

## Quick Reference Guide For Model GX-2009

*Turn on and adjust the GX-2009 gas monitor in a known fresh air area.*

### 1. Turning the GX-2009 On

- a. Press and briefly hold down the POWER MODE button. The backlight will turn on and activate all LCD segments. Release the button when you hear a beep.
  - i. If Cal C-LIMIT is displayed, unit is past due for calibration. Press and release the POWER button to confirm and continue use.
  - ii. If FAIL C-LIMIT is displayed, unit is past due for calibration and cannot be used without calibrating.
- b. The instrument will go through a brief warm up showing date, number of days to next calibration, time of day, battery power, alarm latch setting, full scale values for all channels, warning alarm setting and high alarm setting for all channels, STEL alarm set point for H2S and CO and TWA alarm set point for H2S and CO channels.
- c. If the battery level is low or the battery icon is flashing and the unit's buzzer sounds, recharge the GX-2009 before use.

### 2. Measuring Mode Screen

- a. After warm-up the GX-2009 will display the current O2, H2S, CO and % LEL gas readings.
- b. If the readings are not displaying fresh air values, it is necessary to perform a Fresh Air adjustment.

### 3. Performing a Fresh Air Adjustment

- a. Find a fresh-air environment free of toxic or combustible gases and of normal oxygen content (20.9%).
- b. Press and hold the AIR button for about three seconds. The display will indicate Air CAL HOLD AIR. Continue to hold until ADJ and RELEASE are displayed. Release the AIR button. The GX-2009 will set to fresh air values, 0% LEL CH4, 20.9% O2, 0.0 ppm H2S and 0 ppm CO.

### 4. Performing a Breath Test

- a. Performing a breath test quickly tests the GX-2009 oxygen sensor, audible, visual and vibratory alarms for proper operation. Performing a breath test is not a substitute for calibration or performing a bump test on all sensors.
- b. Cup hands over O2 sensor opening and gently exhale over the sensor.
- c. The oxygen sensor output will drop below the alarm point of 19.5% and activate alarms.
- d. If alarms are set to latching, press the POWER MODE button to reset alarms once oxygen reading is above 19.5%.
  - i. Note: You may also see slight response on the CO gas sensor when performing a breath test.

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### 5. Sensor Failure

- a. If the GX-2009 experiences a sensor failure during start up, the LCD will indicate FAIL and indicate the sensor that has failed. Example: FAIL CO ppm SENSOR. To continue operation press and release the POWER MODE button to acknowledge the failure. Gas readings for that sensor will be replaced by dashes.
- b. It is necessary to replace sensor and calibrate as soon as possible.

### 6. Display Mode

- a. Press and release the POWER MODE button to access PEAK readings.
  - i. This will display the highest LEL, CO and H2S and lowest O2 readings encountered while the instrument has been in operation.
  - ii. To Reset PEAK readings, press and hold the AIR button until CLEAR RELEASE is displayed.
- b. Press the POWER MODE button again to move to the STEL screen.
  - i. STEL is a 15 minute average exposure for CO and H2S.
- c. Press the POWER MODE button again to move to the TWA screen
  - i. TWA is an 8 hour average exposure for CO and H2S.
- d. Press the POWER MODE button again to display the full scale readings of each channel.
- e. Pressing the POWER MODE button again will return you to the normal measuring screen.

### 7. Resetting Alarms

- a. If the GX-2009 alarms are set up to latch, press and release the POWER MODE button to reset alarms once alarm condition has cleared.
- b. If the GX-2009 alarms are set up for self-resetting, the alarms will automatically reset once the alarm condition has cleared.

### 8. Turning off the GX-2009

- a. Press and hold the POWER MODE button.
- b. TURN OFF will be displayed and the instrument will beep three times before shutting down.

### 9. Consult the operator's manual for further information.



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