



LivingHeat

UNDERFLOOR HEATING WORLD

CT1000

Underfloor Heating Thermostat



User Manual

www.romaheating.co.uk

Roma Colour Touch Screen Thermostat

- This Thermostat is a digital touch screen thermostat, which is designed for electric floor heating or water heating systems. Using the 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 instruction will show you 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 centre of the room.
- Choose from three (3) sensor setting: 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

- 4.3inch 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 Program Mode Control
- 5+1+1 Days Programmable settings
- External and Internal Sensors
- Clock and Day Display
- Temp. Calibration
- Temp. Protection
- 86''86mm mounting

Technical Data

- Voltage: 230V, 50/60Hz
- Load: 16A Max)
- Temp. Setting Range: 5 - 35s °c
- Ambient :0 - 50°C
- Sensor: NTC10K. 3950ohms at 25°C
- Accuracy: - 0.5 °c
- Protection Class : IP30

Screen and Display



1	ON/OFF Button	Use 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 Parameters
5	Up Button	Increase Temp. or Other Parameters
6	Floor Temp.	Show Floor (External Probe) Temp.
7	Room Temp.	Show Room (Internal Air) Temp.
8	Set Temp.	Set Temp (Range: 5-35°C)
9	Mode Icon	Show Current Working Mode
10	Time	Current Time & (Parameter Settings See P8)
11	Day Of Week	Show Current Week Day
12	Heating Icon	Will Show When Heating Is On / Off
13	Date & Time Button	Set Weekday and Time
14	PRG. Program Schedule	Check 5+1+1 Days Heating Schedule
15	Pre-Set Mode Temps	Use to Pre-set Mode's Working Temps
16	Language Select Button	Select language (EL Units Only)
17	Hi / Low Protection Temp	Set Max / Min Temps
18	Comfort Mode Button	Pre-Set comfort Mode Setting
19	Economy Mode Button	Pre-Set Economy Mode Setting
20	Party Mode	Pre-Set Party Mode Setting
21	Holiday Mode Button	Pre-Set Holiday Mode Setting
22	PRG. Mode Button	Pre-Set Programme Mode 5+1+1

Schedule Setting

Press Menu Button, then press  you can then review the set weekly schedule. Touch a column to select and make any changes to the 5+1+1 day schedules.



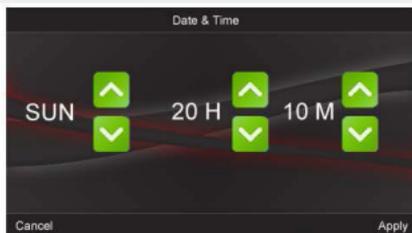
For example, if you want to edit the Sat. schedule, touch the Sat. column. You can then select each of the 6 time zones separately. Use  or  buttons to set time and temps for each zone. .



1. In all columns there are six periods. Using the green  or  button to select the periods. You can then change the periods selected, (the selected period is  ticked like this).
2. After the period is selected, you can set the time, H = hours, M = minutes and temperature by pressing  and  buttons.
3. After new schedule is set, simply press "APPLY" to save the new schedule.

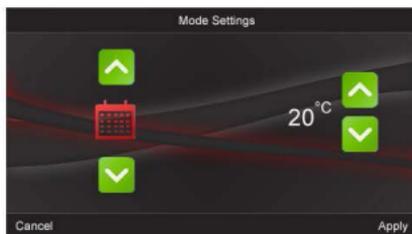
Edit Date and Time

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 the mode working temps with the  and  buttons. Once set simply press "APPLY" to save the changes.



Max Temp Protection Settings

Press Menu, then press  you can now select and enter your protection settings. Both high & low temps can be set using the << and >> buttons. Once set simply, press "APPLY" to save the changes.



High Protection: When set, the thermostat will turn the heating down / off automatically if the external floor temp (floor probe temp) exceeds the max set temp. This is important if any part of the floor or floor covering has a recommended max permissible working temp.

low Protection: If set and when the thermostat is OFF, the thermostat will automatically turn the heating on if the air temp (internal Room temp) falls below the Low set temp. The low set temp will then be maintained until the thermostat is turned on. This is helpful to stop pipes freezing and furnishings being damaged by the cold.

Languages Select (EL Units Only)

Press Menu button, then select  icon to enter languages page. Selecting the language you want and press "APPLY" to save it.

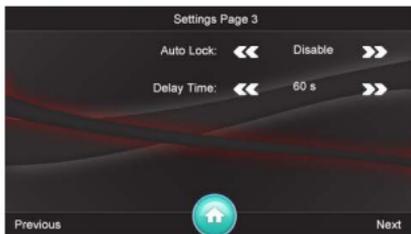


Parameter Settings

Depending upon how you want to use the thermostat, the parameter settings may need to be changed to suit your requirements. To view or change the Parameters Settings you must, Within 3 seconds after turning thermostat OFF (bottom right hand corner), press and hold the time (top left hand corner of screen), for 2 seconds. This will bring up the parameter setting pages. You can set the desired value by pressing "«" or "»", and go to other pages by pressing "Pre" or "Next". Once you have finished press the Home button to confirm settings and exit..

Menu	Description	Range
01	Temp. Off set	-8°C - 8°C
	Dead Zone	0°C - 3°C
	Set Point Max.	5°C - 35°C
	Set Point Min.	5 °C - 35°C
02	NTC (I = Air Temp, E = Floor Temp, I+E = Ambient Temp)	I only, E only, I & E.
04	Backlight Off Time After Operation	3s - 180s
	Backlight Brightness When In Standby Status	1% - 100%
05	Relay Delay Time	0s- 250s
	Relay Output	Normal(no); Inverted(nc)
06	Auto Lock	Disable / Enable
	Delay Time	0-200s
07	Restore Factory Settings.	

Auto Lock Feature

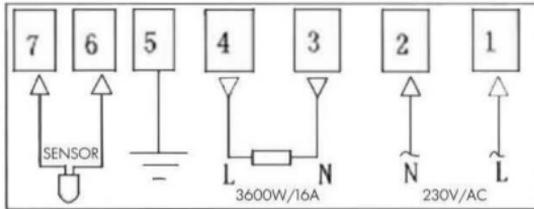


In the parameter settings menu you can either enable or disable the auto lock feature. The auto lock will automatically lock your screen after the set amount of time.

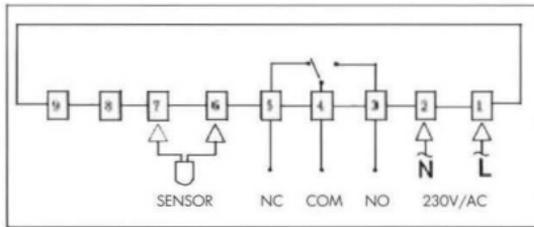
Unlocking the screen

To unlock your screen simply press and hold the top left corner of the screen where the time is indicated for 10 seconds, or until the lock icon disappears.

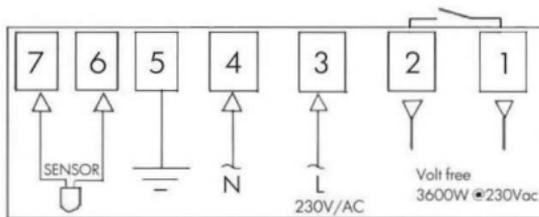
Wiring Diagrams



Electric Heating System



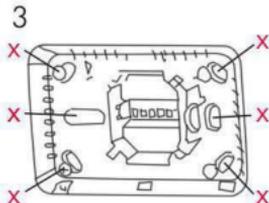
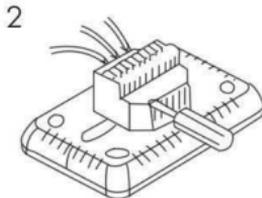
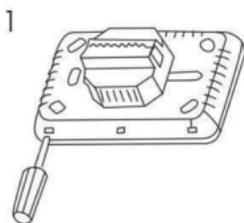
Water Heating System



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)

