



Fermilab
ES&H Section

INDUSTRIAL HYGIENE PROCEDURES

ALNOR ECO SERIES MICROMANOMETER

10/92

PURPOSE

To provide guidance in the use of the Alnor Micromanometer. DO NOT USE IN COMBUSTIBLE GAS ATMOSPHERE. DO NOT USE FOR PRESSURES EXCEEDING 5 PSI.

DISCUSSION

The micromanometer measures differential pressure generated by air in either inches of water or Pascals. When connected to a standard pitot tube (not available from ES&H Section), the input pressure can be converted to velocity readings of either feet per minute or meters per second. The measurement range is between -1.00 to +10.00 inches of water in the pressure mode. It is most often used to measure static pressure for local ventilation units for which velocity reading with a standard velometer is impossible.

EQUIPMENT

- Alnor Micromanometer
- Suction and Tubing
- IH Sampling Notes Form

PROCEDURE FOR PRESSURE MEASUREMENTS

1. Press ON. Assure that LO BAT is not on. If it is, replace the battery to assure adequate operational time in the field.
2. Zero the instrument
 - Press and release OFF

- Press and hold CHANGE; then press and release ON; now release CHANGE

- Display will show 000 for 5 seconds. After zeroing, display will show measurement units, then values will be displayed. Push CHANGE briefly (<2 sec.) to check current units. The unit is usually set for inches of water, but this can be changed. To change units, push CHANGE until desired unit appears, then release.
- 3. Connect the pressure source to the instrument via tygon tubing and suction cup. Verify higher pressure port is connected to the + pressure input and lower pressure port is connected to the - pressure input.
- 4. Take a reading and record the result on the IH Sampling Notes Form or Annual Ventilation Survey Form.