

SUCCESS STORY

LOGISTICS LEADER INSTALLS VESDA ASD TO PROTECT IT'S NEW FACILITY

Value Logistics is a leading provider of fully outsourced supply chain solutions that include customised door-to-door offerings via road, air and sea.

THE CHALLENGE

With a fleet of more than 4,600 vehicles and offering more than 350,000 m² (3,767,369 sq. ft) of warehousing nationally, Value Logistics Distribution Centres cater to customers' specific requirements for receiving, storage and distribution of goods in a multi-principled environment. Their world-class warehouse facilities process significant volumes of a variety of goods, which enables customers to take full advantage of economies of scale through consolidation of product types.

Value Logistics required a reliable and robust method of providing smoke detection in their new Logistics facility in Cape Town, South Africa. Housing a relatively large warehouse space, approximately 160 m (523 ft) long and 90 m (295 ft) wide with a ceiling height of 21 m (69 ft), the vast open space meant that conventional detection technologies were quickly discounted as a suitable smoke detection method.

- Beam type detectors do not cope very well with building movement and are, as a result, prone to false alarms
- Spot type detectors detect too late to prevent both stock and infrastructure loss and are difficult and costly to access for maintenance purposes

THE SOLUTION

Xtralis' Channel Partner, Technoswitch and their installation partner OPT-X Fire & Security recommended the use of VESDA Aspirating Smoke Detection (ASD) technology as it offers unparalleled performance in large open spaces such as warehouses.

The VESDA system constantly samples air from the warehouse via a pipe network linked to a centrally located detector for accurate analysis. The Smoke levels are continuously measured and compared to 4 alarm thresholds, which are set by the user and allow a staged response to the detection of smoke. For example, the first threshold may trigger a local investigation, whereas the third threshold could trigger a full emergency response.

VESDA® VLI



ABOUT VESDA

- Coverage up to 2,000 m² (21,520 sq. ft) per detector, providing cost effective smoke detection, regardless of the size, configuration and warehouse storage requirement
- Flexibility in design of pipe networks such as vertical pipe runs and in-rack detection, ensuring a cost-effective and fit for purpose fire engineering solution
- Customisable to address the unique environmental characteristics of individual warehouse facilities, such as the external pollution and airflow from the dispatch and delivery areas
- Add-on Analytics, with VESDA-E VEU/VEP, can identify the presence of unwanted diesel smoke from truck exhausts as well as higher than normal levels of dust that may contaminate stock
- Simple installation and verified performance at commissioning
- Low maintenance, saving both time and expense

ABOUT THE INSTALLER

Opt-X Fire & Security focuses on providing integrated solutions for Clients, utilising the most advanced products and software available today. Opt-X is a specialised solutions provider and has earned a reputation for providing quality installations on-time and within budget. The company's areas of expertise and strengths include Closed Circuit Television (CCTV), Emergency Public Address, Fire Detection, Gaseous Fire Protection, Access Control, Security and Building Management Systems and can thus match client's specifications with suitable equipment.

"Having deployed VESDA in our client's warehouse we are delighted that they have the best possible smoke detection solution available for this application. The system is capable of providing early warning of a fire condition, maintenance is simple, easy and low cost with fewer devices to manage and easy access that doesn't interfere with our clients day to day operations"

Kerry Rafferty
General Manager
Opt-X Fire & Security

Project:

Warehousing / Value Logistics

End User/Location:

Joostenberg Vlakte,
Cape Town, South Africa

Industry:

Logistics Services

Partners:

OPT-X

Solution:

VESDA VLI-855 (x11)
VLC (x5) with remote displays

"...a perfect solution in large open spaces where smoke from even a moderate sized fire is highly diluted and difficult to detect. VESDA overcomes all the limitations of conventional smoke detection methods"

Divan Lerm
Branch Manager Cape Town
Technoswitch