



**BARTLETT** Instrument Company

# What Next? Continuing with Err1 Troubleshooting.

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The Bartlett 3K controller displaying the "Err1" indicating the temperature isn't rising fast enough.

In our last Enewsletter, we walked you through our Full Power Test as a troubleshooting solution for an Err1. What happens if you get through the Full Power Test and you still can't figure out what's wrong? There are a few other things to go over to solve your Err1 problem. As we mentioned last time, Err1 indicates the kiln's temperature is rising too slow (Less than 12 deg/hr. over a 22.5 min. period) during a ramping phase.

If the Full Power Test doesn't yield a solution, check these few things that could be causing your Err1 problem:

- Examine your elements for black spots, broken wires, and broken elements.
- If all the elements heat, check the resistance of the elements according to the kiln manufacture's guide lines.
- Check the voltage to the kiln to ensure it matches the voltage listed on the kiln's specification plate.
- If the elements have the correct resistance a relay may be at fault.
- If it occurs at random temperatures, electrical noise from the relays is likely the problem. A chattering relay or faulty varistors can both cause excessive noise. Boards damaged by electro static discharge (ESD or static charges) are more susceptible to electrical noise and a new board may correct the situation.

If you've got a problem with your controller, give us a call and our tech can walk you through the solution!

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