

# Digital Smart Heating Thermostat

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This is a programmable smart room thermostat. It works by sensing the air temperature, switching on the heating when the air temperature falls below the thermostat setting, and switching it off once this set temperature has been reached. With built-in WiFi Module, it allows users to remote control thermostat anytime anywhere.



## Functions

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- Remote WIFI control
- White LED display
- Adjustable heat mode, cold mode control
- Manual mode and programmable mode
- Room or SET temperature display
- Open window detection
- Child lock function
- CE, RoHs

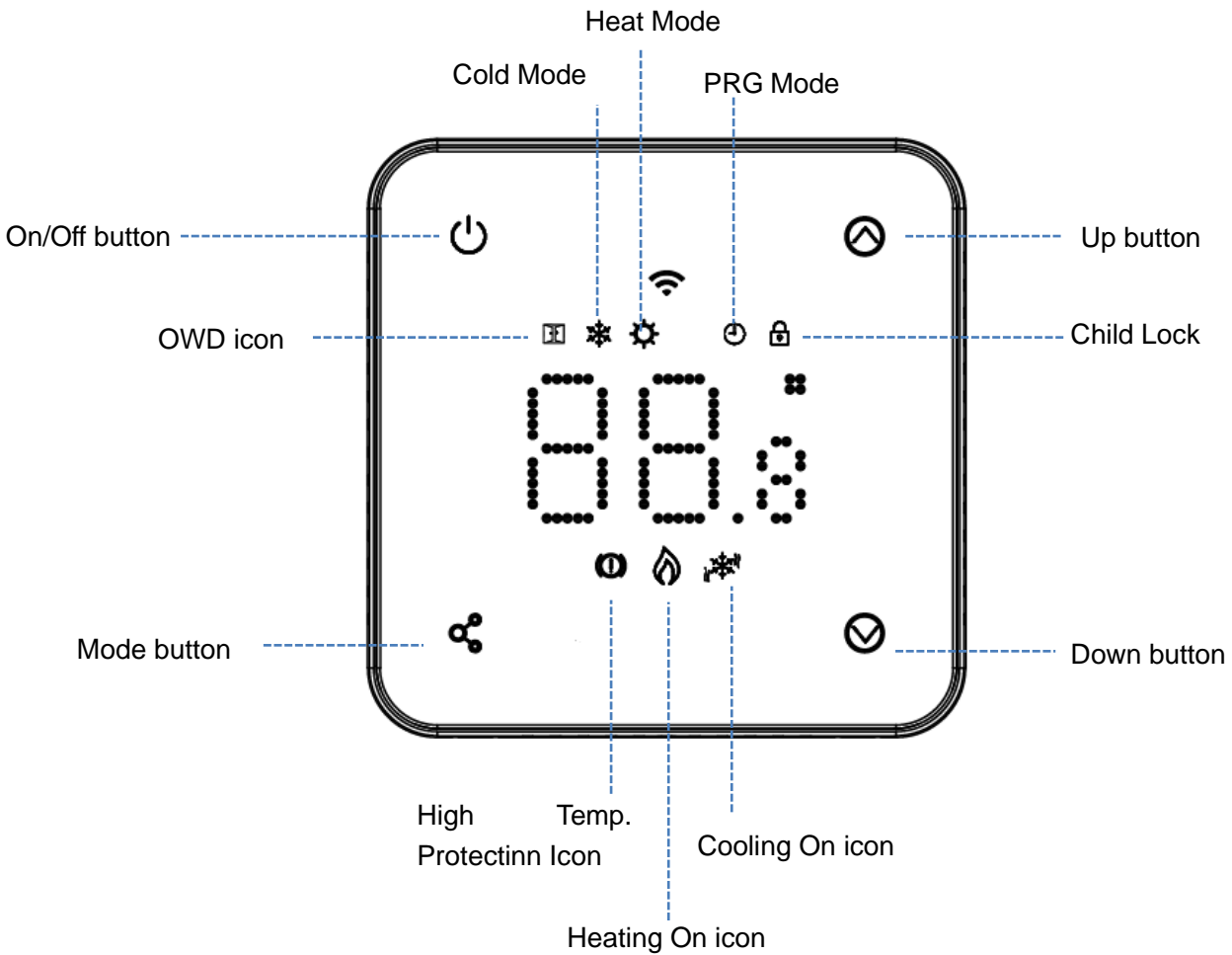
## Technical Data

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Power Supply	230V, 50/60Hz	Backlight	White
Max Load	3A	Sensor	$\beta = 3950 R_{25^{\circ}\text{C}} = 10\text{K}\Omega$
Set Point Range	5~35°C	Accuracy	$\pm 0.5^{\circ}\text{C}$ (step control by +0.5°C)
Ambient	0~50°C	Protection Class	IP30
Relative Humidity	85%	Housing	- ABS to UL94-5 fire retardant plastic

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## Display & Buttons






## WIFI Connection

Please download "Smart life" APP from Google play or app store. Once download, the app will ask you to register your device. Enter your email, select the country you live in and create a password for your Smart life account.



You can connect to app by Bluetooth scan or wifi connection, Bluetooth is more recommended.

### Bluetooth Connection Method:




- 1) Enable Bluetooth function on your phone
- 2) Add device by press "+" button at top right corner
- 3) Long press  button to enter wifi connection mode, then press  button , the wifi icon  will flash.

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- 4) App is searching for nearby Bluetooth device. Press “ Add “
- 5) Choose Wi-Fi and enter password
- 6) Wait till device add successfully



### Wi-Fi Connection Method:




- 1) Add device by press”+” button at top right corner
- 2) Press “Small Home Applicant” and select “Thermostat (BLE+Wi-Fi)” on the list.
- 3) Select 2.4Ghz Wi-Fi Network and enter password, and press “Next”.
- 4) Long press  button to enter wifi connection mode, then press  button , the wifi icon  will flash.
- 5) Press “Next” on app, tick “Blink Quickly” on phone to add device.
- 6) Wait a moment till connection done. The LED on receiver will stop flashing. Wifi connection success.  
If the LED still flash slowly, the connection fail, please try again from step. 5.

**Notes: If device is connected and keeps online, when you want to create new connection, please remove device from app or clear all pairing on receiver.**

### Model Select

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Short press  button to choose Manual mode (no icon) and PRG mode .

Long press  button to choose Heat mode  and Cold Mode .

### Weekly Programmable Setting ( change from APP only)




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Default Setting:

Period	1		2		3		4	
	Time	Temp.	Time	Temp	Time	Temp	Time	Temp
1 (Mon.)	7:00	22°C	8:30	19°C	17:00	22°C	22:00	19°C
6(Sat.)	8:00	22°C	8:30	22°C	17:00	22°C	23:00	19°C
7(Sun.)	8:00	22°C	8:30	22°C	17:00	22°C	23:00	19°C

### Feature Table

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Turn thermostat off, press and hold  and  for 5s to enter parameter setting. Each press of  button will go to next item setting.

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Feature	Description	Range	Default Value
01	Air Sensor Temp. Offset	-8 °C ~8 °C	0
02	Set Point Max.	5 °C ~35°C	35 °C
03	Set Point Min.	5 °C ~35°C	5 °C
04	Sensor Select	0: Air	0
		1: Floor	
		2: Air & Floor	
05	Frost Protection Temp.	ON: 5 °C ~15°C OFF: --	5 °C
06	External Sensor Temp. Offset	-8 °C ~8 °C	0
07	Floor Temp. Display	Read Only	
08	Floor Temp(Overheat) Limit	20 °C ~80 °C	32 °C
09	Switching Differential	0 °C ~3°C	0 °C
11	Child Lock	0: Unlock 1: Lock	0
12	OWD function	OFF ON	OFF
13	OWD Detect Time	2~30mins	15mins
14	OWD Drop temp. select ( within detect time )	2-4°C	2 °C
15	OWD Mode Exit time select. (Return to previous working status)	10~60min	30mins
17	Reset	Choose 1, then long press on/off button till restart	
18	LED backlight Max. brightness level adjustment during operation	1~8	8
19	LED backlight min. brightness level adjustment during standby mode	0~8	0
20	Software No.		

Notes: Feature 06, 07,08 will display only when feature 04 select both air and floor sensor.

### Optional Feature Explained

**Feature 01**– This feature used to calibrate the air sensor temperature when need.

**Feature 02/03**– Temperature Max.& Min. Limit: This function allows you to limit the use of the up and down temperature arrow keys.

**Feature 04**– Sensor Selection: On this thermostat, you can select which sensor should be used. You can select between air temperature only, floor temperature, or both(default). When you enable both sensors, the floor sensor is used as a floor limiting sensor and is designed to prevent the floor from overheating.


**Feature 05** - Frost Protect Temperature: This is the temperature maintained when the thermostat is in Frost

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Mode. When room temperature detected below setpoint ( default 5°C), thermostat will turn on heating.

**Feature 06**– This feature used to calibrate the floor sensor temperature when need.


**Feature 07**– When feature 04 select to used both air sensor & floor sensor, here you can read the floor temperature.

**Feature 08** – Floor Temp(Overheat) Limit: This function is available when feature 04 is set to 02. You can set a floor limiting temperature between 10-35°C (32°C is the default setting). When thermostat in Overheat mode, the screen will show icon“”, only when floor temperature lower overheat setpoint 4 °C, thermostat will exist overhead mode, and resume to previous working mode.

**Feature 09** - Switching Differential: This function allows you to increase the switching differential of the thermostat. The default is 0°C which means that with a set temperature of 20°C, the thermostat will switch the heating on at 19.5°C and off at 20.5°C. With a 0.5°C differential, the heating will switch on at 19°C and off at 21°C.

**Feature 11**– This feature used to enable/disable child lock function. When enable child lock, you can press  and  button at the same time to unlock screen for temporarily operation.



**Feature 12**-This function allows you to save energy. When enable Open Window Detection function, the system will automatically stop heating when it detects a sudden drop of room temperature (2°C in 15 minutes as default). This is normally caused when a window or door is opened without turning off the heating device.

The device will return to the previous mode of operation after 30mins, then icon  disappear. Press any button will exit OWD function during the heating off period.

**Feature 13**-The setting time to detect the drop of room temperature between 2-15mins (15 mins is the default setting).

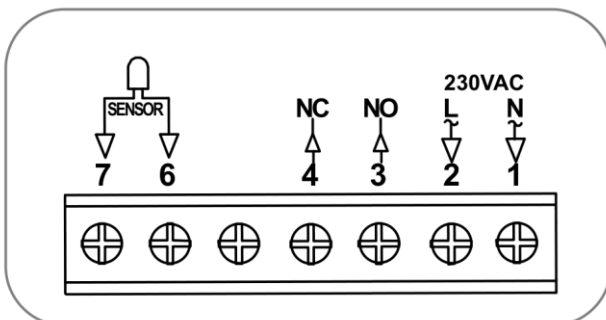
**Feature 14**-The drop temperature to during detect period. Setting between 2-4°C (2°C is the default setting).

**Feature 15**-The time to exit OWD mode select. Setting between 10~60min(30min is the default setting).

**Feature 17**- There are two methods to factory reset. Can be long press  and  button for 5 seconds to restart, or go to feature 17, press button 1 then long press on/off button till restart.

## Wiring Diagram

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# Digital Smart Heating Thermostat

## Installation Procedure



### DO

Mount the thermostat at eye level.  
Read the instructions fully so you get the best from our product.



### DON'T

Do not install near to a direct heat source as this will affect functionality.  
Do not push hard on the LCD screen as this may cause irreparable damage.

**The thermostat is designed to be flush mounted and requires a back box of 35mm (minimum depth) to be sunk into the wall prior to installation.**

#### Step 1

Using a small screwdriver, slightly loosen the screw from the bottom face of the thermostat. Then carefully separate the front half from the back plate.

#### Step 2

Place the thermostat front somewhere safe.

#### Step 3

Terminate the thermostat as shown in the diagram

#### Step 4

Screw the thermostat back plate securely into the back box.

#### Step 5

Clip the front of the thermostat onto the back plate

