



Colour Touch Screen Thermostat



User Manual

www.romaheating.co.uk

Roma Colour Touch Screen Thermostat

- The colour touch screen thermostat is designed for electric floor heating or water heating systems. Equipped with the latest 4.3inch colour touch LCD display, the thermostat can be easily operated and understood. The thermostat is fully programmable to automate your heating or can be used in a simple manual mode.
- With five modes, these instructions will explain how to set your system to work in accordance with your life style. This is done by pre-setting your preferred temperatures into the 5+ 1 + 1 days easy programmable function
- Simple regulation which sends commands to the heating system according to a pre-selected temperature variation. The thermostat control algorithm also includes an anticipation function which reduces the discrepancy between the thermostat reading and the temperature at the center of the room.
- Choose from three (3) sensor settings: Air temperature, Floor temperature and ambient (a combination of both air and floor sensors working together). Air is controlled through the built in air temperature sensor and floor is controlled via the included external floor probe.

Thermostat Features

- Advanced 4.3 inch Colour Touch Screen Operation
- Adjustable Screen Brightness For On And Sleep Modes
- Electric Heating System (Max. 16A) or Water Heating System Max.3A)
- Adjustable Comfort Mode, Economy Mode, Party Mode, Holiday Mode and Automatic Programme Mode Control
- 5+1+1 Days Programmable settings
- External and Internal Sensors
- Clock and Day Display
- Temperature Calibration
- Temperature Protection
- Fits Standard 1G Deep Back Box

Technical Data

- Voltage: 230V, 50/60Hz
- Load: 16A Max)
- Temp.Setting Range: 5 - 45 °C
- Ambient :0 - 50°C
- Sensor: NTCIOK. 3950ohms at 25°C
- Accuracy: - 0.5 °c
- Protection Class : IP30

Screen and Display

Home Screen



Menu Screen



Mode Screen



1	ON/OFF	Used to turn on/off Thermostat	
2	Mode Button	Use to Choose Working Mode	
3	Menu Button	Use to Select Menu Settings	
4	Down Button	Decrease Temp. or Other Settings	
5	Up Button	Increase Temp. or Other Settings	
6	Floor Temp.	External Probe Temp (When Selected)	
7	Room Temp.	Internal Air Temp (When Selected)	
8	Set Temp.	Set Temp (Range 5-45°C)	
9	Mode Icon	Show Current Working Mode	
10	Time	Current Time & Parameter Settings	
11	Day Of Week	Show Current Week Day	
12	Heating Icon	Will Show When Heating Is On/Off	
13	Date & Time	Set Weekday and Time	
14	PRG. Program	Select automated mode/programme	
15	Pre-Set Mode	Use to Pre-set Mode's Working Temps	
16	Language Select	Select language (EL Units Only)	
17	Hi/ Low Protection	Set Max/Min Floor Temperatures	
18	Comfort Mode	Pre-Set comfort Mode Setting	
19	Economy Mode	Pre-Set Economy Mode Setting	
20	Party Mode	Pre-Set Party Mode Setting	
21	Holiday Mode	Pre-Set Holiday Mode Setting	
22	PRG. Mode	Pre-Set Programme Mode 5+1+1	

My Schedule Setting

Press Menu button, then press  You can then review your automated schedule. Touch any column to select it and make changes where necessary.

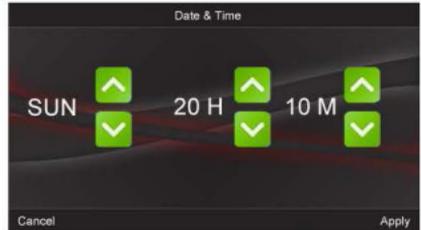
To make changes to a selected column, use the green  and  on the left to select different zones for that day / column. Once the desired time zone is selected  use the green  and  on the right hand side to set the time and temperature for the selected zone.



In each column there is 6 periods / zones. The time for each zone should be set in consecutive times throughout the day i.e. 7 – 8 – 9 – 10 etc. and not 7 – 10 – 8 – 9 etc. The temperature set for each time zone will be held by the thermostat until the next time zone starts. H = Hours, M = Minutes and bottom right number is set temperature. Once all times and temperatures are set simply press “APPLY” to save the new schedule settings.

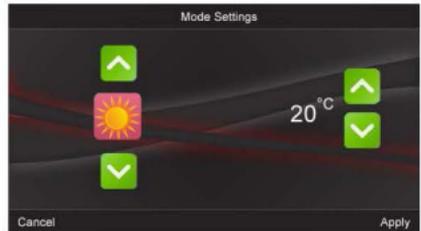
Edit Date and Time

Press Menu button, then press  you can now edit date & time with  or  buttons. Once set simply press" APPLY" to save the changes.



Mode Pre-set Temp Settings

Press Menu button, then press  You can now pre-set 4 different options. These options are,  Comfort,  Economy,  Holiday,  Party. By pre-setting these options they can be selected at ease and the thermostat will hold these settings until you select another setting. This saves time and helps the user to remember the ideal temperature for different occasions.



Max Temp Protection Settings

Press Menu and then press  You can now set your maximum and minimum Floor protection settings. These settings will turn the heating on or off should the floor probe temperature go beyond these settings. Please note this setting should be used in conjunction with "Set Point Max" and "Set Point Min" settings, (Please see settings page 1 for max / min set point).



Settings Page's.

Depending upon how you use your thermostat and heating you may need to adjust the internal default settings on this thermostat. To access these settings,

- 1: Make sure the unit is in the ON position.
- 2: Press OFF in bottom right hand corner.
- 3: Confirm off by pressing OK in centre of screen.
- 4: Within 2 seconds press on the TIME / DAY in the top left hand corner of the screen.
- 5: SETTINGS PAGE 1, should now be displayed.

Settings Page 1.

Temperature Offset / Calibration.

This allows the temperature to be calibrate should the temperature displayed on the screen is not true to the actual air / floor temperature.

Dead Zone.

This increases the temperature Switching Differental between the heating turning off and on in comparison to the set temperature.

Set Point Max, (Also see MENU setting).

This is the maximum temperature the thermostat can be set to.

Set Point Min, (Also see MENU setting).

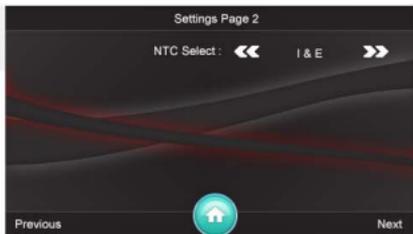
This is the minimum temperature the thermostat can be set to.



Setting Page 2.

NTC select.

This provides the ability to select between floor and air temperature control or a combination of both sensors. I = Internal Air Sensor Temperature / E = External Floor Probe Temperature.



Setting Page 3:

Language selection:

Allows the user to select between different languages. Please note this is only available on Unit D8. All other units will be pre-set to the regional language and page 3 will be deactivated.

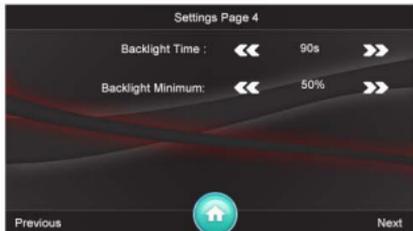
Settings Page 4:

Backlight Time.

This changes the length of time the screen is fully illuminated. After this time the screen will revert back to the standby screen brightness.

Backlight Minimum.

This changes the brightness / visibility of the standby screen.



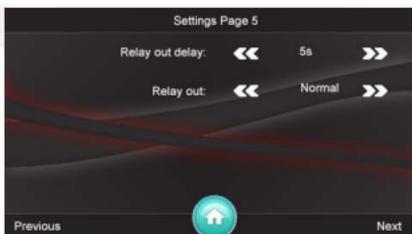
Setting Page 5:

Relay Out Delay.

This changes the delay between the thermostat switching the heating on and off once the set temperature is achieved or temperature falls below.

Relay Out.

This changes the switching of the relay between normal or inverted. DO NOT select or use the Inverted option if using standard underfloor heating systems, (inverted option only on D7 Model).



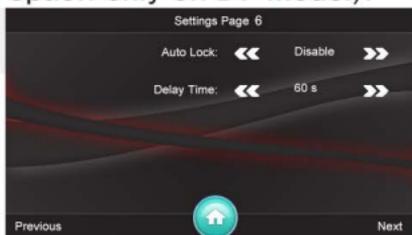
Settings Page 6:

Auto Lock.

This enables or disables the screen lock. When screen lock is enabled the screen will automatically lock once the unit has been left alone for the set period of time. To unlock the screen, touch the screen anywhere once and then within 2 seconds press and hold the Time / Day on the top left hand corner for 10 seconds and the lock will deactivate.

Delay Time.

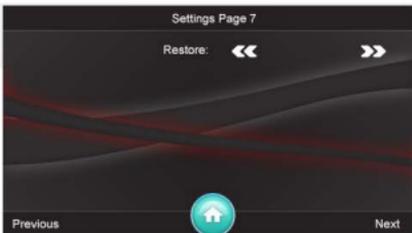
This allows the user to set the delay period between the screen locking and the length of inactivity before the lock is activated.



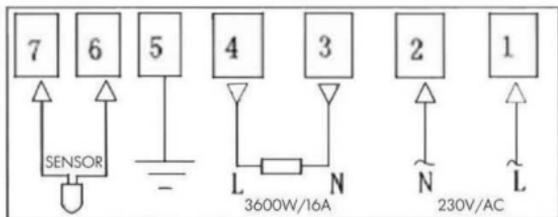
Setting Page 7:

Restore.

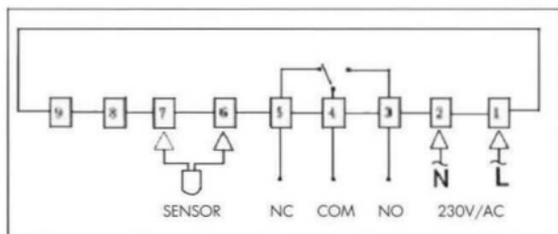
This allows the user to reset the unit to the original default settings.



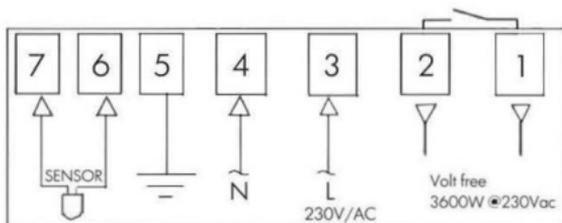
Wiring Diagrams



Electric Heating System



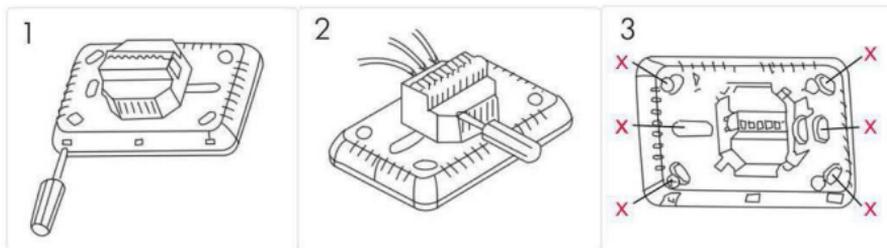
Water Heating System



Voltage-Free System

Installation

Using a flat screw driver carefully open the thermostat. (See fig 1), connect the heating, power supply and floor probe cables to the correct terminals tightly, (See Fig 2). Once wired fix the back plate to the wall securely through firing locations (See fig 3)



Dimension (mm)

