ME83Heating Thermostat Manual

Application

The thermostat is recommended for control of electric heating devices or on/off valve actuator used in water-based system.

User Operation

Power Key : Press the On / Off key to turn the system on or off.

M Mode Key :You can select "period control mode" or "manual mode" by this key

∧∨ Up / Down key : Press the Up and Down keys to set the temperature and adjust system parameters. And press Up and Down simultaneously and hold for 5 seconds to enter lock key function.

Clock key: You can adjust the time and the week by this key.

Manual mode: Set the temperature manually by this key.

Automatic mode : Adjust to the automatic mode, the thermostat will work cyclically by week programming.

Anti-frozen function

In the state of shutdown, the thermostat will turn on the heating device automatically When the room temperature is below 5℃. when the room temperature is above 7℃, the thermostat will turn off the heating device automatically.

Technical data

1. Temperature sensor : NTC
2. Temperature accuracy : ±1℃
3. Power consumption : <170uW
4. Voltage: 1.5Vx2(Two sections of 1.5V 5 battery)
5. Load current : 3A
6. Temperature setting : 5~90℃
7. Protection Class : IP20

Programming: 6 –event time and temperature

In the shutdown state, long press mode key " M " and the clock key " " for 5 seconds to enter programming mode. you can switch parameters by mode key. After entering the programming mode , press mode key to adjust " hour" ,then press mode key to adjust "minute".Press the mode key again to adjust temperature.

1 .Wake-up 2. Leave 3 Return(am) 4.Leave(pm) 5.Return(pm) 6.Sleep

Key	Event		Symbol	Time	∧ ∨	Default value	∧ ∨
M	Week day	01		06: 00	Set time	20℃	Set temperature
		02		08:00		15℃	
		03		11:30		15℃	
		04		12:30		15℃	
		05		17:00		22℃	
		06		22:00		15℃	
	Weekend	01		08:00		22℃	
		02		23:00		15℃	

Advanced setting (qualified person preferred)

Press"∧"and"∨"at the same time to enter the mode of advanced setting immediately when thermostat is turned off. The following seven functions can be chosen by" M "key.

Symbol	Setting	Default value	∧ or ∨
1	Temperature calibration	-2	Adjust measured temperature range:-9-9℃
2	Overheating protection	60℃	Adjust range:5℃~60℃
3	Switching differential	1℃	Adjust switching differential range:1-5℃
4	Anti-frozen function	ON	Turn ON/OF Anti-frozen function
5	Kinds of periods of time mode	01	OF : Close 01:5+2 day mode 02:6+1 day mode 03:7 +0day mode
6	Max . temperature	40	Adjust range:30℃~90℃
7	Set the lower limit of temperature	10	Adjust range:5℃~20℃
8	Reset to factory settings		Press"∧"and hold for 3s, all parameters will be reset

Mounting steps

1. See figure 1, mounted on the wall with a pitch of 86mm screw expansion sleeve.

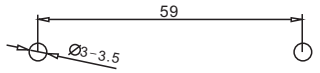


Figure 1

2. See figure 2, open the surface shell and the bottom shell, according to the alignment direction, route the desired wire through the back of the case to the wire slot, and according to the actual situation to set aside about 20CM length.

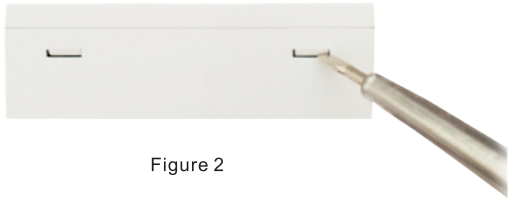


Figure 2

3. See figure 3, fix the bottom shell on the wall, terminal fixed wire, cover the bottom shell with the surface shell.

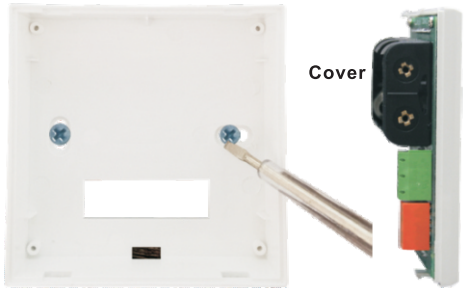


Figure 3

Mounting Location Recommended

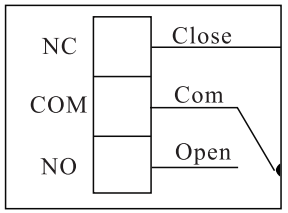
The heating thermostat should be mounted on the wall with air flowing freely around.

Warning: The mounting location should not be influenced by other heat source(e.g. sunlight), air flow through doors& windows or temperature of outer wall.

Common failure handling

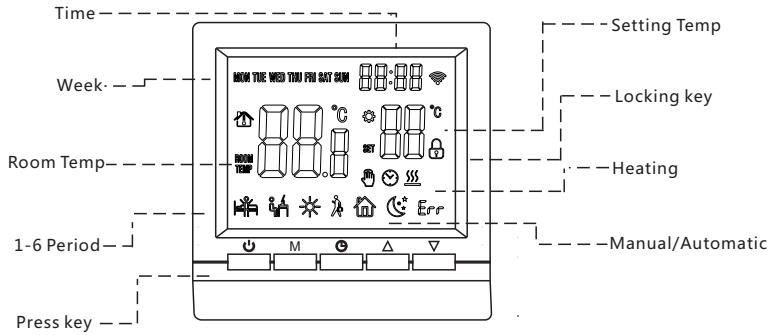
Failure	Handling
No power on	1.Check whether the battery is reversed. 2.Check if the power button is working.
LCD display garbled	1.The shell is deformed after installation,can be reinstalled.
Display normal No output	1. Check whether the wiring between the MPU and the power board is damaged. 2.Check whether the null line of live line is connected wrong.
Remote failure	Check if the remote control battery has enough power , if not replace the battery.
Temperature display error	Adjust the panel temperature display by the first option in the Advanced tab.

Wiring diagram



NC: Normally Closed Interface (Boiler or Loading);
COM: Common Interface (Boiler or external power input);
NO: Normally Open Interface (Boiler or Loading);

Icon description :



Dimension