

# Quick Reference Guide For Model Eagle 2

*Turn on and adjust the Eagle 2 gas monitor in a known fresh air area.*

## 1. Turning the Eagle 2 On

- Connect the sample hose and probe to the Eagle 2's quick connect inlet fitting.
- Press and briefly hold down the POWER ENTER RESET button. Release when you hear a beep.
- The instrument goes through its warm-up sequence and shows screens for battery voltage, active gases, lunch break (if LUNCH BREAK is turned on), low alarm, high alarm, STEL and TWA, calibration reminder (if CAL REMINDER is turned on), date and time, user ID/station ID/serial number (with user ID and station ID only appearing if USER/STATION ID is turned on), and sensor failures. It then goes into measuring mode.

## 2. Sensor Failure

- If the Eagle 2 experiences a sensor failure during start-up, a screen indicating which sensor failed appears (for example, FAIL SENSOR <H2S>) and the buzzer sounds a pulsing tone twice per second.
- To continue, press and release POWER ENTER RESET to acknowledge the failure. The gas reading is replaced by XXX.
- Replace the sensor as soon as possible.

## 3. Performing a Demand Zero

- Find a fresh-air environment free of toxic or combustible gases and of normal oxygen content (20.9%).
- Press and hold the AIR ▲ YES button. The LCD will prompt you to keep holding the AIR ▲ YES button and the buzzer will pulse. Release when prompted to do so. The Eagle 2 will set the fresh air values (0% LEL CH<sub>4</sub>, 20.9% O<sub>2</sub>, 0.0 ppm H<sub>2</sub>S, and 0 ppm CO).

## 4. Performing a Flow Integrity Test

**Verify there are no leaks in the hose and probe assembly, the pump is operating, and the flow fault circuit is active.**

- With the Eagle 2 in normal operation and with hose and probe attached, place finger over the end of the probe to block flow.
- The Eagle 2 should indicate FAIL LOW FLOW LEVEL within a few seconds. Press POWER ENTER RESET to restart the pump.
- If the Eagle 2 does not go into low flow alarm, inspect hose and probe for leaks. If the leakage cannot be resolved, have the Eagle 2 serviced.

## 5. Performing a Breath Test

**Test the oxygen sensor, pump, and audible and visual alarms for proper operation. Not a substitution for calibration or a bump test.**

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- a. Perform a demand zero.
- b. Cup hand over end of probe and gently exhale into probe.
- c. In a few seconds, the oxygen reading will drop below the alarm point of 19.5% and activate alarms.

*Note: When testing using a hose, allow 1 second of time for each foot of hose length. For example, allow a 5 foot hose 5 seconds for the sample to reach the sensors.*

- d. Press POWER ENTER RESET to reset alarms.

## 6. Display Mode

- a. To access Display Mode, while the Eagle 2 is in normal operation, press and release DISPLAY ADJUST NO.
- b. Use DISPLAY ADJUST NO to scroll through the following screens: peak readings, battery voltage, gas display, methane elimination mode (if unit is configured appropriately), relative response (if RELATIVE RESPONSE is turned on), STEL, TWA, view alarm settings, select user ID (if turned on), select station ID (if turned on), time in operation, date/time, and data logging time remaining (if turned on).
- c. Press and release DISPLAY ADJUST NO once more to return to Normal Operation.

## 7. Switching from LEL to PPM to %VOL

- a. The catalytic combustible channel's units can be changed from % LEL (Lower Explosive Limit) to PPM (parts per million) to % VOL (percent volume).
- b. While in normal operation, press and release RANGE ▼ SHIFT until the desired unit appears.

## 8. Resetting and Silencing Alarms

- a. If ALARM SILENCE is turned on, press and release POWER ENTER RESET to silence an alarm. The audible alarm will silence and the alarm LED's will continue to pulse.
- b. If the Eagle 2 alarms are set to latching, to reset an alarm, press and release POWER ENTER RESET once the alarm condition has cleared.
- c. If the Eagle 2 alarms are set to self-resetting, the alarms will automatically reset once the alarm condition has cleared.

## 9. Turning Off The Eagle 2

- a. Press and hold POWER ENTER RESET. The buzzer will pulse for about 5 seconds.
- b. Release the POWER ENTER RESET button when you see GOODBYE and the RKI logo. When these disappear, the Eagle 2 is off.

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