

- Four Alarm Levels
- 7 Relay Outputs
- 3 in 1 Control/Display/Programmer Front Panel
- RS485 Network
- Support Modbus RTU Open Protocol

Description

The VDOT-ASD-400 uses high power, short wavelength blue LED as the detection light source. It is very sensitive to small smoke particles generated during the incipient stage of a fire, at which time can still remain invisible to the human eye.

The highest alarm sensitivity of the VDOT-ASD-400 high sensitivity smoke detector is 0.005%/m, which is 1000 times more sensitive to conventional point type smoke detector.

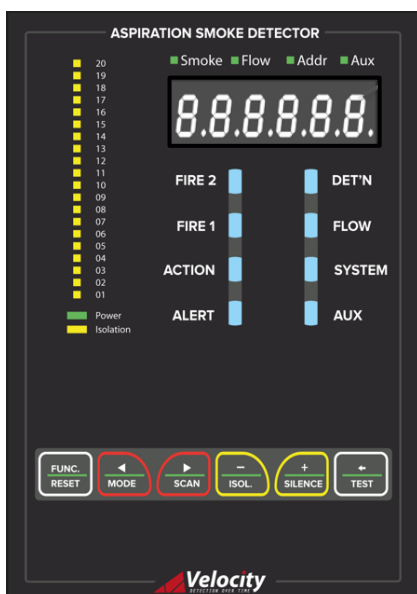
Smoke Detection Range: 0.001~25%/m
 Alarm Sensitivity Range: 0.005~20%/m

Event Log

No of Events: 25,000
 Event Types: Alarm, Fault, Operation, Smoke, Flow, Auxiliary Gas Sensors,



3-In-1 Front Panel Display



- **Control**
 - <Reset>, <Isolate>, <Silence> & <Test> buttons
- **Display**
 - 20 segment smoke level Indicator
 - 6-digits Numerical LEDs Display Detector Information
 - Real Time Smoke Level
 - Real Time Airflow Level Airflow
 - Device Address
 - Active Event & Codes
 - 4 Fire Alarm Indicators
 - 4 Fault Indicators
 - Isolated indicator
- **Programmer**
 - Enter Access Password

Specifications

Smoke Detection Principle: Forward Light Scattering Mass Detection

Smoke Detection Range: 0.001~25%/m

Alarm Sensitivity Range: 0.005~20%/m

Major Components:

- 4x Sampling Pipes, 4x Aspirators, 4x Flow Sensors, 1x High Sensitivity Smoke Detector, 1x Filter

Maximum Pipe Network*:

- Optimized Pipe Length 4x100m (4x18 Holes) • Optimized No. of Holes 4x60m (4x25 Holes)

Sampling Pipe

- Material: ABS/UPVC @ OD: 25mm

Alarm Levels and Time Delay

- Alert (0~60 sec.) • Action (0~60 sec.) • Fire-1 (0~60 sec.) • Fire-2 (0~60 sec.)

Environment Smoke Learning

- 24hours, 365days Non-Stop Smoke Background Level Learning

Flow Detection Principle:

- Heat Mass Detection

Flow Monitoring

- Pipe Flow Normalize to 100%
- Flow High and Flow Low Fault
- Adjustable Flow Detection Sensitivity

Relay Output

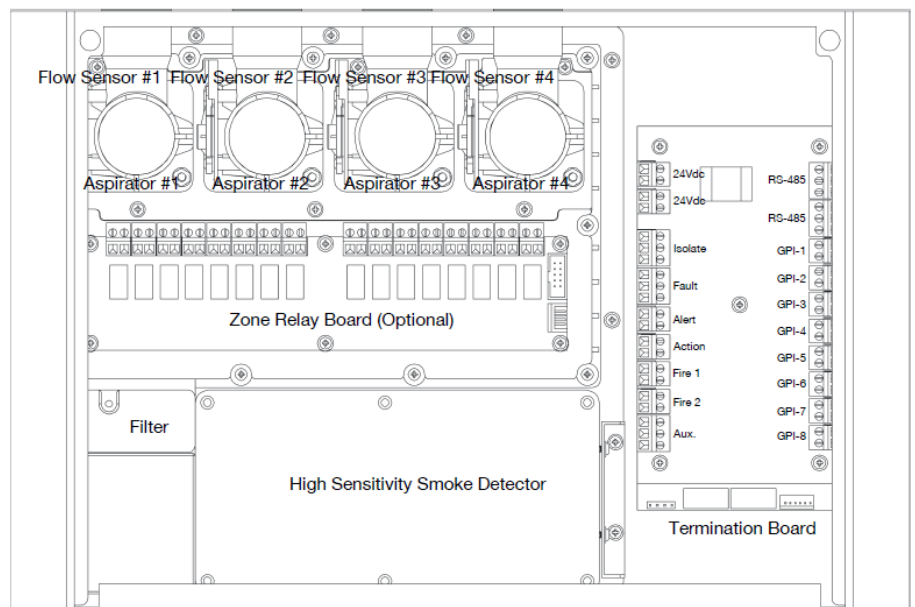
- 7 Relays on Termination Board (Configurable) Rating: 2A@30 VDC

Zone Relay Output (Optional)

- 16 Relays on Zone Relay Board (Configurable) Rating: 2A@30 VDC

General Purpose Inputs

- 8xGPIs (Configurable)
Reset, Isolate, Silence, Test, Scan, Mains Fault, Battery Fault, Power Fault, Sensitivity Modes x4



Internal Structure View

Communication

- RS-485 Network,
- Maximum number of devices on Network: 250
- Built in repeater,
- Maximum cable length between two adjacent devices: 1.2km
- Support Modbus RTU open protocol

Operating Conditions

- Ambient Temperature: 0~40 °C
- Sampling Air Temperature: -20~60 °C
- Humidity: 10~95% RH Non-condensing

Power: 24 ±4.8 Vdc - 820mA

Dimension: 415mm (L)
249mm (W)
108mm (H)

Weight: Net Weight : 5.2kg

