Chubb Resonance Sensors

Fire Systems

Prevent Fire | **Detect Fire** | Contain Fire | Escape Fire

Product

Chubb Resonance Intelligent Analogue Addressable Fire Sensors





System Benefits

The Chubb Resonance Sensor Range harnesses the power of new technology and communications protocol to create an expanded and enhanced range of product, providing wider application opportunities and performance improvements.

- Microprocessor based products provide a more intelligent solution
- Special Algorithms provide both a constant sensitivity level between service intervals and eliminate spurious alarms resulting from electrical noise
- Wider operating temperature range to cope with harsh environments
- Improved thermal response characteristics provide application flexibility
- Reduced Installation and Commissioning Costs
- Increased product flexibility

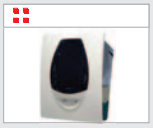
Chubb Resonance Sensors

Resonance Optical Smoke Detector
These detectors are suitable for general applications but are more sensitive to a wider range of optically dense smoke particles produced by smouldering and rapidly burning fires of man-made materials.

Resonance Combined Sensor
This multi sensor is particulary useful over a wide range of fire risk applications and incorporates heat detection, smoke detection or a combination of both.

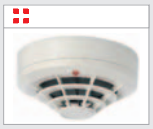
Resonance Ionisation Smoke Detector
Suitable for general applications but are particularly sensitive to invisible smoke particles produced by rapidly burning flaming fires of a carbonaceous nature.

Resonance High Sensitivity Laser Detector
The high sensitivity 'laser' based intelligent smoke sensor is a unique offering from that provides extremely high sensitivity to fire conditions, by detecting the earliest particles of combustion.



Resonance Beam Detector
These linear optical beam smoke detectors operate primarily on the principle of light obscuration utilising an Infra-Red beam and are particularly appropriate for protecting buildings with large open spaces such as warehouses, atriums etc.

Resonance Rate of Rise Heat Detector
"Rate of rise' temperature sensors provide solutions for a wide range of applications.



Resonance Fixed Heat Detector
Heat detectors are generally used in locations where smoke detectors may prove unsuitable due to environmental conditions.

Resonance Addressable Manual Call Point
The addressable manual call points are designed for maximum reliability, ease of use and safety.

Resonance Weatherproof Addressable Manual Call Point
Features a Weatherproof housing which means it can be mounted in the most severe environmental conditions without water ingress.

Technical Data

Power	Resonance Optical Smoke Detector	Resonance Combined Sensor	Resonance Ionisation Smoke Detector	Resonance Rate of Rise Heat Detector	Resonance Fixed Heat Detector	Resonance High Sensitivity Laser Detector	Resonance Beam Detector
Supply Voltage VDC	15-32	15-32	15-32	15-32	15-32	15-32	15-32
Current Consumption							
Quiescent Current (micro-amps)	300	300	300	300	300	330	2 milli-amps
Alarm current (milli-amps)	7	7	7	7	7	7	8.5
Alarm indication	Clear LED, Red in alarm	Clear LED, Red in alarm	Clear LED, Red in alarm	Clear LED, Red in alarm	Clear LED, Red in alarm	Clear LED, Red in alarm	Clear LED, Red in alarm
Physical							
Diameter (mm)	102	102	102	102	102	104	H 254 x W 190 x D 84
Height with base (mm)	43	43	43	51	51	42	
Weight (grams)	111	111	111	78	78	120	1.77kg
Colour	Pantone Warm Grey 1C	Pantone Warm Grey 1C	Pantone Warm Grey 1C	Pantone Warm Grey 1C	Pantone Warm Grey 1C	Pantone Warm Grey 1C	White Trim, Black Box
Case material	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Environment							
Normal Operating Temperature (°C)	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-10 to +55	-30 to +55
Humidity (Non-condensing)	10% to 93%	10% to 93%	10% to 93%	10% to 93%	10% to 93%	10% to 93%	0% to 95%
Max. Continuous Wind speed (m/s)	Unaffected	Unaffected	7.6	Unaffected	Unaffected	Unaffected	Unaffected
Radioactive source	N/A	N/A	Ami241	N/A	N/A	N/A	N/A
I/P Rating	43	43	43	23	23	43	54
Upper Temp. Limit (°C)	N/A	N/A	N/A	58	58	N/A	N/A
Approvals							
Approvals standard	EN54 Part 7	EN54 Part 5/7	EN54 Part 7	EN54 Part 5	EN54 Part 5	EN54 Part 7	EN54 Part 12
LPCB approved	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Part Numbers	F850701N	F850702N	F850700N	F850703N	F850704N	F850705N	F850706N

FPS156/08/06