RISE

UNDERFLOOR HEATING

WI-FI SMART
THERMOSTAT
For Underfloor Heating Systems

5 YEAR
GUARANTEE

INSTALLATION MANUAL

HEATING HOMES FOR THE FUTURE

OUR AMBITION IS SIMPLE. TO PREPARE HOMES FOR THE FUTURE

Rise underfloor heating solutions are no nonsense and uncomplicated. We simply use the best technologies, premium materials and rigorously test our products to give you peace of mind when it comes to your home. Underfloor heating is an essential, our trusted products are easy to fit and affordable helping you to prepare your home for the future.

HERE'S WHAT YOU NEED TO KNOW

Wi-Fi Connectivity	Energy Saving	App Control
Smart Schedule	Holiday Mode	Geolocation
Auto Frost Protection	Boost Button	Temperature & Humidity Sensor
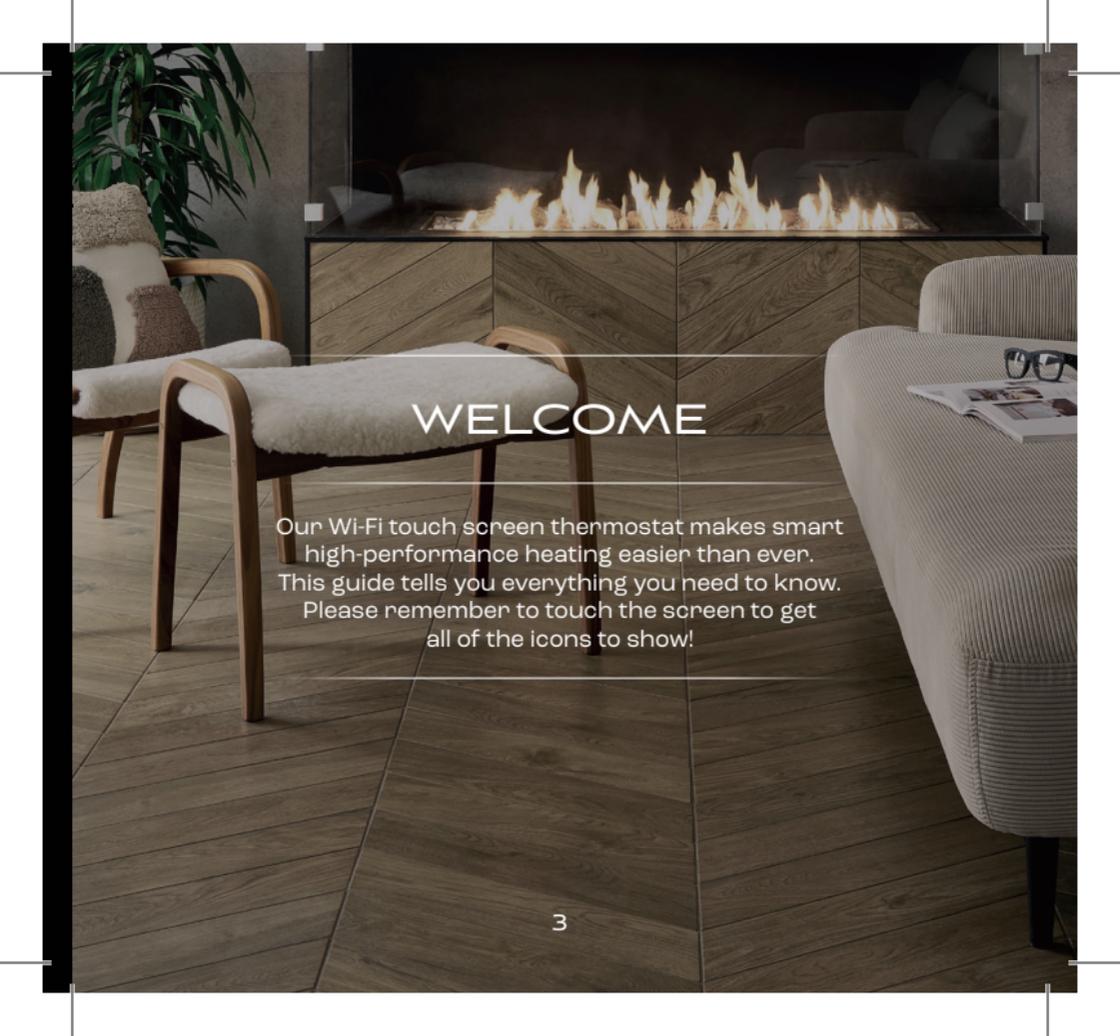
WELCOME

Our Wi-Fi touch screen thermostat makes smart
high-performance heating easier than ever.
This guide tells you everything you need to know.
Please remember to touch the screen to get
all of the icons to show!

CONTENTS

MAIN DISPLAY

1   Wi-Fi indicator - the Wi-Fi indicator display will not be flashing when connected to the Wi-Fi network.

2   Weekday indicator.

3   Display "heating" flame to indicate floor heating up.

4   °C or °F display.

5   Clock indicator.

6   Away/home: means thermostat is maintaining a lower temperature to give frost protection. Allows also a user preset set-back temperature while away from the house.

7   Room temperature display.

8   Schedule: programmable operation.

9   Increase the temperature setting.

10   Setting temperature display.

11 Lower the temperature setting.

12 Configuration menu button.

13 Holiday: displayed when thermostat is in holiday mode.

14 Hold temperature.

INTRODUCTION

Benefits of programmable thermostats

A programmable thermostat helps make it easy for you to save by offering six* pre-programmed settings to regulate your temperature for both summer and winter.

The pre-programmed settings that come with programmable thermostats are intended to deliver savings without sacrificing comfort. Depending on your schedule, you can see significant savings by sticking with these settings or adjust them as appropriate.

The key is to establish a program that automatically reduces heating and cooling in your home as required.

*PLEASE NOTE ONLY MORNING AND EVENING SETTINGS CAN BE ALTERED VIA THE APP.

MODE SELECTION

The Wi-Fi Smart Thermostat comes with two modes for the user to select, thermostat mode and timer mode.

Thermostat mode (fully programmable mode) - allows time and temperature settings to be made. This allows the thermostat to be programmed to a specific temperature during a specific time.

Timer mode - allows for the time only setting to switch on or off as desired. This mode ignores any temperature.

To change between thermostat and timer modes, follow these steps (use your finger as the screen is touch sensitive).

1 Press the ⚙ icon to enter configuration menu.

2 Using the ⬍ icon, scroll across to "feature setting" and press to select it.

3 Use the ⬍ icon, scroll across again to "work mode" and press to select it

4 Select "heating mode" or "timer mode". The thermostat will re-set and enter the desired mode.

PAIR APP TO THERMOSTAT

Pairing the Thermostat with the App

THE ROUTER NEEDS TO BE 2.4G BAND ONLY

Download the free Wi-Fi Thermostat app from the apple store or the google play store by searching "MyComfort House".

APP OPERATION 01-07

1 Open MyComfort House and register your account.

2 Log into your account.

3 Press the ⊕ icon on app home screen.

Press "location name" to add the location, for example home/office etc.

Press ⊕ icon to confirm the property.

Press ↰ icon to go back to the main screen.

4 Press the ⊕ icon on the app home screen to enter the "add device" screen.

5 Select "smart config" option on "add device" screen.

Press the bottom button "add device location" to enter Wi-Fi configuration.

6   Enter the Wi-Fi password (please ensure the router password is correct).

Press the "next" button on the bottom to enter "pairing device" screen.

7   Waiting for thermostat feedback on the "pairing device" screen, the count down is 120 seconds, if pairing failed, please check the Wi-Fi password and pair again.

Thermostat Operation

8   On the home screen, press the ⚙ icon and enter "network settings".

9   Find "pair to app (smart config)" and press it.

10   Wait for the devices to pair (this may take several minutes to activate).

11   The app will display "connected to the Wi-Fi" and will display "app matching success" on the controller.

OPERATION OF HOME SCREEN

HOME/AWAY

1 When the user switches the thermostat to "away mode", the thermostat will still protect itself from frost after the defrost temperature is set. When the temperature is lower than the set defrost temperature, heating will be turned on, meanwhile, the flame icon will be displayed on the thermostat.

2 The thermostat automatically enters the defrost mode when "away mode" is selected.

HOLD

The "hold" function allows you to maintain or hold a temperature and override any pre-set programs that have been created. This temperature will remain until the end of the "hold period" and revert back to any pre-set programs you have created.

1   Press "hold" and enter the setting screen.

2   Press the first column of "hold temp", use the ⇕ icon to set the desired temperature. (Temperature range 5ºC-35ºC).

3   Press the second/third columns of hour/minute, use the ⇕ icon to set the desired "hold time".

4   Press the ↰ icon to save and return to main display, or press "cancel" to delete the setting.

You will see the "hold left: **:**" indication is displayed on screen. The time will count down the set duration and then revert to the normal program.

HOLIDAY

The Wi-Fi Thermostat will maintain this temperature for the duration of the holiday and will then automatically return to the program mode on your return.

1 Press "holiday" to enter setting screen.

2 Press the column of years/month/day, use the ⇕ icon to set year/month/day values under holiday start.

3 Press the column of years/month/day, use the ⇕ icon to set the year/month/day values under holiday end.

4 Press the ↰ icon to save and return to main display. This setting will be displayed on the home screen as "holiday until **/** **:**" or press "cancel" to delete the setting.

SCHEDULE

1 Press the ⚙ icon to enter feature settings.

2 Select the "schedule" option to enter the settings screen. Select one of the four options: weekday/weekend, 7 days, 24 hours, none.

3 For example, setting the program mode to 7 days.

4 Press the ◯ icon in the front of 7 days, and it will turn to ⦿ .

5 Press the ↰ icon to save and return to main display.

6 Press the "schedule" on the main display to enter "edit" screen.

7 On the edit page, from Monday to Sunday can be selected to edit.

8 Press "Monday" and enter Monday's setting screen.

9 There are four time periods that can be selected: morning/day/evening/night.

(each time periods has ON ● ● OFF options).

In the program of Monday:

1 Morning ON ●

Press the first column of "time" and use the ⬍ icon to set desired "hour".

Press the second column of "time" use the ⬍ icon to set desired minute.

For example: the setting time is 04 (hour): 00 (minute).

Press the third column of "temperature" and use the ⬍ icon to set desired temperature.

For example: the setting temperature is 27°C.

2 Day ON ●

The same as program morning procedures.

For example: the setting time is 10 (hour): 40 (minute)

For example: the setting temperature is 24°C.

3   Evening   `ON`

The same as program morning procedures.

For example: the setting time is 12 (hour): 30 (minute).

For example: the setting temperature is 26ºC.

4   Night   `ON`

The same as program morning procedures.

For example: the setting time is 24 (hour): 00 (minute)

For example: the setting temperature is 28ºC.

Four time periods

1. 04:00 - 10:40: during this time the temperature will remain at 27ºC
2. 10:40 - 12:30: during this time the temperature will remain at 24ºC
3. 12:30 - 24:00: during this time the temperature will remain at 26ºC
4. 24:00 - 04:00: during this time the temperature will remain at 28ºC

CONFIGURATION SETTINGS

Press the ⚙ icon in home screen and enter configuration menu.

Language	English, French, German, Spanish, Polish, Czech, Russian, Slovenian
Date & time	01) Time zone 02) Date & time 03) Daylight saving time (DST)
Backlight	Ambient light dimming
Standby screen	Standby screen 01) Time: 3 min, 10min, just night 02) Type: clock, default, off screen
Screen lock	If you forget your 4 digit pin, you will find the "Master Pin" on Page 26 of this brochure
Hold temperature	Hold time Hold setpoint

History	01) Running time chart
	02) Temperature chart
	03) Humidity chart
Network settings	01) Wi-Fi setup
	02) Pair to app
	03) QR code
	04) Mac address
Feature settings	01) Temperature format
	02) Temperature limit
	03) Switch differential
	04) Output delay
	05) Away temperature
	06) Defrost: enable/disable
	07) Sensor option:
	Built-in sensor
	Remote air sensor
	Floor sensor only
	Built-in & floor sensor
	Remote air & floor sensor
	08) Humidity sensor calibration

Feature settings	09) Energy tariff
	Set energy usage per hour
	Set unit cost per kw/h
	10) Open window function
	Disable/enable this feature
	11) Floor temperature limit
	Set floor temp. range from 20°C to 60°C
	12) Optimum start
	Disable/enable this feature
	13) Work mode selection:
	Thermostat
	Timer
Schedule	Weekday/weekend
	7 days
	24 hours
	None
System information	Version number, QR code
Reset to factory settings	Delete all settings to factory default configuration

LANGUAGE

User can set a different language for the Wi-Fi Smart Thermostat, there are 8 languages in total.

Press the "settings" icon. Select "language" icon. Using the "scrolling up or down" icon to select one of the 8 languages.

CLOCK SETTING

To set the clock, follow these steps.

1   Press the ⚙ icon and enter feature settings.

2   Press the "clock setting" and enter setting screen.

3   Press the column of day/month/year, use the ⇕ icon to set the day/month/year.

4   Press the column of "time", use the ⇕ icon to set hours/minutes.

5   Press the ↰ icon to save and return to main display.

☼ DISPLAY BRIGHTNESS

1 Press the ⚙ icon and enter feature settings.

2 Press "backlight" selection and enter backlight setting.

3 Ambient light dimming is in ⬤ ON ⬤ mode: automatically adjusts the backlight brightness.

4 Ambient light dimming is in ⬤ OFF ⬤ mode: manually adjust the backlight brightness.

5 Use the ⬍ icon to adjust to the desired brightness.

Press the ↰ icon to save and return to main display.

SCREEN SAVER

1 Press the ⚙ icon to enter feature settings.

2 Press "standby screen" to enter setting screen.

3 There are four selection (3min, 10min, just night, never) to control the standby screen time.

4 For example, setting the standby time for 10 minutes. Press the ○ icon in the front of "10 min" and it will turn to ● .

5 Press the ↰ icon to save and return to main screen.

LOCK SCREEN

1 Press the ⚙ icon to enter feature settings.

2 Press "screen lock" to enter setting screen.
Lock pin `ON ●` `● OFF` options.

3 For example, setting the lock pin to 5209.

Press the first column, use the ⬍ icon to set to 5.

Press the second column, use the ⬍ icon to set to 2.

Press the third column, use the ⬍ icon to set to 0.

Press the fourth column, use the ⬍ icon to set to 9.

4 Press the ↰ icon to save and return to main screen.

NOTE

To unlock the Wi-Fi Thermostat press the display and add your four digit pin number that you previously set.

MASTER PIN IS 8657

NETWORK SETTINGS

1 Press the ⚙ icon to enter feature settings.

2 Press "network settings" and enter setting screen. You can select one Wi-Fi network and set the Wi-Fi password in 01- Wi-Fi setup screen.

To use the "smart config function" pair thermostat to app, please press 02- pairing to app (smart conifig).

If the thermostat model has RS485 feature you can set the Modbus Address by selecting 05-Modbus Address.

FEATURE SETTINGS

1 **Temperature format:**
Select between °C and °F.

2 **Temperature limit:**
Set the temperature setting limitation range.

3 **Switch differential:**
Set a parameter for when the heating function
is triggered as the room temperature falls
below the target temperature.

For example, if the switch differential is set to 0.5,
the heating will trigger once the room temperature
falls 0.5 degrees below than the target temperature.

4 **Output delay:**
To prevent rapid switching, an output delay can
be entered. This can be set from 0-15 minutes
(the default is 00, meaning no delay). This function
helps to prevent system "short-cycling".

5 **Away temperature:**
Set the away temperature.

6 **Defrost: enable/disable:**
The thermostat will automatically enter the
defrost mode when the room temperature
drops below the defrost temperature.

7 **Sensor option:**
There are five sensor options - selecting each will enter
a calibration screen for that setting:
— Built in sensor (default).
— Remote air sensor.
— Floor sensor only.
— Built-in floor sensor.
— Remote air & floor sensor.

8 **Humidity calibration:**
Calibrate the humidity.

9 **Energy tariff:**
Set the energy usage, kw/h and £/kw so user could check
the energy or cost in the history chart of home screen.

10 **Open window function:**
This option allows you to enable the "open window" function. The thermostat can detect an open window by registering a rapid drop in temperature. With the function enabled, the thermostat shuts off the heating for 30 minutes if an open window is detected.

11 **Floor temperature limit:**
Set the floor sensor limitation.

12 **Optimum start:**
Wi-Fi Smart Thermostat makes use of the rate of change previously figured out to further calculate how far ahead of time the heating function should be triggered, in order to maximise the energy conservation, as well as be able to make the house warm and comfortable at specific time. For example, if the rate of change is 20, it will take 20 minutes to realise the rise of 1 degree. Then the Wi-Fi Smart Thermostat can further figure out how far ahead of time the heating function has to be triggered to make the room comfortable on the premise of energy saving.

13 **Work mode selection:**
Change between thermostat and timer modes.

SCHEDULE

Wi-Fi Smart Thermostat provides three programming modes and can also be set to a non-programmable thermostat. Weekday / weekend (5 + 2) programming allows you to edit the 4 time periods for the weekdays and 4 time periods for Saturday & Sunday.

7-day programming mode can be programmed each day with 6 time periods.

24 hours mode-every day can be edited with 4 time periods.

HOLD TEMPERATURE

Set the hold temperature and time, this is same as the hold function in the home screen.

SYSTEM INFORMATION

1 Press the ⚙ icon to enter feature settings.

2 Press "system information" to enter screen, this will show the version number.

3 Press the icon ↰ to exit.

RESET TO FACTORY SETTINGS

1 Press the ⚙ icon to enter feature settings.

2 Press 🔄 to enter setting screen.

3 Press "reset" to factory settings.

4 Press the ↰ icon to exit.

WARNING: RESET WILL MAKE YOU LOSE THE CURRENT SETTINGS AND RETURN TO THE FACTORY SETTINGS.

INSTALLATION

Install the thermostat at the eye level or as required by your local building regulations. Please read the instructions in order to better understand our products. Do not install in areas close to a heat source, which will affect its function. This thermostat is designed to be flush mounted and requires a 35mm recessed box in the wall.

STEP 1
Using a flat-blade screwdriver, loosen the screw from the bottom of the thermostat, and then separate the front half from the backplate.

STEP 2
First place the front panel of the thermostat in a safe place. Then follow the wiring diagram on page 36 of this manual for connecting terminals.

STEP 3
Screw the thermostat backplate into the mounting box in the wall using the correct screws (do not over-tighten).

STEP 4
Refit the thermostat front panel onto the thermostat backplate fastening, and then gently re-tighten the retaining screw.

OUTLINE DIMENSION

103mm

74.5mm

86mm

50mm

42.5mm

WIRING DIAGRAM

Floor Probe

AC 95~230V

| – | RT2 | RT1 | N1 | N | | L | Load |

Remote Air Probe

Heater ~230V/16A
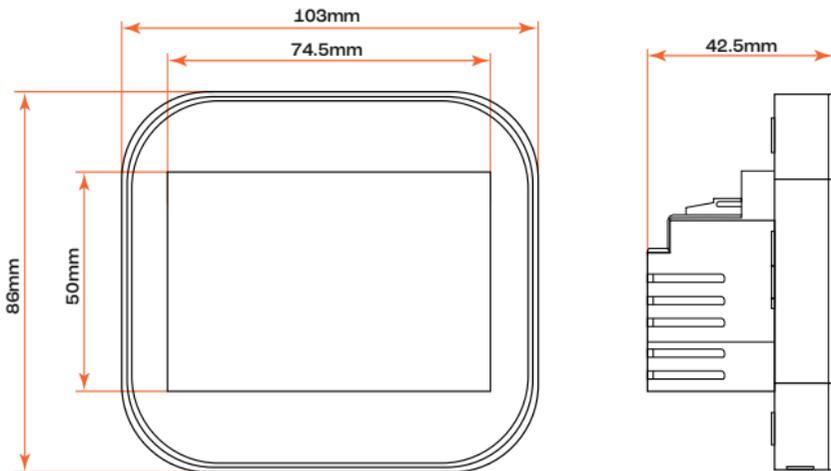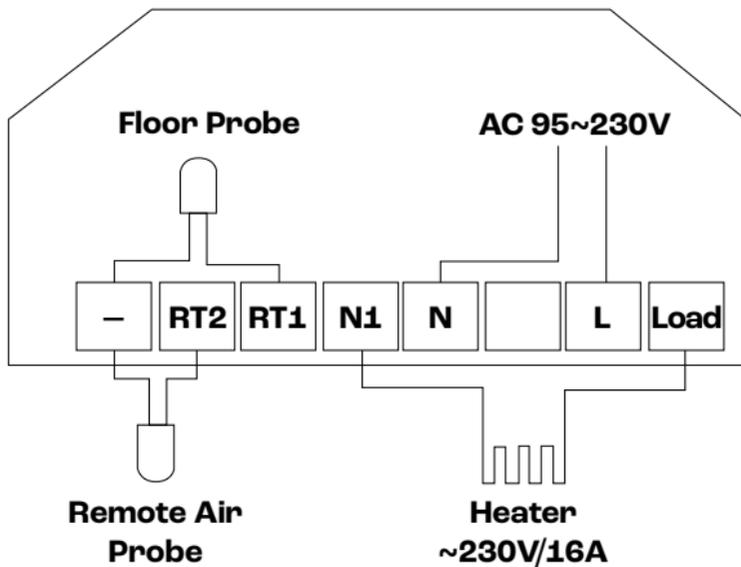
MODE 2-TIME CLOCK

SETTING THE TIME CLOCK

To program the clock times, when in time clock mode, follow these steps.

1   Press "schedule" on the main screen.

2   Press weekday and enter setting screen.

        Four time periods can be selected to program (each period has on/off icon ⬤⚪ options).

3   Press the "hour" of the on time and use the icons ⇕ to adjust to the desired hour.

4   Press the "minute" of the on time and use the icons ⇕ to adjust to the desired minutes.

5   Press the "hour" of the off time and use the icons to adjust to the desired hour.

6 Press the "minute" of the off time and use the ⇕ icons to adjust to the desired minutes.

Repeat these steps to set all periods.

BOOST MODE

The boost function allows you to override the thermostat outside of the programmed times and manually turn on for your desired time period. This function overrides the pre-set time settings for a desired length of time. This can be to override on or override off. To activate the boost, follow these steps.

1 Press "boost" icon.

2 Select your desired "boost" mode on or off.

3 Press "hour" and use the ⇕ icons to set the desired hours.

4 Press "minute" and use the ⇕ icons to set the desired minutes icon and press cancel.

5 Press the ↰ icon to save and return to the main screen.

6 The "boost" time remaining will be displayed at the top of the screen.

7 To cancel "boost", press "boost" main icon and press cancel.

TECHNICAL SPECIFICATION

Power supply: 230vac, 50-60Hz, 16A

Setting temp range: 5-35ºC temp accuracy: ±1ºC

Power consumption: 1w

Floor temperature limit: 20-45ºC

Max switch current: 3a/16a (optional)

LCD screen size: 3.5 inch

Touch: capacitive touch

Dimension: 103 x 86 x 42.5mm (L x W x D)

Grade of protection: IP20

Your Wi-Fi Smart Thermostat comes with
a 5-year warranty from date of purchase.
If you have any problems installing or programming
your thermostat, please contact our dedicated technical
support team who will be happy to help you.

Freephone helpline: **0800 246 5963**
Email: **enquiries@riseheating.co.uk**