

Calda Thermostat Operation

(CA-2061-01)

Calda CA-2061-01 is designed to be used with hot water underfloor heating systems. It can be used in a programmable or non-programmable function.

Power source	100-240VAC 50/60Hz
Maximum load	250VAC
Room Temp Range	5c to 50c
Floor Temp Range	5c to 70c
Accuracy	+/-0.5
Dimensions	86mm X 86mm X 13mm
Colour	White

Features:

Large LCD display
Permanent user setting retention during power loss
Optional control application for air or floor temp (with probe) to limit floor temperature
Programmable - Programme heating to automatically turn on with 7 days and 48 time slots.

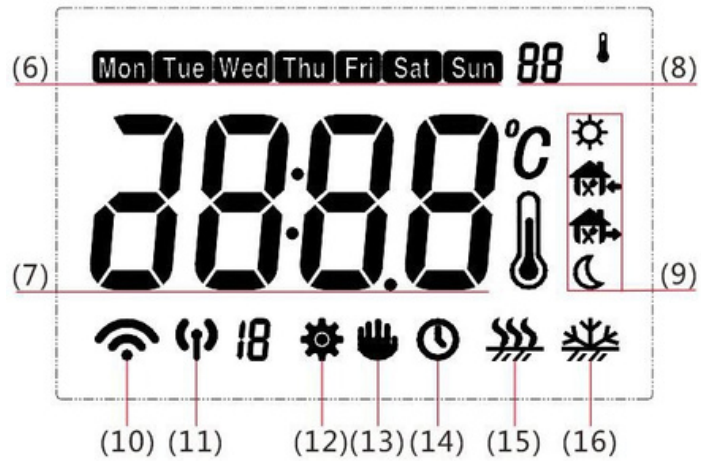
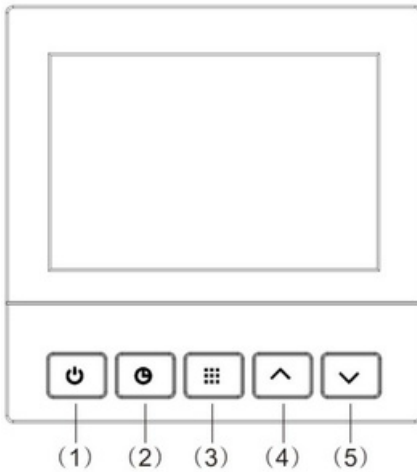
Safety Information






Always turn power off at mains before installing or re-positioning
Only to be installed or re-positioned by a qualified electrician.
All wiring must conform to building regulations and electrical install codes

Error Codes

Err. 1 - Flashing in the display. Floor Sensor has short circuited. Thermostat shuts down all heating.
Err. 2 - Flashing in the display. Floor sensor is faulty. Thermostat will shut down heating.
Err. 3 - Flashing in the display. Room sensor has short circuited. Thermostat will shut down heating.
Err. 4. Flashing in display. Room sensor is faulty. Thermostat shuts down all heating.

Key, Display and Switch Information



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|--|---------------------------------|
|  (1) Power/OK button - Press to turn thermostat on or off | (9) Current programming period |
|  (2) Time button - Press button to set programmable times | (10) N/A |
|  (3) Menu button | (11) N/A |
|  (4) Raise temperature | (12) Implicit parameter setting |
|  (5) Lower temperature | (13) Permanent hold mode |
| (6) Day of the week indicator | (14) Programmable option mode |
| (7) Temperature indicator | (15) Heating on |
| (8) Temperature parameter set point | (16) Anti freezing mode |

Configuration Menu

To enter the configuration menu press the menu button (3) whilst in off mode for 5 seconds. Press button (3) to shift through item list.

Use button (4) and (5) to select desired option.

Use button (1) to exit the menu.

The thermostats will automatically exit the menu after 20 seconds.

To restore factory settings, enter the configuration menu, press button (3) for 3 seconds. DEF will display on the LCD panel and blink 3 times, and revert back to the menu items.

Operation

Item	Button	Displayed (factory default)	Press or to select	Description
1	3 sec.	CL (0)	-6 --- +6	Select temperature display adjustment higher or lower
2	⌘	RM 35.0°	20 —50	Select maximum room setting temperature
3	⌘	RL 05.0°	5 —20	Select minimum room setting temperature
4	⌘	bl (2)	1/2/3	Backlight mode 1.Backlight is not bright 2.When press button ,backlight is bright for 10 seconds 3.Backlight always bright.
5	⌘	PS: (0)	0/2/3/7	Program option 7 7 days separately Refer to table 1 and table 2 3 5+1+1 Refer to table 3 and table 4 2 5+2 Refer to table 5 and table 6 0 Non programmable
6	⌘	ES (OFF)	On/OFF	Intelligent Recovery Option: pre-heating according to the programming of heating time of previous 5 days. OFF Without intelligent function On: Activate intelligent function
7	⌘	Rn(OFF)	On/OFF	Anti-freezing Option On: Active anti-freezing function OFF: Close anti-freezing function
8	⌘	FR NC	NO/NC	Select the valve output mode NO Cooperate with the normally open type drive is used NC Cooperate with normally closed type drive is used
9	⌘	PS2(4)	4/6	Programming period in one day option 6-6 events 4-4 events
10	⌘	SEN In	RL/In/OU	Control mode option RL Room temperature control is given priority to, the floor temperature controls the function of the protection (electric heating is adopted); In only the room temperature control (water heating is adopted); OU only the floor temperature control.

Operation

11	☰	FH (40°C)	20 —60	Select maximum floor setting temperature
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1. Select Room Temperature +/- 6 degrees

You can adjust the room temperature by up to 6 degrees +/- . The thermostat was accurately calibrated in the factory, but you do have an option for manual calibration. The current or adjusted room temperature will be displayed on the right side of the display.

2. Select minimum setting temperature limit

Use sensor control to provide a maximum set temperature point. The default setting is 35c. It can be adjusted to between 20c and 50c.

3. Select minimum temperature limit

This feature allows the setting of a minimum room temperature. The default setting is 5c. This can be changed to between 5c and 20c.

4. Select display backlight mode

This function allows the display backlight to be adjusted. Factory default is setting 2. Select between 1 to 3 brightness settings.

5. Select programme option

Use this option to change programmable automatic heating. Or turn off programming.

6. Intelligent recovery option

Use this option to set pre-heating options based on the previous 5 days settings.

7. Anti-Freezing

Turn anti freeze function on or off.

8. Valve output mode configuration

Adjust valve operation to open/closed

9. Programme period during 24 hours.

10. Control mode

Choose between air, floor temperature priority settings.

11. Select maximum floor temperature (using floor probes)

Manual Operation







Set current day and time

- Turn on thermostat and press button (2) to enter time setting.
- Press button (2) again. The display minutes will start flashing.
- Press either up or down to desired minutes
- Press (2) again, the display hour will start flashing
- Press up and down to adjust time.
- Press button (2) again, the days will start flashing. Press up/down to reach the desired day of the week.







Operation Mode







- Running schedule mode - the thermostat is running to preset schedule which is default to non-programmed.
- Over ride temperature temporarily - Press the up or down (4)/(5) to immediate adjust the temperature. This temperature will be maintained until the next programmed period begins.
- Over ride temperature permanently. In running schedule mode press button (3) the thermostat will enter permanent hold mode. Adjust to desired temperature using the up and down keys.
- Lock Function - In normal function mode, long press buttons (4)/(5) simultaneously for 3 seconds. The display will show LOC. Press (4)/(5) again for 3 seconds to exit lock mode.







Pre-programmed Modes

Heating mode		Morning 	Outside 	Afternoon 	Outside 	Back 	Night 
Monday-Friday	Time	6:00	8:00	12:00	14:00	18 00	22 00
	Temperature	21	16.5	21	16.5	21	16.5

Excel 2 5+1+1 six period factory setting











Heating mode		Morning 	Outside 	Afternoon 	Outside 	Back 	Night 
Monday-Friday	Time	6:00	8:00	12:00	14:00	18 00	22 00
	Temperature	21	16.5	21	16.5	21	16.5

Heating mode		Morning 	Outside 	Noon 	Outside 	back 	Night 
Saturday	Time	6:00	8:00	12:00	14:00	18 00	22 00
	Temperature	21	16.5	21	16.5	21	16.5





Heating mode		Morning 	Outside 	Noon 	Outside 	back 	Night 
Sunday	Time	6:00	8:00	12:00	14:00	18 00	22 00
	Temperature	21	16.5	21	16.5	21	16.5

Manual Operation





Excel 3 5+2 six period programmable factory setting





Heating mode		Morning 	Outside 	noon 	outside 	Back 	
	Time	6:00	8:00	12:00	14:00	18 00	22 00
	temperature	21	16.5	21	16.5	21	
Heating mode		Morning 	outside 	Noon 	Outside 	Back 	
Saturday,sunday	Time	6:00	8:00	12:00	14:00	18 00	22 00
	Temperature	21	16.5	21	16.5	21	16.5





Excel 4 7days four period program factory setting

Heating mode		Morning 	Outside 	Back 	Night 
Monday to Friday	Time	6:00	8:00	18 00	22 00
	Temperature	21	16.5	21	16.5





Excel 5 5+1+1days four period program factory setting





Heating mode		Morning 	Outside 	Back 	Night 
Monday to Friday	Time	6:00	8:00	18 00	22 00
	Temperature	21	16.5	21	16.5

Heating mode		Morning 	Outside 	Back 	Night 
Saturday	Time	6:00	8:00	18 00	22 00
	Temperature	21	16.5	21	16.5

Heating Mode		Morning 	Outside 	back 	Night 
Sunday	Time	6:00	8:00	18 00	22 00
	Temperature	21	16.5	21	16.5

Excel 6 5+2day four period program factory setting

Heating Mode		Morning 	Outside 	Back 	Night 
Monday to Friday	Time	6:00	8:00	18 00	22 00
	Temperature	21	16.5	21	16.5

Heating Mode		Morning 	Outside 	Back 	Night 
Saturday Sunday	Time	6:00	8:00	18 00	22 00
	Temperature	21	16.5	21	16.5

Tips :The program can be modified individual.