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# Your Thermistor Reads Fail... Now What?

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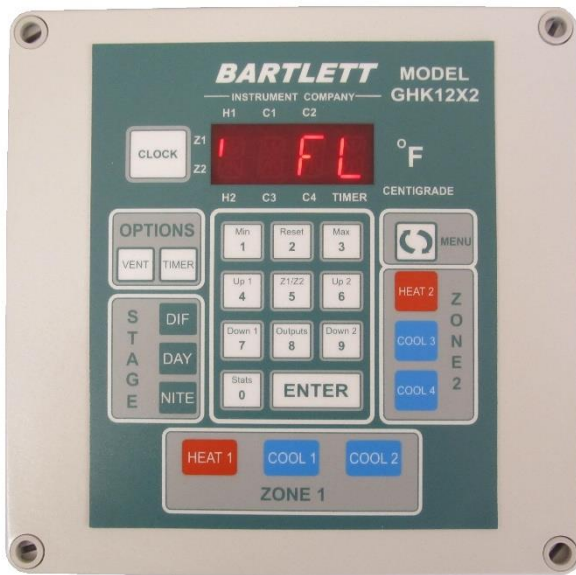


Figure 1: Thermistor fail indicated in Zone 1 (TH1)

If your controller is reading "' FL", it means there is a thermistor fail. This means the controller is unable to read the temperature in the house. There are a few things that may be causing this problem:

- The thermistor is faulty
- There is a problem with the wiring
- The controller's relay board needs repaired or replaced

To determine the problem, begin by taking these steps:

First, determine if 1 or both thermistors have failed. The display will flash the temperature and FL with a dash at Z1 (Thermistor 1) or Z2 (Thermistor 2), or at both Z1 and Z2. If both read fail, it usually means a faulty relay board or a bad connection between the display and relay boards.



To check, install a known good thermistor or a 10,000 Ohm resistor at TH1 to test the relay board. If the controller is still reading fail with a known good thermistor, it verifies a problem with the relay board or a bad connection.

If only 1 thermistor is reading fail, swap thermistors to see if the problem follows the thermistor. If Z1 (TH1) is reading fail, cut power to the controller, remove the lid, and disconnect the thermistors at TH1 and TH2, swap them and reconnect. The thermistor that was at TH1 should now be connected at TH2 and vice versa.

Then, return power to the controller. If Z2 (TH2) is now reading fail, check the thermistor wiring for bad connections and bare or broken wires. If the wiring is good, the thermistor needs replaced. If Z1 (TH1) is still reading fail, the relay board is faulty and needs repaired or replaced.

If you have questions about any of these steps, feel free to call us and we'll walk you through it!

## ***BARTLETT***

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