



series 300

conventional detectors



Advanced Ideas. Advanced Solutions



Series 300 is a true paradigm shift in conventional fire detector technology, providing users and installers with features and capabilities previously only found in more complex analogue addressable detectors.

This new range is the first to benefit from System Sensor Europe's latest innovation, remote test and configuration capability from the ground using a hand-held tool that is compatible with all types of detector within the family.

Each detector is field programmable with a numeric address. When used in conjunction with the Zone Display Unit this unique address will be displayed during an alarm condition.

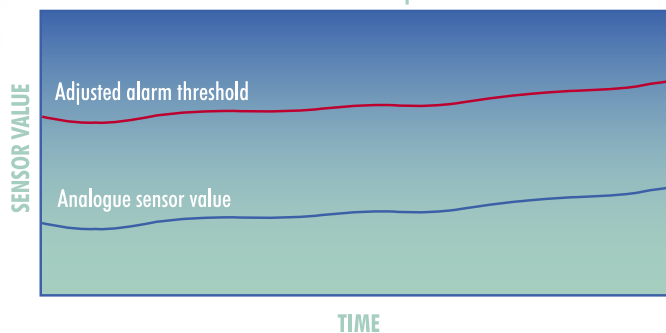
Series 300 is feature rich, providing an enhanced performance and a service confirmation date capability, giving users confidence that the detectors are always operating at their optimum level. Backward compatibility with our Series 100 base enables existing installations to be extended or upgraded with no need for major system modifications in most instances – providing an outstandingly cost effective solution and a lower lifetime cost of ownership.



Key features

- Automatic drift compensation
- Dust tolerant chamber provides optimum detection performance and minimal nuisance alarms between maintenance visits
- Multi-function, hand-held remote programming and test tool
- Sensitivity remotely programmable
- Digital addressing capability
- Remotely implemented advanced maintenance features:
 - Read and write last maintenance date
 - Read chamber contamination level
 - Read thermal element value
 - Alarm test
- Selectable Blink/No-Blink LED option via hand-held tool
- Photoelectric, multi-criteria photo-thermal, 58°C and 78°C fixed and rate of rise thermal detectors
- Backwards compatibility with System Sensor Series 100 bases enables upgrade, extension and maintenance of existing installations
- 8 to 30VDC operating range enables operation in both fire and security systems
- -30 to +70°C operating temperature range
- Multi-function Alarm – Normal bi-colour LED indicator
- EN54 Certified (2000 edition)

Effects of drift compensation



Drift compensation

Drift compensation prevents the gradual increase in sensitivity resulting from the long-term build-up of settled dust and other airborne contaminants in the photoelectric detector's chamber. The chamber design of the Series 300 is intrinsically dust-resistant; the addition of drift compensation results in an ultra-stable device giving peak protection without generating nuisance alarms.

Addressable capability

The Zone Display Unit is a zone-powered 5 character LCD unit intended for installation at the point of entry into a fire zone or at the fire control panel. When a detector on that zone goes into an alarm the module displays the unique numeric address associated with the particular detector, providing quick and accurate information about the location of the alarm.



Photo-thermal detector



The flagship of the range gives the ultimate in protection against both slow and fast developing fires and is an environmentally acceptable alternative to an ionisation detector. It is a true multi-criteria unit; the output levels from both the optical chamber and the thermistor are continually monitored by the onboard processor, using algorithms developed specifically for the unit. An alarm signal is only enabled in the detector once the processor is satisfied that an incipient fire has been detected. By using a combination of inputs, the incidence of nuisance alarms is reduced while at the same time, the response time to an actual fire is also improved.

Photoelectric detector

The detector's chamber has been specifically designed to be highly tolerant to the long-term build-up of dust and other airborne contaminants. This high level of immunity significantly reduces the potential for nuisance alarms caused by settled dust increasing the detector's sensitivity. This feature, in combination with automatic drift compensation and alarm sensitivity adjustment provides a uniquely intelligent approach to conventional fire detection.



Thermal detectors

Available as 58°C or 78°C fixed or a combination of fixed and rate of rise units. Thermal detectors are essential for use in areas such as bars and kitchens where optical detectors are inappropriate because of the high levels of airborne contamination to be found.

Laser test unit

The laser test unit is a stunningly simple idea that will save time during commissioning and maintenance.

The engineer stands on the ground – no ladders, towers or poles are needed – and directs the modulated laser beam at the LED on the detector. The detector responds to the signal by latching into alarm, enabling the system to be checked in the normal way. With a typical range of three metres this tool can be used in the majority of applications.



Visible light/ radio-communication programmer unit

Similar in concept to the laser test unit, but with much increased functionality, the programmer unit provides several features including:

- Read/Write the last maintenance date
- Read chamber contamination level and thermal element value
- Select alarm threshold
- Programme device address
- Instruct detector to latch into an alarm

This extremely powerful unit will revolutionise the procedures required when a Series 300 system is commissioned or maintained. When used in its visible light transmission mode the range is short. However, in the radio communication mode the programmer unit has an effective range of typically 8 metres. The radio unit is clipped to the detector using a No-Climb or similar pole; it then acts as an interface unit between the maintenance unit and the detector.





sales@sseuk.com
www.systemsensoreurope.com

European Office

System Sensor Europe
15 – 19 Trescott Road
Trafford Park
Smallwood
Redditch
B98 7AH
United Kingdom

Telephone: + 44 (0)1527 406700
Facsimile: + 44 (0)1527 406699

European R & D and Manufacturing Centre

System Sensor Europe
Via Caboto 19/3
34147 Trieste
Italy

Telephone: + 39 040 9490111
Facsimile: + 39 040 382137



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