



STRATA_HEAT™

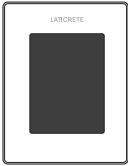
Smart LCD Thermostat



Operating Manual



Pack Contents



x1



x1



x2



x1

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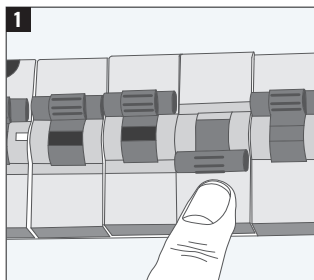
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Safety Information

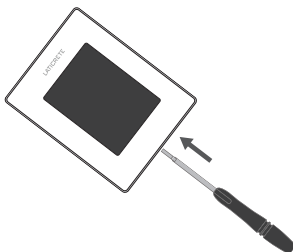
- ❑ The STRATA_HEAT™ Smart LCD Thermostat must be installed by a qualified electrician. It requires a permanent 110V – 240V AC, 60Hz supply. The STRATA_HEAT Smart LCD Thermostat contains a Class A GFCI with 5mA trip level and wiring must conform to local electrical code.
- ❑ Isolate the STRATA_HEAT Smart Thermostat from the mains supply throughout the installation process.
- ❑ Install the STRATA_HEAT Smart LCD Thermostat in an area with good ventilation. It should not be beside a window/door, in direct sunlight or above another heat generating device (e.g. radiator or TV).
- ❑ Ensure the distance from your router to the STRATA_HEAT Smart LCD Thermostat is not excessive. This will ensure the wireless connection is not subject to range or interference issues once installed.
- ❑ Conduits are only required where it is mandated by state or provincial code. Please refer to local electrical code for compliant applications.
- ❑ The STRATA_HEAT Smart LCD Thermostat and its packaging are not toys; do not allow children to play with them. Small components and packaging present a risk of choking or suffocation.
- ❑ The STRATA_HEAT Smart LCD Thermostat is suitable for indoor use only. It must not be exposed to moisture, vibrations, mechanical loads or temperatures outside of its rated values.
- ❑ For safety and licensing reasons, unauthorised change and/or modification of the STRATA_HEAT Smart LCD Thermostat is not permitted.

Step 1 – Installation

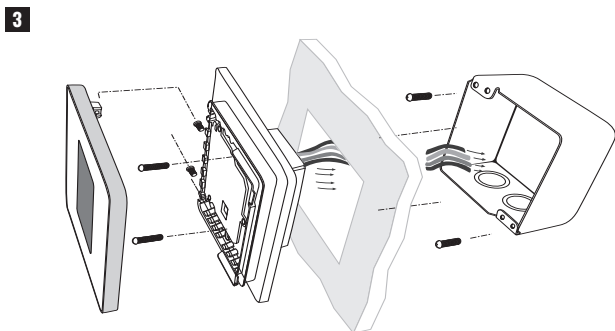


Isolate the STRATA_HEAT Smart LCD Thermostat and supply from the mains supply.

2



Unclip the display from the power base

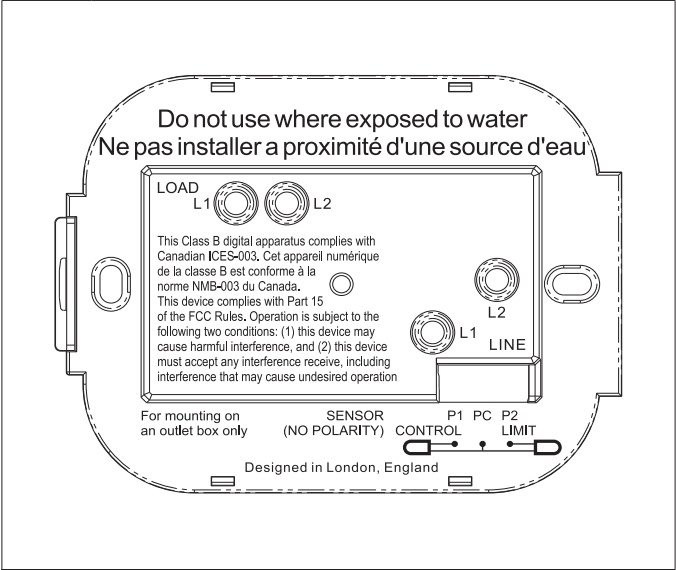


Install a 3-1/2" (89 mm) deep single gang or 2-gang box with mud ring in your preferred thermostat location. Pull wires (heater, supply and sensor) through gang box and complete terminal wiring.

Step 2 – Wiring Connections

WARNING!

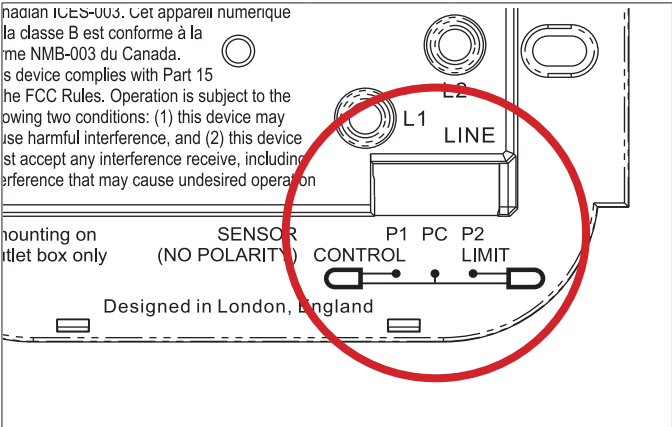
The STRATA_HEAT™ Smart LCD Thermostat must be installed by a qualified electrician in accordance with National Electrical Code.



Wiring Connections	
LOAD L1 & L2	Heater Load Max.15A (1800W/120V, 3600W/240V)
LINE L1	Supply Live (120 V)
LINE L2	Supply Neutral (120 V) / Supply Live (240 V)
P1 & PC	Probe 1 – Floor/Air Control Sensor (No Polarity) Floor or air temperature reading for scheduled control RECOMMENDED
P2 & PC	Probe 2 – Limit Sensor (No Polarity)
See Table 1.0 for thermostat use cases	

NOTE: The function of Probe 1, Probe 2 from Control/Limit Sensor can be swapped in Advanced Settings; Sensors & Application.

Table 1.0 – Thermostat use cases

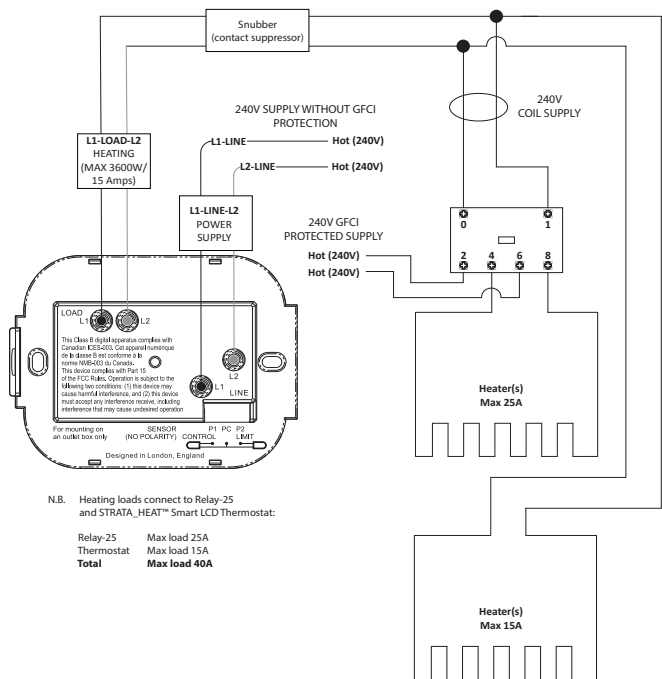


#	Use Case	Control	Limit Sensor
1	Thermostat IN room Air temperature schedule No floor limit RECOMMENDED	Internal Air Sensor	None
2*	Thermostat IN/OUT of room Floor temperature schedule Floor limit RECOMMENDED	P1 & PC Floor Sensor	None
3	Thermostat IN room Floor temperature schedule Air limit	P1 & PC Floor Sensor	Internal Air Sensor
4	Thermostat OUT of room Air temperature schedule No floor limit	P1 & PC Air Sensor	None
5**	Thermostat IN room Air temperature schedule Floor limit	Internal Air Sensor	P2 & PC Floor Limit
6	Thermostat IN/OUT of room Floor temperature schedule Floor limit	P1 & PC Floor Sensor	P2 & PC Floor Limit
7	Thermostat OUT of room Air temperature schedule Floor limit	P1 & PC Air Sensor	P2 & PC Floor Limit
8	Thermostat IN/OUT of room Regulator schedule No limit	Reg.	None
9	Thermostat IN room Regulator schedule Air limit	Reg.	Internal Air Sensor
10	Thermostat IN/OUT of room Regulator schedule No limit	Reg.	None
11	Thermostat IN/OUT of room Regulator schedule Floor limit	Reg.	P2 & PC Floor Limit
12	Thermostat IN/OUT of room Regulator schedule Floor limit	Reg.	P2 & PC Floor Limit

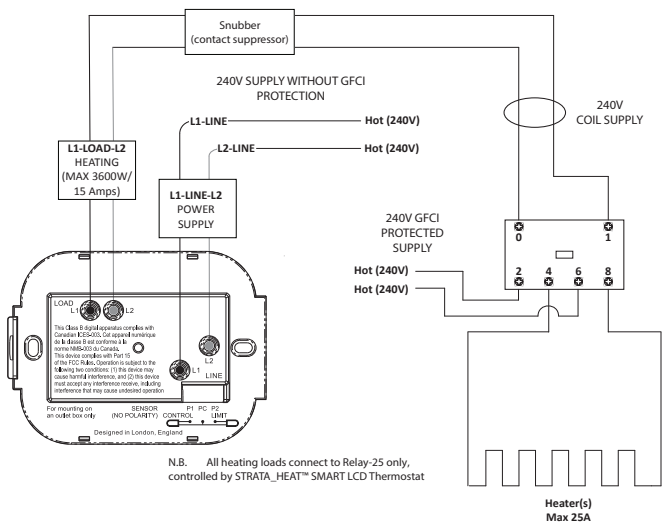
2* Recommended when thermostat is **OUT** of the heated room

5** Recommended when thermostat is **IN** the heated room

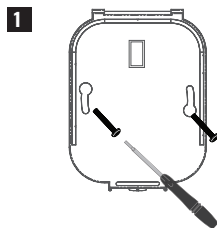
NOTE: For thermostat use cases 6 & 7 an additional sensor will be required.



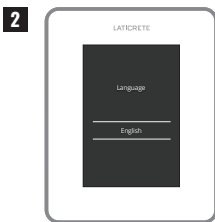
Heating Load connected to Relay 25 – Max. 25 Amps



Step 3 – Thermostat Mounting



Insert fixing screws through mounting holes of the power base and tighten.



Re-attach the display to the power base. You can now restore power to the circuit and power up the STRATA_HEAT™ Smart LCD Thermostat. Follow the on screen instructions to set up your system. Once set up a QR Code will appear.

NOTE: If an external relay or contactor relay has been installed please set System Type as **Electric Relay**.

Step 4 - Initial Setup



Download the MySTRATA_HEAT App. The App will guide you through the setup of your thermostat. You will have to set up your house location and then the room your new thermostat is located.



A location needs to be setup before a room can be configured and the thermostat registered. Have details of your current energy tariff and pricing to hand, as these will be required if you wish to use the energy monitoring features.



With a location now setup, the next step is to register a room in which your thermostat is located. This is the heating zone your thermostat will control. Select the thermostat with QR code as shown.



Scan the QR Code on the thermostat screen. Follow the instructions in the App to complete setup.

NOTE:

Before scanning the QR code ensure the device you are using for the WiFi connection is set to the 2.4GHz band, as the STRATA_HEAT™ Smart LCD Thermostat only supports connections at 2.4GHz

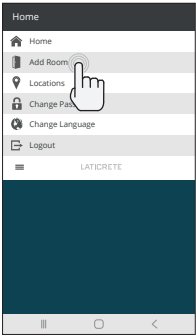
NOTE:

To display the Network Setup QR code on the STRATA_HEAT™ Smart LCD Thermostat if it has returned to the home screen, navigate to: Menu > Settings > Network > Network setup

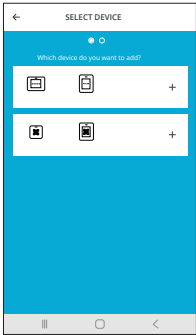
Step 4 – Initial Setup

Registering and/or connecting the Wi-Fi Thermostat.

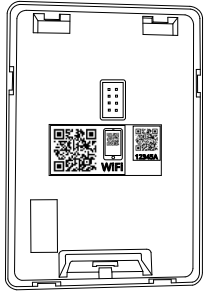
When registering and/or connecting the Smart LCD thermostat to your home or office network it's important to know that the process is timed. Once you initiate the process, the unit will be in pairing mode for only 1 minute. If the unit has been used previously you will need to place the unit in pairing mode. This is done by first opening the MySTRATA_HEAT app from your phone.



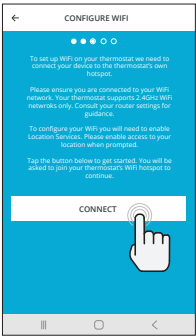
Click 3-lines and then choose 'Add Room'.



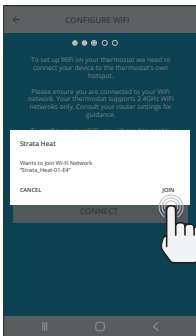
Choose QR-Code reader option.



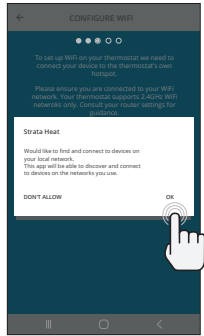
Scan QR-Code from Decal or remove faceplate.



Immediately click connect when unit is in pairing mode.



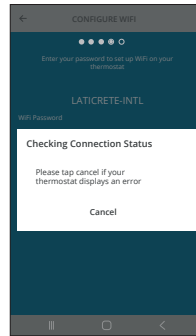
Accept by clicking 'Join'.



Accept by clicking 'OK'.



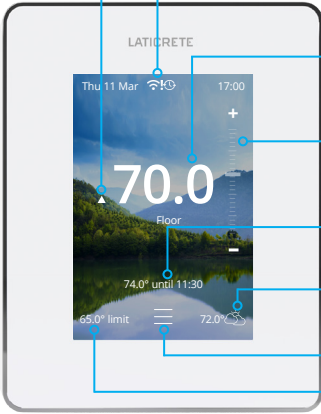
Enter Network Password.



Unit will sync the connection.

The unit should now be connected to both the home network and the app. You should now be able to control the unit via the online portal as well as via the app.

Welcome to the STRATA_HEAT™ Smart LCD Thermostat



The thermostat screen displays a large temperature of 70.0°F. Above it is a heating indicator (flame icon). Below the temperature is a floor sensor icon and a temporary override slider. At the bottom, there's a weather forecast for 72.0°F and a menu icon. The background shows a scenic landscape.

- Heating Indicator**
Displays when heating is active
- Error Messages**
See Troubleshooting Page
- Current Floor/Air temperature**
Floor will be displayed if floor sensor is installed and switched on
- Temporary Override**
Use the slider or press the +/- icons to set a temporary override until next heating period
- Target Temperature**
Temperature you wish the thermostat to achieve
- Weather**
7-day forecast for your area
- Menu**
- Air/Floor limit**
Will only be displayed when in floor mode and an air limit is set.

Getting Started



How to quickly change the temperature

Use the slider or press the +/- icons to change your target temperature.

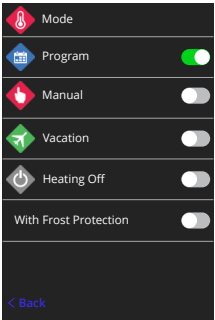
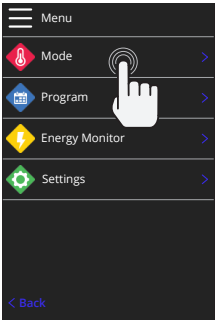
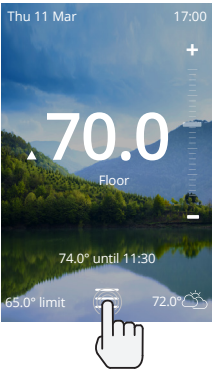
If in “Program” mode this will set a temporary override until your next heating period.

If in “Manual” mode this will set a fixed target temperature.

Once the target temperature is set above current floor/air temperature the heating indicator will appear.

How to quickly change mode

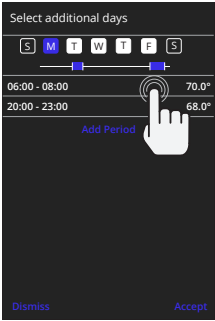
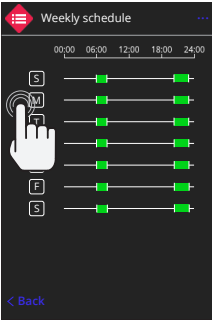
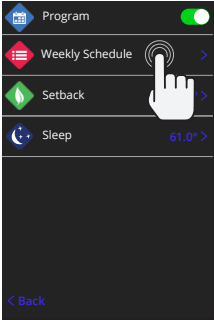
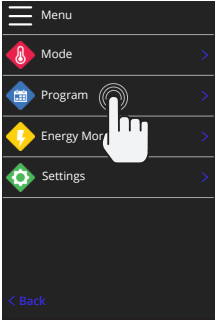
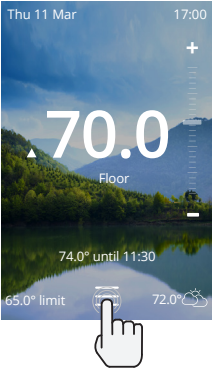
Mode select allows you to quickly change from program, manual or vacation modes. You can also switch “Frost Protection” on or simply switch the “Heating Off” from here. Frost protection will ensure that the floor/air temperature does not drop below 44.0°F.



Heating

How to set a program

Setting a **“Program”** allows you to set comfort temperatures at set times throughout the day. Days can be programmed individually, all days the same or weekdays as a block and weekends as a block, the choice is yours.



To **“Select additional days”** press the days of the week and the squares will be highlighted in white as shown and will follow the programmed heating schedule.

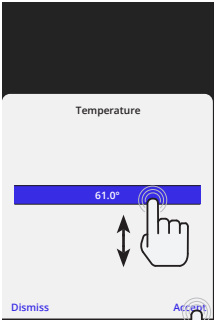
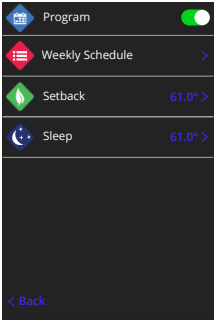
Once you are happy press **“Accept”** to save the heating schedule. This will return you to the previous screen to repeat as necessary.

NOTE: For tailor-made preset heating schedules for different room types press the three dots “...” on the weekly schedule page.

Setback / Sleep Temperature

The **“Setback”** temperature is a lower energy efficient temperature when outside of a heating period.

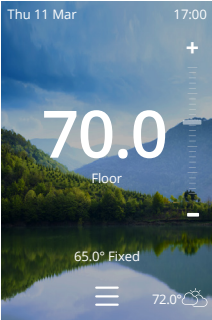
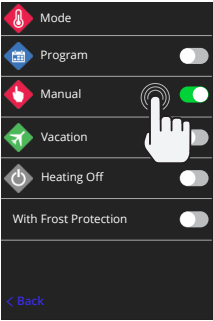
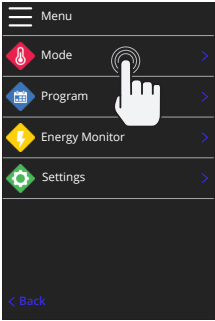
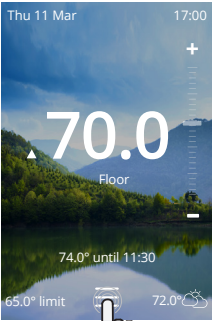
The **“Sleep”** temperature applies between the last scheduled comfort period and the start of the next day’s first scheduled comfort period.



Heating

How to set into Manual Mode

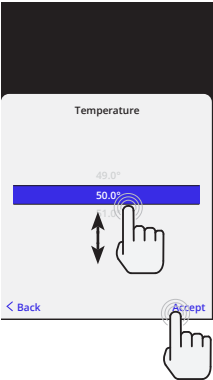
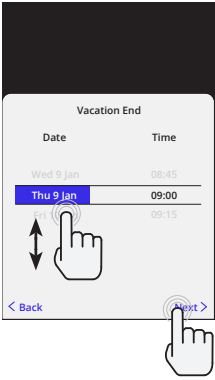
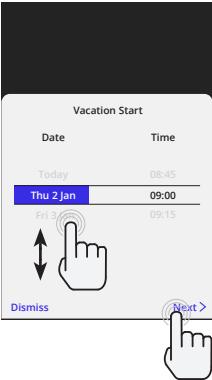
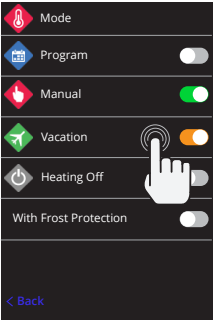
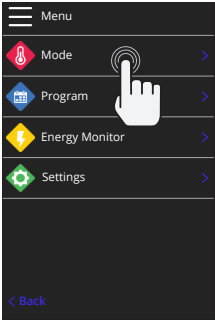
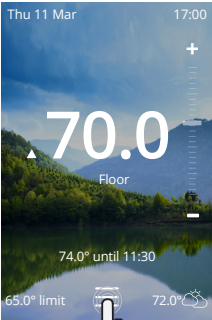
Setting into **“Manual”** mode allows you to set a fixed target temperature for the thermostat to achieve. The thermostat will continue to maintain this temperature until another operating mode or temperature is selected.



Heating

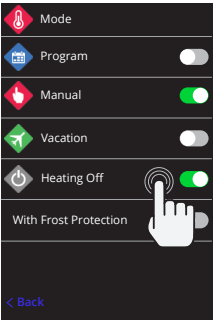
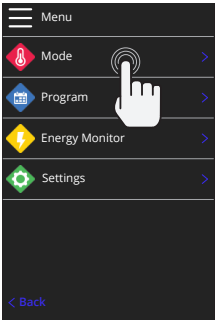
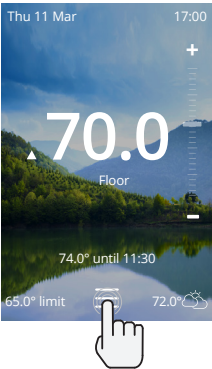
How to set into Vacation Mode

“Vacation Mode” allows you to override regular scheduling with a lower fixed temperature over a set time to save energy and avoid thermostat re-programming.



How to switch “Heating Off”

The below will switch the heating off until you cancel it by pressing **“Heating Off”** on the homescreen or going into mode select and pressing the **“Heating Off”** slider.

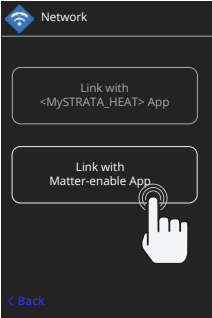
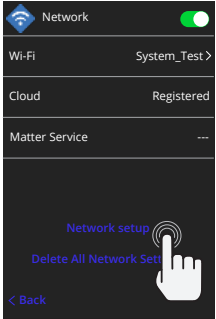
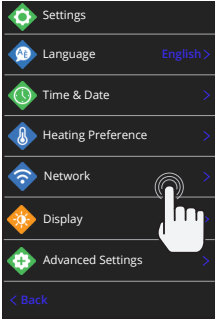
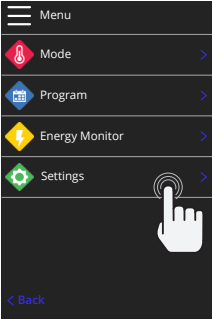


How to Connect to Matter enabled App

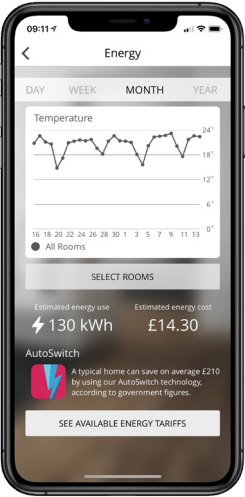


matter

If you want to connect your Smart LCD thermostat to a Matter enabled app, go to **“network setup”**, select **“connect to Matter app”** and use your Matter enabled app to scan the QR code displayed on the Smart LCD thermostat screen.



Energy Monitor

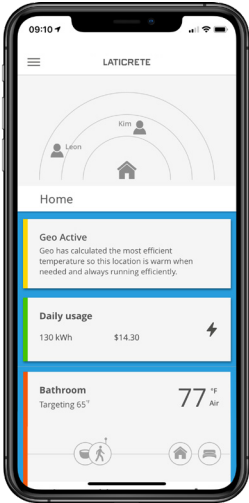


How Energy Monitor works

The STRATA_HEAT™ Smart LCD Thermostat learns how you use your system and how your house reacts to heating and weather. Using the MySTRATA_HEAT App, energy monitoring will show the amount of energy consumed over a certain time period. This will be calculated through system power multiplied by efficiency and run time.

You will need to enter the power of your system, and in some cases, the efficiency. If you do not know these, speak to your installer or system manufacturer.

Geo Location Settings

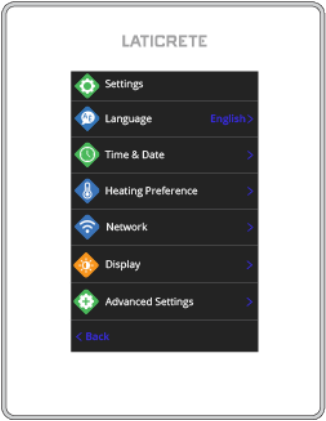


How Geo Location works

Geo is a unique technology developed by LATICRETE and built into the MySTRATA_HEAT App that uses an advanced algorithm to understand the most efficient heat settings for your home.

Working automatically; it learns your routines and location through background communication with your smartphone and lowers temperatures when you are away, only rising them up to your ideal comfort temperature in time for your arrival home.

Geo will operate when the thermostat is in the program or manual run modes. It is turned off by default. Use the MySTRATA_HEAT App to switch Geo on.



Language Settings	Change the thermostat language	
Time & Date	Change the Time and Date	
	Daylight savings	On/Off
	24-hour time	On/Off
Heating Preference	Temperature unit	°C/°F
	Open window detection	On/Off
	The windows open detection feature is designed to switch off heating to save energy when the thermostat detects that a window or door has been opened and, the outside air temperature is significantly below the indoor temperature.	
	Adaptive Learning (Early Start)	On/Off
	Adaptive learning will use the historic heating/cooling rates for the time of day, historic external temperatures and the forecast external temperatures, to work out the heating start time in order to reach the comfort time at the start of the comfort period. It will only work in Program Mode.	
Network	WiFi Connection	On/Off
	It is possible to set a new WiFi connection from here. The current network connection can also be viewed from this menu, including the signal strength.	
Display	Background	Light Dark Random
	Choose the background image of the thermostat. Random is an image selected from Laticrete's collection.	
	Standby style	Temperature Time Minimalist
	Choose what will be displayed when the thermostat goes into standby. Temperature will display current temperature; Time will display the current time; Minimalist will show neither.	
	Brightness	Active Standby Night
	Adjust the brightness of the thermostat screen when in Active, Standby or Night Mode.	

Settings

Display, cont'd	Night period	Set the Start and End period
	This is the time when you usually go to bed at night and wake up in the morning. The brightness of "Night" mode will begin and end using this time.	
	Screen lock	On/Off
	Locks the thermostat screen to prevent any unauthorised changes. Requires a 4 digit code to access the menu or make changes.	

Advanced Settings

Advanced settings	Sensors & Application	Internal Air Sensor	Offset +/- 10°
		Probe 1 Connected	On/Off
			Type 5, 10, 15, 33, 100K Offset +/- 10°
		The Smart LCD thermostat uses a 10K sensor. However, if using a Smart LCD thermostat to replace an existing thermostat you must change to the correct sensor type.	
		Probe 2 Connected	On/Off
			Type 5, 10, 15, 33, 100K Offset +/- 10°
		Swap Probe Usage	
		The function of Probe 1, Probe 2 from Control/ Limit Sensor can be swapped here.	
		Floor thermostat (Probe 1 On, Probe 2 Off. See Table 1.0 for alternative thermostat use cases)	Control Floor Remote Air Regulator Limit None/Air
		Choose to switch the method of control for the sensor; floor sensor, remote air sensor if not installed underneath the floor or regulator mode.	
		Regulator Mode; Heating is on for X% out of control cycle (default 10mins). Heating is off for remaining time.	
		Floor type*	Tile/Stone Laminate Carpet Wood Vinyl Other
		Choose the floor type of your installation. This will apply different temperature and overheat limits to the thermostat. * Not applicable if conventional heating system was selected.	

Advanced Settings

Advanced settings	Temperature limits	Set Min./Max. settable temperature limits
	Overheat limit	Set Overheat air limit if floor sensor has been installed
	Control Period	Set between 10 - 60 mins.
		Control period checks the difference in the current measured temperature and the set temperature in a proportional integral algorithm to maintain a steady temperature.
	About	Details about the Smart LCD's current firmware, MAC address and WiFi connection information.

Troubleshooting

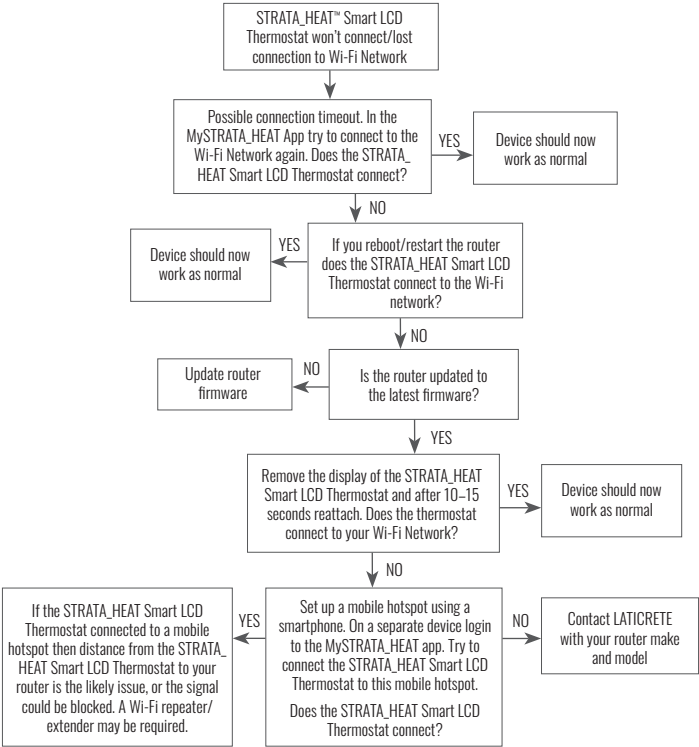
Display is blank	Brightness	1. Check that the standby brightness is not set to Off.
	Power	2. (Electrician Required) Electrician required to verify power is going to the Smart LCD thermostat and that it is correctly wired.
ER1/ER2	Sensor Error	(Electrician Required) Electrician required to verify that the floor sensor has been wired correctly. If it is correctly wired the electrician will need to check the resistance of the floor sensor using a multi meter. For temperatures between 68°F - 86°F the resistance of the floor sensor should measure between 8K ohms and 12K ohms. If the electrician finds a fault, and the thermostat is in the room to be heated then it can be set into "Air Mode". To set into "Air Mode", go to Sensors & Application in Advanced Settings and switch the probe off.
Heating is coming on earlier than programmed times	Adaptive learning (Early Start) On	Adaptive learning will use the historic heating/cooling rates for the time of day, historic external temperatures and the forecast external temperatures, to work out the heating start time in order to reach the comfort time at the start of the comfort period. It will only work in Program Mode.
Cannot to set above a certain temperature	Floor Type Temperature Limits	Delicate floor coverings need to have their temperatures limited. If the finished floor is set for wood, laminate, vinyl etc. you are unable to set the temperature above 81°F.
WiFi Error Symbol	WiFi not setup	If you have not done so, download the MySTRATA_HEAT App, go to Settings and Network setup and follow the on screen instructions to connect to a WiFi Network.
	WiFi disconnected	Follow the step above to try and to re-connect to the WiFi Network. If the Smart LCD thermostat still fails to connect, see WiFi Troubleshooting.
Clock Sync Icon	Time and Date not set	Connect the thermostat to a WiFi network or alternatively set the time and date from the settings menu.

Wi-Fi Troubleshooting

Before following the troubleshooting guide below please check the following:

- 1. The password is WPA2 protected.
- 2. The router is set to a 2.4 GHz band. (802.11 b, g, n, b/g mixed, b/g/n mixed)

NOTE: If you need to change any of the items listed above, please refer to your router manual.



Technical Specifications

Model	0804-0404-XX
Operating Voltage	110V - 240V AC +/-15% 50Hz/60Hz
Protection Class	II 
Max. Load	15A resistive (120 V – 1800W, 240 V – 3600W)
GFCI	Class A GFCI with 5mA trip level
Rated impulse voltage	4000V
Automatic action	100,000
Disconnection means	1B
Pollution degree	2
Programmable Temperature	5 - 40°C / 40 - 104°F
Max. Ambient Temperature	40°C / 104°F (T40)
Relative Humidity	80%
IP Rating	IP30
Sensors	Floor/Air
Sensor Type	NTC10K @ 25°C
Operating Frequency	2401 – 2484MHz
Max. Radio-Frequency Power Transmitted	20dBm
Compatibility	Electric Floor Heating and Baseboard Heating
Standards	UL-60730-1 UL-60730-2-9 UL-943 CAN/CSA-E60730-1 CAN/CSA-E60730-2-9 CAN/CSA-C22.2 No. 144.1 FCC 47 CFR Part 15, ICES-003 CSA -Matter
Warranty	1 Year
Approvals	ETL Intertek

Warranty

LATICRETE warrants this product, to be free from defects in the workmanship or materials, under normal use and service, for 1 year from the date of purchase by the consumer.



Warranty

If at any time during the warranty period the product is determined to be defective, LATICRETE shall repair or replace it, at LATICRETE's option. If the product is defective, please either:

Return it, with a bill of sale or other dated proof of purchase, to the place from which you purchased it, or Contact LATICRETE. LATICRETE will determine whether the product should be returned or replaced.

The 1 year warranty only applies if the product is registered with LATICRETE within 30 days after purchase. Registration can be completed online at www.laticrete.com

This warranty does not cover removal or re-installation costs and shall not apply if it is shown by LATICRETE that the defect or malfunction was caused by failure to follow the instruction manuals, incorrect installation or damage which occurred while the product was in the possession of a consumer. The sole responsibility of LATICRETE shall be to repair or replace the product within the terms stated above. This warranty does not extend to any associated software such as apps or portals.

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LATICRETE International, Inc. ■ One LATICRETE Park North, Bethany, CT 06524-3423 USA
1.800.243.4788 ■ +1.203.393.0010 ■ www.laticrete.com

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