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. eNose® QA 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

Petroleum products
Gasoline
Diesel
Kerosene
Paint Thinner

Cleaning products
Household cleaners
Laundry products
Bleach
Industrial cleaners, degreasers

Chemicals
Ammonia, Urea
Solvents
Alcohols
Aromatics
Naphthalene
Flavor additives

Petroleum products
Diesel
Kerosene

Cleaning products
Bleach

Chemicals
Alcohols

Petroleum products

Cleaning products

Chemicals

Response Time < 3 seconds
Detection Recovery Time < 5 seconds
Sample Rate > 300 per hour
Sensor Calibration Automatic onboard calibration (< 90 sec) initiated by user
Sensor Life > 500,000 measurements

Physical Characteristics
Alarm 3 tri-color LEDs with color-matched alarm indicator
Weight < 3 lbs with batteries
Style Pistol-grip handheld; rugged, sealed (IP65) case
Sample measurement Internal air sampling pump; trigger activated
Vapor Sample Inlet/Outlet Inlet at sensing tip, protected by replaceable inlet filter; outlet vented through handle

Operational Specifications
Temperature (operation) 14°F to +104°F / -10°C to +40°C
Temperature (storage) -4 °F to +158°F / -20°C to +70°C
Relative Humidity 0% to 95% RH, non-condensing
Ruggedness Splash proof; withstands drops, shocks
Warm-up Time 90 seconds
Ambient air supply Disposable internal air filters; 60,000 measurements
Rechargeable Battery 6 NiMH C cells; 8 hrs operation per charge
Communication Serial data cable
Data Logging Available with PCnose™ software option
Run-time Diagnostics Available with PCnose™ software option

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.