



VESDA[®]
LaserCOMPACT

When Performance Counts

VESDA LaserCOMPACT™

VESDA and Aspirating Smoke Detection

VESDA aspirating smoke detection is recognised world-wide as the detection technology for business critical environments. With an increasing awareness of the importance of business continuity planning, VESDA is the ideal technology to provide the earliest possible warning of a potential fire situation.

Over the years advances in technology has allowed high volume asset equipment to become smarter and smaller. Smaller areas house a higher overall value.

Mission critical equipment and processes are now more widespread. The value of the data, or process performed by this equipment is often more critical and irreplaceable than the equipment itself.

By noting these market trends and gathering feedback from our customer base it became clear there is a need for VESDA very early detection performance within small environments. To address this need, aspirating smoke detection had to be made more affordable. That's why we developed LaserCOMPACT, the newest arrival to the VESDA product range.

Offering the superior performance of aspirating smoke detection the new LaserCOMPACT can be cost effectively installed in smaller areas not previously considered.

Where should LaserCOMPACT be applied?

LaserCOMPACT is directly focused at those areas less than 500 sq.m (5,000sq.ft). While LaserPLUS and LaserSCANNER continue to address larger, more complex environments, LaserCOMPACT offers a simple, cost effective solution for the protection of single environments, small areas and protection within critical process equipment.

LaserCOMPACT provides a greater opportunity to share the benefits of VESDA detection in new environments. Typically these include archives, production machinery, ceiling voids, prison cells, dormitories, control cabinets, cable vaults, generator rooms, flight simulators, wet benches, and many more.

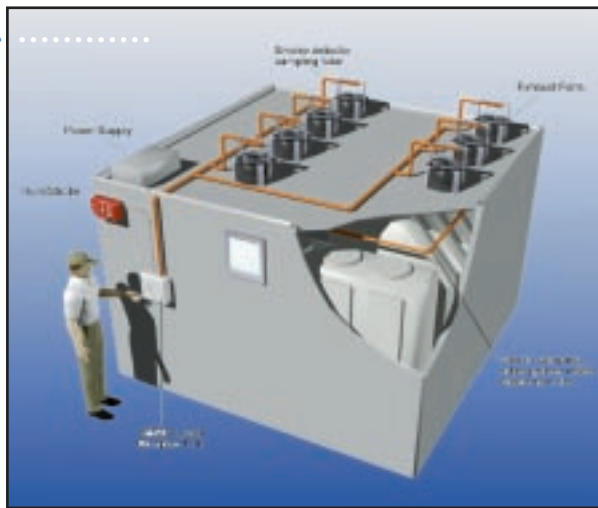


**Assuring Total
Productivity and
High Throughput
of Critical Processes**

This type of single environment application highlights some of the key benefits that can now be provided by the VESDA LaserCOMPACT. An affordable dedicated unit offers unsurpassed reliability, performance and ability to precisely identify the source of the smoke condition. Air sampling detection ensures the system remains free from nuisance alarms and provides easy access for testing and maintenance.

How does it work?

LaserCOMPACT uses the approved core LaserPLUS detection technology that has been proven in a wide range of environments. LaserCOMPACT operates by continually drawing air from a protected



environment via a high efficiency aspirator and sampling pipe network to a central highly sensitive detector. Once the air passes the flow sensor it is passed through a dual-stage filter. The first stage removes dust and dirt from the air before it enters the chamber for smoke detection. The second ultra fine stage provides a clean air supply to form clean air barriers. These clean air barriers protect the optical surfaces from contamination, ensuring the extended lifespan of the detector. Filtration and clean air management are critical in providing high sensitivity detection and eliminating the need for chamber cleaning. This ensures that the internal surfaces of the detector are not exposed to contamination.

The air sample is exposed to a highly efficient laser beam. The presence of smoke causes light scattering within the chamber that is detected by a very sensitive receiver circuit. The signal is processed and sent to a display that indicates the level of smoke either by bar graph, alarm threshold indicators and/or graphic display.

Specific response procedures can be initiated by the three adjustable alarm thresholds, ensuring a controlled and timely response to interface to fire alarm and building management systems.

LaserCOMPACT is available in two versions, one that interfaces via relays only (RO) or across either the relays or VESDAnet (VN).

Features

- Reduced size (225mm x 225mm x 85mm)
- Absolute Smoke Detection
- World's Widest Sensitivity Range,
0.005% to 20% Obs/m
- Single Pipe Inlet
- Simple LED Display (Alert/Fault, Pre-Alarm,
Fire, OK, Isolate)
- Reset/Isolate Button
- AutoLearn
- Referencing
- VESDAnet Communication
- Dual Stage Dust Filtration
- Configurable Relays
- Air Flow Monitoring
- Optional Remote Display/Relay Capability
- Simple Mounting Design

The VESDA Family

VESDA LaserCOMPACT

LaserCompact is available in two interface versions, either with simple relay outputs or communication across VESDAnet, the fault tolerant communications network for VESDA products.



Family Products

The broad range of VESDA products allows the benefits of aspirating smoke detection to be applied to a wide range of environments. LaserPLUS, LaserSCANNER and LaserCOMPACT address the wide range of end user needs.



Remotes

For those systems utilising VESDAnet remote annunciation, programming or interfacing can be achieved by the provision of remote units. Ideal for providing status information at the entrance of a protected area, a remote display can be used to warn a user that the area they are entering is polluted.



Subracks

To provide integration into other standard cabinet control systems displays, programmers, and VESDAnet sockets can all be accommodated in 19" sub racks.



High Level Interface

The High Level interface allows the operation of VESDA PC based programs. These include VESDA System Management, the VESDA computer monitoring and programming package, or VConfig, the commissioning, installation and servicing tool.



When Performance Counts

Applications

LaserCOMPACT offers new opportunities, providing affordable and reliable high sensitivity protection in areas not previously considered but where performance counts.

Where an operation is critical to the whole production process

Automated Production Machinery
Wet Benches
Ion Implanters
Cat Scan Equipment
Uninterruptible Power Supplies



Markets that dictate 24 hour service need VESDA detection performance

Cellular Sites
Switching Cabinets
Internet Service Provider (ISP) Server Sites
Small Switch Rooms



Where the information is more valuable than the system on which it sits

Data Storage Cabinets
Small Computer Rooms
Raised Floor Areas



Logistical control is essential for passenger safety

Air Traffic Control Towers
Flight Simulators
Signalling Rooms
Passenger Trains



Where aesthetics are important and smoke is difficult to detect

Small Archives
Stock/Store Rooms
Mansions & Estates
Smoke Free Monitoring



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Vision Systems is a manufacturing and services company which markets high technology products, contract engineering and development services in the commercial industrial and defence sectors globally.

Vision Systems operates worldwide from manufacturing and development facilities and sales offices based in USA, UK, Australia, Malaysia, and Korea.

The groups' strategy is to be a manufacturer of leading-edge, high value products that compete internationally through continued investment in innovation and routes to market.



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