Week-programme handwheel thermostat with color LCD screen



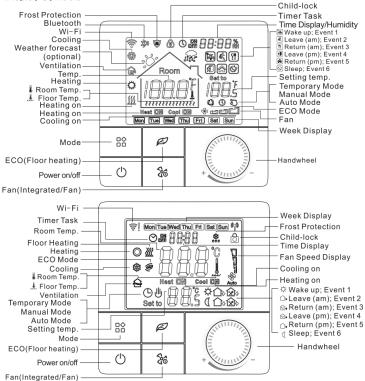
Version:TR8B 1.4(12/2021)

Product Overview

This series of thermostat has Floor Heating, Fan Coil, and Integrated version, meeting the requirements under different scenarios.

Version	System mode	Model	Application
Floor		EP	Built-in & floor sensor, floor limit sensor + Weekly programming
heating	Floor heating	WP	A NC/NO dual-output + Weekly programming
lioung		WPB	A NC/NO dual-output + Weekly programming+ Potential-free output
		AC2	Timer task + 2-pipe system
Fan Coil	Heating /Cooling / Ventilation	AC2-485	Timer task + 2-pipe system + 485Modbus (optional) + Potential-free output + Room card (optional)
		AC4	Timer task + 4-pipe system + 485Modbus (optional) + Potential-free output + Room card (optional)
Integrated	Heating / Cooling / Ventilation/Floor heating / Floor heating + Heating	AWY	Floor heating & fan coil, weekly programming + Potential-free output + Timer task + 485Modbus (optional) + Room card (optional)

Display Symbols



Temperature Control Mode(Floor Heating/Integrated)

⊘ Auto Mode

Weekly-circled programme, up to 6 heating events can be set per day. Heating events, workdays and temperature can be separately customized based on personal routines.

U Manual Mode

Thermostat works based on manually-set temperature, disconnecting from auto mode.

⊘ Temporary Mode

Thermostat works based on manually-set temperature temporarily and then shifts back to auto mode till next event.

- ✓ Color VA screen (vertical alignment technology) -greater sense of science and technology.
- ✓ Set temperature can be specified precisely and intuitive (by 0.5°C) via handwheel.
- ✓ Can be individually tailored to personal routines- -up to 6 heating events can be set separately.
- ✓ 485 modbus and room card linkage customized equipment (optional)

Parameter

Supply voltage	AC100~240V; 50/60Hz
Power consumption	1W Max (Wi-Fi 3W Max)
Temp. setting range	5~95°C (41~99°F)
Floor limited range	5~47°C (41~99°F)
Temp. Dif.	0.5~10°C (1~10°F), Factory setting \pm 1°C
Ambient temperature	-5~50°C (23~122°F)
Protection level	IP20
Shell material	Anti-Flammable PC

User Operation

obor operation	
Power on/off :	Press "①" shortly to turn on/off the thermostat.
Auto-mode :	Press "B" for 3 seconds to edit auto-mode settings. (Floor Heating/Integrated)
Timer task:	Press "☆" for 3 seconds to edit timer task. (Integrated)
Time setting:	Press "%" for 3 seconds to set time. (Floor Heating)
	Press "%" twice for 3 seconds to set time. (Automatic time synch for Wi-Fi version)
Temp setting:	Rotate handwheel" ^O "to change settingtemperature by 0.5°C.
Child-lock:	Press " " " for 3 seconds to activate child-lock.
System mode:	Press "B" shortly to switch cooling/heating/ventilation/floor heating/floor
	heating + heating. (Integrated)
Temp control mode:	Press "B" shortly to switch manual/auto mode. (Floor heating)
	Press "&" shortly to switch manual/auto mode. (Integrated, floor heating)
Fan speed setting:	Press "%" shortly to adjust fan speed.(Integrated)
ECO mode:	Press " shortly to set to ECO mode 18°C(64°F). (Floor heating)
Advanced Setting	(Usually for Professional Technicians)

Under power-off, press "B" for 3 seconds to enter advanced setting mode, then re-press "B" to switch to next mode. Press "U" to save and exit advanced setting mode.

00 Postal address (optional) Adjustment range 0x00~0xFA 00 √ √ √ 01 Temp. calibration -9, 9~9, 9°C (-9~9°F) -3°C √ √ √ 01 Temp. Dif. 0.5~10°C (1~10°F) ±1°C √ √ √ 03 Temp. Upper limit 5~95°C (41~99°F) 50°C √ √ √ 04 Temp. lower limit 5~47°C (41~99°F) 5°C √ √ √ 05 Frost protection OFF: frost protection on OFF √ √ √ 06 Temperature unit °C/°F °C √ √ √ 07 Sensor selection IN: Controlled by built-in sensor OUT: Limited by floor sensor IN √ × × 08 Floor limited temp. 20~90°C (68~99°F) 35°C √ × × 09 Weekly programming 1234567: 7/0 week mode	00 01 02 03	Meaning			setting			
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Auto-mode Setting (Floor Heating/Integrated)

Press " 😭 " for 3 seconds to edit auto-mode setting.

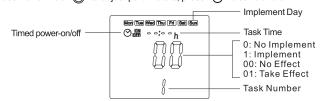
			Time		Temperature		
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	2	<u>ا</u> ن	22:00	ë	15°C (59°F)	ë	

Sensor failure

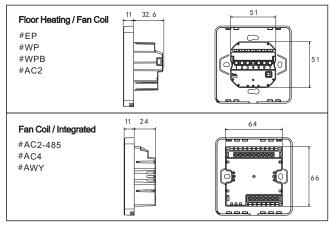
Please select work mode of sensors correctly. When it shows E0/E1 error, thermostat will stay power-off till the error is eliminated.E0: built-in sensor is short-circuited or disconnected. E1: floor sensor is short-circuited or disconnected.

Timer Task Setting (Fan Coil / Integrated)

Press "‰" for 3 seconds to enter timer task setting; press "₩" to change settings; press Handwheel "○" to adjust parameters; press " ()" to save and exit.

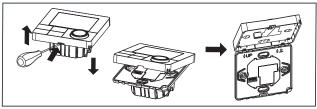


Dimensions (Unit: mm)

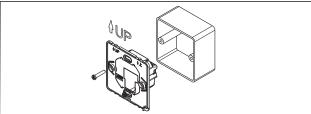


Mounting Steps

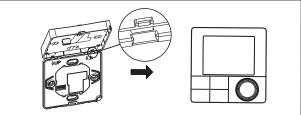
The thermostat adopt pre-guide and limited snap-fit design. It is easy to mount. 1) Release front cover by inserting a head screw-driver into bottom crack.



- 2) Insert the wires and then fix these wires with screws. Suggested wire-stripping length is 7-9mm.
- Mount backing plate into wall-cassette, put screws and then fix thermostat. Make sure that the thermostat is fixed without deformation. Suggested torque is 0.2~0.4N.m (2.0~4. 1kgf.cm).



4) Re-mount the front cover via snap-fit connection.



Connecting Diagram

The thermostat operates in full capacity in areas with the altitude of less than 2500 above sea level. Power rating of external load should be less than or equal to 80% rated power of the thermostat in areas with altitude of 2500m to 4200m.

