

## VESDA SENSEPOINT XCL

### AMMONIA DETECTION FOR REFRIGERATION EQUIPMENT, COLD STORES AND FREEZERS



#### Reduce Operating Costs by Increasing the Service Life of Ammonia Detection Systems

Ammonia-based refrigeration systems are used throughout the brewing, soft drinks, dairy and food processing industries during the storage and distribution of finished goods. While these systems prolong the life of the end product and ensure product quality, ammonia represents a potential flammable and toxic risk.

Ammonia detection systems are often deployed in line with international regulations designed to monitor toxic levels and alarm before concentrations exceed published occupational exposure limits.

However one aspect of ammonia electro-chemical cell sensing technology is that its' operational life is adversely compromised if subjected to a continuous back ground concentration of ammonia. Background

concentrations of only a few parts per million (PPM) will shorten the operating life to a matter of a few months or even weeks. This in turn leads to a substantial increase in the operational and maintenance costs related to detector cell replacement.

#### Introducing VESDA Sensepoint XCL

As the world's leading manufacturer of aspirating smoke detection (ASD) solutions, Xtralis has introduced the VESDA Sensepoint XCL gas detector that connects to Xtralis ASD systems to deliver superior gas detection via multiple hole (multi-point) sampling. VESDA Sensepoint XCL uses a VESDA pipe network to actively sample air for the presence of flammable and toxic gases.

By drawing ammonia samples into the system as part of active air sampling, VESDA Sensepoint XCL brings into affect a known and quantifiable dilution ratio of fresh air, thus reducing the cells exposure to ammonia.

This unique technology also ensures occupational exposure alarms thresholds are activated in accordance with local codes.

## [VESDA Sensepoint XCL Benefits](#)

- Reduction in the number of ammonia detectors with multi-point sampling unique to the ASD pipe network
- Reduction in maintenance costs through detector life extension
- Ability to monitor several gas species in addition to ammonia through simple expansion without major construction or retrofitting
- Eliminates the need to enter the detection zone allowing for efficient, and cost-effective service and maintenance
- Reliable gas detection under airflow conditions through multi-point sampling
- Air drawn to the detector can be conditioned to remove airborne particulates and other contaminants ensuring reliable long-term detector performance
- Added benefit of reliable very early warning smoke detection with the proven laser-based VESDA ASD technology, now coupled with ammonia detection

All these benefits are delivered through the deployment of the unique VESDA Sensepoint XCL gas detection system.

## [Aspirating Smoke Detection with Gas Detection and Environmental Monitoring](#)

### **Time to Respond Because of Early Warning**

- Active air sampling means earlier detection of smoke and gas threats through the use of the VESDA distributed sampling pipe network
- Early detection provides time to react to emergencies while maintaining air quality for the public and personnel

### **Reliable Performance**

- The delivery of an air/gas sample is guaranteed because each sampling pipe is individually monitored for air-flow fault through the VESDA smoke detectors
- Absolute smoke measurement is provided with the industry's only optical clean-air bleed to ensure detector performance and longevity

## **Flexible System Integration**

- Real-time smoke and gas data is provided for an appropriate and staged response, including local alarm annunciation, alarm notification, and demand-controlled ventilation for energy cost savings
- Smoke and gas data can be gathered at a number of various control points through the use of a wide range of high- and low-level interfaces, including FACP, BMS, PLCs and HVAC systems
- Full compatibility with Xtralis VSC and VSM4 management software provides greater value because end users do not have to learn to operate additional software packages

## **Industry's Lowest Cost of Ownership**

- VESDA Sensepoint XCL leverages multi-hole ASD pipe networks to replace multiple fixed spot gas detectors reducing installation costs
- Allows quick and simple configuration using smart devices via Bluetooth to reduce commissioning and setup costs
- Eliminates the need to enter the detection zone allowing for efficient and cost-effective service and maintenance
- Capitalizes on ASD Application Engineering techniques to ensure reliable long-term performance in harsh environments

## [How Can VESDA Sensepoint XCL Benefit Your Business?](#)

- 24/7 dual early warning gas and smoke detection
- Better area coverage and protection through multi-hole air sampling
- Simplified installation, maintenance and service
- Lower total cost of ownership
- Simplified configuration and management using Xtralis VSC and VSM software
- Direct interface to FACP, HVAC, PLC and BMS using relays, 4-20 mA or Modbus outputs

Coupled with our design and engineering services, Xtralis offers customers a tailored ammonia detection system to enhance business continuity and protect employees from the effects of toxic gases.

