

Fisher Hamilton/Scientific: SafeAire
 Green light on- normal operation
 Yellow light on- caution, airflow in set caution zone between low and normal
 Red light lit- alarm, high or low air flow, audible alarm will sound
Digital display- indicates face velocity in ft./min. (Note: Some monitors do not have a digital readout)
EMERG PURGE- Puts hood in full exhaust by opening the damper, should only be pushed when there is a spill inside the hood; depress to reset to normal
TEST RESET- Will temporarily silence alarm if the alarm is on. If no alarm condition is present this button will cause the red indicator to be illuminate and cause the horn to sound. (ALNOR)



No matter which monitor you have, the alarm should never be muted in a low flow condition. Please call EHS immediately when that condition oc-

Always confirm that the hood is working before you begin use and close the sash when you are not working in front of the



QUESTIONS?

If your chemical fume hood needs servicing due to low or no air flow, broken dome lights, broken sash (or sash is difficult to slide up or down), air flow sensor malfunction, or the hood needs annual re-certification, please fill out the chemical fume hood service request at (<https://www.case.edu/finadmin/does/LabSafety/fume.html>) or contact

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ENVIRONMENTAL HEALTH AND SAFETY

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ENVIRONMENTAL HEALTH AND SAFETY

FUME HOOD MONITORS AND ZONE SENSORS



MONITOR MANIA.

We use many different kinds of air flow monitors for our laboratory fume hoods. All of them however have a singular purpose: to indicate air flow inside the hood. These monitors are calibrated and an alarm will sound if the air flow is above or below the safe set point as determined by use, hood type and room



Phoenix Controls

Photocell - energy waste alert

Standard operation light on - normal

flow Standby operation light on - set-back operation, lower flow rate

Emergency exhaust light on - indicates hood is in full exhaust the damper is wide open, it should **only** be pushed when there is a spill inside the hood; depress to reset to normal velocity.

Caution flow alarm-loss of air flow- stop work and lower the sash

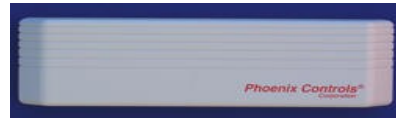
Emergency button- activates emergency exhaust, depress to reset when conditions are safe to return to normal operation

Mute button- silences audible alarms automatically, remember to reset when alarm condition ceases

Digital display- indicates face velocity in

Zone Presence Sensor

When someone is present inside the ZPS detection zone, the unit sends a signal to the fume hood system which responds by increasing the airflow to the fume hood. Airflow decreases when no one is inside the detection area, resulting in energy savings.



The zone extends two feet out from the face of the hood and runs the length of the hood.

Note: Alarm can be triggered by:

1. Insufficient static pressure
2. Incorrect air flow
3. Sash open and room dark

Zone Presence Sensor with Phoenix Moni-



TSI SureFlow/EverWatch Monitor

Green light on- normal operation

Yellow light on- caution

Red light on- alarm, air flow is too high or too low, audible alarm will sound, digital display will indicate the type of alarm.

Digital display- actual face velocity in ft/min

Emergency- Opens dampers and puts hood in full exhaust, increasing velocity, the red alarm light will flash and the alarm cannot be silenced. Depress the RESET button to put hood back in normal operation

Mute- depress once to silence alarm, alarm will stay silenced until hood returns



Sometimes lowering the sash will reset the alarm, if not notify EHS immediately.