eNose® QA



Contamination Detection System (CDS - 400)

The eNose® QA is a rugged, handheld detection system for chemical vapor contaminants in bottled water containers and food and beverage containers. It is also used for detection of chemical leaks (refrigerants, fuels) and in other applications. QA eNose® can be used throughout a facility to check multiple processes.

The sensor mechanism consists of a NoseChip™ nanocomposite



sensor array and associated software capable of making a determination of clean versus contaminated samples or leaks in ~3 seconds after pulling the trigger. The system provides ready, alarm, and self-test status via visual indicators (LED, LCD) and audible alarms.

The eNose® QA is ready to sample on an 8 second measurement cycle. This provides a capability to process hundreds of samples per hour. It can also be used by delivery personnel to inspect and reject dirty bottles prior at pick up prior to return to bottling plants for recycling and reuse.

Features and Benefits

- Point-of-use detector for chemical vapor contaminants and leaks
- Semi-automatic on-board initialization
- On-board self-test and diagnostics with real-time status report
- Intuitive interface with simple status indicators
- Operates in a wide range of ambient environments
- Portability provides operation throughout a facility.





Detection Specifications

Sensor Technology

Contaminants Detected

(examples only)

Alarm limits are below operational requirements

Detection limits are much lower

Response Time **Detection Recovery Time** Sample Rate Sensor Calibration Sensor Life

Physical Characteristics

Alarm Weight Style

Sample measurement Vapor Sample Inlet/Outlet

Operational Specifications

Temperature (operation) Temperature (storage) Relative Humidity Ruggedness Warm-up Time Ambient air supply Rechargeable Battery Communication Data Logging Run-time Diagnostics

Additional Features

User Manual Carrying case and shoulder strap Serial cable PCnose monitoring software Internal desiccant filter External air inlet filter **Batteries** Offline battery charger

> Note: All specification values are typical and subject to change without notice.

NoseChip™ Nanocomposite Sensor Array

Cleaning products Petroleum products Gasoline Household cleaners

Diesel Laundry products

Kerosene Bleach

Paint Thinner Industrial cleaners, degreasers

Chemicals Lubricants, oils

Ammonia, Urea Motor oil; new, used/burned

Industrial lubricants Solvents

Alcohols **Beverages** Aromatics Wine, beer Naphthalene Distilled spirits Flavor additives Soda, juices

< 3 seconds < 5 seconds > 300 per hour

Automatic onboard calibration (< 90 sec) initiated by user

> 500,000 measurements

3 tri-color LEDs with color-matched alarm indicator < 3 lbs with batteries

Pistol-grip handheld; rugged, sealed (IP65) case Internal air sampling pump; trigger activated Inlet at sensing tip, protected by replaceable inlet filter; outlet vented through handle

14°F to +104°F / -10°C to +40°C -4 °F to +158°F / -20°C to +70°C 0% to 95% RH, non-condensing Splash proof; withstands drops, shocks

90 seconds

6 NiMH C cells; 8 hrs operation per charge

Disposable internal air filters; 60,000 measurements

Serial data cable

Available with **PCnose™** software option Available with **PCnose™** software option

