

## FIELD SERVICE BULLETIN

## Subject: DES2000 Control Parameters

### **DES2000 Controller**

1. If oven is not heating, first check the **OUT** LED. The LED should be ON for the oven to heat up. If LED is not on or blinking, you will need to verify the parameters.



- 2. Press key for three (3) seconds.
- 3. The **CtL** parameter should be displayed. Press one of the arrow keys once and **PID** should be displayed, if it reads anything else, then it needs to be changed to **PID**.
- 4. If the value does not change when pressing the arrow key, then the parameters are locked.
- 5. Press and release the key several times until **LOC** is displayed. Press the down arrow keys and change the parameter to 0 (zero).
- 6. Press the key several times to enter the value and return to **LOC**.
- 7. Press the key once so **CtL** is displayed again. Press one of the arrow keys until PID is displayed.

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SET/ENT 8. Once the parameter PID is displayed, Press the key several times to go back to **CtL**. SET/ENT 9. Press the key once to go to the next parameter. See Operating and Setup Parameter Table listed below. The parameters are listed in order as they appear on the control. 10. If the **P** is not displayed, the Control Mode (**CtL**) must be first set to PID. 11. Once you have verified each of the parameters, go to the LOC parameter and change the value to 1 (one) to lock the parameters, but still allows the set point to be changed. 12. Press the key once to enter the value. key for three (3) seconds until the temperature (PV) is displayed. 13. Press and hold the 14. If the PV reading is not the correct temperature, re-enter the parameter mode by Pressing SET/ENT key for three (3) seconds. SET/ENT 15. Press and release the key several times until **LOC** is displayed. 16. If the parameter is not already 0 (zero), press the down arrow keys and change it to 0 and then SET/ENT Press the key once. 17. Press the down arrow keys and change the parameter to -1 (minus one). SET/ENT wey once so **In** is displayed. Press one of the arrow keys once and 5 should be displayed for Centigrade or 35 for Fahrenheit. To change from C to F or F to C, please refer to the DES2000 controller manual. (SET/ENT 19. Press key for three (3) seconds until the temperature (PV) is displayed. 20. If you changed the In parameter, you will need to go back to Step 1 to verify all the parameters

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again.



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	Name	Settings
Ct	Control Mode	PID
At	Auto-tuning	OFF
P	Proportional Band	5 **
ı	Integral Time	13
d	Derivative Time	OFF
Ct	Cycle Time	1
FL	Input Filter	2
bS	PV Bias (Offset)	0
Lo	Key Lock	0

<sup>\*</sup> If P is not displayed the Control Mode (CtL) must be first set to PID.

<sup>\*\*</sup>For F change to value 13.