The LaserSCANNER display has a bar graph to indicate the overall smoke level, alarm threshold and fault indication. The bar graph displays the individual sector smoke levels during the scanning sequence. There is an extra LED to indicate that a First Alarm Sector (FAS) has been identified and an extra function to the Silence Button to allow for Manual Scan to be initiated.

The LaserSCANNER display module can be mounted into the LaserSCANNER front cover or remotely into a 19in subrack or a Remote Box.

Relay Options
The LaserSCANNER detector can be fitted with a programmable 7 or 12 relay Termination card. Relays may be mounted in a remote box or in a 19in subrack.

VESDAnet™
The status of the detector, and all alarm, service and fault events, are transmitted to displays and external systems via VESDAnet, VESDA’s fault tolerant communications protocol. The VESDAnet loop provides a robust bi-directional communication network between devices, even allowing continued operation during single point wiring failures. It also provides system programming from a single location and forms the basis of the modular nature of the VESDA system.

AutoLearn™ and Referencing
The LaserSCANNER has both the AutoLearn™ and Referencing software functions to ensure optimum operation in different environments and to eliminate the occurrence of nuisance alarms.

AutoLearn monitors the ambient environment and sets the most appropriate alarm thresholds (Alert, Action, Fire 1, Fire 2) during the commissioning process.

Referencing ensures external pollution to a protected environment does not interfere with the true smoke level being detected.
Dimensions (WHD):
350mm x 225mm x 125mm (13.8in x 8.9in x 4.9in)

Weight:
4.0kg (9lbs) including Display and Programmer modules

Operating Conditions:
Detector Ambient: 0°C to 39°C (32° to 103°F)
Sampled Air: -20° to 60°C (-4° to 140°F)
Humidity: 10-95% RH, non-condensing

Sampling Network:
Aggregate pipe length: 200m (650ft)

Pipe Size:
External Diameter 25mm (1in)
Internal Diameter 15-21 mm (9/16in - 7/8in)

Programmable Relays:
7 or 12 Relays option
Contacts rated 2A @ 30VDC
NO/NC contacts Alert, Action, Fire 1, Fire 2, Maintenance, Urgent Fault & Isolate

Software Features:
Up to 18,000 events stored on FIFO basis.
AutoLearn: Minimum 15 minutes, maximum 15 days. Recommended minimum period 1 day. During AutoLearn thresholds are NOT changed from pre-set values.

Sensitivity Range:
0.005 to 20% obs/m (0.0015 to 6% obs/ft)

Alarm Threshold Setting Range:
Alert: 0.010 - 1.999% obs/m (0.0015 - 6.218% obs/ft)
Action: 0.010 - 1.995% obs/m (0.0013 - 6.234% obs/ft)
Fire 1: 0.015 - 2.000% obs/m (0.0046 - 6.252% obs/ft)
Fire 2: 0.020 - 20.000% obs/m (0.0062 - 6.250% obs/ft)
*Limited to 12% obs/m (4% obs/ft) in UL mode

Event Log: Up to 18,000 events stored on FIFO basis.
Four Alarm Levels (per sector pipe):
Alert, Action, Fire 1 & Fire 2
Two Fault Warning Levels: Maintenance and Major fault

Software Programmable Relays:
7 or 12

Maintenance Aids:
Filter & Flow monitoring.
Event reporting via VESDA.net or Event Log.
Adaptive Scan Threshold: Detector selects the appropriate scan threshold automatically.

Ordering Information:
Remote Programmer: VRT-100
Recessed Mounting Kit (Optional) VSP-011
Hand-held Programmer: VH1-100
19in Sub Rack Configuration: contact Vision Systems

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