



BARTLETT Instrument Company

How To Set A Thermocouple Offset On Your Bartlett

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Thermocouple offsets are often used in zone controlled kilns to balance the heat work by either raising or lowering the temperature indicated by the thermocouples. This can be especially helpful if one zone tends to lag behind the other zones just a bit. It can also be used when a thermocouple is worn but is not yet ready to be replaced.

Unlike a cone offset, thermocouple offsets affect all cone-fire and vary-fire programs, not just a single program or particular cone value. When a kiln has multiple thermocouples, each one can have a different offset up to the maximum of 50°F. A negative offset will lower the indicated temperature causing more heat work, while a positive offset will increase the indicated temperature causing less heat work.

To program for a thermocouple offset on your RTC1000 or V6CF controller:

- Press the ENTER/START key for the RTC1000. (Skip this step for the V6CF)
- Press the MENU key until "TCOS" is displayed.
- Press the ENTER key. If set to single zone, the controller will alternately flash °FOS and the current offset. If set to multiple zones, TC1 will appear on the screen.
- With a single thermocouple, type in the degrees of offset. For a multiple zone kiln, press ENTER until the thermocouple you would like to set the offset for is displayed and type in the offset.
 - To set a negative offset (cause more heat work), type 9,0, then the degrees of offset, up to 50°F.

- To set a positive offset (cause less heat work), just type the degrees of offset, up to 50°F
- After entering the offset, press ENTER and the controller will return to IDLE.

Thermocouple offsets can be a great firing tool when used correctly. Just remember, if you've set a thermocouple offset to compensate for an aging thermocouple, you'll need to set it back to zero when it's replaced. If you have questions or need help setting the offset, give us a call and we'll walk you through it!

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