



## STERI-TRAC ST2 Fixed Gas Detection System



“The Steri-Trac® ST2+ continuous gas monitoring system manufactured by ChemDAQ® effectively manages personal exposure of PAA and other sterilant gases”

### KEY FEATURES

- DAQ software provides trend analysis and provides early warning of a situation to enable maximum protection
- Sensor change out reduces downtime and costs
- Modular design for custom configuration meets facilities specific needs
- ChemDAQs chemical filter eliminates nuisance alarms
- Continuously and simultaneously tracks gas concentrations from up to 32 Area Monitors.

The ChemDAQ® Steri-Trac® ST2+ fixed real-time monitor continuously monitors and alerts you to hazardous vapour levels of dangerous sterilisation gases like Peracetic Acid and Hydrogen Peroxide in the air.

Steri-Trac provides a safe-entry or safe-area system that continuously monitors employee exposure to sterilants in the workplace.

#### Reliable Means of Employee Protection Against Sterilant Gases

- > Real-time measurement of vapour concentration in ppm, while simultaneously calculating an 8 hour and 15 minute time weighted average (TWA)
- > Easy to use “plug & play” setup
- > Visual and audible alerts are factory set to meet regulatory requirements, but are customisable to user preference
- > “Impending” alerts warn as exposure is approaching unsafe limits allowing for proactive measures to prevent exposure to hazardous chemical vapours
- > Data collected and stored in .csv format and is downloadable for analysis and reporting purposes
- > Mount by acrylic stand or wall mount

#### Area Monitor

- Continuously monitors gas concentrations in a given area.
- Large tri-colour LED display (Green, Yellow, and Red) supports user-adjustable high and low audible and visual alert settings.

#### A Growing Demand for Peracetic Acid Monitoring

The demand for PAA monitoring systems has grown substantially after safety bosses are starting to take note of the dangers of PAA. Over the past 2 years, a1-cbiss have completed Endoscopy department installations at several hospitals across the UK.

Safety managers are adopting a safety-conscious mindset by ensuring that sterilisation areas are protected by monitoring system to create a safe working environment for their employees.

#### Peracetic acid (PAA) is a liquid sterilant that is used in;

- Disinfection of medical devices in hospitals and manufacturing
- Treatment of bottles and beverage containers prior to filling
- Poultry, meat, seafood, fruits, vegetables and other food items to prevent foodborne illnesses

## Technical Specification

### PARAMETER

Sensor-monitor communications

Calibration

Calibration interval indicator<sup>1</sup>

Hot Swap sensor module

Battery Life

Warm-up time for new sensor module

Weight

Dimensions

Repair

Sensor used with

### DETAILS

Digital – USB

Bluetooth

E-Cell™ factory calibrated replacement sensor modules

LED on front:

Green OK,

Orange needs replacement

Red outside calibration interval, call for new sensor

Yes

Typically > 20 hours, battery life indicator in on/off switch

< 60s

230 g (8.1 oz)

12.7 x 8.3 x 5.1 cm(5.0" x 3.25 x 2.0)

Return to ChemDAQ, no user serviceable parts

SafeCide™ monitor, Steri-Trac® 2+ monitor

## Gas Sensor Specification

### PARAMETER

### ETHYLENE OXIDE (ETO)\*

### HYDROGEN PEROXIDE (H<sub>2</sub>O<sub>2</sub>)

### PERACETIC ACID (PAA)

Sensor Principle

Electrochemical

Electrochemical

Electrochemical

Range

0 – 50 ppm

0 – 20 ppm

0-3 ppm

Accuracy<sup>2</sup>

10%

10%

5%

Calibration Interval

4 months

4 months

4 Months

Resolution

0.1 ppm

0.1 ppm

0.01 ppm

Temperature Range

-20 to + 50°C

0 to + 50°C

-20 to + 50°C

Pressure Range

Atmospheric +/- 10 %

Response Time (T<sub>90</sub> (s)) < 140

< 150

<120

Relative Humidity 15 to 95 % noncondensing. Dew Point> 0°C

Repeatability: Greater

0.2 ppm

0.2 ppm

0.02 ppm

of X or 5% of signal. X =

Output

Linear

Linear

Linear

Spot-On® Filter

Yes

Not needed

Yes

1 Specifications subject to change

2 Relative to calibration gas

Rev 1.0 Nov 20