Quick list of the New Key Functions for the Ramp/Soak Model (SYL-23X2P)

The following list contains a brief description of each key function for when the controller is in basic operation mode.

1) Mode Key (SET)

When pressed momentarily, PV display shows the current step that the program is processing. When pressed again, the PV display shows the set time length of the current step. The SV display shows how long the current step has run in minutes. Press again to have the display return to the basic display mode. The PV shows the process temperature and SV can either show the set temperature or the status of the controller (Stopped, Running, or on Hold).

Pressing and holding the mode key for two seconds will put the controller into parameter setting mode, just like the controllers without the ramp/soak option.

2) Auto/Manual function key (A/M)

Press this key to have the controller enter step setting mode in order to set the time, temperature and action of each step.

3) Decrement key V

Press and hold this key for two seconds to start the processing. The A-M LED will light up. Press and hold again to hold the processing. The A-M LED will flash.

4) Increment key Λ

Press and hold this key for two seconds to stop the processing of the program. A-M LED will turn off.

Table: Summary of new key functions

To start the processing	Press V key for 2 seconds
To stop the processing	Press ^ key for 2 seconds
To hold the processing	Press V key for 2 seconds
Check current step	Press SET key briefly
Check run time of current step	Press SET key briefly twice
Go to step X (jump)	Press SET key briefly, then use V or ^ to go to the step, press SET key to jump
To program the steps	Press A/M key to enter programming mode, then press SET key to go to next step.

Frequently asked questions

1. **What is the difference between "Hold" and "Stop".**

Hold does not stop heating. It holds the temperature at the current setting, (or at OutL). **"Stop"** will stop heating. If you Hold the program (V key) and start Run (V key) again, it will start from

the step that was put into hold. However, if you Stop the program (Λ key) and start Run (V key) again, it will start from step 1.

2. **How do I run this controller as a regular controller without the ramp/ soak function?**

Here are two methods.

1) Program a very long step. If you didn't use up all the steps for programming, you can use one of the unused steps for that. For example, assuming step 10 and 11 are unused, set C10=100, C11=100 and t10=9999. This sets Step 10 to control the temperature at 100 degrees for 9,999 minutes. To begin the program, start Run (V key), press SET once to display StEP, use Λ to go to StEP 10. Press SET twice. The controller will run just like regular controller with PV displayed on top and SV in the bottom. You don t have to do this every time the controller powers up (assuming the A-M parameter has not changed from default). It will remain running StEP 10 until 9999 minutes (7 days) runs out, or until you reset it for another application.

2) Put the program on hold mode. This can be done either by manually pressing the Hold button at the desired temperature, or by programming a hold step (by setting tXX=0).

3. **I just want to run the oven at 800 degrees for 120 minutes. When I set C01=800, t01=120, the controller SV first displays 800, then it starts dropping with time. Did I do something wrong?**

This is the most common mistake first time users make. Since this is a ramp controller, not a step controller, the time t01 (or tXX) is not the time that controller will stay at C01 (or CXX), it is the ramping time that controller will take from temperature C01 to C02. To hold the temperature constant for 120 minutes, you need to set two steps at the same temperature, or a 0 degree ramp (C02=C03=800 in this case). Then, set the ramping time for 120 minutes. Please check examples in instruction manual.

Auber Instruments Inc.
5755 North Point Parkway, Suite 99,
Alpharetta, GA 30022
www.auberins.com
Email: info@auberins.com
Tel: 770-569-8420