

HM1 CALIBRATION INSTRUCTIONS

EQUIPMENT

1. A properly calibrated hot-wire thermoanemometer, vane anemometer, or other device designed to profile the face velocity of the fume hood.
2. Small screw driver with a flat tip capable of fitting inside a 3/16" diameter hole.

PROCEDURE

1. Double check installation to ensure that the monitor, power supply, and any ancillary parts are properly installed.
2. Allow ten (10) minutes for the HM1 to warm up.
3. Determine the low flow setpoint. This is the value where the monitor will first indicate a low flow condition. The red light will be "ON" for this value. Refer to facility's Hygiene Officer or specifications for the proper setpoint. For this example, assume the light is to come on when the flow is seventy (70) FPM.
4. Adjust fume hood air flow to the low flow set point (as determined in step 3). Either of the following methods may be used to lower the face velocity of the fume hood:
 - * Partially block duct collar in top of fume hood.
 - * Close the volume damper (if available) in ductwork.

HM1 INSTALLATION INSTRUCTIONS

EQUIPMENT

1. Electric Drill
2. Saw for cutting sheet metal
3. Drill bit size 2.5mm (.104")
4. Phillips head screw driver
5. Flat head screw drivers with 3 mm and 6 mm blade widths.
6. Tape measure
7. Eye protection

PROCEDURE

1. Use the template enclosed with the monitor to cut out an area on the fascia of the hood. The template shows the proper mounting dimensions.
2. Drill four (4) mounting holes in the fascia, 2.5 mm diameter as shown on the template.
3. Slip the rubber grommet supplied onto the hole used for the power connection in the rear enclosure and mount in the cut out on the fascia with four (4) screws supplied.
4. Drill 13 mm hole in sidewall of fume hood approximately 15 cm behind the sash and even with its bottom when fully open.
5. Insert the plastic sidewall adapter from the inside of the hood and lock with plastic lock ring.
6. Slip one end of the air hose on the end of the plastic sidewall tube adapter and insert the other end through the rear enclosure.
7. Plug the power adapter into the voltage mains. Insert the other end of the power adapter through the grommeted hole in the rear enclosure.
8. Connect the power plug end to the appropriate plug on the back of the front panel

assembly. Connect the loose end of the air flow hose (sticking out of the rear enclosure) to the air outlet port on the back of the front panel assembly.

9. Feed the air flow hose and the power wire back through their holes until the front panel assembly mounts on the rear enclosure. Install the two mounting screws (supplied).