USER MANUAL

ET-43 English V1.5

INTRODUCTION

ET-43 thermostat is a high-quality thermostat with minimalist design. It is designed to accurately control the floor temperature, with a maximum load of 3600W/16A. The biggest feature is that it is compatible with Schneider Unica series, Legrand Valena series and many frames with an inner size of 56*56mm, such as Schneider Exxact.
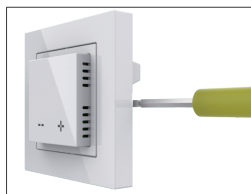
NOTE：**For the first use, you need to enter advanced Settings to set the load power (Ref.function and operation code: 08).**
0：**2900~3600W   1**：**1800~2900W   2**：**0~1800W**

TECHNICAL PARAMETERS
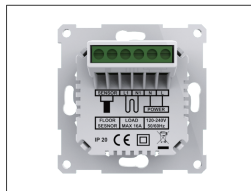
Voltage: 120~240Vac 50/60Hz
Max Load: 16A（Resistive load）
Wiring specification: ≤2.5mm²
Standby power: < 1W
IP Class: IP21
Floor temperature limit protection: 30℃
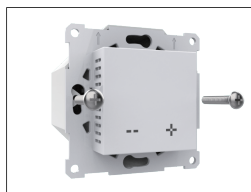
INSTALLATION

Step 1: Use a flat-blade screwdriver to separate the frame and adapter from the thermostat as shown in the figure.

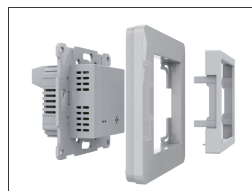**Step 2**: Connect the corresponding circuit as shown in the figure.

Step 3: Use the mounting screws to fix the thermostat in the mounting box.

Step 4: Install the frame and adapter into the thermostat.

If you use a frame with an inner dimension of 56*56mm, such as Schneider Exxact, install the frame and the adapter into the thermostat as shown in the figure below.

If using Schneider Unica series frame, Install the frame and adapter into the thermostat as shown in the figure below.
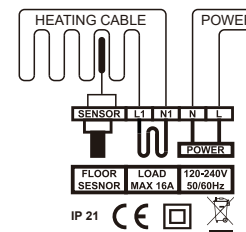

If using Legrand Valena series frame, Install the frame and adapter into the thermostat as shown in the figure below.
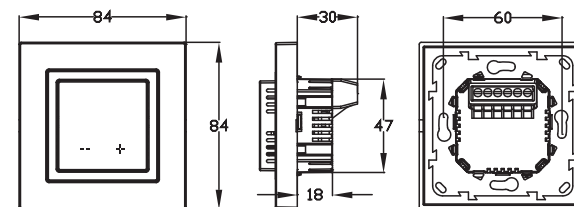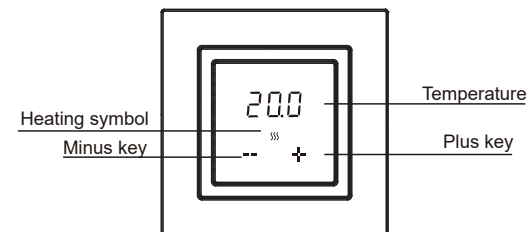

WIRING INSTRUCTION

L/N: Connect for power cable.
L1/N1: Connect for heating cable.
Sensor：Connect for floor sensor.
Suggestion: Please keep the max load around 90% of 16A to prolong the lifetime.

DIMENSION(MM)

SYMBOLS

FUNCTION AND OPERATION

1.On/Off

This thermostat can switch on and off.

Setting method:

A. Turn on

After the thermostat is awakened, press and hold the + button for 3 seconds to turn it on.

B.Turn off

After the thermostat is awakened, when the floor temperature is displayed, press and hold the + button for 3 seconds to shut down.

When the anti-freeze protection function is turned on, the thermostat will maintain the floor temperature at 5°C in the shutdown state.

2. Set the temperature

After the user sets the temperature, the thermostat keeps the floor temperature at the set temperature. After power off, power on again, the original set temperature will be retained and executed. Setting range of this thermostat: 5-40°C.

Setting method:

After the thermostat is awakened, press the +/- key to change the set temperature.

After setting, wait for 5 seconds, then return to display the floor temperature.

3. Key lock

After the user sets the temperature, if children or the elderly do not want to operate the thermostat by mistake, you can set a key lock for the thermostat. After power off, power on again, the key lock still exists and continue to execute.

Setting method:

After the thermostat is awakened, long press the - button for 3 seconds, the interface flashes LoC, that is, the setting is successful. After the thermostat is awakened, press the - button for 3 seconds, the interface displays the floor temperature, and the key lock is cancelled.

4. Advanced Settings

In order to fit more applications, this thermostat provides a number of special functions.

The function list is as follows:

No.	Name	Default	Range
01	Floor Temperature Calibration	0.0	-5.0°C -- 5.0°C
02	Room Temperature Calibration	0.0	-5.0°C -- 5.0°C
03	Sensor Application	1	0:Room 1:Floor 2:Both
04	Anti-frozen Function	OFF	ON/OFF
05	Floor Sensor Type	0	0: 3950 10K // 1: 3700 10K 2: 3600 12K // 3: 3380 10K 4: 15K
06	Standby Brightness	1	0/1/2/3/4/5/6/7/8
07	Open Windows	OFF	ON/OFF
08	Load power selection	1	0:2900W-3600W 1:1800W-2900W 2:0W-1800W
09	Reset	NO	NO/YES

Function explanation:

01/02. Floor/Room Temperature Calibration

This function allows the user to correct the floor/room sensor error. Example: In the same environment, the actual temperature is 20°C, and the thermostat displays 21°C. Then set this parameter to -1.0°C.

Setting method:

a. Write down the actual temperature minus the temperature difference displayed by the thermostat.

b. After the thermostat is awakened, press and hold the - and + keys at the same time for 3 seconds, and the interface displays 01.

c. Press - to set the difference value.

d. Press + key one time to 02.The room temperature is calibrated in the same way.

03. Sensor Application

Used to select the sensor to work.

Setting method:

a. After the thermostat wakes up, hold down the - and + keys for 3 seconds. 01 is displayed.

b. Press the + key until the 03 screen is displayed.

c. Press the - key to select Sensor Application.

d. Press the + key until the temperature screen is displayed.

04. Anti-frozen Function

This function is suitable for cold seasons. When the user forgets to turn on the thermostat, it can avoid freezing the plants due to the low room temperature. After turning on this function, the floor temperature is maintained at 5°C when the thermostat is off.

Setting method:

a. After the thermostat is awakened, press and hold the - and + keys at the for 3 seconds, and the interface displays 01.

b. Press + key until the 04 screen is displayed.

c. Press - key to select ON or OFF.

d. Press + key until the temperature screen is displayed.

05. Sensor Type

This function is used to replace the old temperature controller. When the parameters of the old floor sensor are similar to the parameters of a certain model shown in the table below, there is no need to replace the floor sensor. Just select the right floor sensor model .

Setting method:

a. After the thermostat is awakened, press and hold the - and + keys at the same time for 3 seconds, and the interface displays 01.

b. Press the + key until the 05 screen is displayed.

c. Press - key to select the model sensor.

d. Press the + key until the temperature screen is displayed.

Tempe-rature	The resistance value of the floor sensor at the corresponding temperature point (Ω)				
	0:3950 10k	1:3700 10K	2:3600 12K	3:3380 10K	4: 15K
0°C	32800	30286	34423	26050	41900
10°C	19733	19055	22217	17630	27281
20°C	12419	12320	14660	12040	18205
30°C	7905	8165	9869	8331	12427

06. Standby brightness

In order to meet the brightness requirements of different applications, this thermostat provides a standby brightness adjustment function. If the thermostat is installed in the bedroom, in order to avoid the brightness produced by the thermostat at night from affecting sleep, the brightness can be adjusted to 0 (completely off) or 1 (minimum brightness).

Setting method:

a. After the thermostat is awakened, press and hold the - and + keys at the same time for 3 seconds, and the interface displays 01.

b. Press + key until the 06 screen is displayed.

c. Press - key to select brightness.

d. Press the + key until the temperature screen is displayed.

07. Open Windows

The thermostat detects a drop in temperature caused by opening a window.Turn off the heat temporarily to save energy.

Setting method:

a. After the thermostat is awakened, press and hold the - and + keys at the same time for 3 seconds, and the interface displays 01.

b. Press + key until the 07 screen is displayed.

c. Press - key to select OFF or ON.

d. Press the + key until the temperature screen is displayed.

08. Load power selection

Due to the power of the floor heating, the heat generated by the temperature controller itself is different, thus affecting the temperature value detected by the room sensor. The program can make corresponding correction and compensation for the detection value according to different power.

Setting method:

a. After the thermostat is awakened, press and hold the Home and +keys at the same time for 3 seconds, and the interface displays 01.

b. Press + key to select 08.

c. Press Home key to enter setting.

d. Press - or + key to select the Load power serial number.

e. Press Home key to confirm.

09.Reset

This function restores the parameters of the set temperature and advanced settings to the factory default parameters.

TROUBLESHOOTING

Note: When a fault alarm occurs, please contact professional technicians for repair or replacement.

E1:Room sensor failure alarm.

E2: Floor sensor failure alarm.