



Steri-Trac® Gas Monitoring System

Specially designed to help organizations provide an optimal

SAFE WORK ENVIRONMENT

while assuring complete

REGULATORY COMPLIANCE

with all government regulations (OSHA, CSA and ACGIH) and standards recommended by AAMI and The Joint Commission.

Organizations recognize

OPERATIONAL COST SAVINGS

through ChemDAQ's unique capabilities:

- Manage multiple toxic gases from a single platform
- Impending Alerts
- Sensor Exchange Calibration Program



Hydrogen Peroxide

Today, facilities have choices when it comes to low temperature sterilization of single use and re-useable instruments. In fact, use of hydrogen peroxide sterilizers has grown in the past decade as an alternative to ethylene oxide, mostly due to shorter cycle times.

Are you safe? How do you know?

As with all sterilant gases, sterility is achieved through the use of high concentrations of hydrogen peroxide (H₂O₂), a highly reactive gas. As a primary irritant:

- ❖ Skin contact with the liquid solution can cause bleaching or ulceration, depending on concentration and contact time
- ❖ Vapors are hazardous, targeting eyes & upper respiratory system
- ❖ Prolonged exposure to even low ppm can cause permanent lung damage
- ❖ ACGIH has classified H₂O₂ as A3: Confirmed Animal Carcinogen



What do Regulatory and other Government agencies say?

Because of potential health effects, there are limits on what an employee can be exposed to and employers have the responsibility to provide employees with a safe working environment.



OSHA 1.0 ppm Permissible Exposure Limit (PEL)



NIOSH 75 ppm Immediately Dangerous to Life & Health

Even though sterilizer manufacturers go to great lengths to make their products safe through careful design and incorporating many safety features, workplace exposures can and do occur due to equipment malfunction and engineering controls or work practice errors.

With the Steri-Trac® monitor, you will know when your employees are exposed. Our hydrogen peroxide sensor continuously measures the employee's breathing zone and reports any gas concentration real time.



For more information, go to <http://www.chemdaq.com/Sterilization.html>



Typical configuration includes a Remote Sensor Module + Area Monitor for each sterilizer. The Remote Sensor Module sets atop the sterilizer door to measure any H₂O₂ that may escape into the employee's breathing zone during normal operation.

Via directly connected signal cable, the Remote Sensor Module sends data to its companion Area Monitor, mounted in clear view of the operator and displays the actual gas concentration.

- ❖ Large digital tri-color LED display
- ❖ 2 user defined alarm thresholds
- ❖ Low alarm = flashing **YELLOW** display and pulsing alarm horn.
- ❖ High alarm = flashing **RED** display and continuous alarm horn
- ❖ Alarm silence button



Sensor Calibration/Exchange Program (SXP[®]) eliminates the cost of in-house calibration. Every 4 months ChemDAQ ships factory calibrated sensor modules, which you swap on site in a matter of seconds, returning the old ones in a pre-paid package to ChemDAQ.



OSHA Compliance made easy

While the Remote Sensor Module and Area Monitor report the actual gas concentration in each area, the Data Acquisition Computer is continuously collecting readings from each Area Monitor and calculating the OSHA PEL over an 8 hour period.



- ❖ Color coded graphical display shows status of each area
- ❖ Displays current ppm, any acute alarms from area monitors and current PEL
- ❖ Trend analysis and graphs
- ❖ Impending alerts give an early warning of a situation to enable proactively correcting the problem
- ❖ Meets requirement for retaining records for 30 years



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