

LU-AP2000 Programmable Thermostat

Installation and Operating Instructions - June 2007

Installation

Important Information



Caution: This is a line voltage thermostat. Always turn off power to the unit before installing, removing or cleaning. Do not touch the circuit board or any other components while power is connected. Only connect power after having installed the faceplate.

Placement

Position the thermostat 1.2 - 1.4m above floor level away from direct sunlight and other sources of heat.

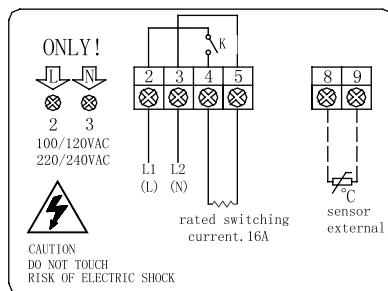


Important: Do not install the thermostat inside a bathroom or any other wet/damp area. Instead, choose a position on the outside of an internal wall.

Mounting

1. Open the faceplate door.
2. Remove the screw and carefully separate the faceplate from the base.
3. Place the base on the wall at the desired position, then, mark the fixing points through the appropriate holes.
4. Follow the wiring diagram below to connect the heating element cold lead, external temperature sensor and supply to the connection terminals at the back of the unit.
5. Use machine screws to securely attach the base to the wall. Do not over tighten.
6. Remove the plastic strip from underneath the battery.
7. Ensure that the jumper marked X1 is disconnected.
8. Reattach the faceplate to the base ensuring that all male pins are inserted into the connector block.

Wiring Diagram



rated switching current, 16A



CAUTION
DO NOT TOUCH
RISK OF ELECTRIC SHOCK

sensor external

rated switching current, 16A

Operating

Turn the thermostat on by pressing the **power** button. The current time, day and room temperature will be displayed.



A  is displayed when the thermostat is in heating mode. The **[ON]** symbol is shown while the element is running. The  is shown when freeze protection is activated.

Operating Schedule

The thermostat is pre-configured with the following programs for each day of the week. This can be modified as needed using the instructions below.

Program	Start Time	Temperature
One	06:00	21°C
Two	08:00	17°C
Three	18:00	21°C
Four	22:00	17°C



1. Press the **program** button so that the **M0** symbol is displayed.
2. If required, use the   **arrow keys** to highlight the schedule you wish to modify. Press **program** to select.
3. Begin modifying the first program (1 will be displayed on the third line):
 - a. Use the **arrow keys** to set the starting hour. Press **program** to confirm.
 - b. Use the **arrow keys** to set the starting minute. Press **program** to confirm.
 - c. Use the **arrow keys** to set the desired temperature. Press **program** to confirm.
4. Repeat parts a - c of step 3 to modify all four programs for this schedule. 1, 2, 3, and 4 will be displayed as you modify each respective program.
5. Repeat steps 2 - 4 to modify additional schedules.
6. Press **hold** to return to normal operation after modifying all 4 programs of the previous schedule. The thermostat will also return to normal operation after the modification of the Sunday schedule.

Temporary Temperature Override

The temperature override feature will temporarily change the desired temperature of the current program, after which, the thermostat will return to normal operation.

1. Repeatedly press the **hold** button until **TEMPORARY** is displayed.
2. Use **arrow keys** to set a desired temperature.
3. Wait 10 seconds to confirm.



Manual Mode

In manual mode, the thermostat will maintain the set temperature until interrupted. This function overrides the operating schedule.

1. Repeatedly press the **hold** button until **STATUS** is displayed.
2. Use **arrow keys** to set a desired temperature.
3. Wait 10 seconds to confirm.
4. Press **hold** at any time to cancel and return to normal operation.



Important: Temporary Temperature Override & Manual Mode are not available when holiday mode is activated.

Holiday Mode

The holiday feature will interrupt the normal operating temperature for a set number of days, after which, the thermostat will return to normal operation.

1. Press the **holiday** button.
2. Use the **▲▼ arrow keys** to set the number of days to suspend operation (00 - 99). A value of -- cancels the holiday feature.
3. Press the **holiday** button again, then, use the **arrow keys** to set a desired temperature for this period.
4. Wait 10 seconds to confirm.
5. Hold down the **holiday** button until the screen clears to cancel the holiday feature.




Did you know?: Press the **holiday** button to view the number of remaining days in the program.



Important: Holiday mode must be enabled before use. See later for details.

Setting the Day and Time

1. Press the **program** and **hold** buttons simultaneously until the **MO TU WE TH FR SA SU** and  symbols are displayed.
2. Use the **arrow keys** to set the current hour. Press the **program** button to confirm.
3. Use the **arrow keys** to set the current minute. Press the **program** button to confirm.
4. Use the **arrow keys** to set the current day. Press the **program** button to confirm.
5. Press the **program** and **hold** buttons to return to normal operation.

Key Lock

When locked, the thermostat's settings cannot be modified.

1. Press the **lock button** to lock the thermostat. To disable, simply press lock again.



Important: The lock feature is not available while in programming mode.



Did you know?: The thermostat can still be switched on and off while locked.

Advanced Settings

The DIP switches located behind the faceplate door are used to adjust the functionality of the thermostat as follows.

DIP Switch	Off	On
1	Operating Mode	Calibration Mode
2	Celsius	Fahrenheit
3	Air Sensor	Floor Sensor
4	Holiday Mode Available	Holiday Mode Disabled



Important: When using the internal air sensor, the external sensor must be disconnected. In this case, the jumper marked X1 must be connected.

Temperature Management & Calibration

The factory settings menu can be accessed by setting *DIP 1* to the on position. Use the **arrow keys** to adjust values as needed; press the **hold** button to confirm each setting and move to the next. Return *DIP 1* to the off position when done.

Display	Setting	Value Range	Default
1	Temperature Calibration	± 3°C	0.0
2	Minimum Temperature	0 - Max	10°C
3	Maximum Temperature	Min - 90°C	35°C
4	Temperature Band (On)	-3°C - 0°C	-0.5°C
5	Temperature Band (Off)	0°C - 3°C	0.5°C
6	Power Behavior (Do not change)	2	2
7	Freeze Protection	0 (Off) or 1 (On)	0
8	Communications Address	0	0
9	Communications Speed	1 - 5	3
10	Diagnostics	n/a	n/a

Factory Reset

1. Put *DIP 1* in the on position.
2. Press the **hold** button for 25 seconds until the thermostat turns off.
3. Return *DIP 1* to the off position.

Warranty and Service

This thermostat is covered by a 12 month warranty. For information and conditions contact the service support number.

1300 720 719 (AU) or 0800 720 719 (NZ)