TOXALERT™

DATA SHEET

CALIBRATION KIT (CO)   CM200CALKIT

GENERAL DESCRIPTION:

The **CM200CALKIT** is the calibration kit designed specifically for use with the CM200 carbon monoxide monitor. The kit contains two tanks of span gas, which contain the proper concentrations of carbon monoxide and clear air needed for proper calibration. The required hardware and fittings are included to provide correct gas volume and metering. The kit also contains complete instructions and an industrial grade carrying case.

The kit has enough gas for approximately 80 calibrations. Calibration is recommended on a quarterly basis.

FEATURES:
- **Two Tanks of Standard Test Gas (17 Liter) 50 PPM & 100 PPM**
- **Regulator/Pressure Gauge**
- **Sensor Calibration Fitting With Tubing**
- **On/Off Valve**
- **Gas Humidification Jar**
- **Adjustment Screwdriver**
- **Magnetic Door Cover**
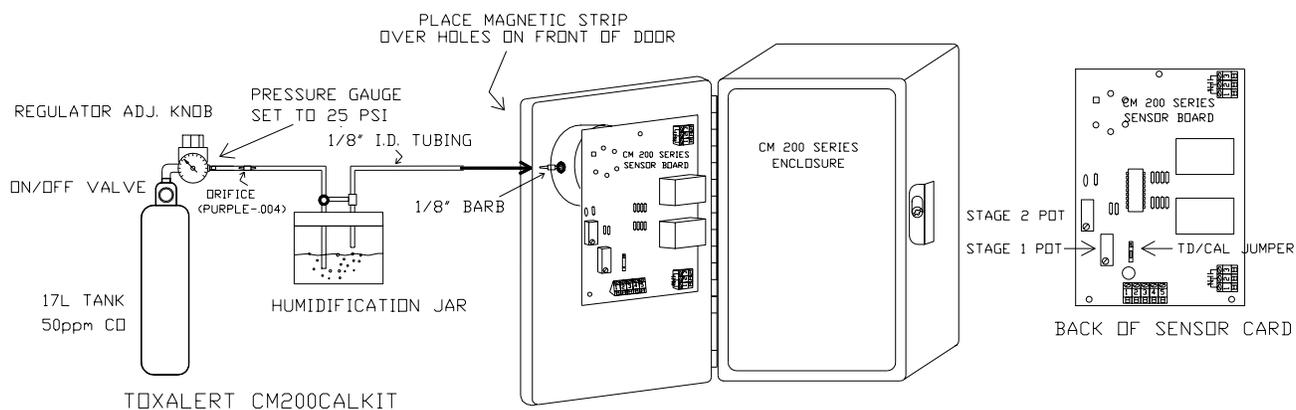- **Carrying Case**

CALIBRATION PROCEDURE:
(Refer to Fig. 1)
NOTE: SENSOR MUST BE CONTINUOUSLY POWERED FOR 72 HOURS PRIOR TO CALIBRATION.
KIT ASSEMBLY:
1. Fill humidification jar half full with tap water.
   NOTE: MAKE SURE HUMIDIFICATION JAR IS BELOW SENSOR SO THAT WATER IS NOT FORCED INTO SENSOR.
2. Screw the valve, regulator and gauge on to the tank of 50 PPM calibration gas.
3. Insert plastic tubing (with magnetic calibration adapter) into remaining barb fitting on water bottle.
4. Place the magnetic strip over the holes on the front of the door.

CM200 SERIES CALIBRATION SET-UP

PLACE MAGNETIC STRIP
OVER HOLES ON FRONT OF DOOR

REGULATOR ADJ. KNOB

PRESSURE GAUGE
SET TO 25 PSI

1/8" I.D. TUBING

ON/OFF VALVE

ORIFICE
(PURPLE-.004)

1/8" BARB

CM 200 SERIES
SENSOR BOARD

CM 200 SERIES
ENCLOSURE

CM 200 SERIES
SENSOR BOARD

STAGE 2 POT

STAGE 1 POT

TD/CAL JUMPER

17L TANK
50ppm CO

HUMIDIFICATION JAR

BACK OF SENSOR CARD

TOXALERT CM200CALKIT

CALIBRATION:

Fig. 1

1. With the monitor door open, place the TD/CAL jumper (Fig. 1) to the CAL position on the sensor card back.
2. Slowly open calibration gas tank valve of 50 PPM. Adjust pressure to read 25 psi (Lift regulator knob to adjust). This sets flow rate to 0.2 LPM via the purple orifice.
3. Allow gas to flow for approximately three (3) minutes.
4. If the **STATUS LED** is blinking green, place screwdriver on **STAGE 1** potentiometer (Fig. 1) and slowing turn CCW until **STATUS LED** changes to blink red and **WARN LED** lites yellow. Stage 1 (warn) is now calibrated.
5. Exchange calibration gas to 100 PPM. Again slowly open valve and assure pressure gage reads 25 psi. Allow gas to flow for three (3) minutes. **STATUS LED** should be blinking red and **WARN LED** should be lit. Place screwdriver on **STAGE 2** potentiometer (Fig. 1) and slowly turn CCW until **ALARM LED** turns red. If **ALARM LED** is already lit, turn potentiometer CW until it goes out then slowly CCW until it lites. **STAGE 2** is now calibrated
6. Remove calibration gas and shut off all valves.
7. Replace J2 jumper back to TD position. Sensor will return to blinking green in a short time.

ORDERING INFORMATION:

CM200CALKIT- Comes standard with calibration gases @ 50ppm carbon monoxide and 100ppm carbon monoxide (other concentrations available- please specify).

11/04