VESDA SENSEPOINT XCL - LARGE BORE ASD SYSTEM

PROTECTS ROAD TUNNELS

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CONSEQUENCES OF SMOKE OR GAS IN ROAD TUNNELS

Road tunnels, considered as closed or partially closed structures present personnel risks such as oxygen deficiency, exposure to toxic gases such as carbon monoxide (CO) and nitrogen dioxide (NO_2) from vehicle exhaust (gas build-up due to traffic stoppage and idling vehicles).

The risks presented by the toxic gases in road tunnels is reduced by proper ventilation. Correct ventilation (natural or mechanical) in road tunnels is vital to maintain adequate air quality for the safe passage of tunnel users. It is important to bring in fresh natural air into the road tunnels either to remove the exhaust gases under natural conditions or get rid of smoke in case of fire. While this approach of providing natural or mechanical ventilation is effective, the costs associated is very high, particularly when traffic levels are very low.

Energy efficient control of ventilation systems is a critical requirement in the provision of a gas monitoring system for road tunnels. Continuous monitoring of the toxic gases carbon monoxide (CO) and nitrogen dioxide (NO_2) to trigger demand control ventilation (DCV) reduces energy cost.

INTRODUCING VESDA SENSEPOINT XCL – LARGE BORE ASD SYSTEM

Extending its world-renowned VESDA aspirating smoke detection (ASD) technology, Xtralis has introduced the VESDA Sensepoint XCL – Large Bore gas detector that connects to the Xtralis VESDA smoke detector to deliver a combined smoke detection and environmental monitoring solution.

The benefits of VESDA Sensepoint XCL – Large Bore gas detectors are:

- Seamless incorporation onto Xtralis ASD pipe networks without complex system redesign, electrical cabling or tubing
- 24/7 active sampling of gas threats through multiple sampling holes on pipe network
- Compact in size with robust housing, suitable where space is a premium
- Capable of remote sampling – no need to enter restricted / secure areas, or use special access equipment
- Can be located at a central location allowing easy and safe access for inspection, service and maintenance
- Easily configured, commissioned and maintained through embedded Bluetooth wireless connection to smart device

COMBINED SMOKE AND GAS DETECTION

RELIABLE PERFORMANCE

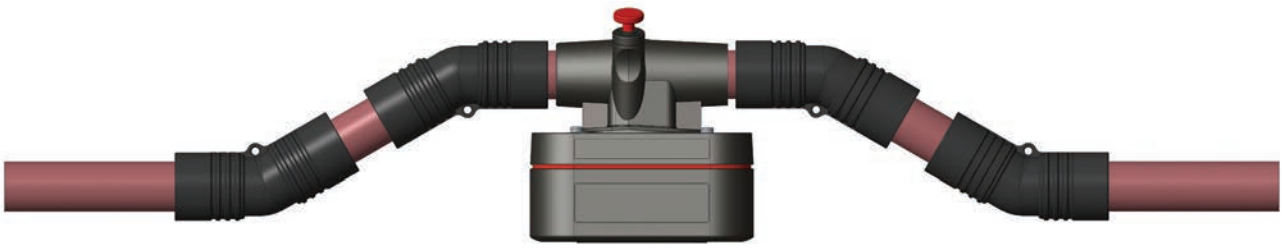
- The flow of smoke and gas in large bore pipes is monitored by the Xtralis ASD detector
- Absolute smoke measurement is provided with the industry's only optical clean-air bleed that guarantees reliable performance throughout operational life

FLEXIBLE SYSTEM INTEGRATION

- Real-time smoke and gas data can be sent to a number of control points through the use of a wide range of high-and low-level interfaces including FACP, BMS, PLCs and HVAC systems, simple audio/visual notification appliances

BENEFITS

- 24/7 active monitoring of smoke and gas threats
- The same ASD air sampling pipe network is used for the transportation of smoke and gas
- Remote sampling allows the mounting of detectors at a central location
- Flexible deployment of sampling holes at different heights and locations appropriate to the density of the target gas (i.e. ceiling detection for H_2, head height detection for CO)
- Lower total cost of ownership when compared to installing and maintaining conventional smoke and gas detectors:
  - Detectors' central mounting location enables easy access for service and maintenance
  - No need to access detection zone
  - Modular design allows parts to be replaced in the field



VESDA Sensepoint XCL – Large Bore Connect to Xtralis ASD Pipe Network

ABOUT XTRALIS

Xtralis is the leading global provider of powerful solutions for the very early and reliable detection of smoke, fire, and gas threats. Our technologies prevent disasters by giving users time to respond before life, critical infrastructure or business continuity is compromised.

We protect highly valued and irreplaceable assets and infrastructure belonging to the world's top governments and businesses.

To learn more, please visit us at www.xtralis.com

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