

Coastal Digital Thermostat/Thermometer

(1) Wiring

Refer to wiring diagram overleaf.

(2) Thermostat Sensor mounting

The sensor must be mounted in the refrigerator or freezer cabinet so that it senses the average air temperature. It does not attach to the evaporator. It is best mounted at mid-height, on a wall or divider that does not have the evaporator mounted on it, and insulated from the wall so that it senses air only.



(3) Initial Settings

The Coastal Digital Thermostat/Thermometer is supplied set as a refrigerator thermostat with 40F or 4C set point.

To change temperature set-point:

- Press "SET" button. "SP" appears in display.
- Press "SET" button again. Set point value is displayed.
- Press "UP" or "DOWN" arrows to the desired set-point. Suggested starting set-points are 40F (4C) for a refrigerator, and 12F (-12C) for a freezer.
- Press "SET" button
- Press "SET" and "DOWN" buttons together to quit and return to temperature display, or display will revert automatically in one minute.

NOTE: Allow sufficient time for the system to settle down between making adjustments. At least one day is recommended.

(4) General Reset

A General Reset should **only** be used as an emergency measure if the programming becomes corrupted. This action will return all the settings to the factory defaults.

Turn power off to thermostat. Then restore power while holding down the "UP" and "DOWN" buttons. Follow instructions below to reset control to Coastal settings.

1. Press "SET" for 8 seconds. "0" is shown on display. Press "SET" again, "SP" is displayed.
2. Press "UP". Display shows "r0". Press "SET" to display value. Adjust value to "2". Press "SET"
3. Press "UP". Display shows "r1". Press "SET" to display value. Adjust value to "-20". Press "SET"
4. Press "UP". Display shows "r2". Press "SET" to display value. Adjust value to "60". Press "SET"
5. Press "UP". Display shows "d0". Press "SET" to display value. Adjust value to "Co" Press "SET"
6. Press "UP". Display shows "d2". Press "SET" to display value. Adjust value to "0". Press "SET"
7. Press "UP". Display shows "d8". Press "SET" to display value. Adjust value to "0". Press "SET"
8. Press "UP". Display shows "c0". Press "SET" to display value. Adjust value to "0". Press "SET"
9. Press "UP". Display shows "c1". Press "SET" to display value. Adjust value to "0". Press "SET"
10. Press "UP". Display shows "c2". Press "SET" to display value. Adjust value to "15". Press "SET"
11. Press "UP". Display shows "c3". Press "SET" to display value. Adjust value to "15". Press "SET"
12. Press "UP". Display shows "P1". Press "SET" to display value. Adjust value to "0". Press "SET"
13. Press "UP". Display shows "H5". Press "SET" to display value. Adjust value to "0". Press "SET"
14. Press "UP". Display shows "H6". Press "SET" to display value. Adjust value to "Ptc". Press "SET"
15. Press "UP". Display shows "t0". Press "SET" to display value. Adjust value to "150". Press "SET"
16. Press "SET" and "DOWN" together to exit programming, or wait 1 minute. (Exit can be made at any point in the programming)
17. Adjust set point as in (3) above.

(5) Useful parameters.

Referring to (4) above, there may be a need for an operator to adjust the two parameters shown below. Press "SET" for 8 seconds, "0" is displayed. Press "SET" again, "SP" is displayed. Press "UP" or "DOWN" buttons to "r0" or "P1". Press "SET" and then "UP" or "DOWN" buttons to adjust value. Press "SET". Press "SET" and "DOWN" together to exit programming.

- "r0" is temperature differential. Difference between system on and system off. Default setting is 2 degrees
- "P1" is temperature probe adjustment. Temp display can be calibrated from -10 to +10 degrees. Default is 0 degrees

(6) Operation

The Coastal Digital Thermostat/Thermometer will display box temperature continuously. When a temperature of 2 degrees above the set point is reached the thermostat will start the compressor, and this will be signified by a red LED dot on the display under the snowflake symbol. When the temperature has been lowered to the set point temperature, the compressor will be turned off and the LED dot on the display will be extinguished. Please contact info@frigoboat.com if further help is needed.

