DHI-HY-ASD620B-P

2 Pipes Aspirating Smoke Detector

- Wide sensitivity range -- 0.001% to 3% obs/m
- Precise detection and low false alarm rate due to dual-wave length laser particle identification technology
- Environment dynamic self-learning algorithm ensures the accurate detection with strong environment adaptation
- Maximum length of each sampling pipe is 79 m (259 ft), maximum sampling holes number is 16, meeting diverse requirements
- 5 alarm levels according concentration degree, suitable for most scenarios
- Intelligently calculates filter usage time and remaining life based on environment conditions, reminds to change filter in advance
- 5 relay outputs, supporting customized events including alarm and fault
- Support a total of 100,000 event log for analysis

System Overview

DHI-HY-ASD620B-P Aspirating Smoke Detector is designed to monitor smoke in the early stages. It draws in air samples through sampling pipes distributed in the protected area. After passing through a filter, these air samples enter a laser detection chamber for analysis. The detector identifies smoke particles and, upon reaching a preset alarm threshold, immediately triggers both visual and audible alerts to prompt users to take action. The detector can function as a standalone device, or connect to a fire alarm control panel.

Scene

This detector is suitable for (1) places with large space, high-speed airflow and high value, such as data centers, clean workshops, logistics warehouses, rail transit, airports, hospitals; (2) places that have low temperature, small space, or toxic and harmful materials, such as ancient buildings, museums, pipe galleries, substations, and energy storage stations.

Highlights

Dual-wavelength laser particle identification technology
Advanced dual-wavelength laser particle identification technology greatly reduces false alarms caused by interference sources such as water vapor and dust

Detection chamber self-cleaning
Continuous airflow realizes the self-cleaning of laser detection chamber

Intelligent monitoring
Advanced MEMS airflow sensing technology is capable of monitoring pipe damage and blockage

Large detection area
Max. length of each sampling pipe is 79 m, covering a area of 1422 m²

Strong protection, easy to install and maintain
IP66 design suits for most application scenarios. Built-in cables and a slide-in base make installation and maintenance easy and convenient.

Aspirating Smoke Detector | DHI-HY-ASD620B-P

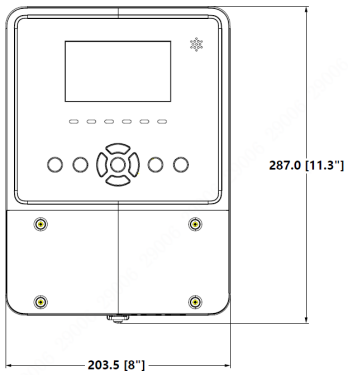
Technical Specification

Detection Sensitivity	0.001% to 3% obs/m
Pipe Number	2
Maximum Length of Each Pipe	79 m (259 ft)
Maximum Number of Sampling Holes	16
Sampling Pipe	Outer diameter: 25mm (1.0") Inner diameter: 21mm (0.8")
Maximum Monitoring Area	1422 m^2
Alarm Levels	Warning, Action, Fire Alarm 1, Fire Alarm 2, Fire Alarm 3
Alarm Methods	Sound and light alarm
Aspirator	1 suction pump
Airflow Sensor	2
Display	4.3" LCD
Event Records	100,000
Output Port	2 x RS485 1 x Ethernet 1 x USB 5 x relay
Relay Output	Contacts rated 5A at 30 VDC
Operating Voltage	24 VDC (12 VDC to 32 VDC)
Max. Current	2 A
Power Consumption	< 17 W
Operating Temperature	-10°C to +55°C (+14°F to +131°F)
Storage Temperature	-20°C to +70°C (-4°F to +158°F)
Operating Humidity	≤ 95% RH (non condensing)
Protection	IP66
Casing Material	PC
Dimensions	287 mm × 203.5 mm × 98.3 mm (11.3" × 8" × 3.9")
Weight	2.3 kg (5.1 lb)
Standards	VdS 2344:2022-10 VdS 2543:2021-03 EN 54-20:2006 + AC:2008 Class A, B, C
Certifications	VdS, CE, UKCA

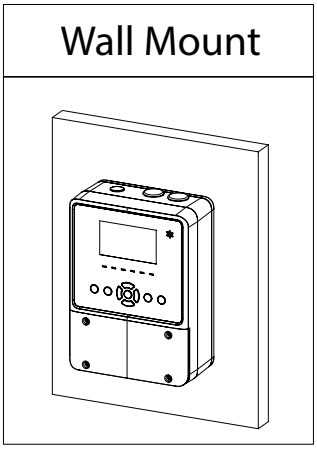
Ordering Information

Type	Model	Description
Aspirating Smoke Detector	DHI-HY-ASD620B-P	2 Pipes Aspirating Smoke Detector
Accessories (Optional)	DH-HY-FSG010-00	Built-in Filter
	DH-HY-FSG010-00	In-Line Filter
	DH-HY-DN25-CYG/ABS	ABS Pipe
	DH-HY-DN25-ZT	Socket
	DH-HY-DN25-WG	90° Bend
	DH-HY-DN25-DT	End Cap
	DH-HY-DN25-QF	Ball Valve
	DH-HY-DN25-GK	Pipe Clip
	DH-HY-DN25-FJCCYK	Socket with Anti-dust Sampling Hole
	DH-HY-DN25-MXGTJ	Capillary Sampling Point Kit
	DH-HY-DN25-SZCYTJ	Cane Sampling Kit
	DH-HY-DN25-LSQ	In-Line Water Trap
	DH-HY-DN25-ST	Equal Tee

Dimensions (mm/inch)



Installation



Accessories

Built-in Filter

In-Line Filter

ABS Pipe

Socket

90° Bend

End Cap

Ball Valve

Pipe Clip

Socket with Anti-dust Sampling Hole

Capillary Sampling Point Kit

Cane Sampling Kit

In-Line Water Trap

Equal Tee