

Section 1

Instructions for burning the Symtron System Propane Fired System

Instructors should check each of the following areas prior to starting up the Symtron System.

1. Check the flashover area for debris including animals, trash or other waste products.
2. Check the bed fire prop for any debris or items on top or around the area.
3. Check the entire burn room for any foreign products, if any is found remove them and store in the proper area. Please be sure to check the wall mount sensors for any damage or debris.
4. ENSURE THAT NO CLASS A MATERIALS ARE BURNING OR SMOLDERING PRIOR TO STARTING THE SYMTRON SYSTEM. THIS IS IMPERATIVE THAT NO CLASS A MATERIALS ARE BURNED AT THE SAME TIME AS THE SYMTRON SYSTEM.
5. Use the instructor key located in the instructor office to open the white cabinet and remove the fireplace key and the instructor pendant. Check the inside of the white cabinet for any damage or obviously misplaced parts.
6. Match the pendant up to the plug on the bottom of the compartment control unit. Connector logo should be facing you.
7. Insert Key in Key Switch and turn system ON.
8. Wait as the system powers up for any messages. If there is an alert message press the RED alert button and read the message.
9. Look inside the white cabinet at the 2 MSA sensors (red and white) and check the levels displayed. If less than 3 on each of them proceed back to the fireplace unit on the outside wall. If the reading is 3 or more an initial calibration needs to be performed.
10. After system purge complete (ventilation fan goes off) open main gas valve.
11. While looking at the fireplace and pendant if there is no error messages proceed to push the GREEN on / off button.
12. Push the BLUE pilot button; wait for the pilot to engage by the flashing indicator to stay bright and solid. Also the smoke generator starts at this point.
13. You are now ready for the RED main flame when needed. Do not press the main flame until crews are ready to enter the structure.
14. The WHITE smoke button will flash rapidly and may be activated at any time by pressing and releasing the button once. When you want to discontinue the smoke press and release the WHITE smoke button again.

15. The wall control settings can't be changed during an evolution. You can only change them between runs. (when on and off button flashing)
16. The GREEN ventilation button can be pressed when you desire ventilation of smoke and heat (button is bright and solid). Press the GREEN vent button again to stop the fan (button will then be dimly lit).
17. The RED effect button can be pressed for the flashover simulator at any time during the evolution. Keep in mind that you must hold down the button to get the full 5 seconds from the flashover. If you simply press and release that's all you get. The RED effect button is only good once every 20-25 seconds. Multiple flashovers can be done during the burn as long as agent (water) is not being applied.
18. The YELLOW pause button can be pressed at any time during main flame to pause the evolution. When you are ready to begin again simply press the YELLOW pause button once again.
19. To make an emergency stop press either of the 2 emergency stop buttons. One is the large RED button located at the bottom of the pendant. The other is a large RED button located on the wall fireplace control. If you press either of these buttons you must pull them back out to reset the system before starting another evolution. The system must also be allowed to cool before it will reignite.

Section 2

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Calibrating the system

Instructors please follow the written guidelines for calibrating the Symtron System. Please follow these as they are written.

Initial Calibration

This should only be performed when the system is first turned ON before any span check or main flames are done. Red and white sensors in the main white cabinet displaying a reading of 3 or higher indicate the need for initial calibration.

1. Using the remote calibration control point it at the first sensor within 1-2 inches and press the "zero" and "calibration" together.
2. Allow the sensor to go through the check system. You will see a 30 second timer which will count down to 0. This is where zero is set. After it counts down to 0 watch for the rest of the cycle and then another 30 second countdown. During this second countdown apply the span gas to the burn room sensor immediately. Go back to the cabinet and watch the sensor. When calibration is complete and successful the sensor will display END and a steady reading of 50%. Shut off span gas tank and disconnect. Then proceed to the other sensor exactly as you did for the first one. Watch for the readings to get back to "0".
3. You are finished.

Span Check only

This must be done every 7 days or at the beginning of each month.

1. After you turn on the fireplace unit with the key switch the words "span gas check" will scroll across the screen. Allow the system to stabilize 10-15 minutes before proceeding.
2. Apply the span gas to one sensor in the burn room. Then go to the cabinet and watch the red and white sensor to go to a reading between 45-55. After a minimum reading of 45% is reached go back to the room and immediately

turn off the gas to the sensor. Watch the gas reading to return to "0". Move then to the other sensor and do the exact steps.

- Important: Anytime you are span checking or calibrating the system the ventilation fan will start-up when the LEL rises to the factory presets. Do not be alarmed by this. When the check is finished and the LEL returns to normal levels the fan will shutdown.
- DO NOT TURN OFF KEY SWITCH UNTIL ALL CLEAN UP HAS BEEN COMPLETED (MINIMUM 15 MINUTES) TO ALLOW THE CABINET AND PARTS TO COOL DOWN.
- Only fill smoke fluid container to the MAX FILL MARK. Please remove container from the cabinet and fill from the ground.
- Ensure nothing combustible is on the propane burn room at any time training is being performed.
- If you have any problems not resolved by these steps please log the problem in detail and report it immediately to the Emergency Training Center Coordinator.
- Ensure the cabinets and all hardware is clean and free of any obstructions.
- Lock all system parts in the large white Symtron cabinet. Instructor should remove the key to the Symtron cabinet and place back in the instructor office key box.