

## Duct Detection

Reshaping Duct Smoke Detection



#### European Manufacturing Centre

System Sensor Pittway Tecnologica S.p.A Via Caboto 19/3 34147 Trieste Italy

Tel: +39 040 949 0111 Fax: +39 040 382 137

Email: sse.sales@systemsensor.com www.systemsensoreurope.com



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## The world's finest manufacturing facility

•• System Sensor's European products are researched, designed and manufactured at our 10,000m<sup>2</sup> state-ofthe-art facility in Trieste, Italy. Quite simply, it's the best of its kind. Advanced technology and manufacturing processes coupled with dedicated staff ensure precision manufacturing and incomparable quality control. And 100% testing ensures that nothing leaves our doors unless it's in perfect working order and capable of providing years of trouble-free protection.

We complement this unique offering with a global network of fire systems integration and distribution partners who serve end-users, consulting engineers and specifiers in more than forty countries. All share in our business expertise and, of course, our passion for perfection.



# Reshaping Duct Smoke Detection

 When System Sensor introduced the Innovair line of duct smoke detectors and accessories, it was revolutionary. Mechanical contractors and fire systems installers like you discovered its tremendous ease of use and reliability. Before long, the Innovair line rose to the top of the industry.

Over the years, you have provided us with invaluable advice on how we could make our great products even better. You told us you needed a product that was flexible enough to work in any installation and to meet any code requirement. You wanted a duct smoke detector that's easy to install, easy to test, and easy to maintain.

Now, System Sensor is proud to bring you InnovairFlex,™ a quantum leap forward in duct smoke detection. InnovairFlex is a true collaboration:

your expertise in the field plus our expertise in life safety design and manufacture.

This brochure will introduce you to all the features and benefits of these extraordinary new products. All the important details are presented right here. We also invite you to visit systemsensor.com/flex to watch video of InnovairFlex products in action.

Before you dive in and explore all that InnovairFlex has to offer, we wanted to take a moment to thank you for your contribution. Without the tireless effort of our partners in the field, advances like those you are about to discover would not be possible.

### Greater Flexibility

Air velocity rating from 100 ft/min to 4,000 ft/min (0.5 m/s to 20.32 m/sec) Versatile mounting options in square or rectangular configuration with modular construction Broader ranges for operating temperature (-4°F to 158°F) and humidity (0% to 95% non-condensing)

### Easy Installation

Increased wiring space with a newly added <sup>3</sup>/<sub>4</sub>-inch conduit knockout

New high contrast terminal designations No tools needed for installing patented sampling tube from either front or back of the detector

#### Superior Features

Photoelectric plug-in sensor Integrated low-flow technology Superb false alarm immunity with the latest sensor technology Patented interconnectability for multi-fan shutdown Built-in short circuit protection from wiring errors

Field-selectable settings for configuring the detectors

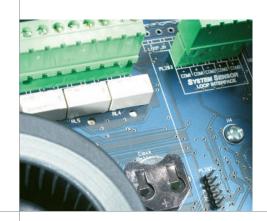
### Seamless Transition

Backward compatibility with existing Innovair products, including remote accessories

Easy and quick mounting to round or rectangular ducts of 0.3 m to 3.7 m wide







#### Features & Benefits

#### DNRE

- Intelligent non-relay photoelectric low-flow duct smoke detector
- A cover tamper feature to provide a trouble signal for removed or improperly installed sensor cover
- Available space within housing to accommodate mounting of relay module
- Easily accessible code wheels on sensor head (sold separately)
- NEMA Type 4 UL listed for non-hazardous indoor and outdoor applications (DNREW only)
- UV Resistant, UL listed housing and cover material (DNRW only)

#### D2€ Only

- A cover tamper feature to provide a trouble signal for removed or improperly installed sensor cover
- 24 VDC



## The Duct Detection SystemAspirating Detection System

The InnovairFlex<sup>™</sup> Series are the only duct smoke detectors flexible enough to fit configurations from square to rectangular and everything in between.



D2 Duct Smoke Detector

Feature



DNR Duct Smoke Detector

Physical Specifications			
Size: (Rectangular Dimensions)	37 cm Length X 12.7 cm Width X 6.36 cm Depth	37 cm Length; 12.7 cm Width; 6.36 cm Depth	
(Square Dimensions)	19.7 cm Length X 22.9 cm Width X 6.35 cm Depth	19.7 cm Length; 22.9 cm Width; 6.35 cm Depth	
Weight:	0.82 kg	0.73 kg	
Operating Temperature Range:	-20°C to 70°C	-20°C to 70°C	
Storage Temperature Range:	-30° to 70°C	-30° to 70°C	
Operating Humidity Range:	0% to 95% relative humidity non-condensing	0% to 95% relative humidity non-condensing	
Air Duct Velocity:	0.5 to 20.32 m/sec	0.5 to 20.32 m/sec	
Accessories			
2151	2-wire conventional photoelectric sensor head		
DST1	Metal sampling tube duct width up to 1ft (0.3m)	P48-21-00	End cap for metal sampling tubes
DST1.5	Metal sampling tube duct widths 1 ft to 2 ft (0.3 to 0.6 m)	PS12/24SLENSC	Ceiling-mount "SMOKE" lens
DST3	Metal sampling tube duct widths 2 ft to 4 ft (0.6 to 1.2 m)	PS12/24SLENSW	Wall-mount "SMOKE" lens
DST5	Metal sampling tube duct widths 4 ft to 8 ft (1.2 to 2.4 m)	PS24LO	Mini-Alert add-on strobe (red)
DST10	Metal sampling tube duct widths 8 ft to 12 ft (2.4 to 3.7 m)	PS24LOW	Mini-Alert add-on strobe (white)
APA151	Remote annunciator with piezo alarm	RA400Z	Remote annunciator alarm LED
DCOIL	2-wire Remote Test Coil (use with RTS451 / RTS451KEY)	RTS451	Remote test station
DH4000E-1	Weatherproof enclosure	RTS451KEY	Remote test station with key lock
ETX	Metal exhaust tube duct width 1ft (0.3m)	SSK451	Multi-signaling accessory
M02-04-00	Test magnet		
MHR	Mini Horn, Red		
MHW Mini Horn,	White		

