

Senator 200

High Sensitivity Smoke Detector



Key Features

- High sensitivity provided by laser based forward light scatter for reliable early warning.
- Unique ClassiFire-3D[®] Perceptive Artificial Intelligence System.
- Laser Dust Discrimination (LDD) with a patented dust management and separator system.
- 4 sampling pipes up to 250m maximum total length.
- RS485 communications built in as standard for networking and remote communications.
- LPCB approved sampling for up to 100 sampling holes.

Description

Senator 200 is a highly sophisticated 'next generation' of High Sensitivity Aspirating Smoke Detection product that has been designed to ensure that installation and commissioning is as simple as possible, while optimizing performance.

Senator 200 has unmatched sensitivity potential, providing the earliest warning of incipient fire with minimum rate of nuisance alarms.

ClassiFire-3D[®] is the most comprehensive intelligence found in a smoke detection system to date and ensures that the detector operates at optimum sensitivity for the protected environment, without the need for complex setup.

Senator 200 can be provided as a standard detector or as a detector c/w command module, the command module provides central monitoring and display of detectors on a SenseNET network.

Volt-free Fire and Fault relay outputs are available for remote monitoring by local fire detection or BMS systems. Senator 200 is also provided with 3 pairs of remote control input terminals which can be configured for a number of functions.

Senator 200 can be programmed through the front panel, via a command module or PC.



Options Available

- Addressable Protocol Interface Cards APIC[™] available for most popular industry signalling protocols.
- Command Module available for central monitoring and display.
- SenseNet compatible - up to 127 detectors per loop.
- Remote Display units available.
- Lower cost minimum display option is available.
- Approved/listed by most major international fire protection certification agencies.

Applications

- Data Storage Units
- Computer Rooms
- Plant Rooms
- Air Conditioning Units
- Equipment Racks
- Prison Cells
- Air Ducts
- Heritage Properties
- Motor Rooms

Senator 200 - Technical Specification

Supply Voltage	21.6-26.4V DC
Current consumption	Detector: 300mA (fan speed 1), 470mA (fan speed 8) 750mA (max fan speed 16) Detector with command module: 750mA (fan speed 1), 920mA (fan speed 8), 1.5A (max fan speed 16)
Size	427 wide x 372 high x 95 deep
Weight	5.2Kg
Operating temperature	-10 to +60°C
Operating humidity range	0-90% non-condensing
Measurement range (Obs/m)	0.0015% to 25%
Display resolution	0.0015%
Detection principle	Laser scatter mass detection
Particle sensitivity range	0.003 micron to 10 micron
Dust discrimination	Digital filtering
Maximum single pipe length	100m
Maximum total pipe length	250m @ 80 sampling holes 200m @ 100 sampling holes
Pipe inlet diameter	25mm using supplied adaptor 26-26.5mm without adaptor
Alarm levels	4 alarm + 1 fault relay available
Bargraph segments	26
Chamber service intervals	More than 8 years
Filter life	2-3 years dependent on environment
IP rating	IP50

Ordering Information



Senator 200 detector
Part No. 30621-KID



Senator 200 detector with command module
Part No. 30620-KID



Senator 200 detector - steel enclosure
Part No. 30706-KID



Senator 200 detector with command module - steel enclosure
Part No. 30707-KID



Senator 200 minimum display
Part No. 30710-KID



Kidde Fire Protection operates a continuous programme of product development. The right is therefore reserved to modify any specification without prior notice and Kidde Fire Protection should be contacted to ensure that the current issues of all technical data sheets are used.

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