

series

2000 *PLUS*

THE INTELLIGENT CHOICE FROM



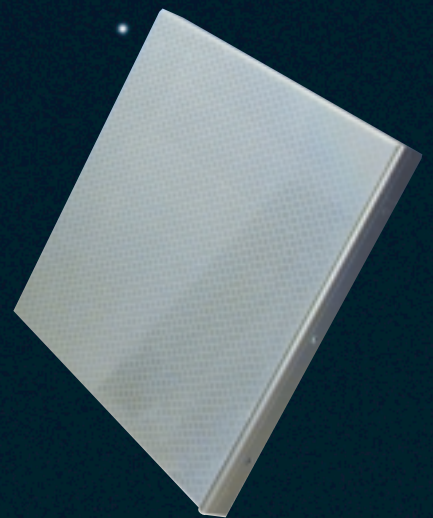
series 2000 PLUS

NEW PRODUCTS

Improved Technical Performance
Improved Economic Performance
Improved Competitive Performance

6200 BEAM SENSOR

An analogue-addressable device incorporating a whole range of major advances. Increased intelligence gives improved detection, reduced unwanted alarms with lower installation and maintenance costs.

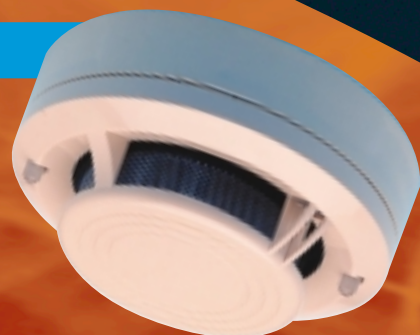


INNOVAIR

The ultimate intelligent duct detector with flexibility and inter-connectability. Simple and cost effective to install, test and maintain.

PHOTO-THERMAL SENSOR

A true multi-criteria sensor with a microprocessor at its heart. Field selectable application specific configurations provide optimum performance with a minimum of unwanted alarms.



Series 200 Plus harnesses the power of new technology to create an expanded and enhanced range of products, providing both wider application opportunities and improvement in product performance.

Key Features

Improved Technical Performance

- 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.

Improved Economic Performance

- Reduced installation and commissioning costs.
- Reduced maintenance costs.
- Increased product flexibility.

Improved Competitive Performance

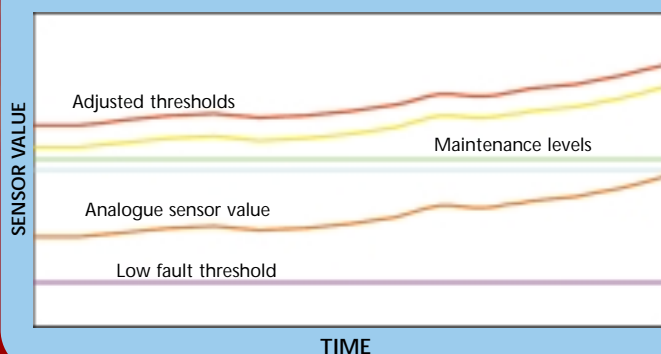
- Additions to product range provide a competitive advantage with a differentiated offering.

'Drift Compensation' and 'Smoothing' eliminate nuisance alarms and provide a consistent progressive alarm sensitivity threshold throughout the period between service intervals. In many instances this will result in an **improved economic performance** through savings in the

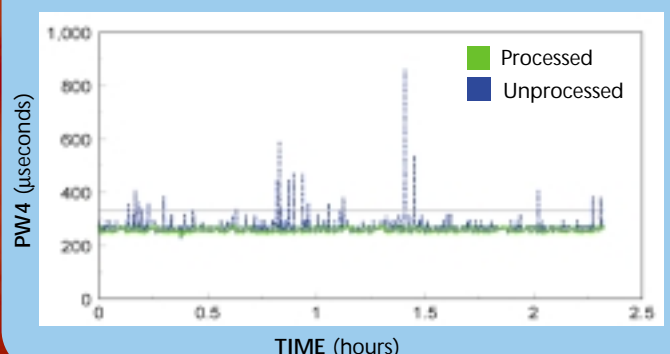
cost of maintenance by extending the detector cleaning interval.

Revised intelligent sensors incorporate enhanced signal processing eliminating unwanted peaks.

Effects of Drift Compensation



Processed versus Unprocessed Signal



6200 BEAM SENSOR

NEW

The most advanced beam detector available – an analogue-addressable device that can be connected and powered directly from the loop.

Microprocessor control. Increased intelligence gives improved fire detection and a reduction in the incidence of unwanted alarms caused by environmental influences. Special algorithms automatically compensate for contamination of the lens and reflector surfaces, providing 'Drift Compensation' similar to that incorporated in the



Photo and Photo-Thermal variants. Automatic adjustment of the alarm threshold guarantees consistent alarm sensitivity.

An integrated transmitter-receiver with a high efficiency reflector limits the wiring requirements to one end only and with a range of up to 100 metres, the 6200 Beam Sensor offers twice the coverage of other reflector beams.

The analogue-addressable loop powered unit reduces the total installed cost by eliminating the need for a separate power supply, as well as the need for input/output interface modules. Improved status information at the Control and Indicating Equipment provides Normal, Alarm, percentage of Drift Compensation utilised and Fault/Fully compensated indications. In the fully compensated state the detector is still capable of responding to a fire condition with the same sensitivity level as a newly installed device.

The visible spectrum laser diode makes field commissioning simple as the light source operates in the visible Red spectrum. In the special commissioning mode, the detector boosts the output of the laser so that the focal point of the beam can be easily seen and positioned into the centre of the reflector, ensuring perfect alignment. The alarm threshold is field configurable with one of five different values, providing a flexible solution to many application problems.

INNOVAIR

NEW

The ultimate intelligent duct detector. A major advance offering intelligence, flexibility and inter-connectability. Up to 10 units can be networked together, so that triggering of a single detector activates all inter-connected units, controlling the zoned fans, blowers and dampers. Only the originating alarm unit displays the red alarm light, clearly indicating the source of the alarm. Advanced technology provides consistent responses in both the photo-electric and ionisation models. The patented, telescopic sampling tube is easy to install and suitable for up to 18 inch diameter ducts. Optional tubes will provide coverage for ducts of up to 12 feet



wide.

Two clearly visible LEDs convey the current state – flashing green for standby mode and steady red for alarm.

Innoair is simple to install, test and maintain. A patented 'cover missing' signal indicates removal of the front cover – but only after a 20 minute delay, allowing service or maintenance without the risk of affecting the detector's integrity. An alarm reset button located on the front cover allows for easy testing and reset.



PHOTO-THERMAL SENSOR **NEW**

A true multi-criteria detector with a microprocessor at its heart. Special algorithms provide a variety of field selectable application specific configurations with six different settings offering a range of sensitivities from 1%/foot obscuration to thermal only operation. Within this range of options are two settings which allow the sensor to operate in a self-adaptive mode, changing its alarm set point according to changes in the ambient conditions. Alternatively, where Control and Indicating Equipment software provides a day/night feature, the sensor could be used as a thermal only device during the occupied period and a Photo or Photo-Thermal device when the building is in use.

Optimum performance is therefore ensured providing the highest level of fire protection with the minimum level of unwanted alarms. Unwanted alarms are reduced still further by the addition of the application specific algorithms which provide 'Drift Compensation' and 'Smoothing'.



THERMAL SENSOR **ENHANCED**

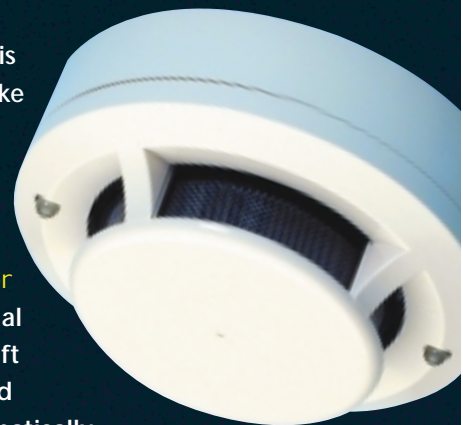
Series 200 Plus Thermal Sensors provide improved performance and an increased application flexibility within a new 'low profile' housing. Two models now fulfil the same role as the three models that they replace.

A Rate-of-Rise and Static element sensor where the static element can be fixed at either 58°C or 78°C by adjustment of the analogue alarm threshold value – and also a static element sensor offering the same temperature settings. (To ensure system backward compatibility a 5251EM will also be available).



PHOTO SENSOR **ENHANCED**

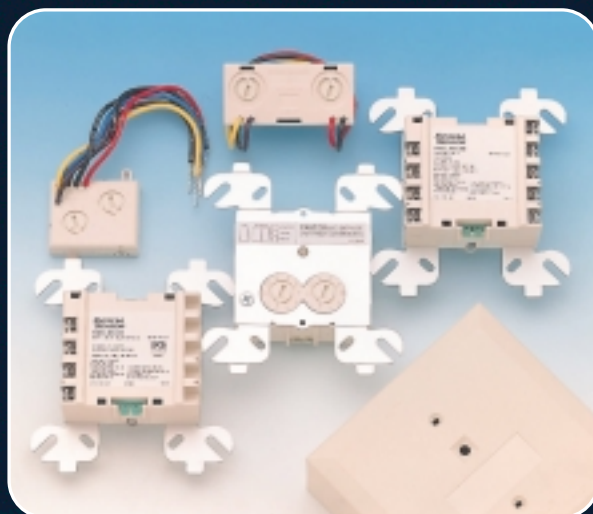
The stability and performance of this photo-optical smoke detector has been significantly improved through the use of microprocessor technology. Special algorithms for 'Drift Compensation' and 'Smoothing' automatically compensate for the build up of contaminants and short-term environmental noise effects. Sensitivity of the device remains constant, irrespective of the level of contamination present, up to a defined maximum level. This provides a more stable device with longer maintenance intervals and improved performance with lower lifetime costs.



PLUS

MODULES **ENHANCED**

The improved design of the input, output and isolator modules reduces installation, commissioning and maintenance costs. The provision of two fixing lugs and a clip-on bracket allow the unit to be installed in an SMB500, a standard European electrical box, mounted in any other suitable enclosure directly or attached to a DIN rail.





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