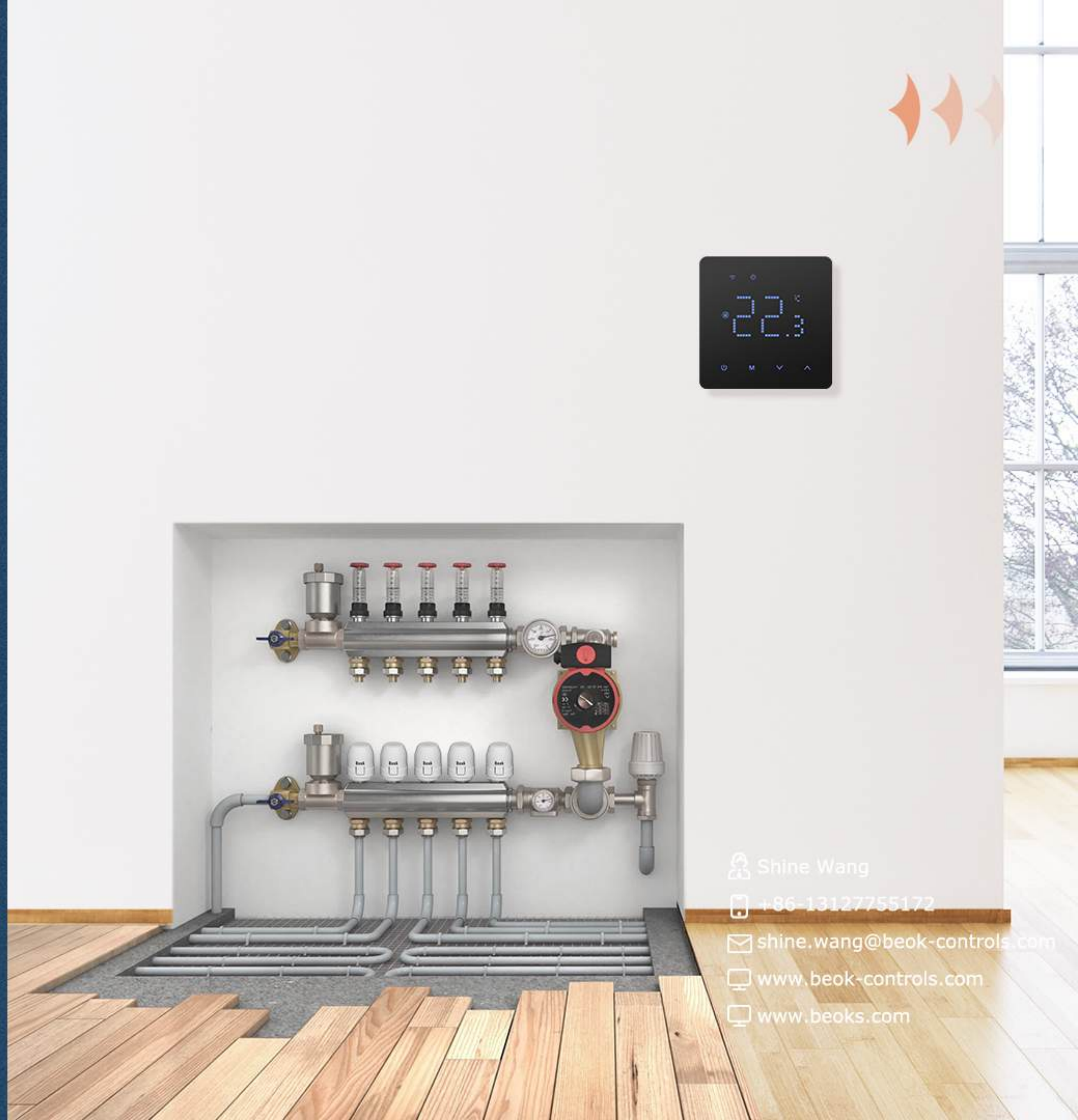


BEOK 2025 CATALOG

Water Underfloor Heating Thermostat



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 www.beoks.com

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

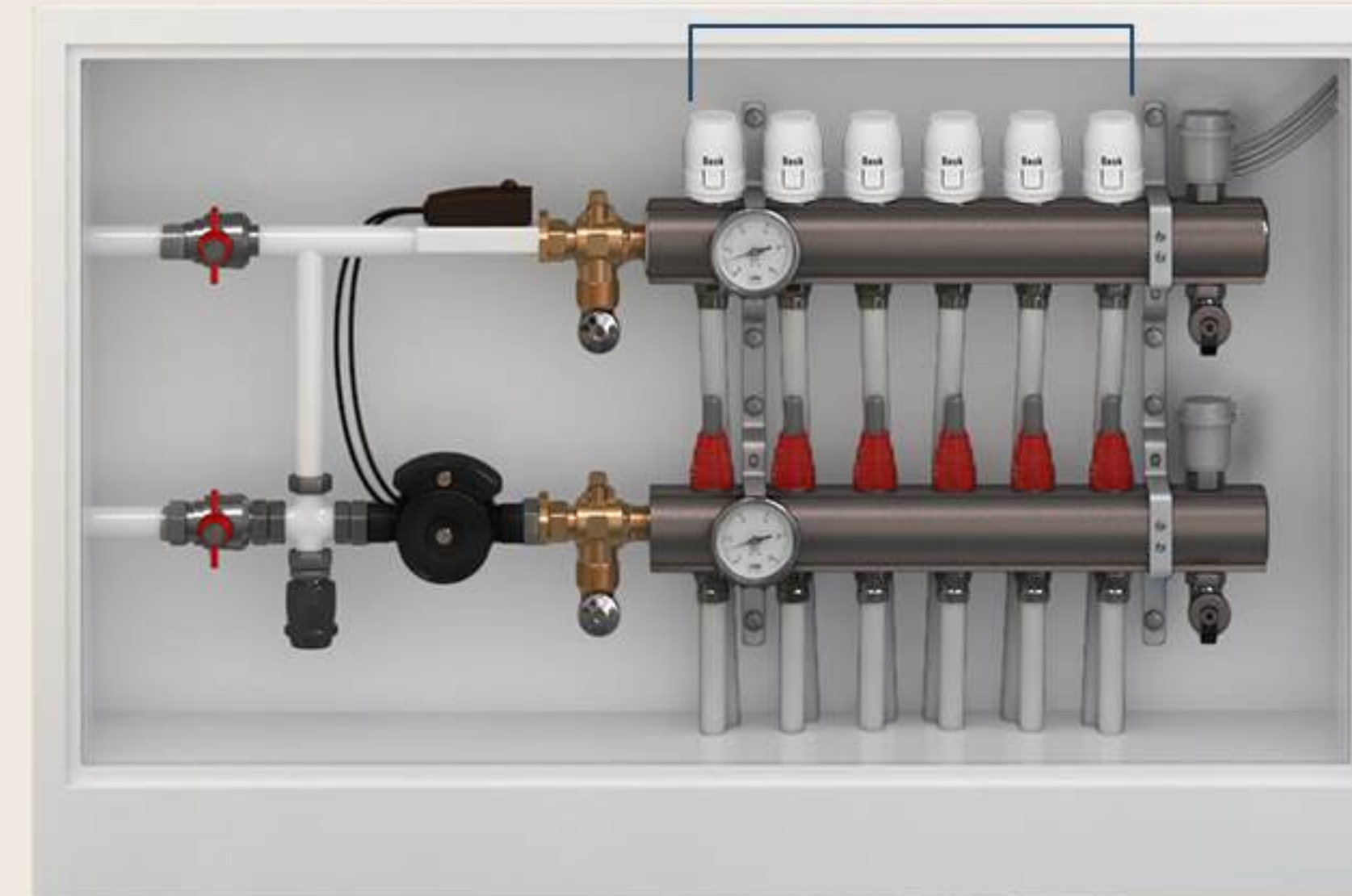
Water Underfloor Heating Thermostat

For Water Underfloor Heating System

Connect to
Hub Controller



Connect to
Actuator(NC/NO)



⚡ **AC 230 V**



Connect to
Electric Valve

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.



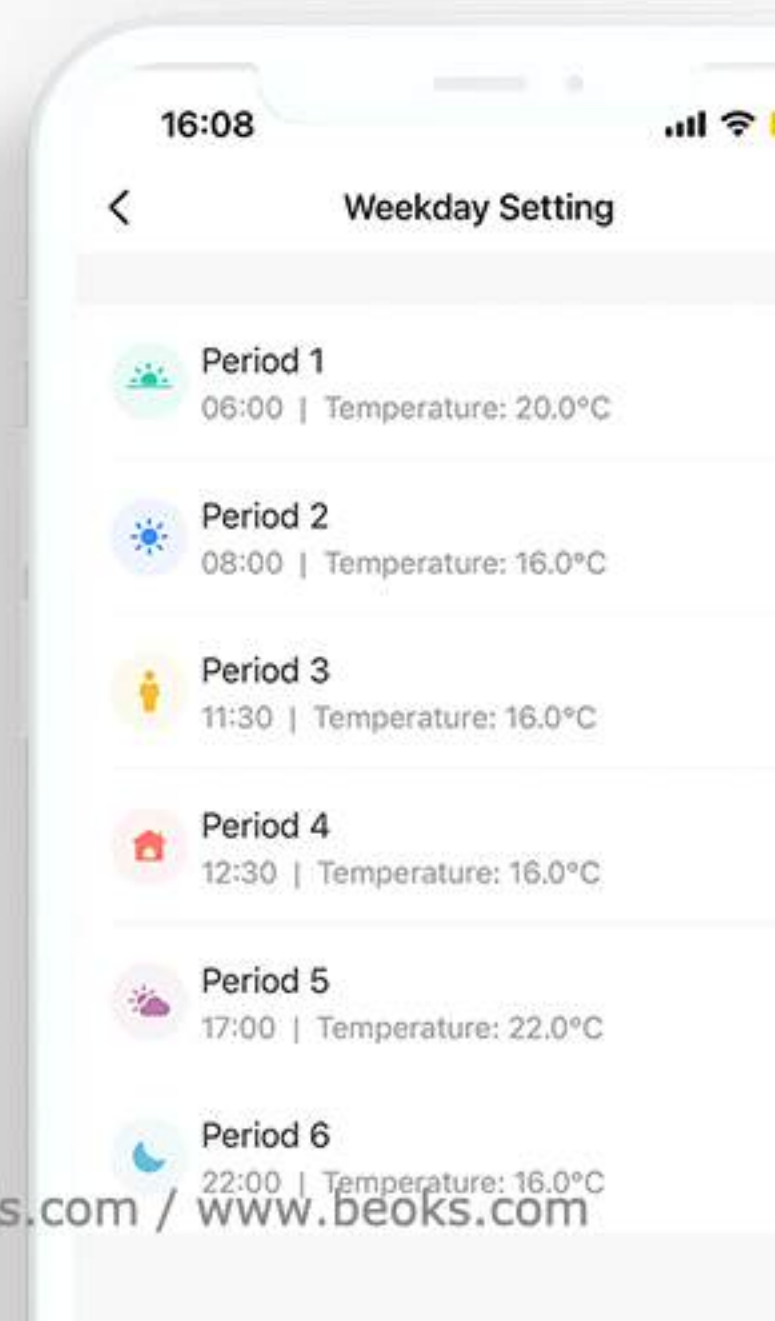
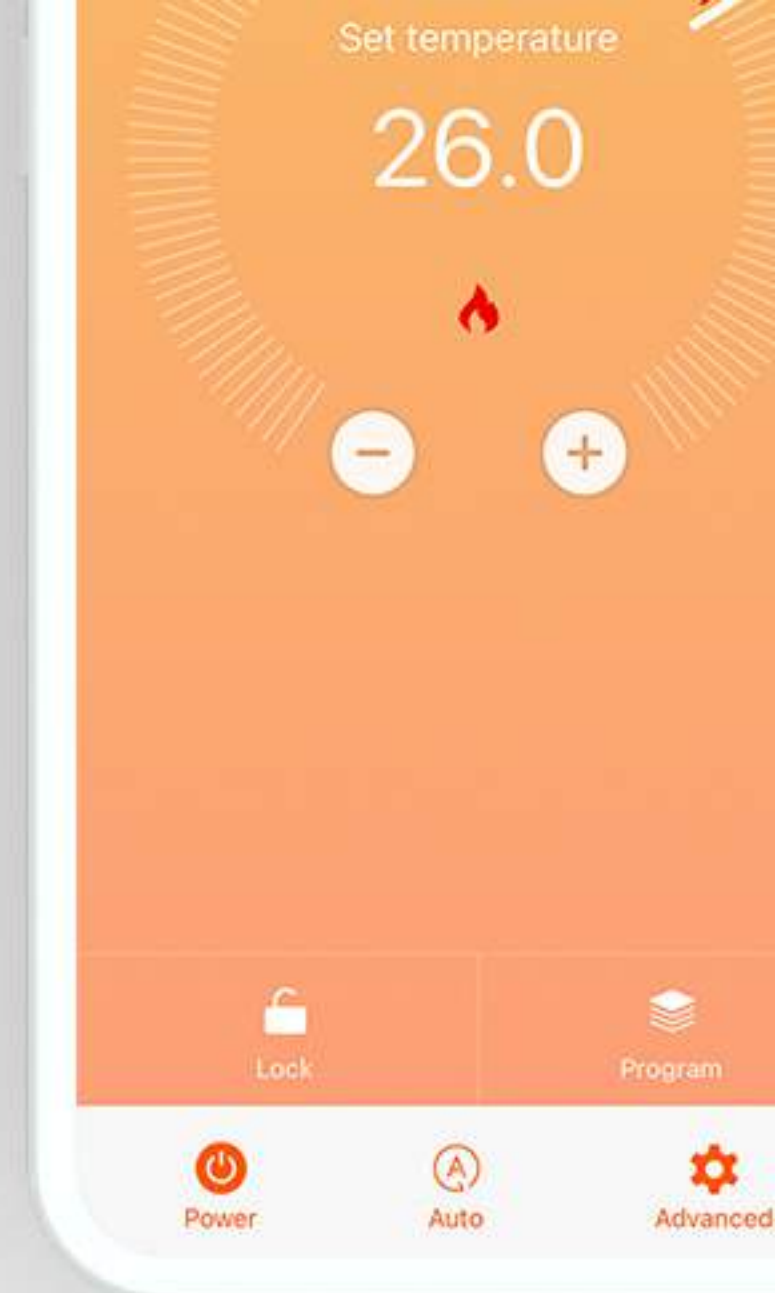
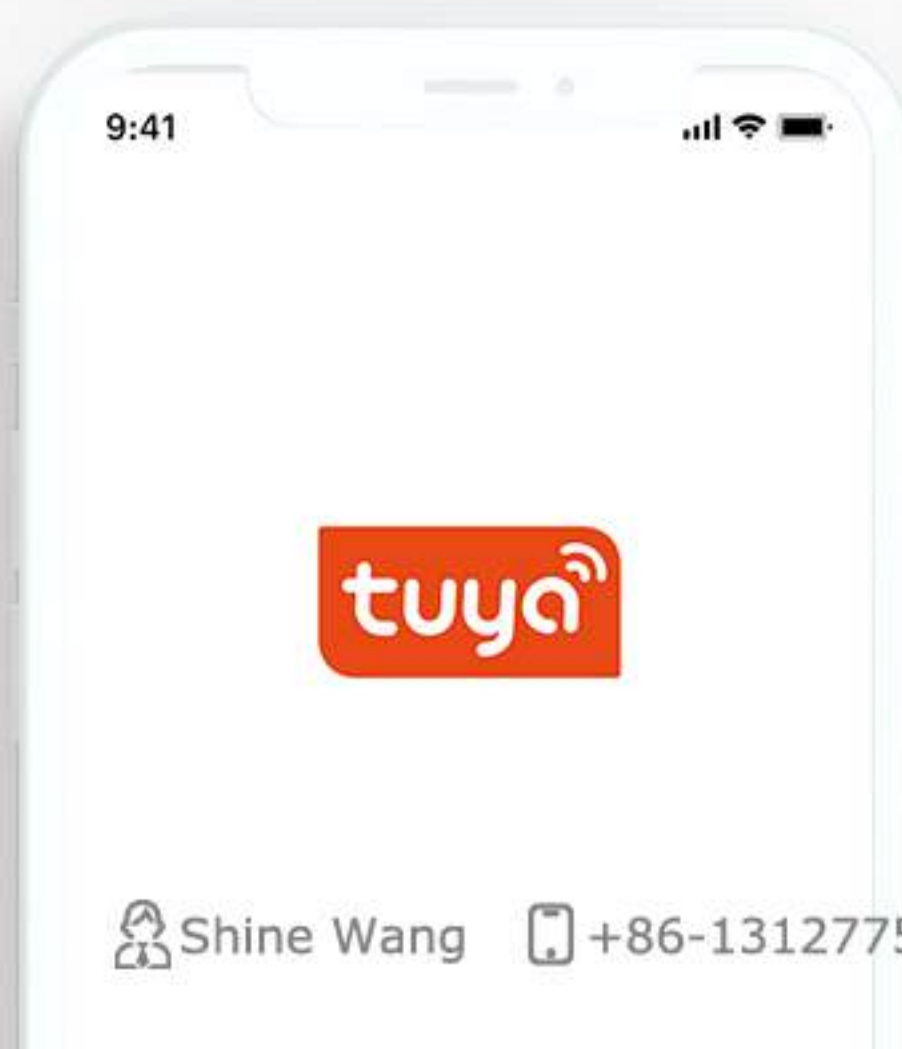
Constant temperature

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.

BEOK Products

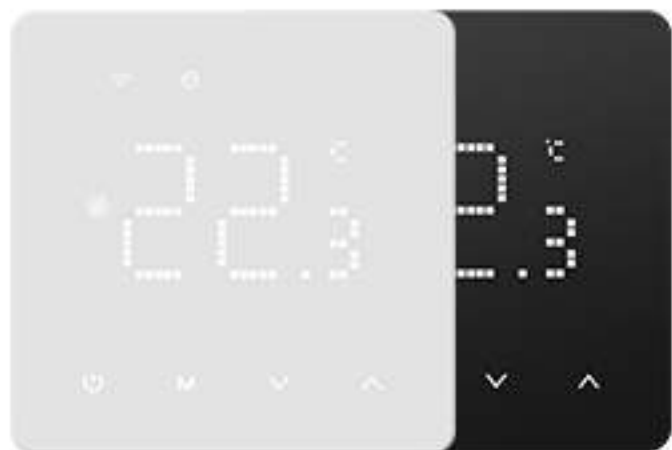
Thermostat App Interface



Contents



TOL47-WP
P09



TGM50-WP
P10



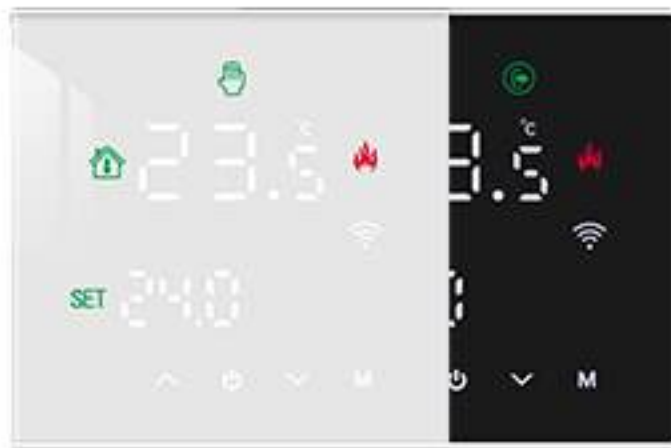
TGP53-WP
P11



TGP508-WP
P11



TGP51G-WP
P13



TGW60-WP
P14



TGR85-WP
P15



TGR86-WP
P15



TDR83-WP

👉 P15



TDR89-WP

👉 P15



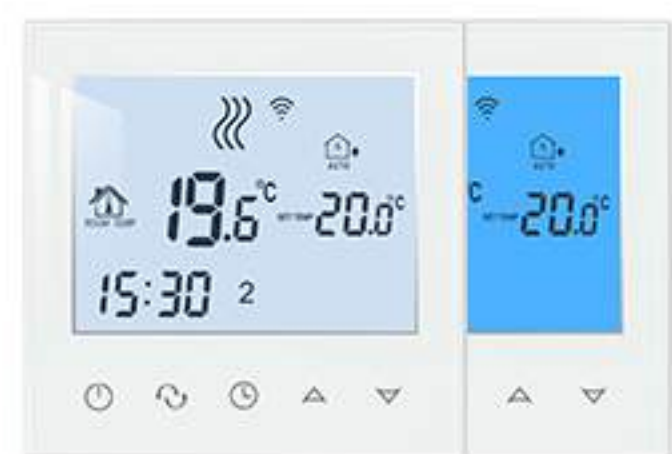
TS4-WP

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TGT70-WP

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TDS21-WP

👉 P19



TDS23-WP

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TOL313-WP

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TDS72-WP

👉 P22



TDS75-WP

👉 P22



TGT79-WP

👉 P22



TC38-WP

👉 P24

BEOK Water Underfloor Heating Thermostat



Model No.
TOL47-WP



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

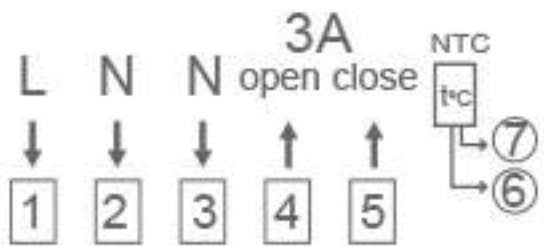
Set temp. range
5~95°C (default 60°C)

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

Temperature sensor
NTC

Wiring Diagram

For Water Underfloor Heating



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

Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 100~240V	Water Heating(3A)	Wi-Fi	External Sensor
TOL47-WP	✓	✓	✗	Optional
TOL47-WIFI-WP	✓	✓	✓	Optional

BEOK Water Underfloor Heating Thermostat

Model No. **TGM50-WP** 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-WP



TGM50B-WP



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 Water Underfloor Heating



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

Selection Table

Model	Power Supply	Application	Recmote Control		Additional
	AC 100~240V	Water Heating(3A)	Wi-Fi	Zigbee	External Sensor
TGM50-WP / TGM50B-WP	✓	✓	✗	✗	Optional
TGM50-WIFI-WP / TGM50B-WIFI-WP	✓	✓	✓	✗	Optional
TGM50-ZB-WP / TGM50B-ZB-WP	✓	✓	✗	✓	Optional

TGP5 Series Thermostats

Work with Tuya apps  | iOS & Android

Support smart speakers   

Technical Data

Power supply AC100~240V; 50/60Hz	Set temp. range 5~95°C (default 60°C)
Load current 3A	Temperature hysteresis ±0.5~±9.9°C Adjustable (default ±1°C)
External material PC+ABS (flame retardant)	Temperature sensor NTC
Working environment -5~50°C	

Wiring Diagram

For Water Underfloor Heating



TGP53-WP



TGP508-WP



Model No.
TGP53-WP



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	Water Heating(3A)	Wi-Fi	External Sensor
TGP53-WP	✓	✓	✗	Optional
TGP53-WIFI-WP	✓	✓	✓	Optional



Model No.
TGP508-WP



86x86x14mm. 3 vertically distributed touch keys.

Selection Table

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

BEOK Water Underfloor Heating Thermostat



Model No.
TGP51G-WP



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

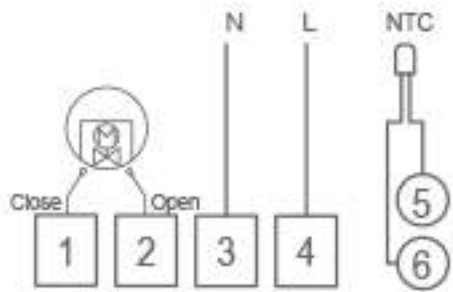
Set temp. range
5~95°C (default 60°C)

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

Temperature sensor
NTC

Wiring Diagram

For Water Underfloor Heating



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

Selection Table

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

BEOK Water Underfloor Heating Thermostat

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

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)

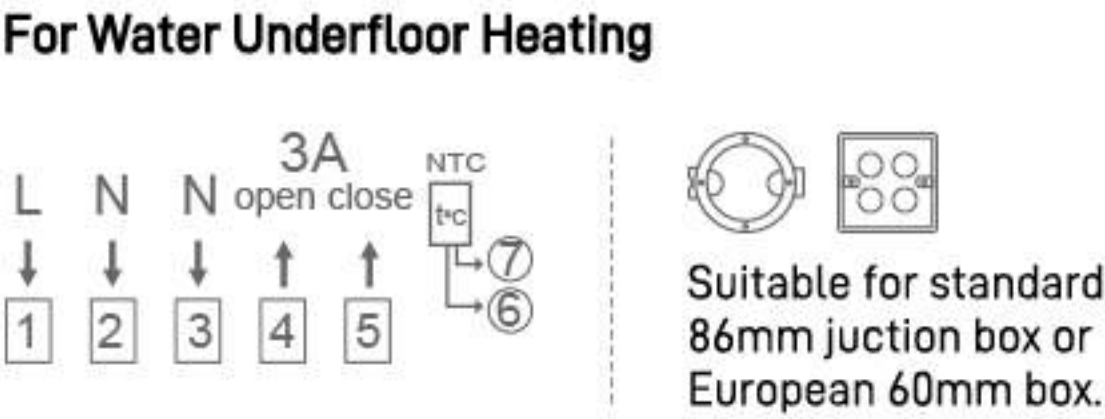
Working environment
-5~50°C

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



Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 100~240V	Water Heating(3A)	Wi-Fi	External Sensor
TGW60W-WP / TGW60B-WP	✓	✓	✗	Optional
TGW60W-WIFI-WP / TGW60B-WIFI-WP	✓	✓	✓	Optional

TDR8 Series Thermostats

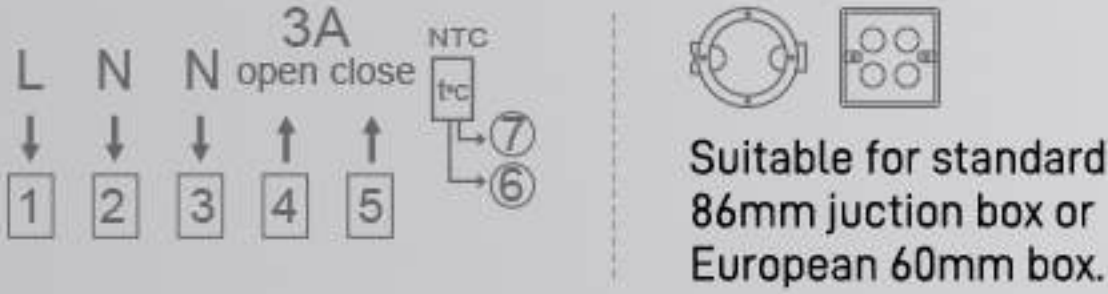
Work with Tuya apps  | iOS & Android   

Technical Data

Power supply AC100~240V; 50/60Hz	Set temp. range 5~95°C (default 60°C)
Load current 3A	Temperature hysteresis ±0.5~±9.9°C Adjustable (default ±1°C)
External material PC+ABS (flame retardant)	Temperature sensor NTC
Working environment -5~50°C	

Wiring Diagram

For Water Underfloor Heating



TGR86-WP



TGR85-WP



TDR83-WP



TDR89-WP

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

 **zigbee** | Zigbee Model Optional



Selection Table

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

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



Selection Table

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

Model No. **TGR86-WP** 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-WP	✓	✓	✗	Optional
TGR86-WIFI-WP	✓	✓	✓	Optional

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

 **zigbee** | Zigbee Model Optional



TDR89W-WP



TDR89B-WP

Selection Table

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

Model No.
TS4-WP

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
3A

External material
PC+ABS (flame retardant)

Working environment
-5~50°C

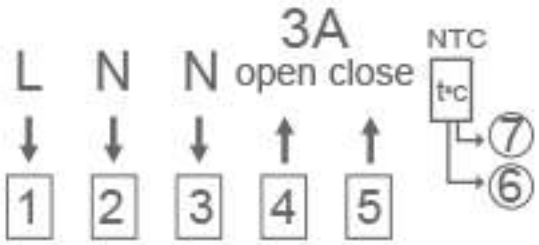
Set temp. range
5~95°C (default 60°C)

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

Temperature sensor
NTC

Wiring Diagram

For Water Underfloor Heating



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

Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 100~240V	Water Heating(3A)	Wi-Fi	External Sensor
TS4W-WP / TS4G-WP	✓	✓	✗	Optional
TS4W-WIFI-WP / 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
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

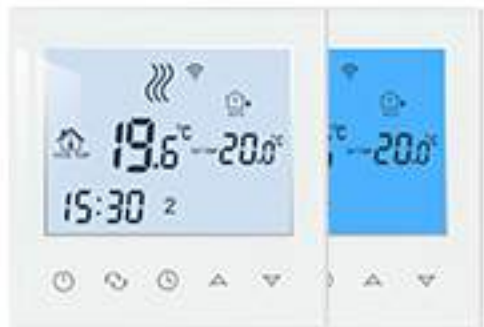
For Water Underfloor Heating



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



TGT70-WP



TDS21-WP



TDS23-WP



TOL313-WP

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



Selection Table

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

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



Selection Table

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

Model No. **TDS23-WP** 86x86x16mm.
Touch keys. 2 backlight colors optional.



Selection Table

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

Model No. **TOL313-WP** 86x86x16mm.
5 Mechanical keys. 2 backlight colors optional.



Selection Table

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

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
3A

External material
PC+ABS (flame retardant)

Working environment
-5~50°C

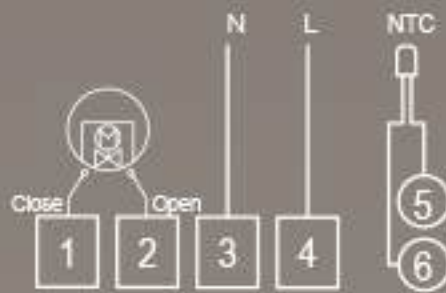
Set temp. range
5~95°C (default 60°C)

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

Temperature sensor
NTC

Wiring Diagram

For Water Underfloor Heating



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



TDS72-WP



TDS75-WP



TGT79-WP

Model No.
TDS72-WP



86x86x13mm.
Frosted tactile shell with mechanical keys.

Selection Table

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

Model No.
TDS75-WP



86x86x15mm.
Glossy panel with touch keys.

Selection Table

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

Model No.
TGT79-WP



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

Selection Table

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

BEOK Water Underfloor Heating Thermostat

Model No. **TC38-WP** 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-WP



TCB38-WP



Technical Data

Power supply
AC200~240V; 50/60Hz

Load current
3A

External material
PC+ABS (flame retardant)

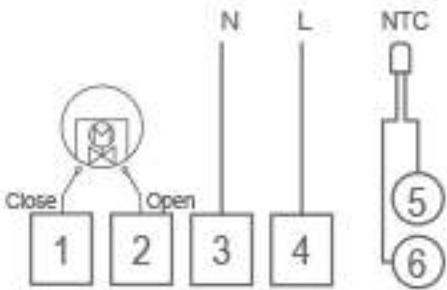
Working environment
-5~50°C

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 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	Water Heating(3A)	Wi-Fi	External Sensor
TC38W-WP / TC38B-WP	✓	✓	✗	Optional
TC38W-WIFI-WP / TC38B-WIFI-WP	✓	✓	✓	Optional



Beok Controls

