



## DH200 Series Intelligent Low-Flow Duct Smoke Detectors

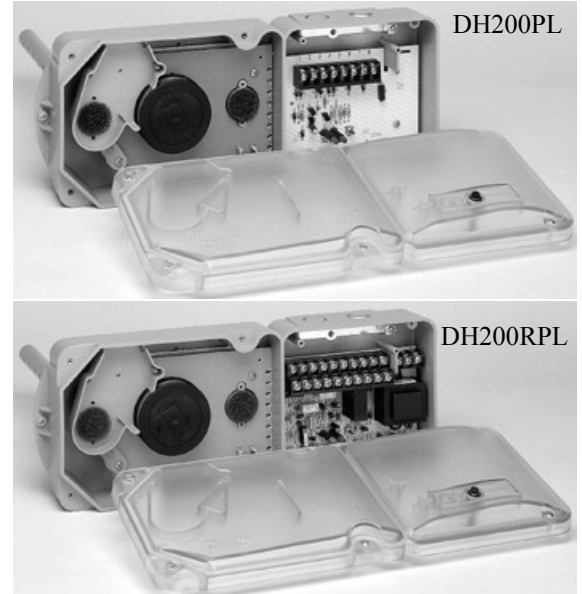


### Description:

The DH200 Low-Flow Series photoelectric air duct smoke detectors are capable of sensing smoke in air velocities from 100 to 4,000 feet per minute (0.5 to 20.32 m/sec).

This features low-flow technology that enables duct smoke detection throughout a broad range of airflow environments. Many difficult to solve HVAC applications occur in low airflow duct applications where reliable smoke detection is critical. Low-flow technology can detect smoke at air speed velocities of 100 feet per minute or greater, while continuing the same reliable performance to 4,000 feet per minute.

The DH200 Series Detector samples air currents passing through a duct and gives dependable performance for shutdown of fans, blowers, and air conditioning systems, preventing the spread of toxic smoke and fire gases through the protected area.



DH200 Series

### Operation:

These intelligent sensors communicate and are continuously monitored through the communication line. Detector sensitivity changes caused by dirt, temperature, or humidity are reported to the panel, allowing compensation algorithms to maintain the sensor's set sensitivity. An advance indication at the panel specifies the sensor address, allowing for selected maintenance to be performed as needed.

Remote alarm annunciation can be accomplished by using the RA400Z Remote Annunciator or the RTS451 or RTS451KEY Remote Test Station. Both these devices allow testing of the detector from a remote location.

The DH200 is designed for simplified installation and easy maintenance. The modular construction allows for easy cleaning and uncomplicated field replacement of the UL listed power and sensor boards.

### Features:

- Has outputs for remote LED display, remote test
- Incorporates zener diodes to conserve power for communications to other devices
- Easily accessible code wheels
- Air velocity rating from 100 to 4000 feet per minute
- Patented telescopic sampling tube
- Easy to clean
- Outside mounting tabs

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## Specifications:

The detector operates in air velocities from 100 to 4000 feet per minute. The detector is an intelligent photoelectronic detector. It is capable of local testing via magnetic switch or remote testing from the RTS451 or RTS451KEY Remote Test Station. The duct smoke detector housing incorporates an airtight smoke chamber in compliance with UL 268A. The housing is capable of mounting to either rectangular or round ducts without adapter brackets. An integral filter system is included to reduce dust and residue effects, thereby reducing maintenance and servicing. Sampling tube is easily installed after the housing is mounted to the duct by passing through the duct housing. Terminal connections are of the strip and clamp method suitable for 12-18 AWG wiring.

## Ordering Information:

Model No.	Description
DH200PL	Intelligent Low-Flow Duct Smoke Detector
DH200RPL	Intelligent Low-Flow Duct Smoke Detector (with relay)
SDH200	Data Specification Sheet

## Additional Specifications:

### DH200 Series

<b>Operating Temperature Range:</b>	32° to 131°F (0° to 55°C)
<b>Operating Humidity Range:</b>	10% to 93% relative humidity (non-condensing)
<b>Storage Temperature Range:</b>	-22° to +158°F (-30° to +70°C)
<b>Shipping Weight:</b>	DH200PL (3.35lbs. or 1.5 kg) DH200RPL (3.90lbs or 1.8 kg)
<b>Width:</b>	5½" (14 cm)
<b>Depth:</b>	2¾" (7 cm)

### WARNING:

Duct smoke detectors have specific limitations.

### DUCT SMOKE DETECTORS ARE:

NOT a substitute for an open area smoke detector,  
NOT a substitute for early warning detection, and  
NOT a replacement for a building's regular fire detection system.  
Refer to NFPA 72 and 90A for additional duct smoke detector application information.

Specifications are provided for information only and are believed to be accurate. However, no responsibility is assumed by King-Fisher Company inc., for their use.  
Specifications subject to change without notice.