

**DD-08**

**Wireless Thermostat  
USER'S Manual**

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# Application

Remote control within 100 m, can be flexible to control indoor temperature;  
Multi-mode control: can be one-to-one control or one-to-many control to achieve different room temperature control; Anti-disturb: After removing strong interference signals, all functions recover automatically.

# Specifications

Supply Voltage: two AAA for thermostat ; 220V $\pm$ 10%, 50/60Hz for receiver

Wireless transceiver frequency : 868MHZ(FSK)

Wireless system transmission distance: within 100 meters without obstacles

Displayed Temperature Range: 5 $^{\circ}$ C $\sim$ 45 $^{\circ}$ C/41 $^{\circ}$ F $\sim$ 113 $^{\circ}$ F

Temperature Accuracy: 0.5 $^{\circ}$ C/1 $^{\circ}$ F

Operating Temperature: 0 $^{\circ}$ C $\sim$ +50 $^{\circ}$ C(32 $^{\circ}$ F $\sim$ 122 $^{\circ}$ F)

# Function Keys and Displays Description

## Keys Description (Fig.1)

- ① Increase: raises temperature setting
- ② Mode Changeover: selects auto, manu or energy savings, and time
- ③ Decrease: lowers temperature setting
- ④ Query/copy
- ⑤ Set/confirm
- ⑥ Support on desk plate

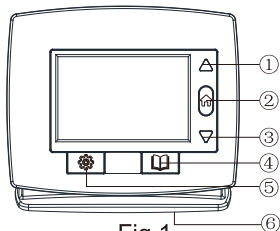


Fig.1

## Displaying Description(Fig.2)

- ① Display day of the week
- ② Cool
- ③ Heat
- ④ Auto mode
- ⑤ Manual mode
- ⑥ Energy savings mode
- ⑦ Fan speed(low, mid, high)
- ⑧ Serial number of time period
- ⑨ Set current day/time
- ⑩ Wireless signal
- ⑪ Wifi signal
- ⑫ Battery level display
- ⑬ Fahrenheit temperature display (°F)
- ⑭ Celsius Temperature display (°C)
- ⑮ Room mode display
- ⑯ Set
- ⑰ Temperature display
- ⑱ Natural wind display

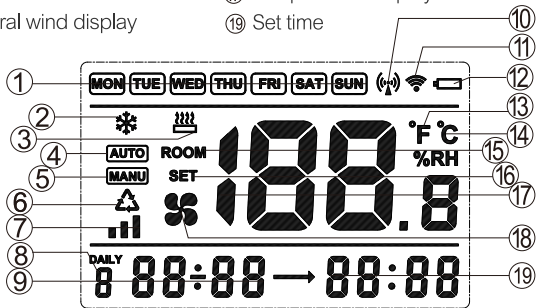


Fig.2

# Function and Feature

## 1. Mode

- ① DAY Mode: It's a one-day preprogrammed schedule mode. your thermostat is programmable for each day, and the occupied time period you want during one day can be set. The maximum number of occupied time periods is 6. The start time and stop time of every occupied time period can be modified, and the stop time of the last period is the start time of the next period by default.
- ② Week Mode: It's a 7-day preprogrammed schedule mode. Your thermostat is 7-day programmable from Monday through Sunday. The stop time of the last day is the start time of the next week period by default.
- ③ Output Mode: in output mode, the defrosting temperature can be controlled, and you can set temperature.

## 2. Time and Temperature Displaying

- ① System Time Setting: select the desired year, month, day, hour, minute, a day of the week.

- ② Temperature Display: Temperature can be displayed in degrees Fahrenheit (°F) or Celsius(°C). when the power supply is switched on, the displayed temperature value is zero, and the first sampled temperature value can be displayed after the power supply is switched on for 10 seconds. In idle, The room temperature is displayed and refresh once every 20 seconds. (in idle, no operation on your thermostat before normal displaying, otherwise, abnormal displaying occurs.)

### 3. Temperature Setting

The range of temperature set: 5°C~45°C(41°F~113°F); the displayed value to one decimal place; the first displayed temperature is 21°C by default. Pressing "▲" or "▼" key increase or decrease in 0.5°C increment once.






### 4. Battery Level Display

- ① Low-voltage warning can be shown on the LED display if the battery level is lower than 2.4V.
- ② In case the battery level is lower than 2V, the thermostat will stop running and only the low-voltage warning is shown on the LED display.

5. Anti-disturbance: When strong interference signal is removed, all the functions will automatically recover.
6. Self Test: when sensors experience failures, the device will be automatically detected by itself, and then the LED display will show all the contents of 7-segment display .
7. Power-down data protection: in the event of an unexpected power interruption, the last settings will be saved in the device. After re-power on, all the stored data will automatically recovered.
8. Language Displayed: English
9. Query: you can check the settings for all the time periods from Monday through Sunday.
10. Setting copy: if the settings for one day is same as for another day. The present settings can be copied to another day without repeating setting.



# Key Function Description:

1. Increase data key “▲” : pressing increase “▼” key continuously, temperature time value fast raises to the desired set point.
2. Changeover MODE key: Press the key “MODE” and hold for several seconds to set the current date and clock.
  - (1) Pressing and holding the key "  ", a day of week will be shown. Press the key “▲” or “▼” to select the desired day of the week, and then press the key "  " to set. With the same method, you can select the year/month/date/hour/minute you want, at last press the key "  " to set and save the data settings.
  - (2) Press mode changeover "  " key until the desired mode, **AUTO**, or **MANU**, or , displays.
3. Decrease data key “▼” : pressing decrease key “▼” continuously, temperature time value fast drops to the desired set point.







## Auto Mode Settings

	Time Period	Start time ~ Stop time	Operating
Daylight	1 <sup>st</sup> period	6:00-18:00	Press the Mode Changeover key "⚙️" to enter to set data for the 1 <sup>st</sup> time period. Press the key "▲" or "▼" until the desired temperature displays and then press the Set key "⚙️" to enter to set data for the 2 <sup>nd</sup> time period with the same step as the 1st time period, and at last press the Set key "⚙️" to save the set data.
Night	2 <sup>nd</sup> period	18:00-6:00	



## Manual Mode Settings

In MANU mode, your thermostat is 7-day programmable. Your thermostat automatically runs and controls the device up to the desired temperatures during every time period based on the preprogrammed schedule in a circle of a week. 7-day programming means to set time periods and temperatures during each time period for each day from Monday through Sunday.

1. In "**MANU**" mode
2. Press the key "  " to set (Fig.1)
3. The 7-segment LCD display flashing (Fig.2)
4. Press the key "  " or "  " to select the desired day of the week (Fig.2)
5. Press the key "  " to save the setting (Fig.1)

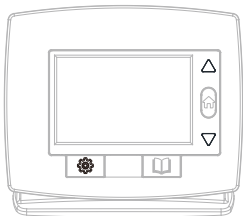


Fig.1

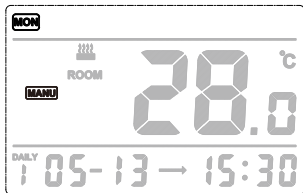


Fig.2

6. The DAILY display flashing (Fig.2)
7. Press the key "▲" or "▼" to select the desired DAILY 1-6 (Fig.2)
8. Press the key "⚙️" to save the setting (Fig.1)
9. The desired hours of the time period 1 display flashing (Fig.3)
10. Press the key "▲" or "▼" to select the desired hours (Fig.3)
11. Press the key "⚙️" to save the setting (Fig.1)



Fig.1

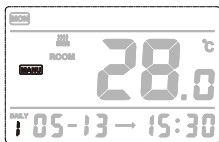


Fig.2



Fig.3

12. The desired minute of the time period 1 display flashing (Fig.2)
13. Press the key “▲” or “▼” to select the desired minute (Fig.2)
14. Press the key “⚙️” to save the setting (Fig.1)

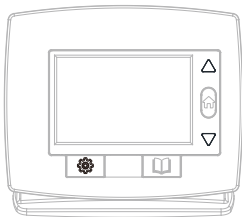


Fig.1



Fig.2

15. The desired temperature display flashing (Fig.2)
16. Press the key “▲” or “▼” to select the desired temperature (Fig.2)
17. Press the key “⚙️” to save the setting (Fig.1)

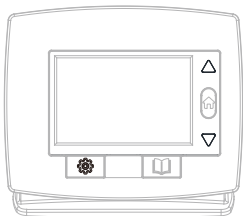


Fig.1

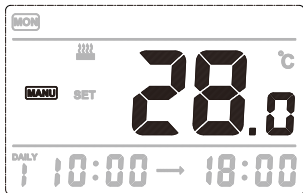


Fig.2






At the last time to press the key “⚙️”, the daily schedule ( one day of a 7-day schedule ) is now programmed and all the setting datas can be stored as well as the thermostat return to normal operation



Repeat the above steps for the occupied time period 1 through 6 for any day of the week .

## Energy-saving Mode setting

In energy saving mode, only one desired temperature can be set without time period setting..

1. In "  "mode
2. Press the key "  " to set (Fig.1)
3. The temperature display flashing (Fig.2)
4. Press the key "  " or "  " to select the desired temperature of the week (Fig.2)
5. Press the key "  " to save the setting (Fig.1)

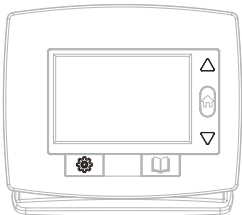


Fig.1

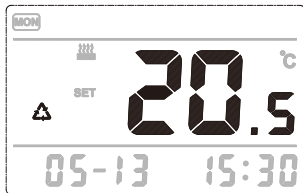


Fig.2

4. Pressing and hold the key "Query/copy", can achieve Temperature Correction Factor.

(1) 7-day Program Copy

This copying function is to copy the programmed time periods and temperature points for any designated day to any another day.

1. In " **MANU** " mode

2. Press the key "  " to set (Fig.1)

3. Press the key "  " or "  " to select the desired day of the week (Fig.2)

4. Press the key "  " to copy (Fig.1)

5. Press the key "  " or "  " to select the desired day of the week (Fig.3)


6. Press the key "  " to save the setting (Fig.1)



Fig.1

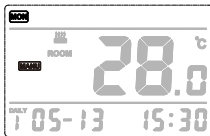


Fig.2

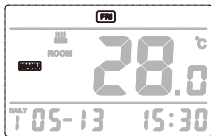



Fig.3



## (2) QUERY Function

Press the "  "key in MANU mode to enter the **MANU** mode, you can check the temperature set point for the any programmed day.





1. In "**MANU**" mode
2. Press the key "  " to query (Fig.1)
3. Press the key "▲" or "▼" to select the desired day of the week (Fig.2)
4. Press the key "  ", the temperature set point of the occupied time period 1 will be displayed (Fig.3)
5. Press "  " every time, display in turn the temperature setting values of the occupied time period from 2 to 6.
6. Press the key "  " again to quit "MANU" mode



Fig.1




Fig.2



Fig.3

## 5. Set "SET" key

Pressing "  " key for 3 second can switch between temperature unit in degrees Fahrenheit and Celsius

## Temporary temperature setting

You can override the current schedule period to temporarily change the temperature setting for an occupied time period by pressing "▲" or "▼" key in normal mode. If no any operation during 5 seconds after the temporary setting, the temporary temperature setting will be in effect.

## Constant Temperature Control

If the detected temperature is lower  $0.5^{\circ}\text{C}$  than the set temperature, the signal to start heating will be sent once every 5 minutes. If the detected temperature is higher  $0.5^{\circ}\text{C}$  than the set temperature, the signal to stop heating will be sent once every 5 minutes.

# Processes for setting the local address and the server address as follows:

1. In " normal "mode
2. Press the key "▲" for 3 seconds (Fig.1)
3. The month display flashing ( Fig.2)
4. Press the key "▲" or "▼" to select the desired number between 01-99 to set sever address ( Fig.2)
5. Press the key " ⚙️ " to save the setting (Fig.1)

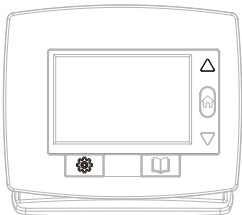


Fig.1



Fig.2

6. The date display flashing (Fig.3)
7. Press the key "▲" or "▼" to select the desired number between 01-99 to set sever address (Fig.2)
9. Press the key "⚙️" to completing so that the setting is stored (Fig.1)

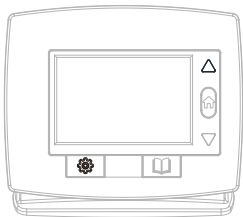


Fig.1

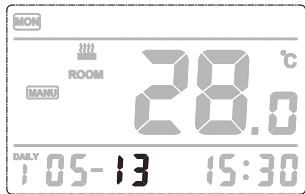


Fig.3

# Indicator and button of actuator description

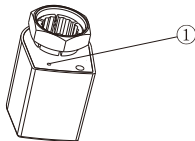
## Keys Description (Fig.1)

### ① Button

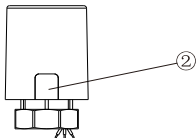
Press the “BUTTON” key for 3 second, and then the indicator light on, your receiver can enter into matching identification codes mode; Press the “BUTTON” key for 3 second, and then the indicator is off, your receiver can exit out of the matching identification codes.

### ② Operation indicator light

In “ normal ”mode, heating or un-heating status, the indicator light on or off, data packet is received, the light flashes, 0.5 second interval.



underside



frontside

# Identification Code Match Function Configuration

The receiver can run normally the first time only after being matched identification code with your thermostat.

connected with power supply, the actuator with the system self-test function will self test. If the indicator don't blink during self testing, Self-test will continued until the indicator blinks 3 times, and then your receiver can run normally.

# Identification Code Match Process Flow Diagram

1. Turn power toggle switch to ON, and also successfully passes the self test (Fig.1)
2. With tool ,press key “ Fig.1 ” for 3 seconds, and then enters match identification code mode.
3. The red indicator lights on, the thermostat enters into normal mode (Fig.2)
4. Press the key “▼” for 3 seconds, and then enters match identification code mode (Fig.3)



Fig.1

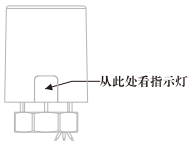


Fig.2



Fig.3

5. The thermostat transmits data once every 3 seconds, and then the antenna's icon flashes in wireless test mode (Fig.1)
6. With tool , press key “ Fig.2 ” for 3 seconds to exit identification code match (Fig.2)
7. Press the key “▼” for 3 seconds of the thermostat for 3 seconds to exit identification code match (Fig.3)

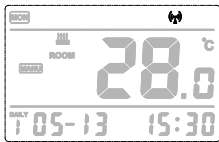


Fig.1

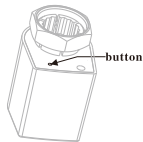


Fig.2

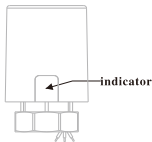


Fig.3



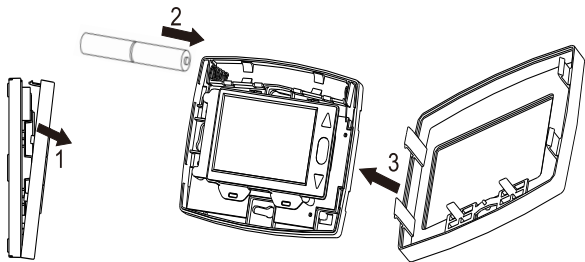
Fig.4



# Installation

## (1) Replacing Batteries

See Fig.1. Remove the upper cover; Insert two AAA alkaline batteries as shown in Fig.2; Install the upper cover as shown in Fig.3.



## (2) Intallation on Desk Plate

Insert hook of support into hole on the back of thermostat as shown in Fig.(1)  
Move support right until the sound of sticking support is heard, it means installation is completed Fig.(2).

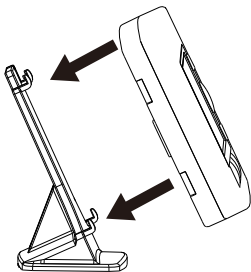


Fig.1

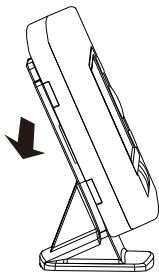


Fig.2

# Electrical actuator Specification

U	24VAC
T	<4.5min
H	4.0mm, 5.0mm
F	90~125N
P	3W
I MAX	250mA
Installation	M30X1.5

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