

Sentry 2.0 Update Sheet

Cone-Fire / Ramp-Hold Manual IM-204/1-07

Thank you for buying a Sentry 2.0 controller. The controller has new features, which you can access through the Options key near the bottom of the controller keypad. These new options are not yet in the instruction manual. Please disregard “AOP / Auxiliary Outlet” instructions in the manual, page 22 - 23.

Earlier controllers included the AOP option used to program the auxiliary outlet. We have expanded the AOP option to AOP1 and AOP2. We have also added the LIM option, which you can use to program the maximum temperature of your kiln.

To check the software version of your Sentry, press the Options key repeatedly until SOFT appears. Press Enter. Your controller’s software version will appear. 20A and later versions include the new features shown below.

The new Options

AOP1 & AOP2 / Auxiliary Outlet

Select Vent Fan or Alarm for the Auxiliary Output Set the Maximum Temperature of Your Kiln

The AOP (Auxiliary Output) is an electrical receptacle mounted in the kiln’s control box. You can plug a kiln vent or an external alarm, such as a bell, into the AOP outlet. (Note: The AOP is a special-order option that is not included on all kilns.)

The choices you can make in the AOP1 and AOP2 options:

- **NONE None:** Use this setting if your kiln does not have the AOP outlet and you do not want to set your kiln’s maximum temperature.
- **VFAN Kiln Vent or Gas Outlet:** If you are plugging a kiln vent into the AOP, select this option. This adds a prompt for fan (**FN**) to each segment during Ramp-Hold programming. (On earlier controllers, select **FAN3** or **A2F3**.)
- **ALRM Alarm:** If you are plugging an alarm such as a bell into the AOP, select this option. This choice sends power to the AOP receptacle whenever the controller alarm sounds. (See “Temperature Alarm,” page 8 in the manual.) Plug in a loud bell to alert you, from a distance, that the kiln has reached the alarm temperature. (On earlier controllers, select **ALAR** or **F2A3**.)
- **SAFE Maximum Temperature:** Select **SAFE** if you would like to program the kiln’s maximum temperature.

- 1 From **IdLE**, press **OPTIONS** repeatedly until **AOP1** or **AOP2** appears.
- 2 Press **ENTER**. Use the **1** and **2** keys to select **NONE** **VFAN** **ALRM** or **SAFE**.
- 3 After selecting one of the above, press **ENTER**. Press **STOP** to return to **IdLE**.

LIM / Maximum Temperature Limit

Setting Your Kiln’s Maximum Temperature

LIM appears in the Options only after you have selected **SAFE** in the AOP1 or AOP2 option.

You can program the maximum temperature of your kiln using the LIM (maximum temperature limit) option. Suppose you are firing low-fire ceramics and don’t want anyone who uses the kiln to enter a higher temperature that would ruin the clay. Use the LIM option to prevent this.

CAUTION: *Though you can limit the kiln’s maximum temperature, you should still monitor the kiln during operation. We cannot guarantee the kiln against an overfire.*

The maximum temperature limit can be set to any temperature between 32°F / 0°C and the maximum temperature of the controller, which is shown in the SFTY option.

- 1 From **IdLE**, press **OPTIONS** repeatedly until **LIM** appears. (If it does not appear, see the instructions for AOP1 / AOP2, left column, and select **SAFE**.)
- 2 When **LIM** appears, press **ENTER**. Use the number keys to type the maximum temperature for your kiln.
- 3 After entering the temperature, press **ENTER**. Press **STOP** to return to **IdLE**.

An alarm will sound and **OTL** (over-temperature limit) will appear in the display if the kiln reaches the maximum temperature that you have programmed. The controller will then turn off the heating elements.

Sentry 2.0 Update Sheet

Ramp-Hold Manual IM-218/12-06

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- **ALRM Alarm:** If you are plugging an alarm such as a bell into the AOP, select this option. This choice sends power to the AOP receptacle whenever the controller alarm sounds. (See “Temperature Alarm,” page 12 in the manual.) Plug in a loud bell to alert you, from a distance, that the kiln has reached the alarm temperature. (On earlier controllers, select **ALAR** or **F2A3**.)
- **SAFE Maximum Temperature:** Select **SAFE** if you would like to program the kiln’s maximum temperature.

- 1 From **IdLE**, press **OPTIONS** repeatedly until **AOP1** or **AOP2** appears.
- 2 Press **ENTER**. Use the **1** and **2** keys to select **NONE**, **VFAN**, **ALRM** or **SAFE**.
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