

DH-99 ADDRESSABLE DUCT SMOKE DETECTOR



SPECIFICATIONS

Duct Detector Model	DH-99-A	DH-99-AR
Sensor Head	ALK-D	ALK-D
Sensor Type	Addressable Photoelectric	Addressable Photoelectric
Transmission Method	DCP - Digital Communication Protocol	DCP - Digital Communication Protocol
Input Voltage	DCP Powered Loop	DCP Powered loop / 24VDC
Standby Current	390µA	390µA
Alarm Current	540µA	540µA
Alarm Contact	N/A	2 form C rated 10A@250VAC
Sensitivity Test Method	Control Panel	Control Panel
Air Velocity	300 to 4000ft/min.	300 to 4000ft/min.
Ambient Temperature Range	32°F to 100°F (0°C to 38°C)	32°F to 100°F (0°C to 38°C)
Humidity	10% to 85% Relative Humidity non-condensing	10% to 85% Relative Humidity non-condensing
Housing	18 G.A. steel back-box, clear plastic cover	18 G.A. steel back-box, clear plastic cover
Dimensions	9-1/8"L X 7-1/4"W x 2-1/4"D	9-1/8"L X 7-1/4"W x 2-1/4"D
Sampling Tubes	2.5ft., 5ft., or 10ft.	2.5ft., 5ft., or 10ft
Net Weight	3lbs.	3lbs
Finish	Grey Paint	Gray Paint

STANDARD FEATURES

- Detects and limits the spread of smoke throughout building HVAC ducts
- Compatible with building automation and Fire Alarm Systems
- Installs quickly and easily
- No screen of filters to clean
- Rugged gray steel back box with clear cover
- Meets UL268A requirements
- Remote LED compatible with the DH-99-AR Model

APPLICATIONS

The Hochiki DH-99 Addressable Duct Smoke Detector provides early detections of smoke and products of combustions present in the air, moving through the HVAC ducts in Commercial, Industrial, and Residential applications. The DH-99 is designed to prevent the recirculation of smoke in areas by the Air Handling Systems, fans and blowers. Complete systems may be shut down in the event of smoke detection. The DH-99-A and the DH-99-AR operate on the Digital Communication Protocol (DCP), a 24VDC source is required for the DH-99-AR.

DESCRIPTION

The DH-99 is designed and built to meet all local requirements, as well as the NFPA regulations regarding duct smoke detectors. The DH-99-AR is provided with output terminals for remote accessories such as remote status indicators and reset key switches or push buttons. Air Sampling is accomplished by two tubes of one standard length (7.5") is supplied in the installation kit with the smoke duct unit. Once the duct width has been determined, the air intake sampling tubes must be ordered. Sampling tubes are supplied in three standard lengths 2.5ft., 5ft., and 10ft. And shall be cut to size to fit the duct. Mounting the duct smoke unit is accomplished by the use of a template and 4 sheet metal screws, which are provided. Mounting can be achieved without the removal of the clear cover which is secured by 4 capture screws.

The compact DH-99-AR contains 2 sets of form "C" contacts rated at 10 amps.

The pilot and alarm visual indicators, provided on the front of the DH-99-AR duct unit, signal the operating status of the device. A manual test/reset switch is located along the side.

PRODUCT LISTINGS



SIGNALING
UL
LISTED



FM
APPROVED
Pending



California State
Fire Marshal
Pending

Specifications subject to change without notice.

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DH-99 ADDRESSABLE DUCT SMOKE DETECTOR

ENGINEERING SPECIFICATIONS

Air duct smoke detectors shall be Hochiki Dh-99 Series. The detectors shall be listed by UL 268A. The detectors shall operate at air velocities from 300 feet per minute to 4000 feet per minute.

The housing shall be of metal construction and complete mechanical installation may be performed without removal of the detector cover. The duct detector shall not require additional filters or screens which must be maintained. The housing shall contain a base which will accept an addressable photoelectric sensor head. Terminal connections shall be of the screw type and be a minimum of #6 screw. For installations requiring relay functions, terminals shall be provided for remote pilot, remote alarm indication, strobe/horn and remote key switch. For installations not requiring relay functions, visual indication of alarm and power must be provided on detector front. A manual reset switch shall be located on the front of the device (DH-99-AR only) All wiring must comply with local codes and regulations.

TYPICAL WIRING DIAGRAMS

