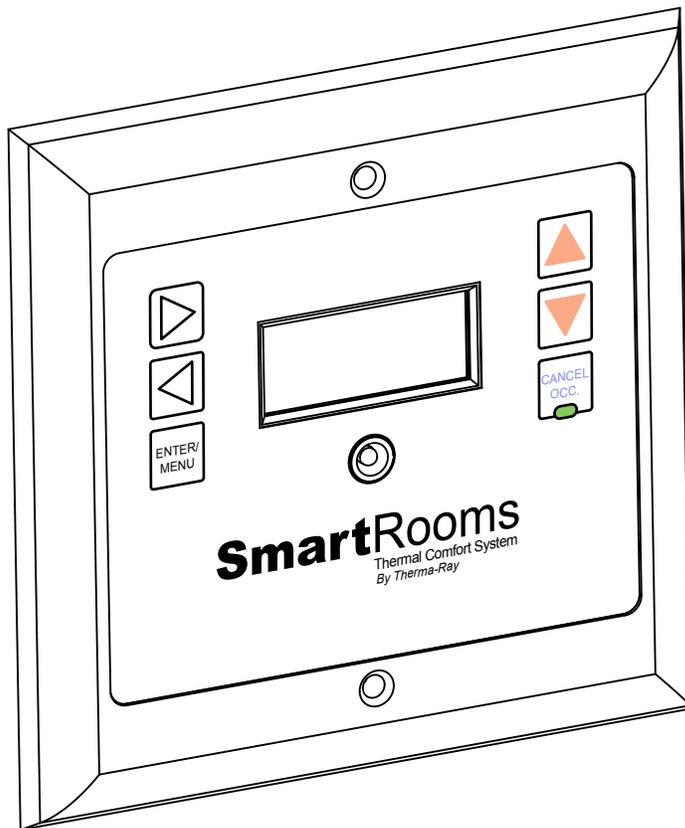


Getting started with your SmartRooms Comfort Controller is as easy as ... 1,2,3.



- 1** Press **Cancel/Occ.** to put Comfort Controller in manual mode
- 2** Verify that the green light is on indicating manual mode.
- 3** Choose the desired room temperature using the **Up** or **Down** arrows. You can change this temperature at any time.

Notes:

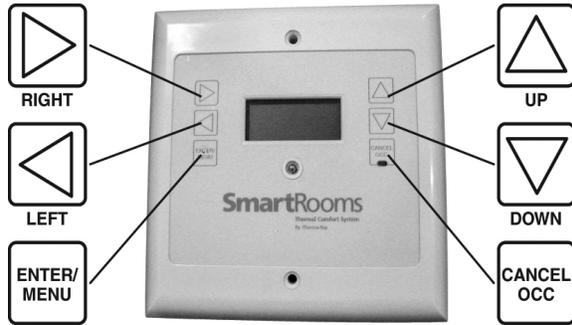
- ° Your System is calling for heat when a 'Down Arrow' is displayed: 
- ° Your System will turn ON when the temperature difference between the Comfort Settings and the actual floor temperature is more than 2° Fahrenheit (1° Celsius).

SmartRooms
Thermal Comfort System
By Therma-Ray

SmartRooms

Thermal Comfort System

By Therma-Ray



Whether you're a contractor, architect, builder or homeowner, creating the perfect indoor environment has always been a challenge. Therma-Ray, the world's #1 name in thermal comfort systems, introduces you to the ultimate solution: SmartRooms. Please take the time to read this operation guide carefully before you begin. A diagram of the menu display system is found at the end of this guide for easy reference.

COMFORT CONTROLLER FOR FLOOR WARMING Owners Manual

SmartRooms Comfort Controller displays the current time and room temperature. It also displays the day of the week and the given temperature set point. It is programmable and operational in both English and French. See the Secondary Features section on Page '3/6' to set language preference.

Set Date			Set Time		
Press		Display	Press		Display
1. ENTER/MENU	→	MENU DATE	1. ENTER/MENU	→	MENU DATE
2. ENTER/MENU	→	MM/DD/YY 03/01/03	2. DOWN	→	MENU TIME
3. LEFT, RIGHT	Select MM, DD or YY	MM/DD/YY 03/01/03	3. ENTER/MENU	→	HH:MM 10:32AM
4. UP, DOWN	Set Numbers	MM/DD/YY 03/01/03	4. LEFT, RIGHT	Select HH or MM	HH:MM 10:32AM
5. ENTER/MENU	→	MENU DATE	5. UP, DOWN	Set Numbers	HH:MM 10:45AM
6. CANCEL OCC.	→	10:30AM 23.3C	6. ENTER/MENU	→	MENU TIME
			7. CANCEL OCC.	→	10:45AM 23.3C

Set Daily Programs

Use this function to program your temperature set points for each day of the week. The controller accepts up to five set points per day, the first starting at 12:00am, the last finishing at 11:59pm.

- | | Press | | Display |
|-----|-------|-------------------------|--------------------------|
| 1. | | → | MENU
DATE |
| 2. | X4 | → | MENU
SCHEDULE |
| 3. | | → | WEEKDAY
SUNDAY |
| 4. | | → | MENU
PROG 01 |
| 5. | | → | ALWAYS START
12:00 AM |
| 6. | | → | ENDS AT:
06:00 PM |
| 7. | | Select
→
HH or MM | ENDS AT:
06:00 PM |
| 8. | | Set
→
End Time | ENDS AT:
08:00 AM |
| 9. | | → | FLOOR
20.0 C |
| 10. | | Set
→
Floor Temp | FLOOR
18.0 C |
| 11. | | → | MENU
PROG 02 |

Repeat steps 5-10 until you reach program 5 or until you reach 11:59PM.

To copy all the programs from Sunday to the rest of the six remaining days:

- | | | | |
|----|--|---|------------------|
| 1. | | → | MENU
SCHEDULE |
| 2. | | → | MENU
COPYDAYS |

Set Daily Programs (Cont'd)

- | | Press | | Display |
|----|-------|---|-----------------------|
| 3. | | → | COPYING
WAITING... |

Note: "Copy Days" saves you programming time. If you prefer your weekdays programmed differently from the weekend, program Sunday as if it were Monday. Use "Copy Days" to make all days the same then return to step 4 and modify the weekend program.

Ready to Operate

After setting all of your day's programs your SmartRooms Comfort Controller is ready to start operating on its own. If at any time you wish to override your day program temperature settings, you can easily press the **Cancel/Occ** button to activate the Occupied Temperature Override. The light below the button will be on when the override is activated. Pressing the **Cancel/Occ** button again will reactivate the regular schedules. Should you forget to cancel the override, the SmartRooms Comfort Controller will remain in Manual Mode - your programmed schedule will not become activated. The occupied temperature setting can also be easily changed by pressing the **Up** and **Down** arrows when your time, date and temperature are being displayed.

Set Occupied Temp

Use this function to set the default room temperature when you choose to override your daily programs. To override the daily programs, press the Occupied button to set the controller in manual mode (Green LED on).

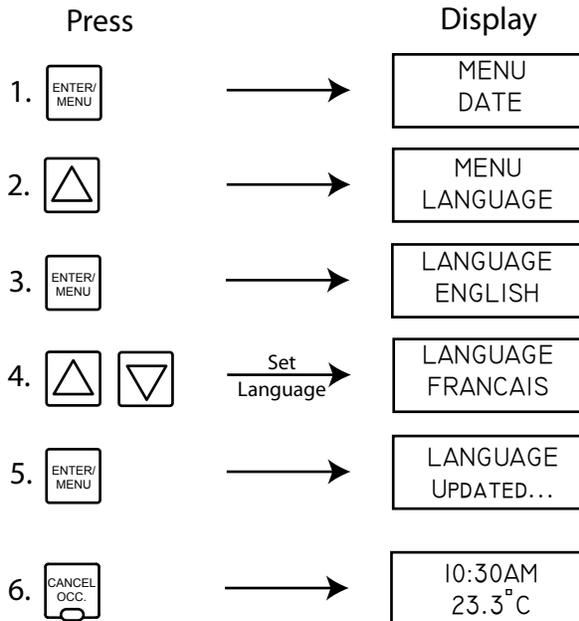
- | | Press | | Display |
|----|-------|------------------|------------------|
| 1. | | → | MENU
DATE |
| 2. | X2 | → | MENU
OCCUPIED |
| 3. | | → | MENU
25.0 C |
| 4. | | Set
→
Temp | MENU
20.0 C |
| 5. | | → | MENU
UPDATED. |
| 6. | | → | 10:30AM
23.3C |

Use this chart to keep track of your preferred program schedules.
Enter the program end-time and desired temperature in each of the given boxes.

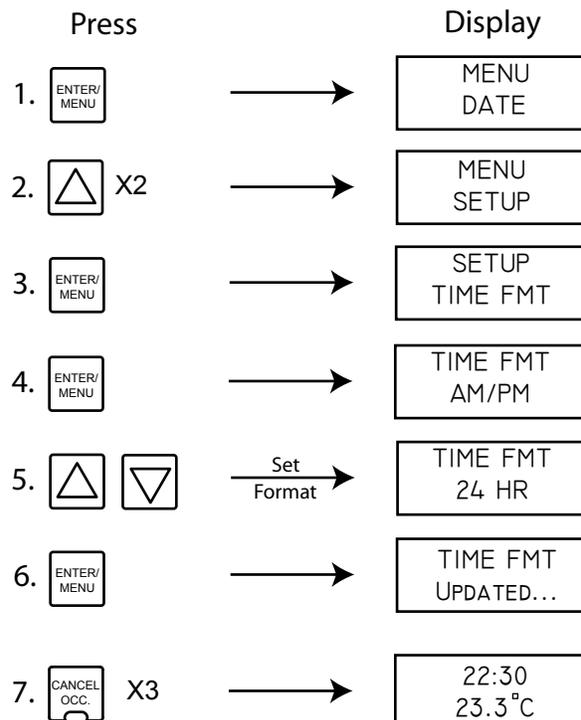
Day	Prog1 time	Prog1 temp	Prog2 time	Prog2 temp	Prog3 time	Prog3 temp	Prog4 time	Prog4 temp	Prog5 time	Prog5 temp
Sun										
Mon										
Tue										
Wed										
Thu										
Fri										
Sat										

Secondary Features

Set Language



Set Time Format



Secondary Features (Continued)

Set Temp Scale

Press	Display
1.  →	MENU DATE
2.  X2 →	MENU SETUP
3.  →	SETUP TIME FMT
4.  →	SETUP SCALE ?
5.  →	SCALE ? CENTI
6.   → Set Scale	SCALE ? FAHREN
7.  →	SCALE ? UPDATED...
7.  X2 →	22:30 70°F

Activate Vacation Temp

Use this function to override your programs. This function is especially useful when you go on vacation and you want to keep your residence at a constant low temperature to save on energy costs.

Press	Display
1.  →	MENU DATE
2.  X3 →	MENU VACATION
3.  →	VACATION OFF
4.   → Set On or Off	VACATION ON
5.  →	VACATION UPDATED.
6.  →	22:30 70°F

Set Vacation Temp

Use this function to program the temperature set point used by the vacation function.

Press	Display
1.  →	MENU DATE
2.  X2 →	MENU SETUP
3.  →	SETUP TIME FMT
4.  X2 →	SETUP VAC TEMP
5.  →	VAC TEMP 41.0°F
6.   → Set Vac Temp	VAC TEMP 35.5°F
7.  →	VAC TEMP UPDATED...
8.  X2 →	22:30 35.5°F

Set Daylight Savings Time

This function is factory set to ON. If your area does not use daylight savings time, set to OFF.

Press	Display
1.  →	MENU DATE
2.  X2 →	MENU SETUP
3.  →	SETUP TIME FMT
4.  →	SETUP INSTALL
5.  →	INSTALL CONTRAST
6.  X2 →	INSTALL DAYLIGHT
7.  →	DAYLIGHT ON
8.  → Set Daylight OFF	DAYLIGHT OFF

Secondary Features (Continued)

Set Daylight Savings Time (Cont'd)

Press	→	Display
7. 	→	<div style="border: 1px solid black; padding: 2px; display: inline-block;">DAYLIGHT UPDATED...</div>
8.  X3	→	<div style="border: 1px solid black; padding: 2px; display: inline-block;">22:30 35.5°F</div>

Test Ground Fault

Use this function to test the ground fault interrupt circuit in your controller. For safety, it is recommended you do this test once a month.

Press	→	Display
1. 	→	<div style="border: 1px solid black; padding: 2px; display: inline-block;">MENU DATE</div>
2.  X2	→	<div style="border: 1px solid black; padding: 2px; display: inline-block;">MENU SETUP</div>
3. 	→	<div style="border: 1px solid black; padding: 2px; display: inline-block;">SETUP TIME FMT</div>
4. 	→	<div style="border: 1px solid black; padding: 2px; display: inline-block;">SETUP INSTALL</div>
5. 	→	<div style="border: 1px solid black; padding: 2px; display: inline-block;">INSTALL CONTRAST</div>
6.  X3	→	<div style="border: 1px solid black; padding: 2px; display: inline-block;">INSTALL GFI</div>
7. 	→	<div style="border: 1px solid black; padding: 2px; display: inline-block;">GFI TEST</div>
8. 	→	<div style="border: 1px solid black; padding: 2px; display: inline-block;">GFI PASS</div>
9.  X4	→	<div style="border: 1px solid black; padding: 2px; display: inline-block;">22:30 35.5°F</div>

If the controller screen reads “BAD GFI” instead of “GFI PASS”, wait 10 seconds and redo the test. If you get the same reading, then the floor warming system must be tested for an electric short and for continuity.

Test Ground Fault (Cont'd)

 **NOTE: THE POWER MODULE MUST BE DISCONNECTED TO TEST FOR AN ELECTRIC SHORT. THIS PROCEDURE SHOULD BE DONE BY A QUALIFIED PERSON WHERE REQUIRED BY LAW & BY PERSONS AWARE OF THE HAZARDS INVOLVED.**

Please contact your distributor for further instructions.

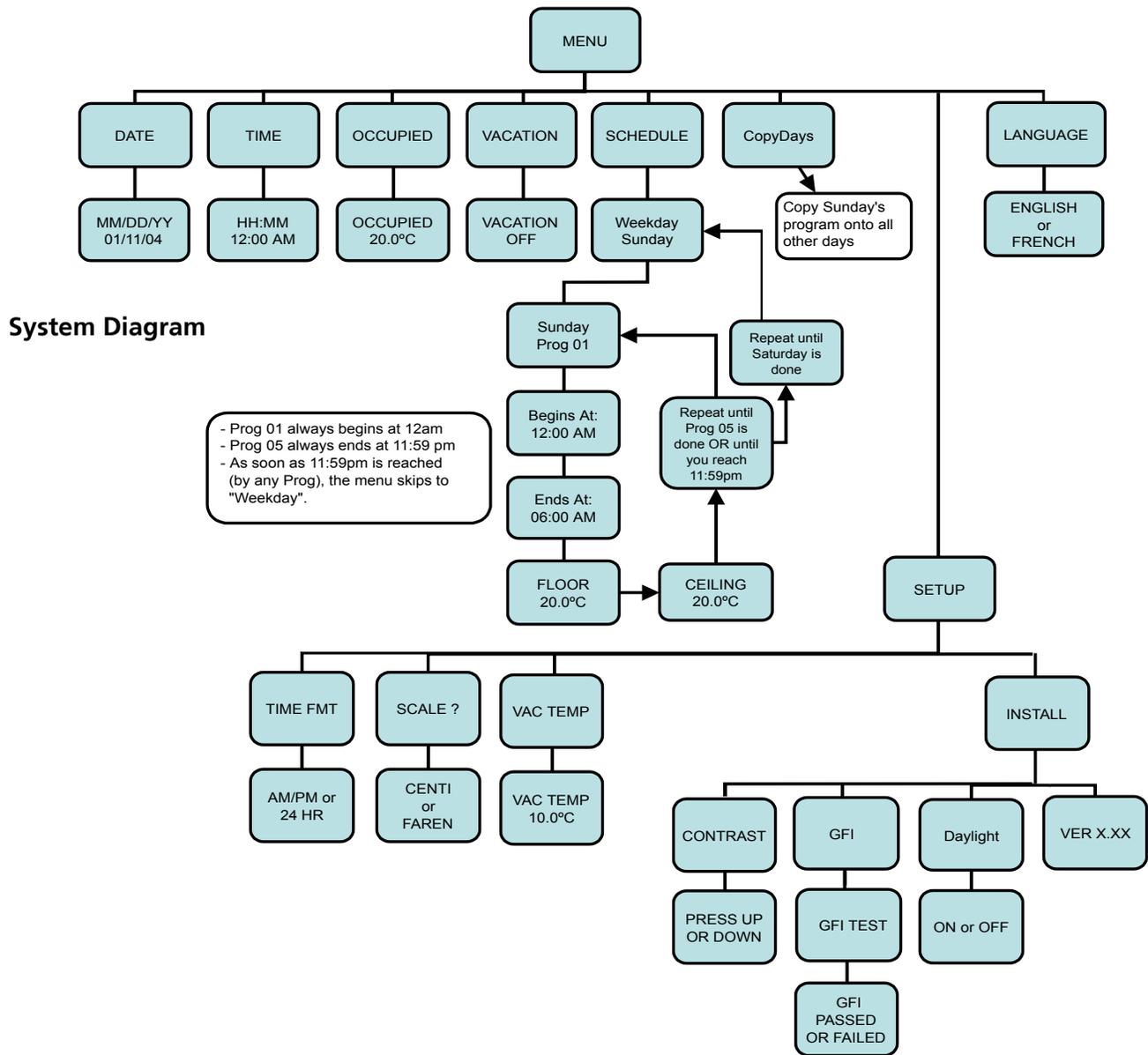
Troubleshooting

Use the following information to troubleshoot your comfort controller.

Room T* - This indicates that the floor sensor is not working and could be damaged. No need to worry, your SmartRooms Controller has a back up sensor located in the face plate. Your floor warming system will continue to function normally. You may want to do one of the following:

- A) Remove the face plate and check to see if the sensor is properly connected to the back of the face plate.
- B) Leave everything as is.
- C) Replace the sensor. To do this you will likely have to remove tiles. Caution should be taken not to damage the heating cable.

Garbled Screen - Press 'Menu', if this does not work, unplug the controller, wait a few minutes and plug it in again.



Warranty

Therma-Ray Inc. one (1) Year Limited Warranty. Therma-Ray Inc. warrants the controller is free of defects in material and workmanship after proper installation for a one (1) year period from the date of installation. During this period, Therma-Ray Inc. will replace or repair the controller without charge if it has been used under normal conditions. This warranty does not cover delivery costs. The warranty does not apply if poorly installed or damaged after installation. Therma-Ray Inc. will not compensate for consequential damage, direct or indirect, resulting from the failure of the controller. All other representations, warranties and conditions, whether oral or written, express or implied, statutory or otherwise are expressly excluded. The defective controller must be returned to the place of purchase or sent prepaid to Therma-Ray Inc.

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SmartRooms

Thermal Comfort System

By Therma-Ray