QUETVARI THERMAEGH

USER MANUAL



THERMAEGH English V1.2

Instruction

The THERMAEGH thermostat controls the floor heating system based on built-in weekly program. The weekly program runs in 4 or 2 stages per day, 7 days a week. The default weekly program parameters can satisfy most usage scenarios. If your living habits are different, you can also modify the weekly program parameters in the thermostat or APP. When there is no one in the house, it is recommended to set the temperature down to save energy. Besides, the thermostat has built-in adaptive function. When this function acts, the thermostat heats or stops heating in advance of next stage to bring the room temperature to the set temperature of the next stage. Please note that after turning adaptive on, the thermostat takes a few days to learn the time required.

Symbols



Ground Fault Circuit Interrupter (GFCI)

This thermostat has a built-in GFCI function that protects people from electric shock. It is very important to check whether the GFCI function is normal or not every month. Here are the check stens:

1 Confirm that the thermostat is turned on

2. Press the [Test Monthly] button. If a red light appears in the upper left corner of the thermostat and GROUND FAULT appears on the screen, the GFCI function is normal. If there is no response, it means the function is invalid, please contact the dealer or electrical installer. Note: Do not press and hold the [Test Monthly] button.

3. Press the [Reset] button. The red light is off and the screen shows the power off state. 4. Press the [Reset] button again. The thermostat is turned on.

If in daily use, the red light is on and the screen appears GROUND FAULT. Then you need to check if the ground fault is present by pressing the [Reset] button. If the red light is off and the screen shows the shutdown status, it is nuisance tripping. If not, it means that ground fault has occurred. Please contact your dealer or professional technician immediately.

WiFi connection(Only for THERMAEGH)



Step 2: Register and log in with mobile number or email address in the APP. Attention: Please read and agree "Privacy Policy and Service agreement" before registration



	Step 3: Click 'Add Device' or '+' on the top-right to add device.	99 H
	Step 4: Click 'WiFi thermostat'.	
and		<u>e</u>
₽	Step 5: Operate thermostat. If the WIFI icon flash quickly, Click 'Press to connect'.	Sear W. Comm
	Step 6: Enter Wifi password, and click 'Confirm'.	
-		

Step 7: If device added successfully, you can change the device name and set region, then, click 'Done'. Attention: If failed, please confirm the Wifi is 2.4G version and check the Wifi

signals, then, use the 'AP mode' in the top right to connect again

Step 8: You can check the real-time temperature and set temperature etc. at the control interface

Functions and operation

On/Off

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The GFCI Reset button is also the switch button. Press the [Reset] button to switch on and off.

Temporary Override Temperature

This function is enabled in the automatic intelligent mode, when the temperature demand changes at this moment, the setting temperature is enabled, but the parameters in the Event are not changed Operation method:

der the interface showing the real-time temperature, tap ▲ or ▼ to modify the set temperature. Tap **OK** to confirm and return to the interface showing the real-time temperature.

Mode selection

This thermostat provides three operating modes: Automatic mode: According to the weekly program, the thermostat automatically adjusts the set temperature operation.

Manual mode: The thermostat runs continuously according to the set temperature. Frost protection mode: The temperature controller runs at a lower set temperature. The temperature

range is set from 41°F to 59°F in this mode. This mode is used when you want to keep your room at a lower temperature when you are on vacation.

How to set the mode select

In the interface displaying the real-time temperature, tap **OK** to enter the first level menu, and Node is flashing.

Tap **OK** to enter the mode selection

Tap ▲ or ▼ to change the mode.

Tap OK to confirm your selection. Tap OK to confirm your selection. If you select manual mode or freeze protection mode, you also need to tap ▲ or ▼ to set the

Tap **OK** to return to the interface showing the real-time temperature.

Key lock

- The thermostat provides a key lock function to prevent the thermostat setting parameters from being incorrectly modified.
- Note: the [Reset] button and the [Test Monthly] button can still operate normally so as to response

Set the key lock mode:

. Under real-time temperature interface, press and hold Muntil the lock symbol appears.

2. Under real-time temperature interface, tap OK to enter the first level menu, and Mode is

Tap ▲ or ▼ to select Key Lock

Tap **OK** to enter the key lock setting.

- Tan OK to confirm
- Tap **OK** to return to the interface showing the real-time temperature.

Cancel the key lock mode Under real-time temperature interface, press and hold 🛿 until the lock mark on the screen

Weekly program parameter setting

In the automatic mode, the thermostat runs automatically according to the setting parameters of the weekly program. The weekly program parameters contain two parameters: Schedule and Event.

1. Schedule

Assign seven days a week to the following two schedules:

5+1+1: The Event parameter is the same from Monday to Friday, with separate Event parameters

- on Saturday and Sunday. 7: With separate Event parameters every day
- Schedule parameter setting method.

Under real-time temperature interface, tap **OK** to enter the first level menu, and Mode is flashing. Tap \blacktriangle or ∇ to select Schedule.

- . Fap **OK** to enter the parameter settings
- Tap ▲ or ▼ to select a parameter

. Tap **OK** to confin

Tap OK to return to the real-time temperature interface.

2. Event

In the Home scenario, the day is divided into four events: Wake-- 🖞 Leave-- 🕆 Return-- 🕅 Sleep--emperature for each stage can be set separately

Event parameter setting method: Under real-time temperature interface, tap **OK** to enter the first level menu, and Mode is flashing. Tap ▲ or ▼ to select Event.

Tap **OK** to enter the week selection. Tap \blacktriangle or \blacksquare to select the day you want to modify the parameters. Tap **OK** to enter the stage selection for the day. Tap \blacktriangle or \blacksquare to select the stage that you want to modify the parameters. Tap **OK** to enter the temperature setting of the current phase. Tap ▲ or ▼ to select the temperature value you want to set. Tap **OK** to enter the hour setting for the start time of the current phase Tap ▲ or ▼ to select the hour of the start time. Tap OK to enter the minute setting for the start time of the current phase Tap ▲ or ▼ to select the minute of the start time Tap **OK** to return to the stage selection for the day.

te: Return to the interface of the real-time temperature and tap 🖬 multiple times.

Event default parameter list

Home								
Week	Week Wake		Leave ①		Return m		Sleep (
	Start time	Tempera- ture						
MonFri	6:00	78°F	8:00	69°F	17:00	78°F	22:00	69°F
SatSun	8:00	78°F	8:30	79°F	17:30	78°F	22:00	69°F
Office								
Week	on-work	<u>85</u>	off-work	6				
	Start time	Tempera- ture	Start time	Tempera- ture				
MonFri	7:00	78°F	18:00	69°F				
SatSun	7:00	68°F	18:00	69°F				

Settinas

In addition to the above common functions, the thermostat also provides a number of settings for more occasions. It should be noted that such settings need to be set by professional technicians to avoid damage caused by abnormal settings.

Settings access method: Under real-time temperature interface, tap **OK** to enter the first level menu, and Mode is flashing. Tap \blacktriangle or \forall to select Settings.

Tap OK to enter Settings. Settings contains the following items:

1.Time

Set the current real time and day of the week.

Note: The WiFi version of the thermostat will automatically update to local time after networking Time setting method:

- After entering Settings, tap ▲ or ▼ to select Time. Tap **OK** to enter the hour setting for the time.
- Tap ▲ or ▼ to select the hour value for the current time
- Tap OK to enter the minute setting for the time.
- Tap \blacktriangle or \blacktriangledown to select the minute value for the current time. Tap **OK** to enter the day of the week setting.

Tap ▲ or ▼ to select the day of the week.

Tap **OK** to enter the hour setting for the time. Tap K multi times to return to the real-time temperature interface.

2. Temp unit

°F or °C can be selected as the temperature unit Temp Unit setting method: After entering Settings, tap \blacktriangle or \triangledown to select °F/°C. Tap **OK** to enter the selection. Tap ▲ or ▼ to select the desired temperature unit. Tap **OK** to confiri Tap OK to return to the real-time temperature interface.

3.Sensor type

This thermostat can be connected not only to the floor sensor but also to two other commonly used floor sensors. When replacing the old thermostat, there is no need to replace the floor sensor for easy installation. Sensor Type setting method: After entering Settings, tap ▲ or ▼ to select Sensor Type Tap OK to enter the selection. Tap ▲ or ▼ to select the type of floor sensor you are currently using. Tap **OK** to confirm. Tap **OK** to return to the real-time temperature interface.

No.	Sensor Type	Parameters
00	3950(default)	
01	3600	R(25°C)=12kΩ R(10°C)=22.2kΩ
02	3700	R(25°C)=10kΩ R(10°C)=19.1kΩ

4.Sensor selection

5. Calibration

higher precision

Calibration setting method:

calibration instrumen

6. Location

7.Adaptive

mperature

In addition to the floor sensor, this thermostat has built-in sensors to detect room temperature Therefore, three sensor applications are available:

Room: Controls room temperature based solely on built-in sensors

Floor: Controls the floor temperature based solely on the floor sensor. Room.Limit: Controls the room temperature based on the built-in sensor while monitoring the floor temperature not to exceed the upper limit. This application, like Floor, can be used in places such as

Note: If Room.Limit is selected, you need to set the maximum temperature that the floor can accept.

This thermostat has built-in probe and floor sensor calibration function. In the case of demand for

Tap **OK** to enter the compensation setting. Tap ▲ or ▼ to adjust the real-time temperature to match the displayed temperature value of the

This thermostat has an adaptive function. When this function is enabled, the thermostat heats up or

stops heating in advance so that the next stage comes and the temperature just reaches the set

This thermostat is suitable for use in both homes and offices. For the office, a set of weekly

program parameters is built in. See the Weekly Program Parameters section for deta Location setting method: After entering Settings, tap ▲ or ▼ to select Location.

wood floors where floor temperature is critical

Sensor Selection setting method: After entering Settings, tap ▲ or ▼ to select Sensor Selection

Tap OK to enter the selection

Tap ▲ or ▼ to select the sensor application type. Tap OK to confirm

Tap OK to return to the setting item selection.

Tap OK to return to the real-time temperature interface.

After entering Settings, tap \blacktriangle or \checkmark to select Adaptive. Tap **OK** to enter the selection.

Tap OK to go to select Office or Home

Tap \blacktriangle or \triangledown to select one. Tap OK to confirm

Adaptive setting method:

Press ▲ or ▼ to get Yes or No.

Tap **OK** to return to the real-time temperature interface.

After entering Settings , tap ▲ or ▼ to select Calibration

Tap OK to go to select Room or Floor . Tap ▲ or ▼ to select Compensate Built-in Probe or Floor Sensor.

Tap **OK** to confirm. Tap **OK** to return to the real-time temperature interface.

8.Readout

This thermostat has the function of calculating the percentage of heating time over a period of time The relevant parameters can be queried through the Readout item. Readout query method:

After entering Settings, tap ▲ or ▼ to select Readout. Tap **OK** to enter the selection. Tap ▲ or ▼ to select 1Day, 30Days or 365Days to query.

Tap OK to return to the setting item selection

9.Factory reset

mostat has the function of restoring factory parameters. This the

Factory Reset setting method: After entering Settings, tap ▲ or ▼ to select Factory Reset.

Tap OK to enter the selec Tap ▲ or ▼ to select Yes or No.

Tan OK to confirm

Tap **OK** to return to the real-time temperature interface.

Settings default parameter list

NO.	Name	Default Parameter	Setting Range
1			, setting Range
1	Time	1	1
2	°F/°C	°F	°F °C
3	Sensor Type	00 3950	00 3950 01 3600 02 3700
4	Sensor Selection	Floor	Room FLoor Room.Limit
5	Calibration	0°F	-9°F 9°F
6	Location	Home	Home Office
7	Adaptive	No	Yes No
8	Readout	/	1
9	Factory Reset	No	Yes No

Troubleshooting

E1: Built-in probe failure, please contact your dealer or professional technician. E2: External probe failure, please contact your dealer or professional technicia

Installation

1.Loosen the bottom screw by a Phillips screwdriver. Then open the thermostat from the upper right side as shown. Note: Screw the nut out of the groove and do not need to unscrew it. 2. Wire as shown: R 5 L/N lead: Connect the power cord using the terminal block. L1/N1 lead: Use a terminal block to connect the load line IN/SNR terminal: Connect the floor sensor OUT terminal: Connect to IN/SNR of Power Module. Note: Disconnect the main power supply before wiring. If an electric floor heating cable or mat system requires more than 15 Amps, install a power module Wiring diameter: 12 to 22 AWG 3. Install the back



4. Fit the left side of the front and rear covers as shown.Rotate to the right again and press the upper half of the right border until you hear a click. Use a screwdriver to secure the bottom screw. Turn on the power and test the GECI function

WARNINGS

To avoid risk of electric shock, disconnect all power coming to

heater at main service panel before installation of the thermostat. Keep air vents of thermostat clean and free from obstructions. All wiring must conform to local and national electrical codes and ordinances. Installation must be carried out by qualified personnel.

Classification

The thermostat is a Class II device (reinforced insulation) and used for controlling electrical floor heating. The product must be connected to the following leads: L/N lead: Connect the power cord using the terminal block.

L1/N1 lead: Use a terminal block to connect the load line(Max 15A).

Electric floor heating cable/mat must be in accordance with the supply voltage The terminals are designed to handle a cross-section of wire measuring 12-22AWG

Technical specification

Supply voltage: GFCI:

120/240 VAC 50/60 Hz Class A (5 mA trip level) Temperature range: +5 to +45°C / +41 to +113°F Load: Setpoint range:

max.15 A (resistive load) +5 to +40°C / +41 to +104°F







