



BEOK 2025 CATALOG

 **Zigbee 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

Zigbee Thermostat

App



Zibee
Gateway



Thermostat



The Zigbee thermostat connects to your phone through a gateway for app control and voice control.

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.



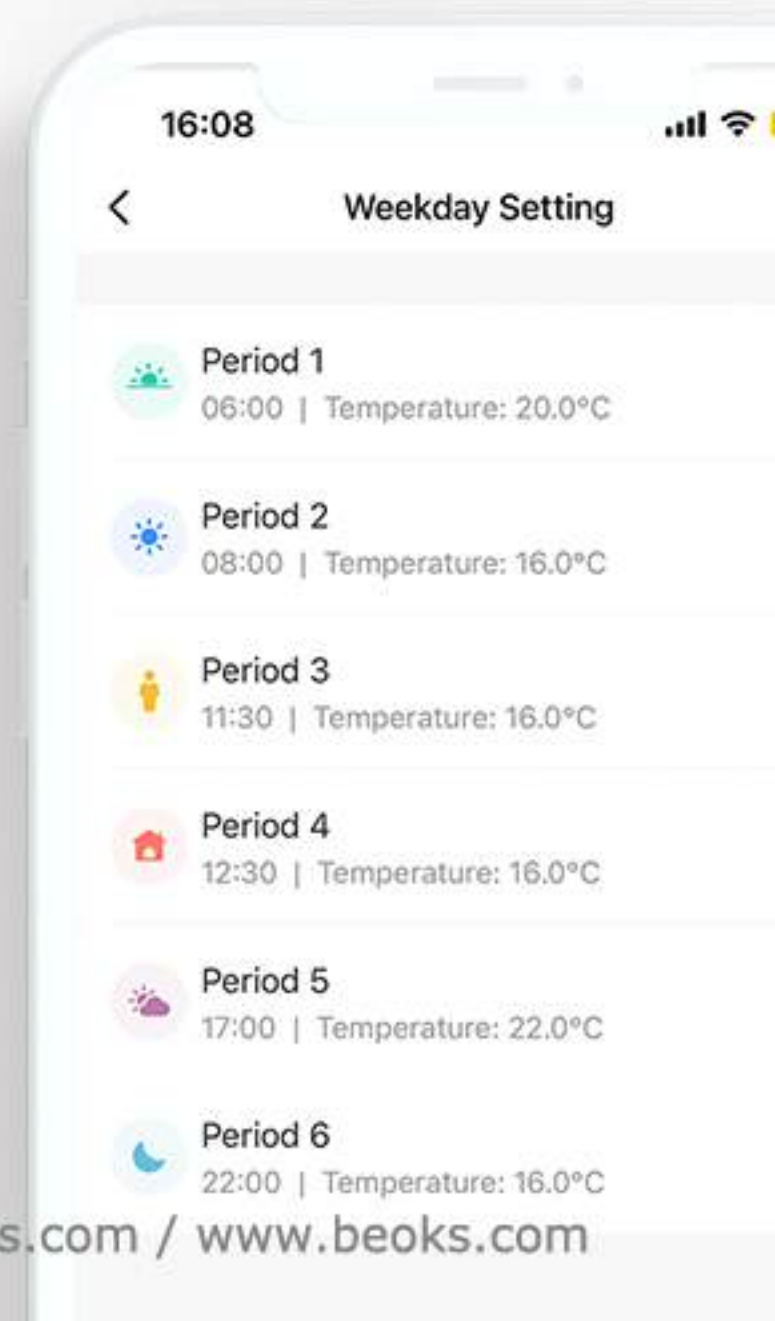
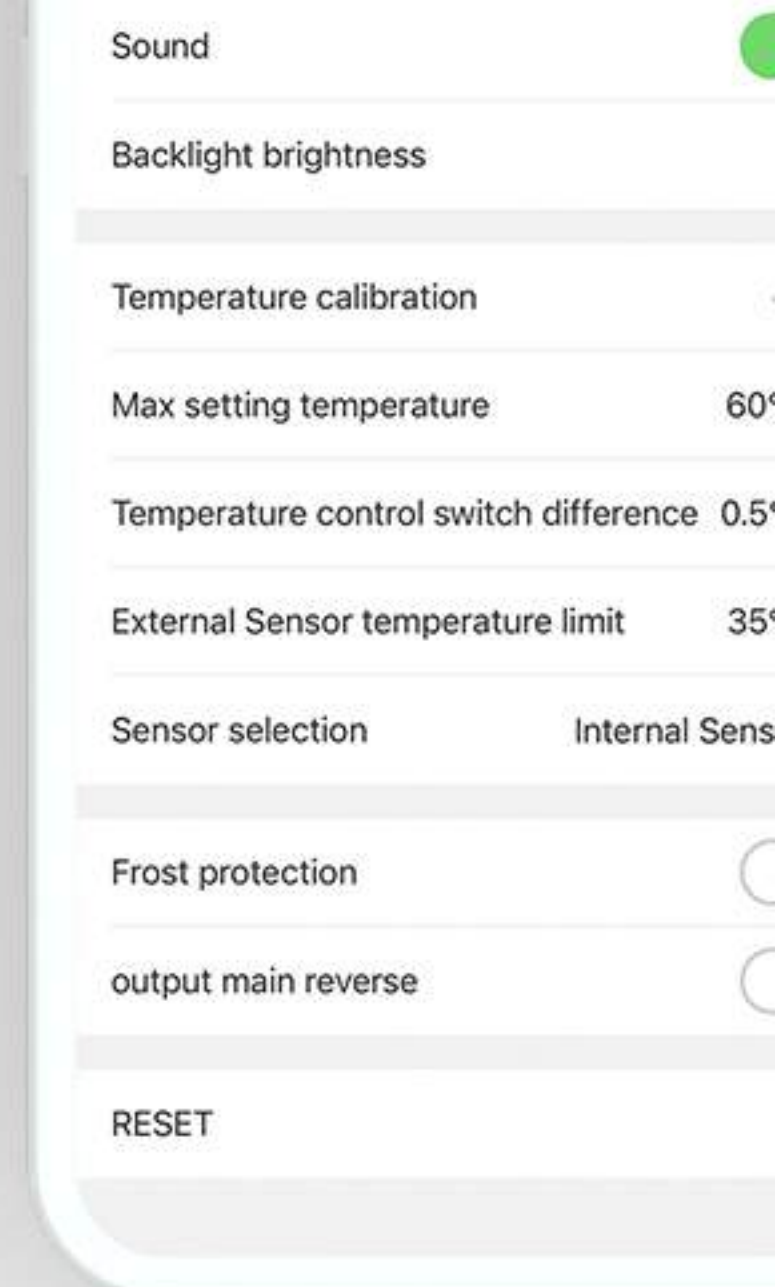
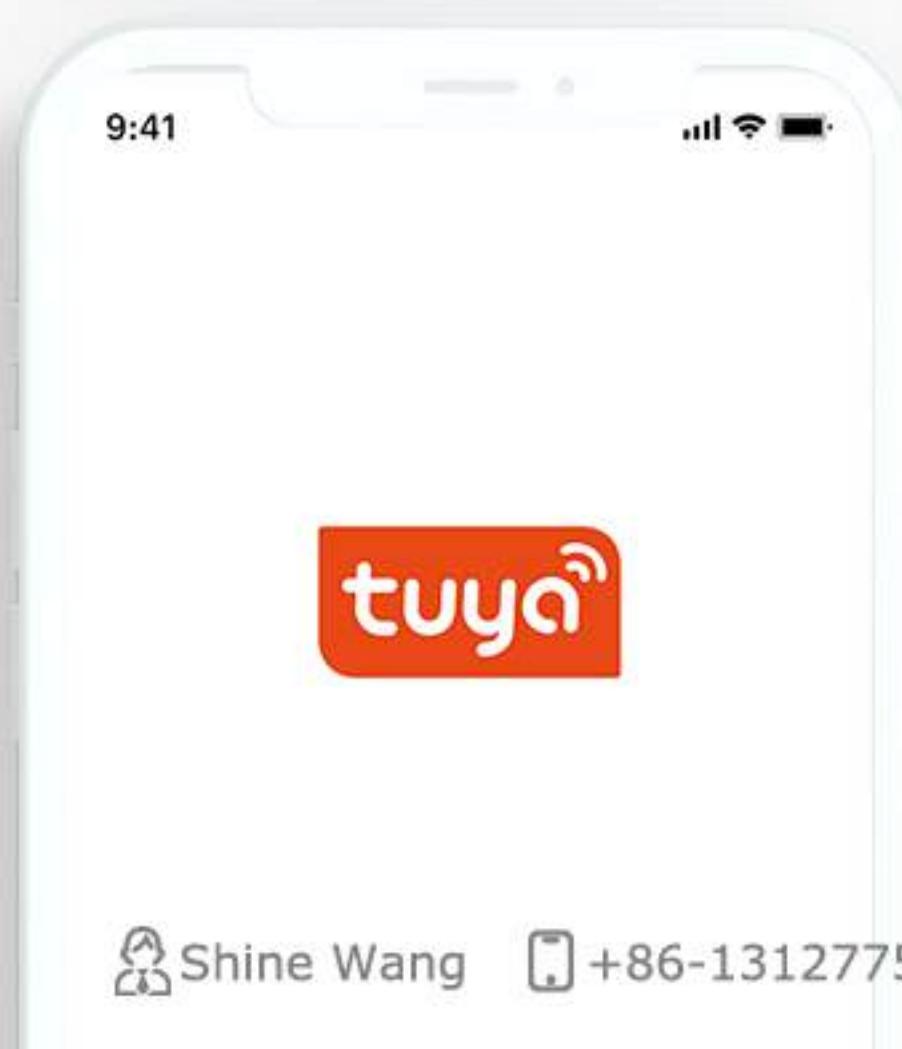
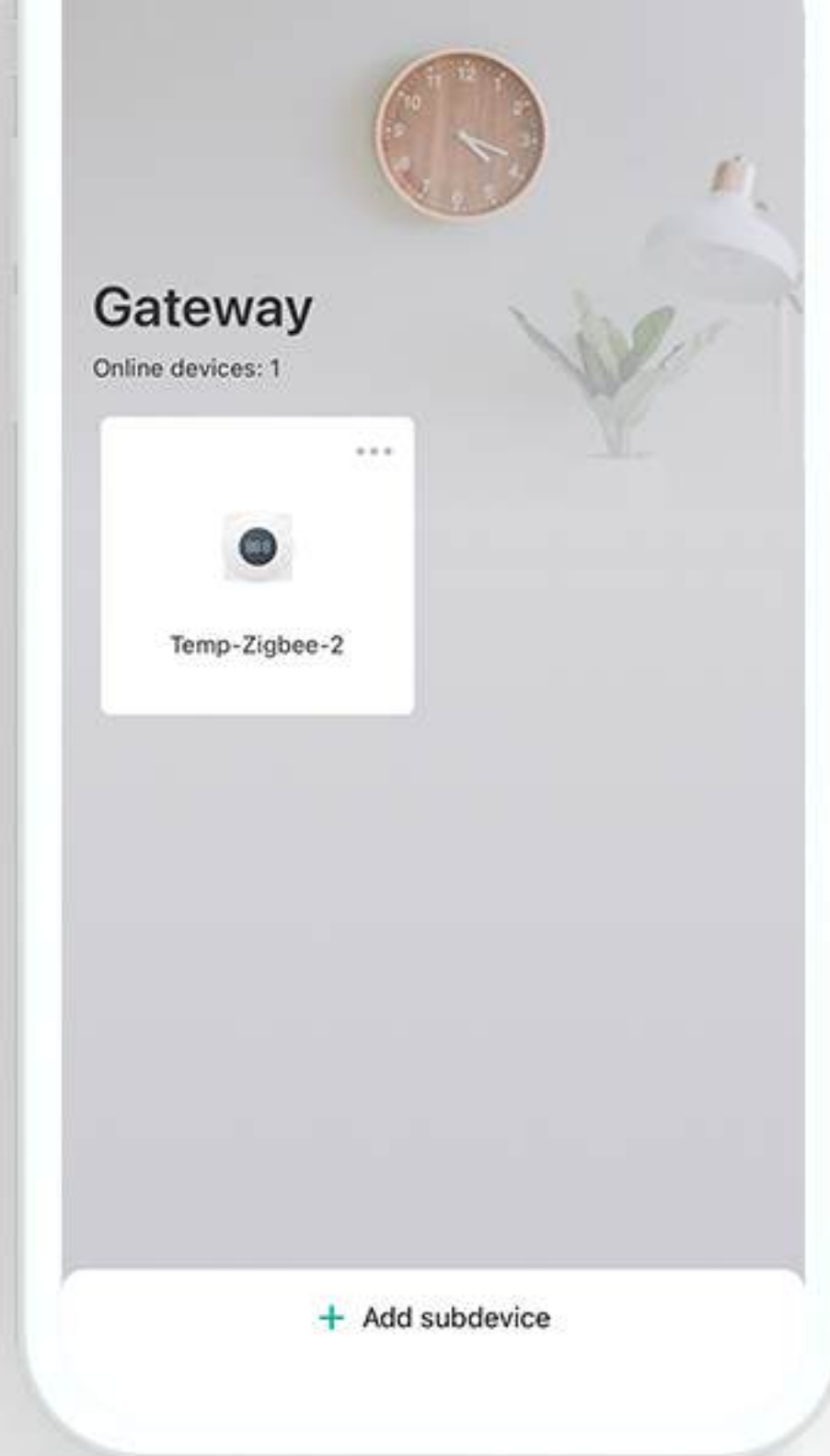
Constant temperature

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

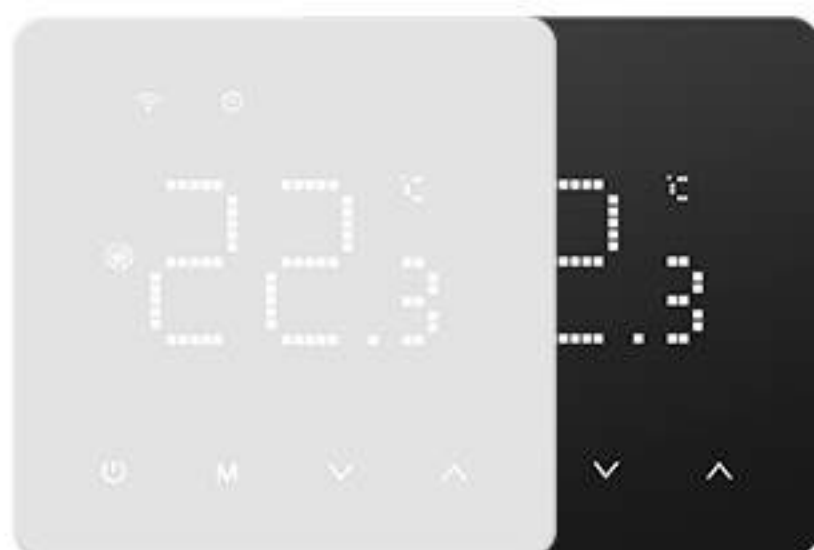
Individual functions may vary depending on the model, please refer the product introduction page for details.

BEOK Products

Thermostat App Interface



Contents



TGM50-ZB

👉 P08



TGR85-ZB

👉 P08



TDR89-ZB

👉 P08



WLN-03-X

👉 P08

BEOK Zigbee Thermostat

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

Work with Tuya apps  | iOS & Android

 Support smart speakers   



TGM50-ZB



TGM50B-ZB



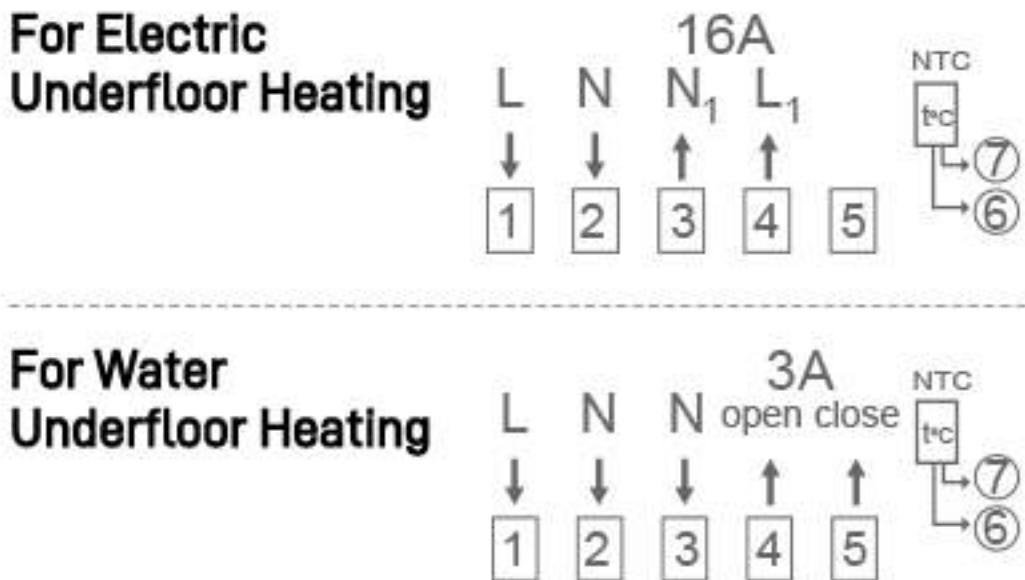
Technical Data

Power supply
AC100~240V; 50/60Hz

Load current
Water heater 3A
Electric heater 16A
Gas boiler 3A

Set temp. range
5~95°C (default 60°C)

Wiring Diagram



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



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.

Selection Table

Model	Power Supply AC 100~240V	Application			Remote Control Zigbee	Additional External Sensor
		Electric Heating(16A)	Water Heating(3A)	Gas Boiler		
TGM50-ZB-EP	✓	✓	✗	✗	✓	✓
TGM50-ZB-WP	✓	✗	✓	✗	✓	Optional
TGM50-ZB-WPB	✓	✗	✗	✓	✓	✗
TGM50B-ZB-EP	✓	✓	✗	✗	✓	✓
TGM50B-ZB-WP	✓	✗	✓	✗	✓	Optional
TGM50B-ZB-WPB	✓	✗	✗	✓	✓	✗



Model No.
TGR85-ZB



86x86x18mm. Glass mirror surface with touch keys.

Work with Tuya apps  | iOS & Android

 Support smart speakers   



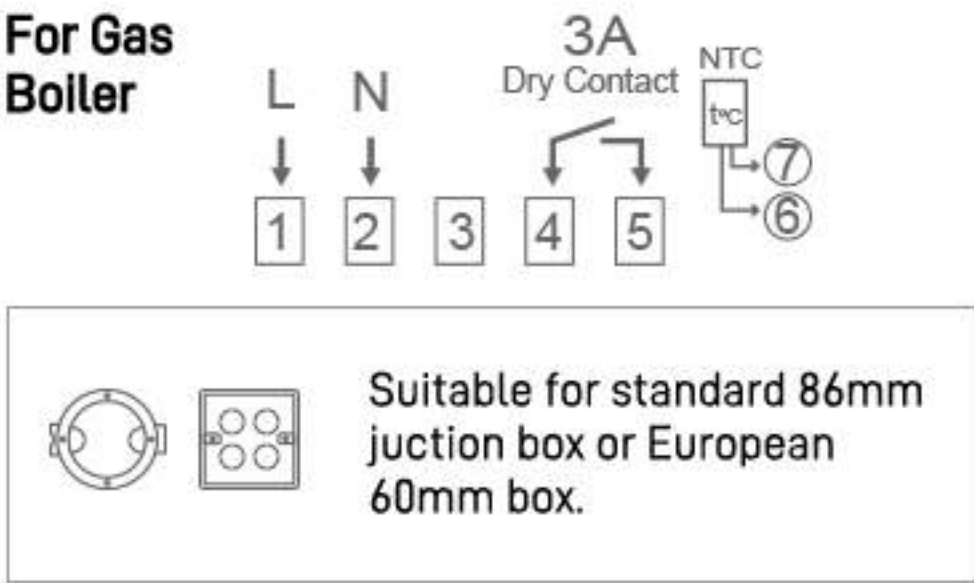
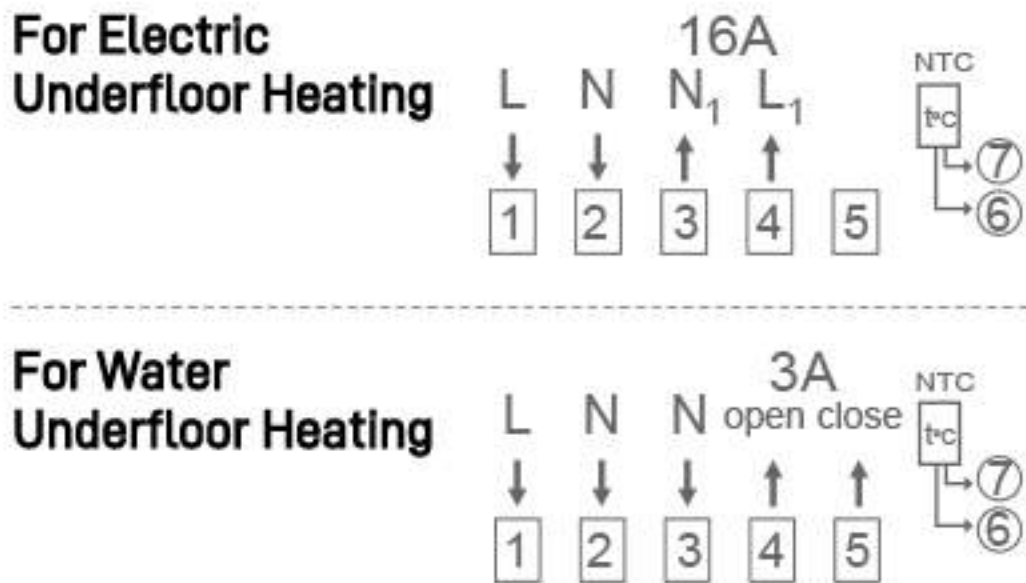
Technical Data

Power supply
AC100~240V; 50/60Hz

Load current
Water heater 3A
Electric heater 16A
Gas boiler 3A

Set temp. range
5~95°C (default 60°C)

Wiring Diagram



Selection Table

Model	Power Supply AC 100~240V	Application			Recmote Control Zigbee	Additional External Sensor
		Electric Heating(16A)	Water Heating(3A)	Gas Boiler		
TGR85-ZB-EP	✓	✓	✗	✗	✓	✓
TGR85-ZB-WP	✓	✗	✓	✗	✓	Optional
TGR85-ZB-WPB	✓	✗	✗	✓	✓	✗

BEOK Zigbee Thermostat

Model No.
TDR89-ZB

86x86x14mm. Touch keys. 2 colors optional.
White: white backlight; Black: negative display.

Work with Tuya apps  | iOS & Android

 Support smart speakers   



TDR89W-ZB



TDR89B-ZB



Technical Data

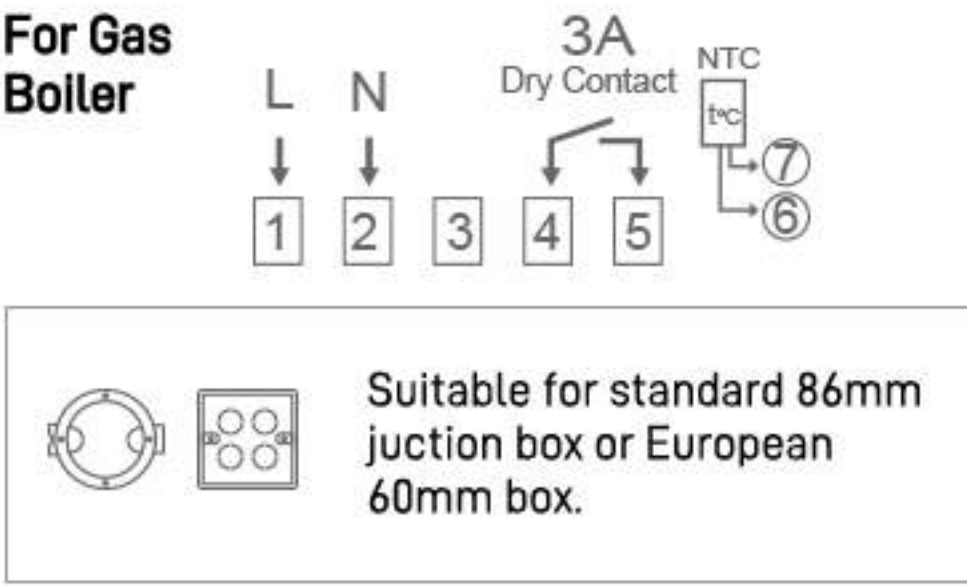
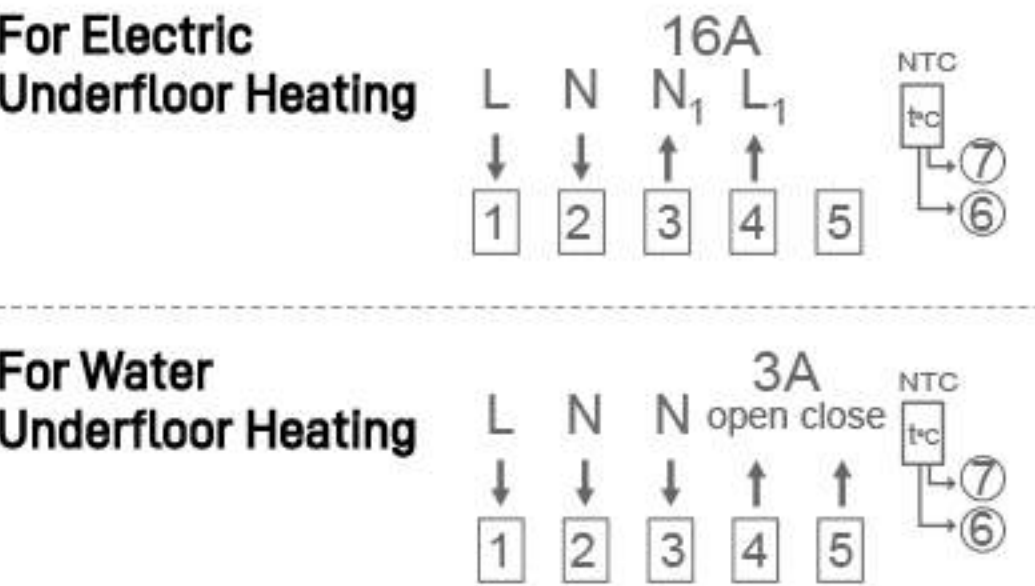
Power supply
AC100~240V; 50/60Hz

Load current
Water heater 3A
Electric heater 16A
Gas boiler 3A

Set temp. range
5~95°C (default 60°C)

External floor sensor
Only the electric heating model comes with

Wiring Diagram



Selection Table

Model	Power Supply AC 100~240V	Application			Remote Control Zigbee	Additional External Sensor
		Electric Heating(16A)	Water Heating(3A)	Gas Boiler		
TDR89W-ZB-EP	✓	✓	✗	✗	✓	✓
TDR89W-ZB-WP	✓	✗	✓	✗	✓	Optional
TDR89W-ZB-WPB	✓	✗	✗	✓	✓	✗
TDR89B-ZB-EP	✓	✓	✗	✗	✓	✓
TDR89B-ZB-WP	✓	✗	✓	✗	✓	Optional
TDR89B-ZB-WPB	✓	✗	✗	✓	✓	✗

BEOK Zigbee Thermostat



Technical Data

Power supply
5V/1A

Interface
Micro-USB

Frequency
Zigbee 2.400~2.480GHz
Wi-Fi 2.400~2.4835GHz

LED
Red and blue

Maximum radiated power (Zigbee)
10dBm

Maximum radiated power (Zigbee)
20dBm

Working temperature
-10~40°C

Working enviroment
Indoor

Zigbee technology

Zigbee technology is a wireless communication technology applied to short distances and low rates, and is mainly used for data transmission between various electronic devices over short distances, with low power consumption and low transmission rates, as well as typical applications with periodic data, intermittent data, and low reaction time data transmission.



Model No.
WLN-03-X

86x86x18mm
Zigbee gateway hub

Work with Tuya apps  | iOS & Android





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