

DH-101-A - DUCT DETECTOR



PRODUCT DESCRIPTION

The **DH-101-A** is engineered and manufactured to comply with all applicable local codes as well as NFPA standards for duct smoke detection. To support system flexibility, the unit includes an output terminal for connection to remote status indicators.

Air sampling is achieved through a two-tube system that extends directly into the HVAC duct. Each detector ships with a standard 7.5" exhaust tube included in the installation kit. Once the duct width is known, the appropriate intake sampling tube can be selected. Intake tubes are available in three standard lengths—2.5 ft., 5 ft., and 10 ft. The tubes can be cut to the exact size required to match the duct dimensions, ensuring optimal airflow and detection performance.

STANDARD FEATURES

- Air Low Flow 100FPM Listed
- Detects and limits the spread of smoke throughout building HVAC
- Terminal Access Hatch
- Installs quickly and easily
- No screens or filters to clean
- Rugged gray steel back box with clear cover
- Accessories - Remote LED alarm indication capability
- UL 268A Listed

APPLICATION

The **HOCHIKI AMERICA DH-101-A Duct Smoke Detector** provides fast, reliable detection of smoke and combustion products in air moving through HVAC ducts, making it ideal for commercial, industrial, and residential applications.

Designed to detect smoke in air ducts to help prevent the movement of smoke throughout the building, the DH-101-A can trigger a complete HVAC system shutdown when smoke is detected, protecting both occupants and property.

Operating on a DCP powered loop, the detector ensures consistent performance and seamless integration with Hochiki fire alarm systems, delivering early warning, dependable operation, and peace of mind for any facility.

Refer to the document HA-06-485 for installation instructions

Product Listings



California State
Fire Marshal
3240-0410-0511

Specifications subject to change without notice.

DH-101-A DUCT DETECTOR

SPECIFICATIONS

Detector Head	ALO-V
Detector Head Type	Analog Photoelectric
Communication	DCP Powered Loop
Air Velocity	100 to 4000 ft/min
Sensitivity	1.40 – 3.30% / FT @ 100 FPM - 4000 FPM
Housing Material	18 G.A. steel backbox, clear plastic cover
Finish	Grey Powder Coat Enamel
Environment	Indoor dry use only
Mounting	Duct Side or Duct Top
Dimensions	7.5"W × 9.5"H × 2.5"D
Weight	Approximately 3.0 lb
SLC Current Consumption (includes sensor)	Alarm: 8.5 mA max Normal Standby: 340 µA (add 6.75 mA per SLC loop for panel battery backup calculations)
SLC Applied Voltage	Rated Range 17.10 – 41.0 VDC
Ambient Temperature	0°C (32°F) to 38°C (100°F)
Operating Temperature Range	0°C (32°F) to 38°C (100°F)
Storage Temperature Range	–30°C (22°F) to 70°C (158°)
Humidity	10% to 93% Relative Humidity (non-condensing)
Sampling Tubes	2.5 ft: Model STS-2.5 (0400-01580) 5 ft: Model STS-5.0 (0400-01590) 10 ft: Model STS-10.0 (0400-01570)
Accessories	RAI-LED Remote LED Indicator (0100-10730)
Duct Detector Part Number	DH-101-A (0200-02180)