

FAD-325 Analog Duct Detector Housing

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The FAD-325 Analog Duct Smoke Detector Housing is an accessory device. It comes with an FAD-325-DH Analog Duct Smoke Detector Replacement and housing for use in heating, ventilation, and air conditioning (HVAC) systems.

Notice

Do not use the FAD-325 for open-air detection.

Notice

Refer to NFPA 90A and NFPA 72 for general and additional information on operation and installation of duct smoke detectors.

Use the provided output terminals for remote status indicators.

Functions

Air Sampling

A tube that protrudes into the duct samples the air through positive pressure to the detector. An exhaust tube of one standard length is supplied in the installation kit with the analog duct smoke detector

- ▶ Detects and limits the spread of smoke throughout building HVAC ducts
- ▶ Uses FAD-325-DH Analog Duct Smoke Detector Replacement Head
- ▶ Easy to install with drill template
- ▶ Steel sampling tube - no screens or filters to clean

housing. Once the duct width is determined, order the air sampling tubes. Sampling tubes come in three standard lengths and can be cut to size to fit the duct.

Status Display

The detector head has two LEDs that flash every time the device is polled and can be switched on steady when the device goes into active condition.

Certifications and approvals

Region	Certification	
USA	UL	UROX: Smoke-automatic Fire Detectors (ANSI/UL 268)
	CSFM	see our website

Installation/configuration notes

Compatible Products

The following products are compatible with the FAD-325 Analog Duct Smoke Detector:

Category	Product ID	Product Description
Fire Panels	FPA-1000	Analog Addressable Fire Panels
Detectors	FAD-325-DH	Analog Duct Smoke Detector Replacement

Installation Considerations

Use the duct housing in HVAC systems with air velocities from 300 ft/min to 4000 ft/min (1.5 m/s to 20.4 m/s) and in ducts ranging from 1 ft to 10 ft (0.3 m to 1 m) in diameter.

Mounting



Notice

To prevent false alarms, do not mount the duct detector in areas of extreme high or low temperature, high humidity, or where duct air might contain gasses or excess dust. See NFPA 90A, 72, and 101.

A mounting template and four sheet metal screws are packaged in the installation kit. Attach the template to the duct at the desired place. Drill or punch and clean the holes. Sampling tube connectors have set screws preventing mounting in the wrong airflow direction.

Wiring

The terminals can use wire up to 14 AWG (ISO 2.5 mm²).

Parts included

Quant.	Component
1	FAD-325 Analog Duct Smoke Detector Housing
1	FAD-325-DH Analog Duct Smoke Detector Replacement
1	Hardware pack
1	Literature pack

Technical specifications

Electrical

Operating Voltage	DCP powered loop
Current Consumption	
• Active (LEDs on)	8 mA
• Standby	2 mA

Environmental

Relative Humidity:	10 % to 85 %, non-condensing
Operating Temperature:	+32°F to +120°F (0°C to +49°C)

Mechanical

Dimensions (H x W x D):	9 in. x 7.3 in. x 2.3 in. (22.9 cm x 18.5 cm x 5.8 cm)
Duct Air Velocity:	300 ft/min to 4000 ft/min (1.5 m/s to 20.4 m/s)
Weight:	3 lb (1.36 kg)
Color:	Gray

Material	
• Back box:	18 gauge (1.2 mm) steel
• Cover:	Clear plastic cover
Remote Indication:	Alarm

Ordering information

FAD-325 Analog Duct Detector Housing

Housing for use in heating, ventilation and air conditioning systems (HVAC) that comes with an FAD-325-DH Analog Duct Smoke Detector Replacement
Order number **FAD-325**

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