

## Senator Nano Aspirating Smoke Detector



### Key Features

- Small package for easy and discreet installation
- Benefits of true Aspirating Smoke Detection for applications where cost was previously a limitation
- Special design sensor chamber avoids airflow problems associated with point detector in a box solutions
- Up to 50m of sampling pipe with 10 sampling holes
- Unique Classifire-3D<sup>®</sup> Perceptive Artificial Intelligence system
- LDD 3D<sup>3</sup> (Laser Dust Discrimination)
- Easy commission without the need for a PC
- Networking and remote communications available through plug-in card

### Description

The Senator Nano has been designed to provide low cost entry level aspirating smoke detection while maintaining many of the features of the Senator product range.

Classifire-3D<sup>®</sup> Perceptive Artificial Intelligence ensures that the detector operates at optimum sensitivity for the protected environment, without the need for complex setup. This means the product will configure itself to provide high sensitivity in a small comms room or reduced sensitivity in a smoky area.

The detector is supplied in an easy to install robust polycarbonate enclosure. Simple on site programming is provided through an internal DIL switch requiring no special programmer or PC. Secondary LED indications are provided on the unit to assist with diagnostics.

An optional communications card allows the Senator Nano to be included as part of a Senator network with remote communications using the SenseNET software package.

Interfacing with other equipment can easily be achieved through the Integral Pre-Alarm, Fire and Fault relays. Senator Nano is also fully compatible with the Addressable Protocol Interface cards (APIC) allowing it to interface to addressable fire alarm panels using several available protocols.



- Plant rooms
- Equipment cabinets
- Motor rooms
- Prison cells
- Lift shafts
- Wind generators
- Critical equipment
- Trains
- Ceiling voids
- Anti smoking enforcement

## Senator Nano – Technical specification

Supply voltage	21.6v - 26.4v dc
Current consumption	350mA @ 24v dc
Dimensions	190w x 230h x 110d
Weight	1.2Kg
IP rating	IP50
Operating temperature	-10 to +38°C (UL268) -10 to +60°C (EN54 part 20)
Operating humidity	0-90% non-condensing
Sensitivity range	0.4% to 25% obscuration per metre
Dust discrimination	3D <sup>3</sup> Laser Dust Discrimination
Maximum sample pipe length	50m
No. of sampling holes as certified by EN54 part 20	Class A – 2 sampling holes Class B – 4 sampling holes Class C – 10 sampling holes
Indications	<p>Primary indications:</p> <ul style="list-style-type: none"> <li>OK - green</li> <li>Fire – red</li> <li>Pre-alarm – red</li> <li>Fault – amber</li> </ul> <p>Secondary fault indications:</p> <ul style="list-style-type: none"> <li>Flow – amber</li> <li>Filter – amber</li> <li>Head - amber</li> </ul>
Relay contacts	Pre- Alarm, Fire and Fault. Rated 1A @ 24v dc
Laser chamber servicing intervals	Greater than 10 years dependent on environment
Programming	Internal DIL switch
Communications	RS232/485 via optional communications card

### Product part numbers

30719-KID      Senator Nano  
30720-KID      Senator Nano SenseNET communications card  
30721-KID      Senator Nano c/w communications card

TDS-AS03



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.