

VDOT-ASD-100

Single Zone Aspirating Detector



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

Description

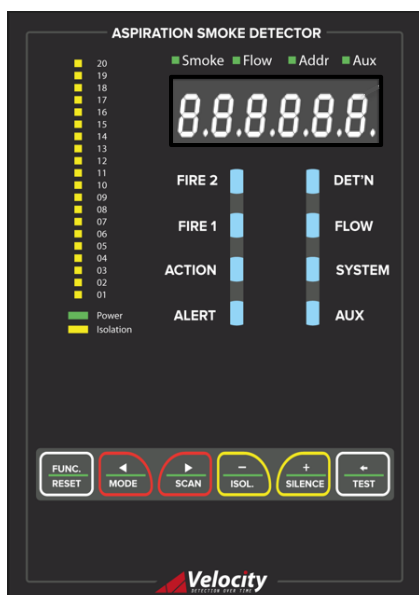
The VDOT-ASD-100 uses high power, short wavelength blue LED as the detection light source. It is very sensitive to small smoke particles generated during the incipient stage of a fire, at which time can still remain invisible to the human eye. The highest alarm sensitivity of the VDOT-ASD-100 high sensitivity 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

Single Pipe Length:

- 100m (18 Holes) • 60m (25 Holes)

Two Branch Pipe Length:

- 2x80m (2x15 Holes)

Four Branch Pipe Length:

- 4x60m (4x10 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

General Purpose Inputs

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

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

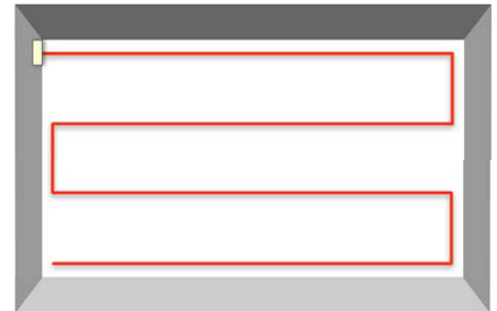
Operating Conditions

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

Power: 24 ±4.8 Vdc - 175~320mA (Aspirators setting from 1 to 10)

Dimension: 216mm (L) x 201mm (W) x 92mm (H)

Single Branch System



Two Branch System



Four Branch System

