Your 237 Flow and Totalizer was calibrated at the factory to give a reading of 35 mL with a 2 second, 17.5 mL puff applied. The calibration of the unit is very critical and unless you have a means of generating and measuring the Flow rate accuratly we strongly recommend you return the unit to the factory for re calibration. If you do have the means to generate the proper flow, the procedure is pretty straight foward and can be acomplish by in house technicians.

Please note that a proper zero reading is extremly important to obtaining proper results. When the zero is correct the unit should read 000.0 with the minus sign flashing every few seconds.

RE-CALIBRATION

1. Remove the faceplate from the unit.
2. Place the switch in the mL/SEC POSITION.
3. Allow the unit to run for about 10 mins to stabalize.
4. Adjust the Zero pot until the display reads zero.
5. Apply a 17.5 mL flow to the port marked "P".
6. Adjust the flow rate pot (third pot from left)
7. Repeat 4-6 until desired results are obtained.
8. Place the switch in the mL position.
9. Apply a two second puff with a flow rate of 17.5 mL/sec to the unit
10. Check Zero and adjust as necessary.
11. Repeat steps 9 and 10 until the desired results are obtained.

If there is not enough range to adjust the zero with the zero pot, follow the procedure below to adjusty the coarse zero.

1. Remove the faceplate from the unit.
2. Center the fine zero pot by turning it either fully clockwise or fully counter clockwise then turning 8 1/2 turns in the opposite direction.
3. Turn the coarse zero fully clockwise, then slowly adjust until the display reads approximately zero.
4. Replace the face plate and touch up the zero as required.

OPERATION

The 237 was developed to calibrate smoking machines. To test the smoking machine.

1. Attach a tube to the V port of the 237.
2. Attach the other end to the smoking machine with an adapter.
3. Observe the display as the smoking machine cycles.
4. Adjust the smoking machine as necessary.