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7251DH High Sensitivity Duct Smoke Detector



The System Sensor 7251DH detector is designed for interior duct applications where high velocity, high volume air changes are required for very early warning fire protection.

Features

- Temperature range 32°F to 100°F (0°C to 38°C)
- Air velocity rating from 300 to 4,000 FPM
- 24 VDC operation
- Easy and quick mounting to round or rectangular ducts from 1 ft to 12 ft (0.3 m to 3.7 m) wide
- 3 year warranty



Agency Listings



The 7251DH high sensitivity duct smoke detector provides dependable performance for management of fans, blowers, and air conditioning systems by using an intelligent laser smoke sensor residing in an efficient housing design that samples air currents passing through a duct. The twist-in, twist-out 7251 high sensitivity laser smoke detector head allows easy removal for quick cleaning, maintenance, and replacement without removing the duct housing. The laser detector achieves sensitivities as low as 0.02 percent-perfoot by using a laser diode instead of a standard LED light source in the sensing chamber. Many sensitive areas cannot tolerate even small amounts of smoke. This 7251DH detector is designed to protect valuable assets and operations where systems must remain online at all times.

Some ideal applications for the 7251DH high sensitivity duct smoke detector include:

- Telecommunications switching facilities
- Cellular telephone infrastructure
- Integrated circuit fabrication facilities
- Computer rooms
- Clean rooms

NFPA 76, Section 8.5.3.1.2.3 Very Early Warning Fire Protection, calls for sensors to be mounted at the return air location for a space in the following instances.

(A) "Where stand-alone packed HVAC units are installed, sensors or ports shall be installed where return air is brought back to the unit."

(B) "Sensors or ports shall be installed such that each covers no greater than 0.4 m^2 (4 $ft^2)$ of the return air opening."

The System Sensor 7251DH high sensitivity duct smoke detector is designed to satisfy NFPA 76 for Very Early Warning Fire Protection.

Accessories

System Sensor provides system flexibility with a variety of accessories, including two remote test stations, and several different means of visible and audible system annunciation. As with our duct detectors, all duct smoke detector accessories are UL listed.



RTS451KEY Remote Test Station with Key (UL S2522)



PA400W Piezo Sounder (UL S3593)



RTS451 Remote Test Station (UL S2522)



RA400Z Remote Annunciator (UL S2522)

7251DH Duct Smoke Detector Specifications

Architectural/Engineering Specifications

The high sensitivity air duct smoke detector shall be a System Sensor Model 7251DH high sensitivity duct smoke detector. The detector shall be UL listed per UL S911, Standard for Smoke Detectors for Duct Applications, specifically for use in air handling systems. The detector shall operate at air velocities from 300 feet per minute to 4000 feet per minute. The detector shall have an operating temperature range of 32°F to 100°F. The detector housing shall be equipped with an integral mounting base capable of accommodating laser smoke detector heads. It shall be capable of local testing via magnetic switch or remote testing using the RTS451KEY or RTS451 Remote Test Station. The duct detector housing shall incorporate an airtight smoke chamber in compliance with UL S911. The housing shall be capable of mounting to rectangular or round ducts up to 12 ft wide without adapter brackets. An integral filter system shall be included to reduce dust and residue effects on detector and housing, thereby reducing maintenance and servicing. Sampling tubes shall be installed after the housing is mounted to the duct by passing through the duct housing. Terminal connections shall be of the strip and clamp method suitable for 14 to 18 AWG wiring.

Physical Specifications			
Size	14½ in L × 5 in W × 4 in D (36.8 cm L × 12.7 cm W × 10.2 cm D)		
Shipping Weight	2.8 lbs (1.1 kg)		
Operating Temperature Range	32°F to 100°F (0°C to 38°C)		
Storage Temperature Range	-22°F to 100°F (-30°C to 38°C)		
Operating Humidity Range	10% to 93% relative humidity		
Air Duct Velocity	300 to 4000 ft/min (0.5 to 20.32 m/sec)		
Electrical Specifications			
Voltage	24 VDC		
Power supply voltage	15 to 32 VDC		
Current Requirements (Using No	Accessories)		
Max. standby current	230 µA @ 24 VDC (without communication); 330 µA @ 24 VDC (one communication every 5 sec with LED enabled)		
Max. alarm current	6.5 mA (LED on)		

Ordering Information

Part No.	Description			
7251DH	High sensitivity duct smoke detector			
7251DHA	High sensitivity duct smoke detector (Canadian model)			
7251	Replacement intelligent laser sensor head			
Accessories				
ST-1.5	Metal sampling tube duct widths 1 ft to 2 ft (0.3 m to 0.6 m)	RTS451	Remote test station	
ST-3	Metal sampling tube duct widths 2 ft to 4 ft (0.6 m to 1.2 m)	PA400W(A)	Piezo sounder (white)	
ST-5	Metal sampling tube duct widths 4 ft to 8 ft (1.2 m to 2.4 m)	RA400Z(A)	Remote annunciator alarm LED	
ST-10	Metal sampling tube duct widths 8 ft to 12 ft (2.4 m to 3.7 m)	F36-05-00	Replacement air filters (two per package)	
P48-21-00	End cap for metal sampling tubes	M02-04-00	Test magnet	
RTS451KEY(A)*	Remote test station with key	A2650-01	Replacement installation kit (mounting hardware)	

*(A) suffix denotes Canadian products

