

Next Generation Smoke Detectors

Curtiss-Wright Controls, Integrated Sensing, Inc. has been providing the aerospace industry with a variety of Smoke Detectors since the late 1960s, and has delivered over 85,000 units. The Next Generation Smoke Detectors are designed with advanced technology, using the multiple criteria particle discrimination principle, and are enhanced with the ability to discriminate false stimulant. This more robust design can eliminate over 99% of the false alarms that are commonly encountered in the aircraft environment, compared to existing optical smoke detector technology.



Model 3302



Model 3301

Benefits

- Superior Immunity to “False Smoke”
- Eliminates 99% of all false alarms
- Ability to discriminate common contaminants from real fire smoke
- Faster Response to Real Fire
- Improved safety
- Reduced declared emergencies, displaced passengers, diversions and flight cancellations
- Improved customer satisfaction
- Improved Profit For Airline Operation
- Can Bus data for CMC display
- **NOW TSO-C-1d for all models**

Next Generation Smoke Detectors

Next Generation False Alarm Test Results

Common False Smoke Stimuli	False Alarms			
	Ducted Type		Open Air Type	
Moisture / Humidity / Condensation	60%	✓	50%	✓
Dry Ice	15%	✓	15%	✓
Dirt / Animal Hair / Insects	10%	✓	13%	✓
Flower Pollen	5%	✓	12%	✓
Sand	5%	✓	5%	✓
Pesticide	2%	✓	2%	✓
Dust	2%	✓	2%	✓
Others	1%	✓	1%	✓
False Alarms Eliminated	99%		99%	

✓ 100% Immune ✓ 50-75% Immune

New Smoke Detector Model Numbers

Model Numbers	Detector Type	Comments
3301-11	Open Air	New Model with RS485 Bus and CAN BUS and Pin Programmable Address
3301-12	Open Air	Replace 2156-55
3302-11	Ducted	New Model with RS485 & CAN Bus and Pin Programmable Address
3302-2	Ducted	Replace 2156-604A
3302-3	Ducted	Replace 2156-606A
3302-4	Ducted	Replace 2156-646A
3302-5	Ducted	Replace 2156-656A
3302-6	Ducted	Replace 2156-756A

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