



PRODUCT OVERVIEW

LunaStat is a multi-function thermostat for underfloor heating, radiators or any other form of heating where multifunction temperature control is required.

LunaStat has 6 operational modes to choose from

- Programmable thermostat
- Programmable thermostat – with remote sensor (floor or air)
- Non Programmable thermostat
- Non Programmable thermostat – with remote sensor (floor or air)
- Non programmable thermostat with set back function
- Non programmable thermostat with set back function – with remote sensor (floor or air)
- It's two thermostats in one, a 'Programmable Room Thermostat' and a 'Digital Thermostat' combined, with Setback function. One stat does it all!

Why use LunaStat?

- Has a unique 'Copy to function' to help save time when programming
- Can adjust the temp in each of the modes 'Hold', 'Frost mode' and 'Holiday'
- Temperature adjustment in 0.5 degree increments giving more accuracy and control
- 5 minute time increments, again for more accuracy and control
- Can 'Hold' in set back mode
- Can use all sensor options in both 'programmable' and 'set back', covering every possible set up or combination
- Max and min temp range setting options prevent the user from over heating the floor, this can be used as a safety measure in public areas
- Can view the remote floor sensor temperature when using as high temp limit - by default other products would only show the room temp, with LunaStat you can now see the remote temperature of the floor at the touch of a button
- It can use all sensor options in both 'programmable' and 'set back' modes thur of 5 sensor options covers every possible set up or combination
- Max and min temp range setting options to aid the user from over heating the floor, this can be used as a safety measure in public areas
- Simple viewing of the remote floor sensor temperature when using as high temp limit because by default other products would only show the room temp – however with the LUNA you can now see the remote temperature of the floor at the touch of a button

Functions

DESCRIPTION	DETAILS
Programme Modes	Prog/ Prog with remote sensor/ Non Prog/ Non Prog with remote sensor/ Non Prog with set back/ Non Prog with set back and remote sensor
Set Back	Default 4 degrees – adjustable between 3-6 degrees
Time	12h/24h
Sensor Selection	Inbuilt/ Remote air/ Remote floor/ Inbuilt air + Remote floor limit/Remote air + Remote floor limit
Frost Protection	12 degrees
Temperature Hold	Hold the temp for a optional number of hours
Holiday	Choose the number of days
Key Lock	Lockable to prevent tampering
Output Start	0.5 degrees
Output Delay	Delay the switching in minutes
Floor Temp Protection	Set the max floor temperature

Specification

DESCRIPTION	SPECIFICATION
Voltage	230v, 50/60HZ
Switch	3amp
Power Consumption	<2amp
Sensor	Inbuilt, remote floor 10k, remote air 10k
Accuracy	+/- 1 degree
Setting Range	5 ~ 35 degrees
Working Temperature	0 ~ 45 degrees
Humidity Range	5 ~ 95% RH
Temperature Increment	0.5 degrees



AMBIENTE LUNASTAT V2 | 43521

ambiente®

CONTENTS

TABLE OF CONTENTS

What is the LunaStat?	3	Setback temperature	29
Installation procedure	7	Other features available	30
Setting program mode	8	Frost protection	30
Programmable mode	10	Keypad lock	30
LCD display	11	Floor limit protection	30
Setting the clock	13	Single channel timer	31
Change/check temperature	14	LCD display	32
Schedule and comfort settings	15	Setting the clock	34
Setting the holiday mode	17	Setting timer times	35
Setting the hold mode	18	Setting the holiday mode	38
Optimum start	19	Setting the hold mode	39
Non-programmable mode	20	Overriding timer off	39
LCD display	21	Factory reset	40
Change/check temperature	23	Optional features explained	41
Setting the hold mode	24	Changing optional features	44
Setback thermostat mode	25	Optional features table	45
LCD display	26	Error codes	47
Change/check temperature	28	Wiring diagrams	48

WHAT IS THE LUNASTAT?

The LunaStat is a multi-function thermostat/timer for any part of your heating or hot water system where thermostatic or programmable control is required.

The LunaStat consists of three main modes:

1. Standalone programmable/non-programmable thermostat
2. Setback thermostat with central programmer
3. Single channel timer

1. PROGRAMMABLE/NON-PROGRAMMABLE THERMOSTAT

The LunaStat operates by itself as independent control to the rest of the heating system as a thermostat in either programmable or non-programmable operation.

- A. Non-programmable – operates as a simple thermostat where the temperature is held at the set point continuously.
- B. Programmable – operates as a fully programmable thermostat with 4 times at which to set a target temperature. This enables you to regulate the temperature in your home by setting specific temperatures for times of day.

This way, the thermostat doesn't operate the heating as On/Off but as an Up/Down control to the specific temperatures you set on your LunaStat.

This enables you to have intricate control in each room, creating a micro climate in different areas of your home and regulating the temperature for night, for when your home is unoccupied, or even when individual rooms are unoccupied or not used.

2. SETBACK THERMOSTAT WITH CENTRAL PROGRAMMER

The LunaStat operates as temperature control on a room by room basis in conjunction with a single programmer (supplied separately) providing central timed control for larger areas or whole houses.

The LunaStat is set to non-programmable and maintains the temperature at the set point whilst the programmer is on. When the programmer is off the LunaStat automatically drops the set temperature by up to 5°C, for example, during the night or whilst the property is unoccupied.

This enables the operation of an efficient system with simple to use thermostat and central programmer rather than multiple thermostats that need programming one at a time.

3. SINGLE CHANNEL TIMER

The LunaStat operates by itself as an independent timer control for any part of your heating or hot water system.

This enables you to have accurate timer control of your heating and hot water system, with the LunaStat ensuring the system operates at the time you require and set, available in 5 minute increments.

INSTALLATION PROCEDURE

Care should be taken on where the LunaStat is installed as being the ultimate control of your heating. It is important that it is not installed near any secondary hot or cold sources. The LunaStat should be installed at chest/eye level and where it will receive an even reading of the temperature of the room. It should be installed out of direct sunlight, away from draft or heat sources such as airing cupboards. The LunaStat is designed to be mounted flush and will require an electrical back box with a depth of at least 35mm.

Step 1

Separate the two halves of the thermostat by using a small flat screwdriver to disengage the clips in the top edge of the LunaStat.

Step 2

Ensure that the front (Screen) part of the thermostat is kept somewhere safe and clean. Terminate the cable for the thermostat in accordance with wiring diagrams on pages 48-51.

Step 3

Fix the thermostat back plate back to the back box with the screws provided, ensuring this is secure.






Step 4

Clip the front on to the back plate engaging the bottom clips first.

SETTING YOUR PROGRAM MODE SELECTION

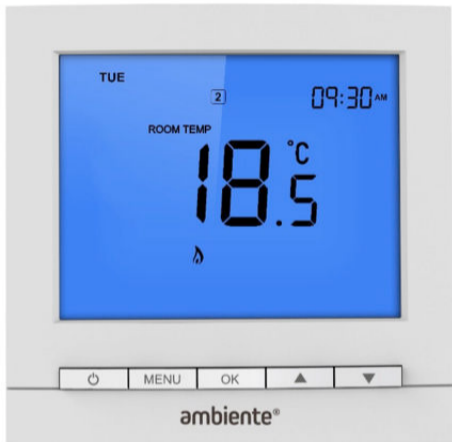
This LunaStat has been set by default to a programmable thermostat in 5+2 day programming (Weekdays + Weekend).

To change between programmable, non-programmable, setback thermostat and single channel timer follow these steps.

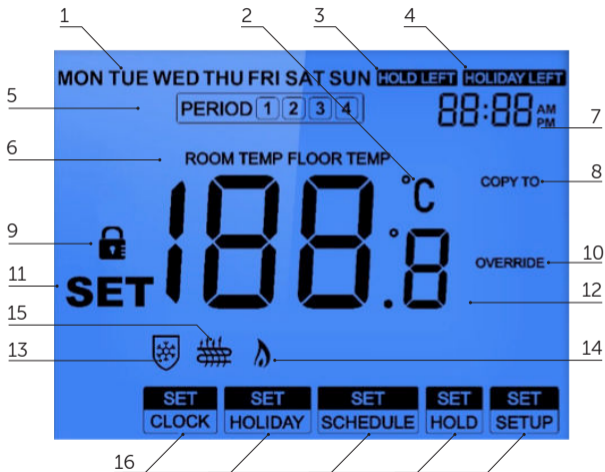
1. Press and hold the  button to turn the screen off
2. Press and hold MENU until the 'SET SETUP' main menu item flashes.
3. Press OK 5 times or until the small digit shows '05'.
4. Press   to change the large number for the following modes
 - 00 – Non-programmable/setback thermostat
 - 01 – Weekday/Weekend programmable
 - 02 – 7 day programmable
5. Press OK 10 times or until the small digit shows '15'.
6. Press   to change the large number for the following modes
 - 00 – Setback thermostat disabled
 - 01 – Setback thermostat enabled (non-programmable only)

SETTING YOUR PROGRAM MODE SELECTION

7. Press OK 2 times, or until the small digit shows '17'
8. Press ▲▼ to change the large number for the following modes
 - 00 – Thermostat
 - 01 – Timer
9. Press ⓪ button to return to the home screen.



LCD DISPLAY



LCD DISPLAY

1. Day of the week – Displays the current day.
2. Temperature unit – Degrees Celsius (°C) or Fahrenheit (°F).
3. Hold left indicator – Displays when the HOLD FOR function is active along with the hours of hold remaining.
4. Holiday left indicator – Displays when the holiday function is active along with the number of days remaining.
5. Time period – Displays the current program period as set in the program of the thermostat.
6. Room/floor Temperature – Indicates the current sensor set up and point of temperature measurement.
7. Time – Displays the current time in 24 or 12 hour format.
8. Copy function – Enables the copying of times between days.
9. Keypad lock – Displays when the keypad is locked.
10. Override – Displays when a temporary override is set.
11. SET – Displays when any program or parameter is being changed.
12. Temperature – Displays the current sensor temperature.
13. Frost shield – Displays when the thermostat is in frost protection mode.

LCD DISPLAY

13. Frost shield – Displays when the thermostat is in frost protection mode.
14. Flame symbol – Displays when the thermostat is calling for heat.
15. Floor protection – Displays when the floor limit temperature is reached.
16. Main menu – Displays when setting schedule and feature parameters.

SETTING THE CLOCK

To set/change the clock and day, follow these steps. This is not applicable if the thermostat is in non-program mode.

1. Press MENU so the 'SET CLOCK' main menu item flashes.
2. Press OK to confirm. The current hour will flash
3. Press ▲▼ to change the hour and press OK.
4. Press ▲▼ to change the minute and press OK.
5. Press ▲▼ to change the day and press OK.
6. Press MENU to save the change and the ⏻ button to return to the home screen.

CHANGE/CHECK THE TEMPERATURE SETTINGS

To set/change the temperature (temporary override), follow these steps. Note, this only changes the temperature until the next program time.

1. Press ▲▼ once to view the current temperature setting.
2. Press ▲▼ repeatedly to change the thermostat in increments of 0.5°C.
3. Press OK to save the new temperature and return to the home screen. The thermostat will display 'OVERRIDE' to confirm a different temperature has been set.

The 🔥 symbol will show when the thermostat is calling for heat.

If a floor sensor has been installed, this temperature can be checked by pressing and holding the 'OK' button. The thermostat will return to the home screen after 10 seconds.

You can also change the temperature this way in the Frost, Holiday and Hold modes.

SCHEDULE AND COMFORT SETTINGS

The LunaStat comes pre-programmed with comfort levels set. These factory default settings are:

Weekday and weekend – 5/2 day programming				
Mon-Fri	5.30-20°C	8.00-16°C	16.00-20°C	22.00-16°C
Sat-Sun	6.30-20°C	9.00-16°C	16.00-20°C	23.00-16°C

Monday to Sunday – 7 day programming				
Mon-Sun	5.30-20°C	8.00-16°C	16.00-20°C	22.00-16°C

To set/change the program comfort levels, follow these steps.

1. Press MENU to display the main menu items.
2. Press MENU until the 'SCHEDULE' main menu item flashes.
3. Press OK to confirm. 'MON ~ FRI' will flash.
4. Press ▲▼ to select different day(s) and press OK.
 - 'Period 1' is displayed and the corresponding hour flashes.

SCHEDULE AND COMFORT SETTINGS

5. Press ▲▼ to change the hour for 'Period 1'.
6. Press OK to confirm and minute for 'Period 1' flashes.
7. Press ▲▼ to change the minute for 'Period 1'.
8. Press OK to confirm and temperature for 'Period 1' flashes.
9. Press ▲▼ to change the temperature for 'Period 1'.
10. Press OK to confirm.
 - 'Period 2' is displayed and the corresponding hour flashes.
11. Repeat steps 5 to 10 for Periods 2, 3 & 4.
12. After pressing OK for 'Period 4', 'COPY TO' will flash.
 - a. Press ▲▼ to cancel copy function and set other days manually.
 - b. Press OK to apply copy function.

Note: When set to 5+2 day programming, pressing OK skips points c and d.
 - c. Press ▲ to select a day, press ▼ to deselect a day.

Note: Selected days are shown without flashing.
 - d. Press OK to save the copy and LunaStat returns to main menu.
13. Repeat steps 2-12 to set and/or copy further days.
14. Press MENU to save the change and the ⏪ button to return to the home screen.

SETTING THE HOLIDAY MODE

To set/change the holiday mode, follow these steps (this is not applicable in non-programmable mode.)

1. Press MENU until the 'SET HOLIDAY' main menu item flashes.
2. Press OK to confirm. The 'HOLIDAY LEFT' symbol will show and the number of days will flash.
3. Press ▲▼ to change the number of days the holiday should be set for (Note: Holiday starts from 00:00 of the next day and ends on 23:59 of the last day).
4. Press OK to confirm and the temperature for the holiday will flash.
5. Press ▲▼ to change the temperature for the holiday period.
6. Press MENU to save the holiday and the ⏪ button to return to the home screen.

Note: *Setting holiday mode will remove any hold mode set - see page 18.*

SETTING THE HOLD MODE

To set/change the hold mode, follow these steps. **Note:** This function is also applicable in non-programmable mode.

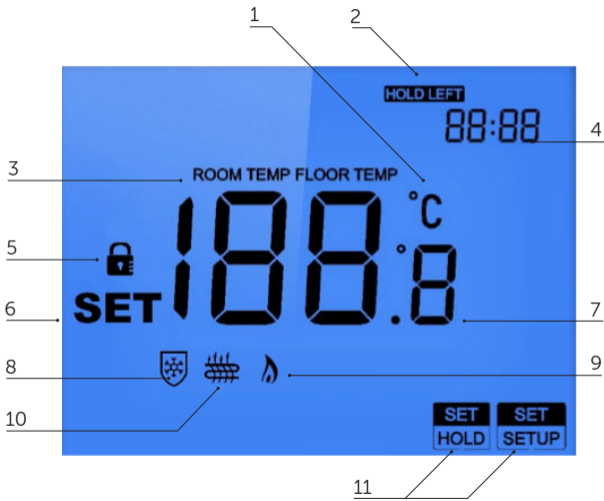
1. Press MENU until the 'SET HOLD' main menu item flashes.
2. Press OK to confirm. The 'HOLD LEFT' symbol will show and the number of hours flash.
3. Press ▲▼ to change the number of hours the hold should be set for.
4. Press OK to confirm and the temperature for the hold period flashes.
5. Press ▲▼ to change the temperature for the hold period.
6. Press MENU to save hold period and the ⏪ button to return to the home screen.

Note: *Hold mode cannot be set if there is a holiday mode already set.*

OPTIMUM START

The LunaStat will typically turn the heating on at the time set in the program. With the optimum start feature enabled, the LunaStat will display a flashing 🔥 symbol and turn the heating on beforehand in order to reach the required temperature for the time set. See page 41 for further details and page 44 for details on enabling this optional feature.





LCD DISPLAY

NON-PROGRAMMABLE MODE

1. Temperature unit – Degrees Celsius (°C) or Fahrenheit (°F).
2. Hold left indicator – Displays when the HOLD FOR function is active along with the hours of hold remaining.
3. Room/floor temperature – Indicates the current sensor set up and point of temperature measurement.
4. Time – Displays the current hold time left when in hold mode.
5. Keypad lock – Displays when the keypad is locked.
6. SET – Displays when any program or parameter is being changed.
7. Temperature – Displays the current sensor temperature.
8. Frost shield – Displays when the thermostat is in frost protection mode.
9. Flame symbol – Displays when the thermostat is calling for heat.
10. Floor protection – Displays when the floor limit temperature is reached.
11. Main menu – Displays when setting schedule and parameters.

CHANGE/CHECK THE TEMPERATURE SETTING

To set/change the temperature, follow these steps.

1. Press ▲▼ once to view the current temperature setting.
2. Press ▲▼ repeatedly to change the thermostat in increments of 0.5°C.
3. Press OK to save the new temperature and return to the home screen.

The 🔥 symbol will show when the thermostat is calling for heat.

If a floor sensor has been installed, this temperature can be checked by pressing and holding the 'OK' button. The thermostat will return to the home screen after 10 seconds.

You can also change the temperature this way in the Frost and Hold modes.

SETTING THE HOLD MODE

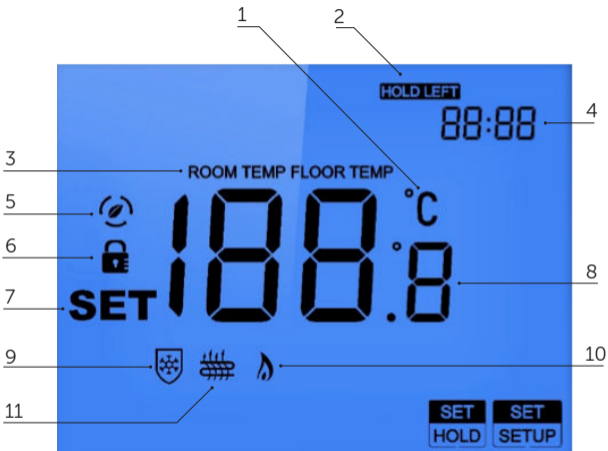
To set/change the hold mode, follow these steps. **Note:** This function is also applicable in non-programmable mode.

1. Press MENU until the 'SET HOLD' main menu item flashes.
2. Press OK to confirm. The 'HOLD LEFT' symbol will show and the number of hours flash.
3. Press ▲▼ to change the number of hours the hold should be set for.
4. Press OK to confirm and the temperature for the hold period flashes.
5. Press ▲▼ to change the temperature for the hold period.
6. Press MENU to save hold period and the ⏻ button to return to the home screen.



LCD DISPLAY

NON-PROGRAMMABLE SETBACK MODE



1. Temperature unit – Degrees Celsius (°C) or Fahrenheit (°F).
2. Hold left indicator. – Displays when the HOLD FOR function is active along with the hours of hold remaining.
3. Room/floor temperature – Indicates the current sensor set up and point of temperature measurement.
4. Time – Displays the current hold time left when in hold mode.
5. Setback – Is displayed when LunaStat is in temperature setback.
6. Keypad lock – Displays when the keypad is locked.
7. SET – Displays when any program or parameter is being changed.
8. Temperature – Displays the current sensor temperature.
9. Frost shield – Displays when the thermostat is in frost protection mode.
10. Flame symbol – Displays when the thermostat is calling for heat.
11. Floor protection – Displays when the floor limit temperature is reached.

CHANGE/CHECK THE TEMPERATURE SETTING

To set/change the temperature, follow these steps.

1. Press ▲▼ once to view the current temperature setting.
2. Press ▲▼ repeatedly to change the thermostat in increments of 0.5°C.
3. Press OK to save the new temperature and return to the home screen.




The 🔥 symbol will show when the thermostat is calling for heat.

If a floor sensor has been installed, this temperature can be checked by pressing and holding the 'OK' button. The thermostat will return to the home screen after 10 seconds.

You can also change the temperature this way in the Frost and Hold modes.

SETBACK TEMPERATURE

The LunaStat operates a built in temperature setback when a timer/programmer is connected to the LunaStat. This setback is adjustable using the following steps.

1. Press and hold the  button until the screen goes blank
2. Press and hold the menu button until the 'SET SETUP main menu item flashes.
4. Press OK 16 times, or until the small digit shows '16'.
5. Press  to change the large number for the following modes
03 – 05 = 3°C-5°C
6. Press the  button to return to the home screen.






FEATURES AVAILABLE ON ALL PROGRAM MODES

FROST PROTECTION


To set the thermostat in frost protection mode press the  button. The  symbol will display indicating that the thermostat is in frost mode and set to a lower temperature – factory default of 12°C

KEYPAD LOCK

The LunaStat keypad can be locked to prevent any accidental adjustment or tampering of the thermostat.

Press and hold   until the  symbol shows. Keypad is now locked. Press and hold   for 10 seconds again to unlock the LunaStat.

FLOOR LIMIT PROTECTION

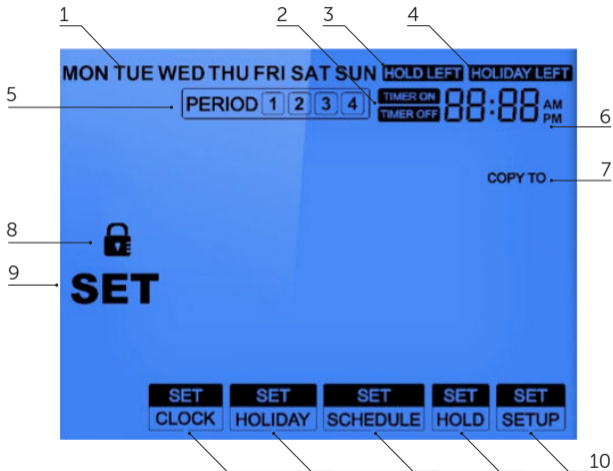
If a floor sensor has been installed with the LunaStat, this enables a floor limit temperature to be set and controlled through the optional features, explained on pages 41-43. This will stop the heating when the floor temperature reaches this point and will show the  symbol.

SINGLE CHANNEL TIMER MODE (5+2 AND 7 DAY)



LCD DISPLAY

SINGLE CHANNEL TIMER MODE (5+2 AND 7 DAY)



1. Day of the week – Displays the current day.
2. Timer on/timer off status.
3. Hold left indicator – Displays when the HOLD FOR function is active along with the hours of hold remaining.
4. Holiday left indicator – Displays when the holiday function is active along with the number of days remaining.
5. Time period – Displays the current program period as set in the program of the thermostat.
6. Time – Displays the current time in 24 or 12 hour format.
7. Copy function – Enables the copying of times between days.
8. Keypad lock – Displays when the keypad is locked.
9. SET – Displays when any program or parameter is being changed.
10. Main menu – Displays when setting schedule and parameters.

SETTING THE CLOCK

To set/change the clock and day, follow these steps. This is not applicable if the thermostat is in non-program mode.

1. Press MENU so the 'SET CLOCK' main menu item flashes.
2. Press OK to confirm. The current hour will flash
3. Press ▲▼ to change the hour and press OK.
4. Press ▲▼ to change the minute and press OK.
5. Press ▲▼ to change the day and press OK.
6. Press MENU to save the change and the ⓪ button to return to the home screen.

SETTING TIMER ON AND OFF TIMES

The LunaStat comes pre-programmed with timer on and off times set. These factory default settings are.

Daily programming				
	Period 1	Period 2	Period 3	Period 4
On time	5:30	11:30	17:00	20:00
Off time	7:00	12:00	18:00	22:00

SETTING TIMER ON AND OFF TIMES

To set/change the program comfort levels, follow these steps.

1. Press MENU to display the main menu items.
2. Press MENU until the 'SCHEDULE' main menu item flashes.
3. Press OK to confirm. 'MON ~ FRI' will flash.
4. Press ▲▼ to select different day(s) and press OK.
 - a. 'Period 1' is displayed and the On hour flashes.
5. Press ▲▼ to change the On hour for 'Period 1'
6. Press OK to confirm and the On minute for 'Period 1' flashes.
7. Press ▲▼ to change the On minute for 'Period 1'
8. Press OK to confirm and the Off hour for 'Period 1' flashes
9. Press ▲▼ to change the Off hour for 'Period 1'
10. Press OK to confirm and the Off minute for 'Period 1' flashes
11. Press ▲▼ to change the Off minute for 'Period 1'
12. Press OK to confirm.

SETTING TIMER ON AND OFF TIMES

- a. 'Period 2' is displayed and the On hour flashes
13. Repeat steps 5 to 12 for Periods 2, 3 & 4.
14. After pressing OK for 'Period 4', 'COPY TO' will flash.
 - a. Press ▲▼ to cancel copy function and set other days manually
 - b. Press OK to apply copy function and press ▲ to select a day, press ▼ to deselect a day

Note-Each day is selected when not flashing.

 - c. Press OK to save the copy and advance to the next day.
15. Repeat steps 5-14 for each day.
16. Press MENU to save the change and the ⓪ button to return to the home screen.

SETTING THE HOLIDAY MODE

To set/change the holiday mode, follow these steps.

1. Press MENU to display the main menu items.
2. Press MENU until the 'SET HOLIDAY' main menu item flashes.
3. Press OK to confirm. The 'HOLIDAY LEFT' symbol will show and the number of days flash.
4. Press ▲▼ to change the number of days the holiday should be set for (Note: Day one is from 00:00 of the next day).
5. Press MENU to save the holiday and the ⏪ button to return to the home screen.

Note: *If holiday mode cannot be set, there is a hold mode already set.*

SETTING THE HOLD MODE

To set/change the hold mode, follow these steps. Note: This function is also applicable in non-programmable mode.

1. Press MENU until the 'SET HOLD' main menu item flashes.
2. Press OK to confirm. The 'HOLD LEFT' symbol will show and the number of hours flash.
3. Press ▲▼ to change the number of hours the hold should be set for.
4. Press MENU to save hold period and the ⏻ button to return to the home screen. **Note:** *Hold mode cannot be set if there is a holiday mode already set.*

OVERRIDING OFF DURING ON TIME ON PERIOD

To override the timer to go off partway through an on period

1. Press the ⏻ button-The screen will go blank with just the 'Timer Off' icon showing. This will remain until the next timer on period where the LunaStat will automatically turn back on and resume with the programmed schedule. If you wish to cancel the override off, press the ⏻ button again and the LunaStat will turn back on and resume with the programmed schedule.

FACTORY RESET

Should the LunaStat need to be reset to factory default settings, follow these steps.

Press and hold the  button to turn the LunaStat off.

Press and hold  and .

The LunaStat will display all icons on the screen for 2 seconds. The Factory reset is now complete.


OPTIONAL FEATURES EXPLAINED

The following settings are optional parameters to change how the thermostat works and what it displays. In many cases, these need not be adjusted.

Feature 01 – Sensor Selection: The LunaStat has the option of using its own built-in air sensor (default), a remote air sensor, floor sensor or a combination of these sensors for floor limit protection when both an air and floor sensor are used.

Feature 02 – Time Format: The LunaStat has the option of displaying the time in 24 (default) and 12 hour format.

Feature 03 – Temperature Format: The LunaStat has the option of displaying the temperature in Celsius °C (default) and Fahrenheit °F.

Feature 04 – Frost Protection: The LunaStat has the option to maintain frost protection even when the thermostat is off, as long as power is still maintained to the thermostat. When the thermostat is off it will continue to show  symbol. This feature is enabled by default.

Feature 05 – Program Mode: The LunaStat has the option to operate as a non-programmable thermostat or a programmable thermostat with 5/2 day or 7 day programming. Default is programmable 5/2 day.

OPTIONAL FEATURES EXPLAINED

Feature 06 – On/off status: The LunaStat can be set to come on or stay off when power is turned on to the thermostat. Default is auto on/off from last power off.

Feature 07 – Temperature calibration: The LunaStat has the option to adjust the sensor calibration by +/- 10°C in 0.5°C increments. Default is 0°C.

Feature 08 – Switching differential: The LunaStat has the option to changing the switching differential between 1 and 3°C. Default is 1°C.

Feature 09 – Maximum temperature: The LunaStat has the option to adjust the maximum temperature set point. This can be used as a limit on how high the heating is set to. This range is from 2°C to 49.5°C. Default is 35°C.

Feature 10 – Minimum temperature: The LunaStat has the option to adjust the minimum temperature set point. This can be used as a limit on how low the heating is set to. This range is from 0°C to 47.5°C. Default is 5°C.

Feature 11 – Output delay: The LunaStat has the option to delay


OPTIONAL FEATURES EXPLAINED

the switch output to prevent rapid switching on and off. This can be set from 00 – 15 minutes. Default is 00.

Feature 12 – Optimum start: The LunaStat has the option to set an optimum start of up to 3 hours. See page 19 for more detail. Default is 0 hours.

Feature 13 – Rate of change: For information only.

Feature 14 – Floor temperature limit: The LunaStat has the option to adjust the floor limit temperature used when a floor sensor is installed and connected. This range is from 20°C to 60°C. Default is 28°C.

Feature 15 – Setback enable: The LunaStat has the option to be programmed as a setback thermostat controlled by a separate programmer. The programmer switched live should be connected to the  terminal. Program mode (Feature 5) needs to be set to 00 (non-programmable) to enable this feature.

Feature 16 – Setback temperature: The LunaStat has the option to adjust the setback temperature from 3°C to 5°C. Default is 4°C.

Feature 17 – Thermostat or timer: The LunaStat has the option to operate as a thermostat or as a single channel timer.

OPTIONAL FEATURES EXPLAINED





Feature 18 - Floor Sensor Calibration: -10°C to $+10^{\circ}\text{C}$

Feature 19 - System Cycle Feature (SCF): Enabling this option will call for heat for 3mins on every Sunday at 8am.

CHANGING THE OPTIONAL FEATURES

CHANGING THE OPTIONAL FEATURES

To change the optional features on the LunaStat follow these steps, selecting the required feature number and setting value.

1. Press and hold the  button until the screen goes blank
2. Press and hold the menu button until the 'SET SETUP' main menu item flashes.
3. Press OK to confirm. The small digits display the feature number, the large digits display the setting value for the feature.
4. Press OK to cycle through the feature numbers.
5. Press   to change setting number for each feature.
6. Press the  button twice to return to the home screen.

OPTIONAL FEATURE TABLE

Feature No.	Description	Setting No.
01	Sensor selection	00=Internal air sensor (Default) 01=Remote air sensor 02=Remote floor sensor 03=Internal air and remote floor sensor 04=Remote air and remote floor sensor
02	Time format	12=12 hour, 24=24 hour (Default)
03	Temperature format	00=°C (Default), 01=°F
04	Frost protection when off	00=Enabled (Default) 01=Disabled
05	Program mode	00=Non-programmable 01=5/2 day programmable (Default) 02=7 day programmable
06	On/off status	00=Off when powered up 01=On when powered up 02=Auto memory when power lost (Default)
07	Temperature calibration	-10°C ~ +10°C (-18°F ~ +18°F) (Default =0)
08	Switching differential	1°C ~ 3°C (2°F ~ 5°F) (Default =1°C)
09	Maximum temperature	2°C ~ 49.5°C (36°F ~ 121°F) (Default =35°C)
10	Minimum temperature	0°C ~ 47.5°C (32°F ~ 117°F) (Default =5°C)
11	Output delay	00 ~ 15 minutes (Default = 00)

OPTIONAL FEATURE TABLE

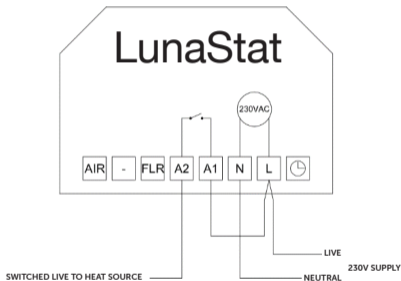
12	Optimum start	00 ~ 03 hours (Default = 00)
13	Rate of change	Information only, non-adjustable
14	Floor temperature limit	20°C ~ 60°C (68°F ~ 140°F) (Default =28°C)
15	Setback enable	00=OFF (Default) 01=ON
16	Setback temperature	3°C ~ 5°C (5°F ~ 9°F) (Default =4°C)
17	Thermostat or timer mode	00=Thermostat 01=Timer
18	Floor Sensor Calibration	-10°C to +10°C in 1°C steps (0.0°C default)
19	System Cycle Feature	00 = OFF (default), 01 = ON

Use the following table to determine and resolve error codes.

Code	Fault/Error	Solution
E0	Internal sensor fault	Replace thermostat
E1	Remote floor sensor fault	Check programming for sensors – optional feature 01 Check floor sensor connections Check for damage on floor sensor or incorrect floor sensor resistance
E2	Remote air sensor fault	Check programming for sensors – optional feature 01 Check air sensor connections Check for damage on air sensor or incorrect air sensor resistance
HI	Temperature higher than 55°C	Move thermostat to a cooler area Check for influence from external heat source Check LunaStat calibration
LO	Temperature lower than 0°C	Move thermostat to warmer area Check for influence from draught or external cooling Check LunaStat calibration Start heating to increase room temperature.

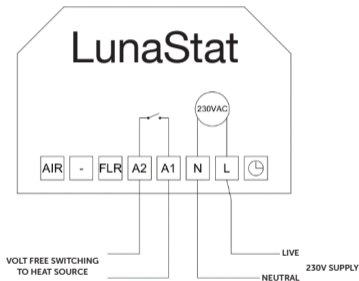
WIRING DIAGRAMS

LunaStat basic wiring diagram with switch live for heat item.



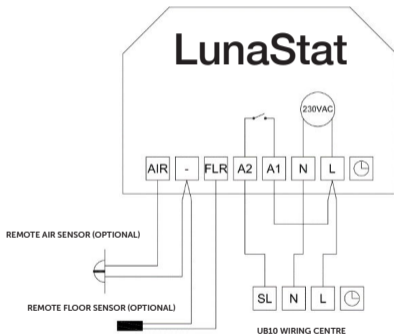
This product must only be installed in accordance with local installation regulations and by a qualified electrician.

LunaStat wiring diagram with volt free switching for heat item.



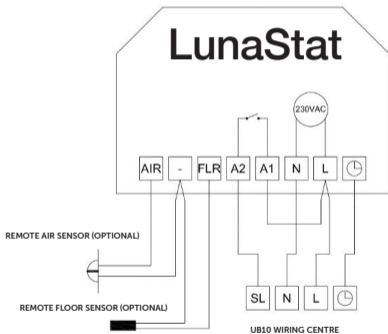
This product must only be installed in accordance with local installation regulations and by a qualified electrician.

LunaStat wiring diagram connecting to UB10 Wiring Centre.



This product must only be installed in accordance with local installation regulations and by a qualified electrician.

LunaStat basic wiring diagram in setback mode connecting to UB10 Wiring Centre.



This product must only be installed in accordance with local installation regulations and by a qualified electrician.

Need more information or advice?
Contact our team of highly trained experts today.



01707 649 118



sales@ambienteufh.co.uk



www.ambienteufh.co.uk

LUNASTAT THERMOSTAT MANUAL

ambiente[®]