mm.

5 Mechanical keys. 2 backlight colors optional.



TOL313-WIFI-W



TOL313-WIFI-B



Selection Table

Model	Power Supply	Application		Recmote Control	Additional
	AC 200~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TOL313-WIFI-EP-W	✓	✓	✗	✓	✓
TOL313-WIFI-WP-W	✓	✗	✓	✓	Optional
TOL313-WIFI-EP-B	✓	✓	✗	✓	✓
TOL313-WIFI-WP-B	✓	✗	✓	✓	Optional

TDS7 Series Wi-Fi Thermostats

Work with Tuya apps or BEOK Home    | iOS & Android

Support smart speakers  



Technical Data

Power supply
AC200~240V; 50/60Hz

Load current
Water heater 3A
Electric heater 16A

External material
PC+ABS (flame retardant)

Working environment
-5~50°C

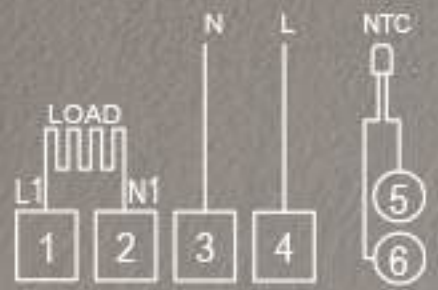
Set temp. range
5~95°C (default 60°C)

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

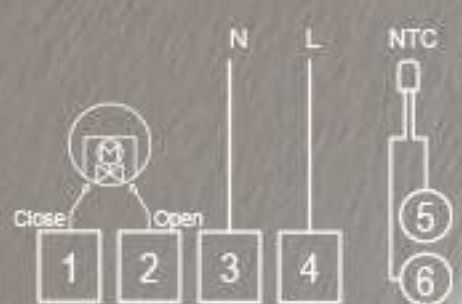
Temperature sensor
NTC

Wiring Diagram

For Electric Underfloor Heating



For Water Underfloor Heating



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



TDS72-WIFI



TDS75-WIFI



TGT79-WIFI

Model No.

TDS72-WIFI

86x86x13mm.

Frosted tactile shell with mechanical keys.



Selection Table

Model	Power Supply	Application		Recmote Control	Additional
	AC 200~240V	Electric Heating (16A)	Water Heating (3A)	Wi-Fi	External Sensor
TDS72-WIFI-EP	✓	✓	✗	✓	✓
TDS72-WIFI-WP	✓	✗	✓	✓	Optional

Model No.

TDS75-WIFI

86x86x15mm.

Glossy panel with touch keys.



Selection Table

Model	Power Supply	Application		Recmote Control	Additional
	AC 200~240V	Electric Heating (16A)	Water Heating (3A)	Wi-Fi	External Sensor
TDS75-WIFI-EP	✓	✓	✗	✓	✓
TDS75-WIFI-WP	✓	✗	✓	✓	Optional

Model No.

TGT79-WIFI

86x86x15mm.

Glossy panel with touch keys. Negative display screen.



Selection Table

Model	Power Supply	Application		Recmote Control	Additional
	AC 200~240V	Electric Heating (16A)	Water Heating (3A)	Wi-Fi	External Sensor
TGT79-WIFI-EP	✓	✓	✗	✓	✓
TGT79-WIFI-WP	✓	✗	✓	✓	Optional

BEOK Underfloor Heating Thermostat

Model No.

TC38-WIFI

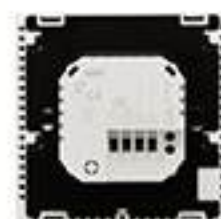
86x86x15mm. 2 colors optional. White: glossy panel with silver touch keys. Black: dark mirrored panel with silver touch keys.

Work with Tuya apps or BEOK Home    | iOS & Android

Support smart speakers   



TCW38-WIFI



TCB38-WIFI



Technical Data

Power supply
AC200~240V; 50/60Hz

Load current
Water heater 3A
Electric heater 16A

External material
PC+ABS (flame retardant)

Working environment
-5~50°C

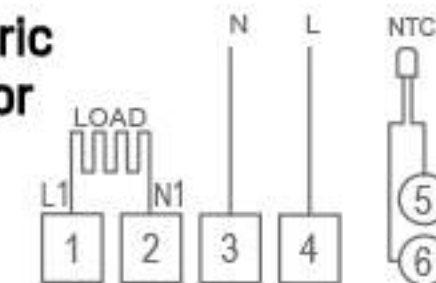
Set temp. range
5~95°C (default 60°C)

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

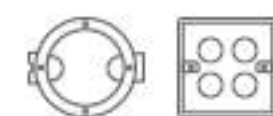
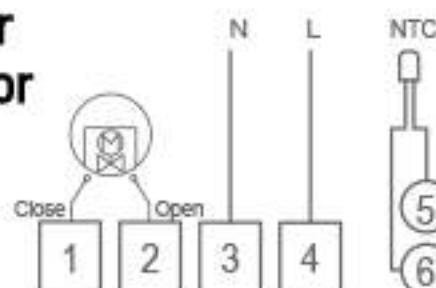
Temperature sensor
NTC

Wiring Diagram

For Electric Underfloor Heating



For Water 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)	Water Heating(3A)	Wi-Fi	External Sensor
TCW38-WIFI-EP	✓	✓	✗	✓	✓
TCW38-WIFI-WP	✓	✗	✓	✓	Optional
TCB38-WIFI-EP	✓	✓	✗	✓	✓
TCB38-WIFI-WP	✓	✗	✓	✓	Optional

2

Wi-Fi Thermostat for Gas Boiler

There are two types of gas boiler thermostats, wired and wireless.

Wired Thermostat for Gas Boiler



Wireless RF Thermostat for Gas Boiler



Wi-Fi Thermostat for Gas Boiler

There are two types of gas boiler thermostats, wired and wireless.

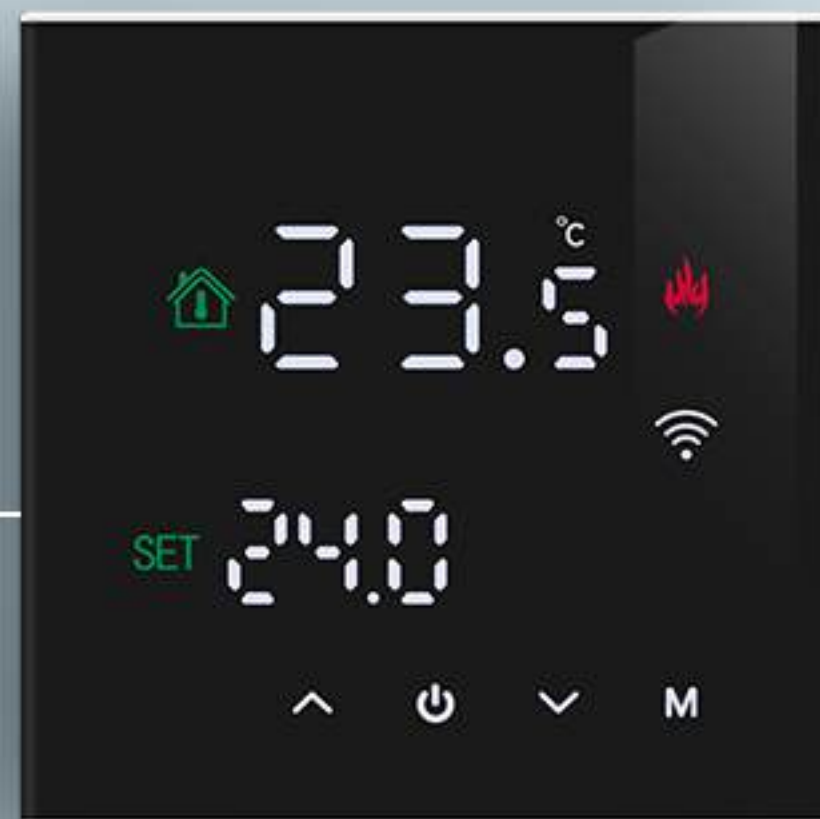
Wired

Thermostat for Gas Boiler

The thermostat is connected directly to the boiler.

Gas boiler with dry contact

⚡ AC 230 V



Passive connection

Model No.
TOL47-WIFI-WPB



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
3A

External material
PC+ABS (flame retardant)

Working environment
-5~50°C

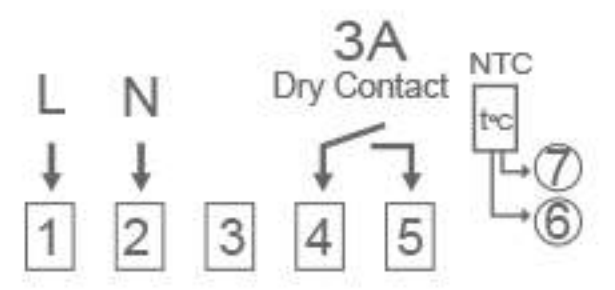
Set temp. range
5~95°C (default 60°C)

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

Temperature sensor
NTC

Wiring Diagram

For Gas Boiler



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

Selection Table

Model	Power Supply	Application	Remote Control	Additional
	AC 100~240V	Gas Boiler	Wi-Fi	External Sensor
TOL47-WIFI-WPB	✓	✓	✓	✗

Model No.

TGM50-WIFI-WPB

86x86x12.5mm. Frosted one-piece body with touch keys.

Work with Tuya apps   | iOS & Android

Support smart speakers   



TGM50W-WIFI-WPB



TGM50B-WIFI-WPB



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
3A

External material
PC+ABS (flame retardant)

Working environment
-5~50°C

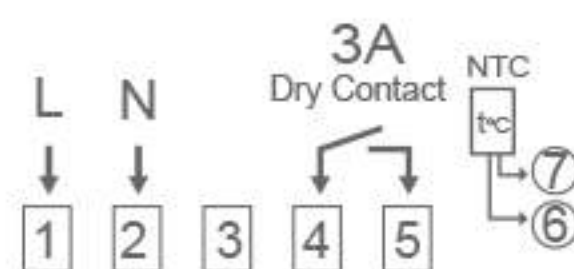
Set temp. range
5~95°C (default 60°C)


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

Temperature sensor
NTC

Wiring Diagram

For Gas Boiler







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

Selection Table

Model	Power Supply	Application	Remote Control	Additional
	AC 100~240V	Gas Boiler	Wi-Fi	External Sensor
TGM50W-WIFI-WPB	✓	✓	✓	✗
TGM50B-WIFI-WPB	✓	✓	✓	✗

TGP5 Series Boiler Thermostats

Work with Tuya apps  | IOS & Android

Support smart speakers   

Technical Data

Power supply
AC100~240V; 50/60Hz

Load current
3A

External material
PC+ABS (flame retardant)

Working environment
-5~50°C

Set temp. range
5~95°C (default 60°C)

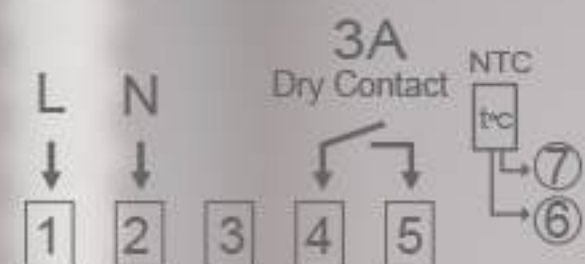
Temperature hysteresis
±0.5~±9.9°C Adjustable
(default ±1°C)

Temperature sensor
NTC



Wiring Diagram

For Gas Boiler



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



TGP53-WIFI-WPB



TGP508-WIFI-WPB

Model No.

TGP53-WIFI-WPB

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	Gas Boiler	Wi-Fi	External Sensor
TGP53-WIFI-WPB	✓	✓	✓	✗

Model No.

TGP508-WIFI-WPB

86x86x14mm.

3 vertically distributed touch keys.



Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 100~240V	Gas Boiler	Wi-Fi	External Sensor
TGP508-WIFI-WPB	✓	✓	✗	✗

Model No.

TGP51G-WIFI-WPB

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
3A

External material
PC+ABS (flame retardant)

Working environment
-5~50°C

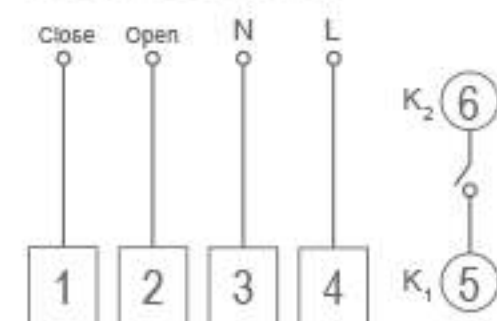
Set temp. range
5~95°C (default 60°C)


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

Temperature sensor
NTC

Wiring Diagram

For Gas Boiler




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

Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200~240V	Gas Boiler	Wi-Fi	External Sensor
TGP51G-WIFI-WPB	✓	✓	✓	✗

Model No.

TGW60-WIFI-WPB

86x86x12.5mm. LCD glass display with touch keys.
2 colors optional.

Work with Tuya apps



iOS & Android

Support smart speakers



TGW60W-WIFI-WPB



TGW60B-WIFI-WPB



Technical Data

Power supply
AC100~240V; 50/60Hz

Load current
3A

External material
PC+ABS (flame retardant)

Working environment
-5~50°C

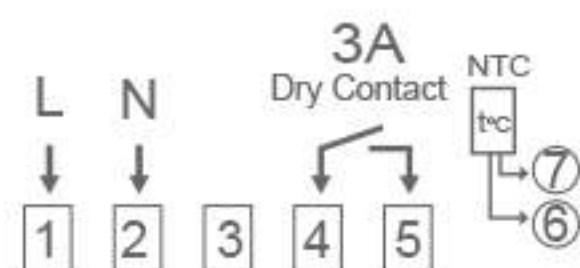
Set temp. range
5~95°C (default 60°C)

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

Temperature sensor
NTC

Wiring Diagram

For Gas Boiler




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

Selection Table

Model	Power Supply	Application	Remote Control	Additional
TGW60W-WIFI-WPB	AC 100~240V	Gas Boiler	Wi-Fi	External Sensor
TGW60B-WIFI-WPB	✓	✓	✓	✗

TDR8 Series Gas Boiler Thermostats

Work with Tuya apps  | iOS & Android

Support smart speakers   

Technical Data

Power supply

AC100~240V; 50/60Hz

Load current

3A

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 Gas Boiler



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



TGR85-WIFI-WPB



TDR83-WIFI-WPB



TGR86-WIFI-WPB



TDR89-WIFI-WPB

Model No.

TGR85-WIFI-WPB

86x90x14mm.

Glass mirror surface with touch keys.



Selection Table

Model	Power Supply	Application	Recmote Control		Additional
	AC 100~240V	Gas Boiler	Wi-Fi	Zigbee	External Sensor
TGR85-WIFI-WPB	✓	✓	✓	✗	✗

Model No.

TDR83-WIFI-WPB

86x86x18mm.

Touch keys. 2 colors optional.



TDR83W-WIFI-WPB

TDR83B-WIFI-WPB

Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 100~240V	Gas Boiler	Wi-Fi	External Sensor
TDR83W-WIFI-WPB	✓	✓	✓	✗
TDR83B-WIFI-WPB	✓	✓	✓	✗

Model No.

TGR86-WIFI-WPB

86x90x14mm.

Glass mirror surface with touch keys.



Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 100~240V	Gas Boiler	Wi-Fi	External Sensor
TGR86-WIFI-WPB	✓	✓	✗	✗

Model No.

TDR89-WIFI-WPB

86x86x14mm. 2 colors optional. TDR89W: white backlight with silver touch keys.

TDR89B: negative display with touch keys that glows red when woken up.



TDR89W-WIFI-WPB



TDR89B-WIFI-WPB



Selection Table

Model	Power Supply	Application	Recmote Control		Additional
	AC 100~240V	Gas Boiler	Wi-Fi	Zigbee	External Sensor
TDR89W-WIFI-WPB	✓	✓	✗	✗	✗
TDR89B-WIFI-WPB	✓	✓	✓	✗	✗

Model No.

TS4-WIFI-WPB

86x86x14mm. 2 colors optional.
 TS4W: Glossy white touch key area.
 TS4G: Frosted gray touch key area.

Work with Tuya apps  | iOS & Android

Support smart speakers   



TS4W-WIFI-WPB



TS4G-WIFI-WPB



Technical Data

Power supply
 AC100~240V; 50/60Hz

Load current
 3A

External material
 PC+ABS (flame retardant)

Working environment
 -5~50°C

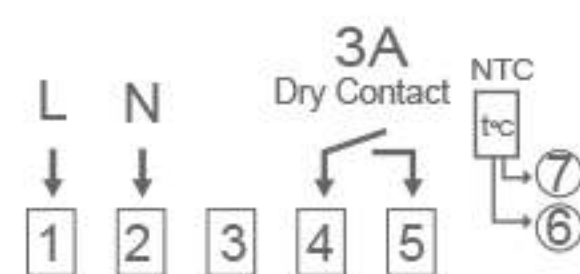
Set temp. range
 5~95°C (default 60°C)


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

Temperature sensor
 NTC

Wiring Diagram

For Gas Boiler









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

Selection Table

Model	Power Supply	Application	Remote Control	Additional
	AC 100~240V	Gas Boiler	Wi-Fi	External Sensor
TS4W-WIFI-WPB	✓	✓	✓	✗
TS4G-WIFI-WPB	✓	✓	✓	✗

TDS Series Gas Boiler Thermostats

Work with Tuya apps or BEOK Home    | iOS & Android

Support smart speakers   alexa

Technical Data

Power supply
AC200~240V; 50/60Hz

Load current
3A

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

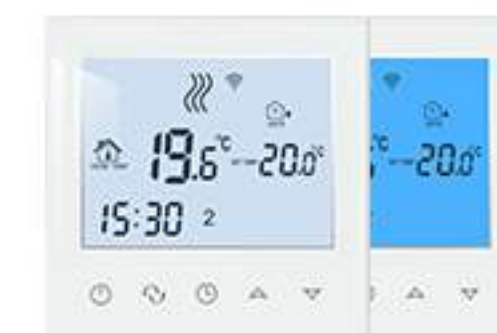
For Gas Boiler



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



TGT70-WIFI-WPB



TDS21-WIFI-WPB



TDS23-WIFI-WPB



BOT-313WIFI

Model No.

TGT70-WIFI-WPB

86x86x16mm.
Glass screen
with touch keys.



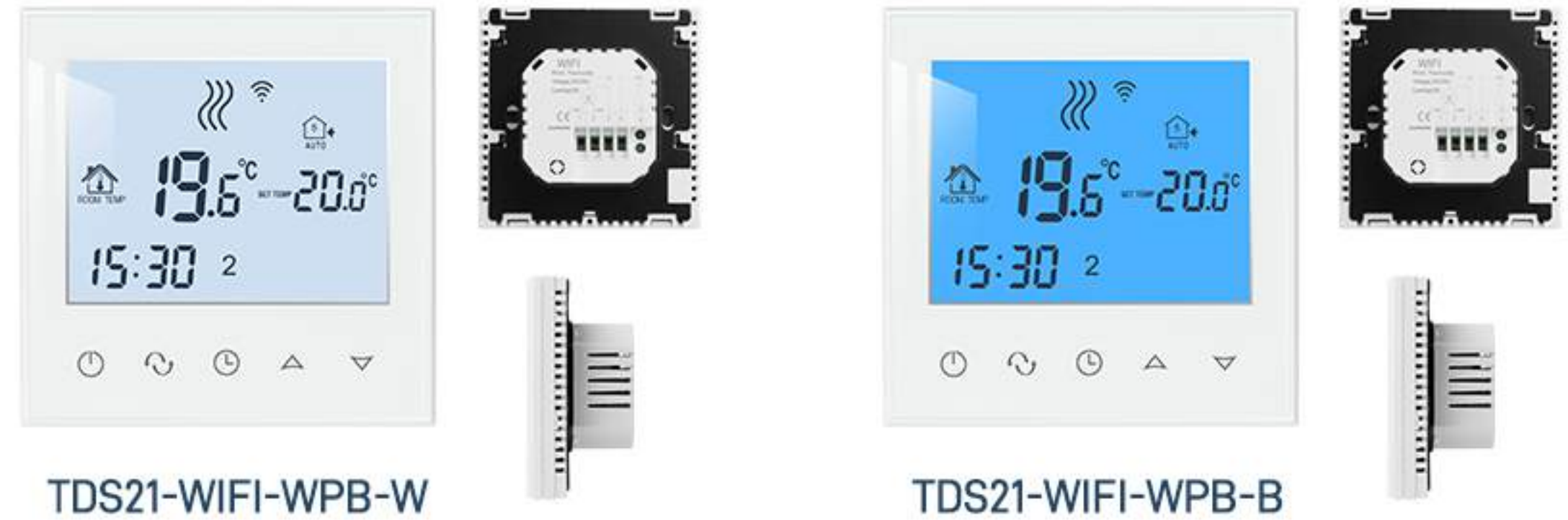
Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200~240V	Gas Boiler	Wi-Fi	External Sensor
TGT70-WIFI-WPB	✓	✓	✗	✗

Model No.

TDS21-WIFI-WPB

86x86x16mm.
Touch keys. 2 backlight colors optional



Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200~240V	Gas Boiler	Wi-Fi	External Sensor
TDS21-WIFI-WPB-W	✓	✓	✓	✗
TDS21-WIFI-WPB-B	✓	✓	✓	✗

Model No.

TDS23-WIFI-WPB

86x86x16mm.
Touch keys. 2 backlight colors optional.



TDS23-WIFI-WPB-W



TDS23-WIFI-WPB-B



Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200~240V	Gas Boiler	Wi-Fi	External Sensor
TDS23-WIFI-WPB-W	✓	✓	✗	✗
TDS23-WIFI-WPB-B	✓	✓	✓	✗

Model No.

BOT-313WIFI

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



BOT-313WIFI-WH



BOT-313WIFI-BL






Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200~240V	Gas Boiler	Wi-Fi	External Sensor
BOT-313WIFI-WH	✓	✓	✓	✗
BOT-313WIFI-BL	✓	✓	✓	✗

TDS7 Series Gas Boiler Thermostats

Work with Tuya apps   | iOS & Android

Support smart speakers   

Technical Data

Power supply
AC200~240V; 50/60Hz

Load current
3A

External material
PC+ABS (flame retardant)

Working environment
-5~50°C

Set temp. range
5~95°C (default 60°C)

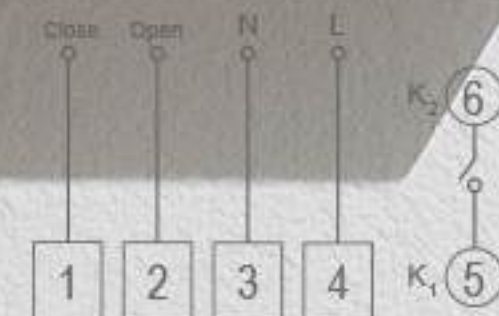
Temperature hysteresis
±0.5~±9.9°C Adjustable
(default ±1°C)

Temperature sensor
NTC



Wiring Diagram

For Gas Boiler



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



TDS72-WIFI-WPB



TDS75-WIFI-WPB



TGT79-WIFI-WPB

Model No.

TDS72-WIFI-WPB

86x86x13mm.

Frosted tactile shell with mechanical keys.



Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200~240V	Gas Boiler	Wi-Fi	External Sensor
TDS72-WIFI-WPB	✓	✓	✓	✗

Model No.

TDS75-WIFI-WPB

86x86x15mm.

Glossy panel with touch keys.



Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200~240V	Gas Boiler	Wi-Fi	External Sensor
TDS75-WIFI-WPB	✓	✓	✓	✗

Model No.

TGT79-WIFI-WPB

86x86x15mm.

Glossy panel with touch keys. Negative display screen.



Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200~240V	Gas Boiler	Wi-Fi	External Sensor
TGT79-WIFI-WPB	✓	✓	✓	✗

Model No.

TC38-WIFI-WPB

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

Work with Tuya apps  | iOS & Android

Support smart speakers   



TCW38-WIFI-WPB



TCB38-WIFI-WPB



Technical Data

Power supply
AC200~240V; 50/60Hz

Load current
3A

External material
PC+ABS (flame retardant)

Working environment
-5~50°C

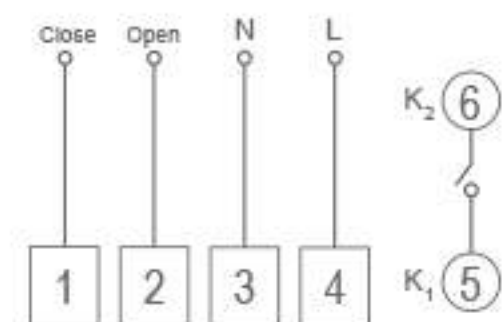
Set temp. range
5~95°C (default 60°C)

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

Temperature sensor
NTC

Wiring Diagram

For Gas Boiler




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

Selection Table

Model	Power Supply	Application	Remote Control	Additional
	AC 200~240V	Gas Boiler	Wi-Fi	External Sensor
TCW38-WIFI-WPB /	✓	✓	✓	✗
TCB38-WIFI-WPB	✓	✓	✓	✗

Model No.

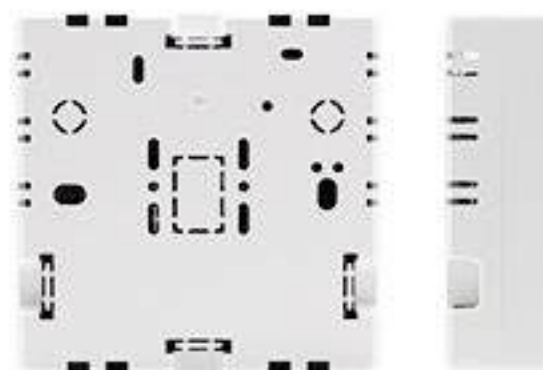
BOT-R9V-WIFI



86x86x24mm.
Touch keys.

Work with Tuya apps | iOS & Android

Support smart speakers



Technical Data

Power Supply
Three 1.5V AA Batteries

Current Load
3A

Power Consumption
<0.15W

Setting temp. range
5-99°C

Temp. control accuracy
0.5-5°C

Sensing Element
NTC

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

Wiring Diagram

For Gas Boiler NO COM NC



Screw mounted to wall,
 no mounting box required

Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	3 sections of 1.5V AA battery	Gas Boiler	Wi-Fi	External Sensor
BOT-R9V-WIFI	✓	✓	✓	✗

Wireless Thermostat for Gas Boiler

The receiver is connected to the boiler and the thermostat is wirelessly connected to the receiver via RF.

Gas boiler
with dry contact

⚡ AC 230V



Passive
connection

3 Batteries



Wi-Fi Thermostat For Gas Boiler

There are two types of gas boiler thermostats, wired and wireless.



Model No.
BOT-R7X-WIFI



Thermostat 118x86x24mm. Receiver 94x85x27mm.
Touch keys and knob adjustment.

Work with Tuya apps | iOS & Android

Support smart speakers



BOT-R7W-X-WIFI



BOT-R7B-X-WIFI

Mounting Options



Can be wall-mounted or placed on a tabletop.



Technical Data

Power Supply
Thermostat: 1.5V×3 (3 sections of 1.5V AA battery) and USB
Receiver: AC 230V

Current Load
3A

Temp. control accuracy
±1°C

Setting temp. range
5-99°C (factory default 5-35°C)

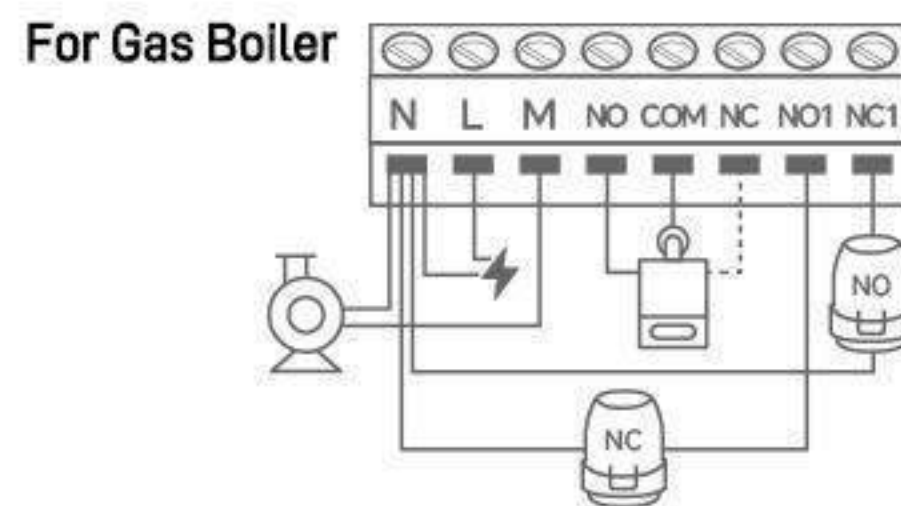
Limiting temp. range
5-99°C

Power Consumption
<0.15W

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

Sensing Element
NTC

Wiring Diagram of the Receiver



Selection Table

Model	Power Supply			Application	Remote Control
	<Thermostat> USB type C (5V)	<Thermostat> 3X 1.5V AA battery	<Receiver> AC 230V		
BOT-R7W-X-WIFI	✓	✓	✓	✓	✓
BOT-R7B-X-WIFI	✓	✓	✓	✓	✓

Model No.

BOT-306RF-WIFI

Thermostat: 130x100x100mm (Dimensions after installation with holder).
Touch keys. Receiver: 85x85x28mm.

Work with Tuya apps or BEOK Home    | iOS & Android

Support smart speakers  alexa



Technical Data

Working Voltage

Thermostat: USB type C (5V)
Receiver: 220V

Current Load

3A

Consumption

<0.3W

Temp. control accuracy

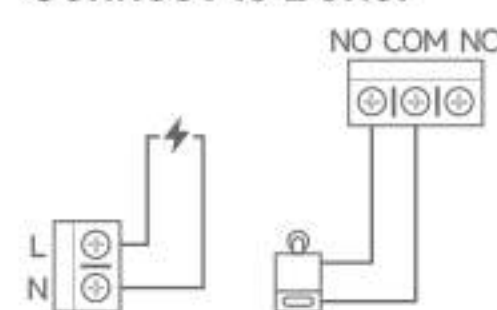
0.5-5°C

Setting temp. range

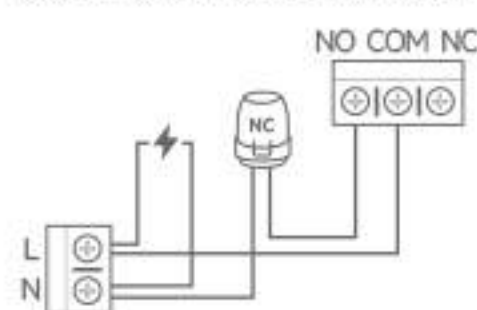
5-35°C


Wiring Diagram of the Receiver

Connect to Boiler



Connect to Actuator




Screw mounted to wall, no mounting box required

Selection Table

Model	Power Supply		Application	Remote Control
	<Thermostat> 2 X 1.5V AA battery	<Receiver> AC 230V	Gas Boiler	Wi-Fi
BOT-306RF-WIFI	✓	✓	✓	✓

BEOK Gas Boiler Thermostat Wireless



Mounting Options



Can be wall-mounted or placed on a tabletop.



Model No.

BOT-R6X-WIFI



Thermostat: 86x102x78mm (Dimensions after installation with holder). Touch keys. Receiver: 94x85x27mm.

Work with Tuya apps | iOS & Android

Support smart speakers

Technical Data

Power supply
Thermostat: three 1.5V AA batteries or USB powered (Type C)
Receiver: 110~220 VAC

Current load
3A (Resistive)

Temperature sensor
NTC

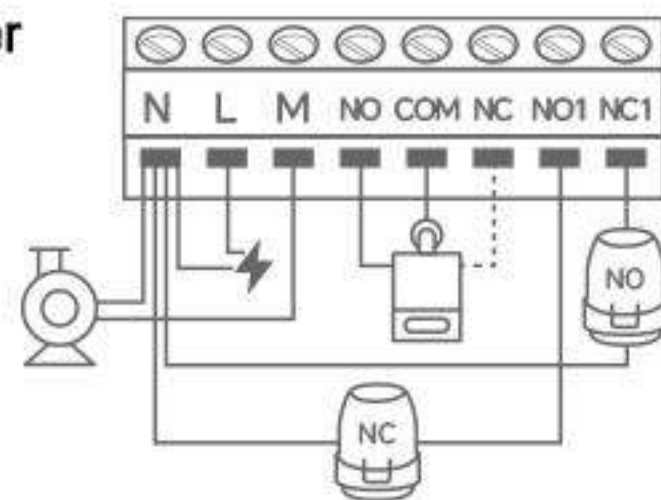
Temperature accuracy
 $\pm 1^{\circ}\text{C}$

Power consumption
<math> < 170 \mu\text{W}</math>

Temperature hysteresis
 $\pm 0.5 \sim \pm 9.9^{\circ}\text{C}$ Adjustable (default $\pm 1^{\circ}\text{C}$)

Wiring Diagram of the Receiver

For Gas Boiler



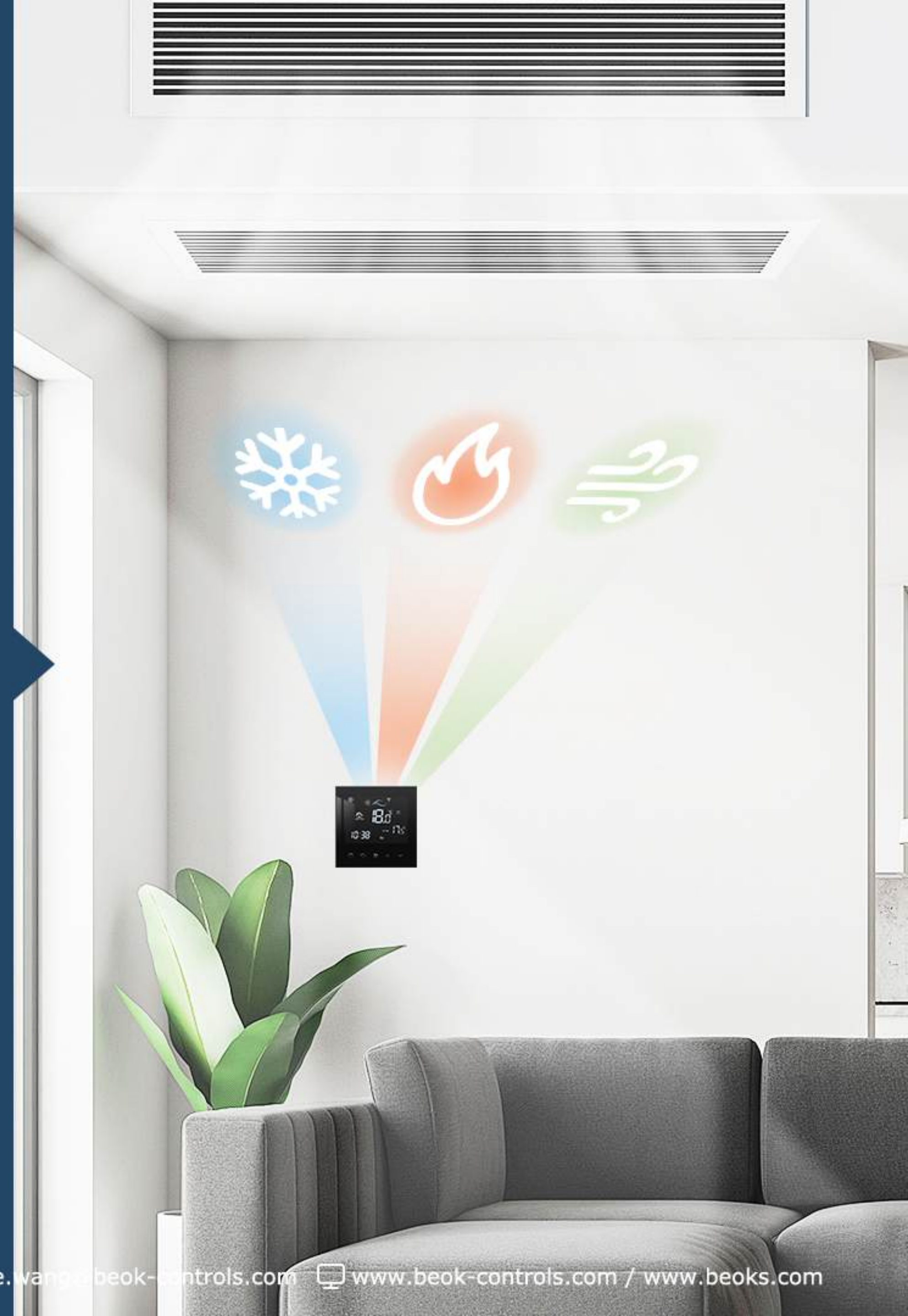
Selection Table

Model	Power Supply			Application	Remote Control
	<Thermostat> USB type C (5V)	<Thermostat> 3 X 1.5V AA battery	<Receiver> AC 230V		
BOT-R6X-WIFI	✓	✓	✓	✓	✓

3


Wi-Fi Thermostat for Fan Coil

Fan coil thermostats are divided into four-control and two-control.



TDS Series Wi-Fi Thermostats

Work with Tuya apps or BEOK AC    | iOS & Android

Support smart speakers  alexa

Technical Data

Power supply
AC200~240V; 50/60Hz

Load current
3A~5A

External material
PC+ABS (flame retardant)

Power consumption
<0.5W

Set temp. range
10~40°C

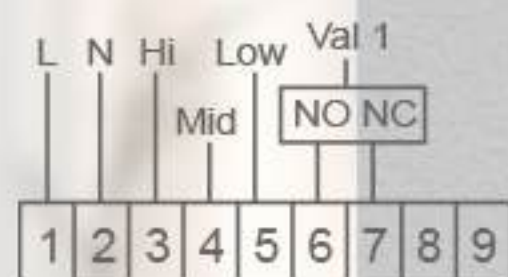
Temperature hysteresis
±0.5~±9.9°C Adjustable
(default ±1°C)

Temperature sensor
NTC



Wiring Diagram

For 2-controls
Fan Coil



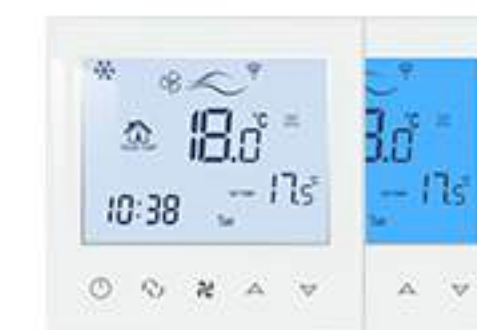
For 4-controls
Fan Coil




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



TGT70-WIFI-AC



TDS21WIFI-AC



TDS23WIFI-AC

Model No.
TGT70-WIFI-AC

86x86x16mm.
Glass screen with touch keys.

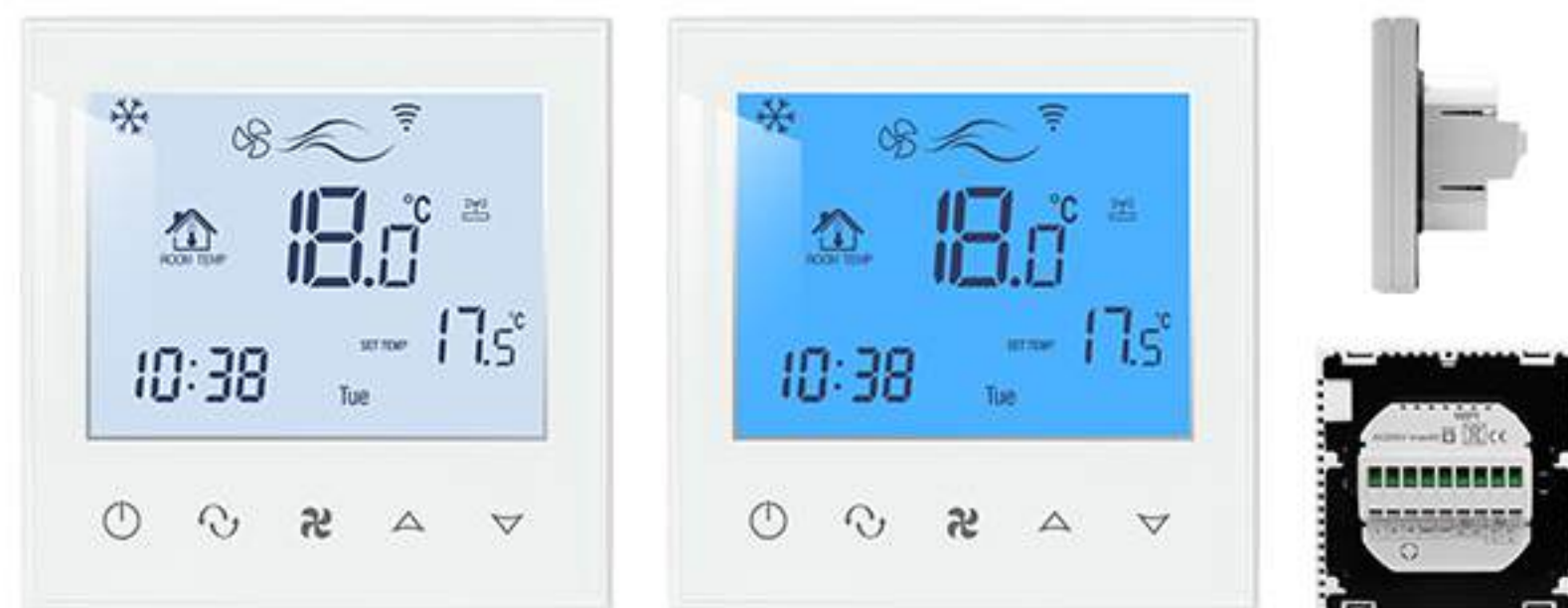


Selection Table

Model	Power Supply	Application		Recmote Control
	AC 200~240V	2-pipe Fan Coil	4-pipe Fan Coil	Wi-Fi
TGT70-WIFI-AC2	✓	✓	✗	✓
TGT70-WIFI-AC4	✓	✗	✓	✓

Model No.
TDS21WIFI-AC

86x86x15mm. Glossy panel with touch keys.



TDS21WIFI-AC-WW

TDS21WIFI-AC-BL

Selection Table

Model	Power Supply	Application		Recmote Control
	AC 200~240V	2-pipe Fan Coil	4-pipe Fan Coil	Wi-Fi
TDS21WIFI-AC2-WW	✓	✓	✗	✓
TDS21-WIFI-AC2-BL	✓	✓	✗	✓
TDS21-WIFI-AC4-WW	✓	✗	✓	✓
TDS21-WIFI-AC4-BL	✓	✗	✓	✓

Model No.
TDS23WIFI-AC

86x86x15mm. Glossy panel with touch keys.



TDS23WIFI-AC-WW

TDS23WIFI-AC-BL

Selection Table

Model	Power Supply	Application		Recmote Control
	AC 200~240V	2-pipe Fan Coil	4-pipe Fan Coil	Wi-Fi
TDS23-WIFI-AC2-WW	✓	✓	✗	✓
TDS23-WIFI-AC2-BL	✓	✓	✗	✓
TDS23-WIFI-AC4-WW	✓	✗	✓	✓
TDS23-WIFI-AC4-BL	✓	✗	✓	✓

BEOK Fan Coil Thermostat

Model No.

TGP51G-WIFI-AC

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



Work with Tuya apps or BEOK AC    | iOS & Android

Support smart speakers  alexa

Technical Data

Power supply
AC200~240V; 50/60Hz

Load current
3A~5A

External material
PC+ABS (flame retardant)

Accuracy
±1°C

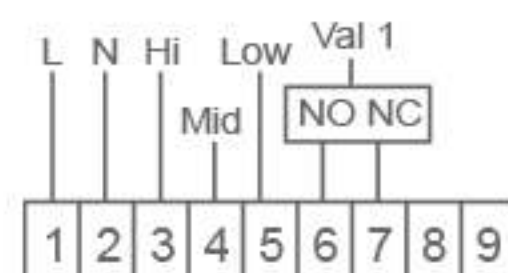
Set temp. range
10~40°C

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

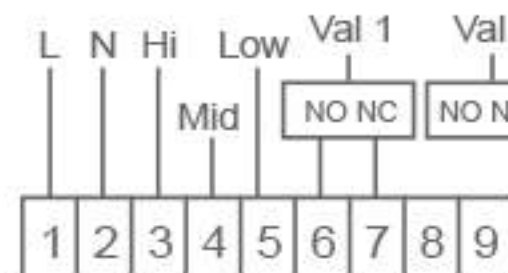
Temperature sensor
NTC

Wiring Diagram

For 2-controls
Fan Coil



For 4-controls
Fan Coil



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

Selection Table

Model	Power Supply	Application		Recmote Control
	AC 200~240V	2-pipe Fan Coil	4-pipe Fan Coil	Wi-Fi
TGP51G-WIFI-AC2	✓	✓	✗	✓
TGP51G-WIFI-AC4	✓	✗	✓	✓

BEOK Fan Coil Thermostat

Model No.

TOL313-WIFI-AC

86x86x13.3mm. Large LCD screen with mechanical keys.

Work with Tuya apps or BEOK AC    | iOS & Android

Support smart speakers  alexa



TOL313-WIFI-AC-W



T0313-WIFI-AC-B



Technical Data

Power supply
AC200~240V; 50/60Hz

Load current
3A~5A

External material
PC+ABS (flame retardant)

Accuracy
±1°C

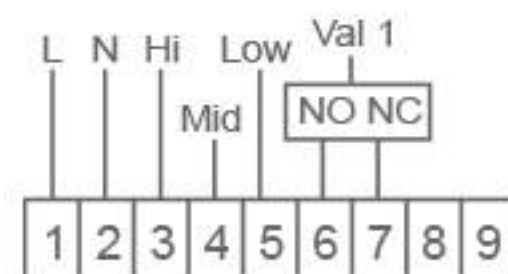
Set temp. range
10~40°C

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

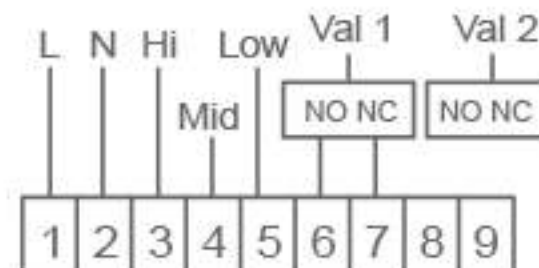
Temperature sensor
NTC

Wiring Diagram

For 2-controls
Fan Coil



For 4-controls
Fan Coil




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

Selection Table

Model	Power Supply	Application		Recmote Control
	AC 200~240V	2-pipe Fan Coil	4-pipe Fan Coil	Wi-Fi
TOL313-WIFI-AC2-W	✓	✓	✗	✗
TOL313-WIFI-AC4-W	✓	✓	✗	✓
TOL313-WIFI-AC2-B	✓	✗	✓	✗
TOL313-WIFI-AC4-B	✓	✗	✓	✓



Beok Controls

