



*PhD*

*processor  
enhanced  
detection*



series

# features

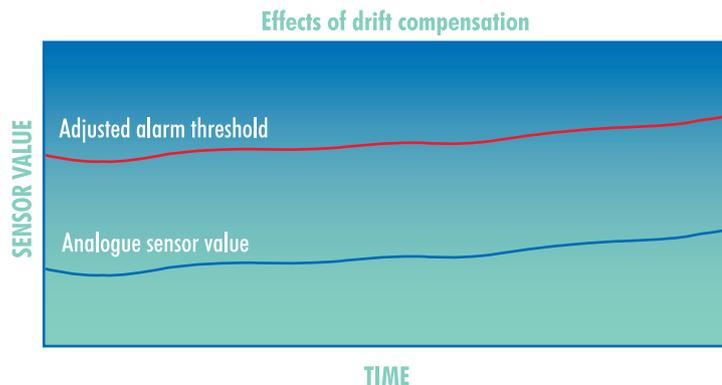
- Internal Software Algorithms
- Low profile design
- Low current draw
- Wide operating voltage 8 to 30V
- Bi-colour LED detector status indicator
- Automatic drift compensation
- Programmable sensitivity
- Addressable feature
- Advanced maintenance features via remote hand-held test unit
- Range of detector bases available
- Approved to EN54
- 3 Year Warranty



# conventional detectors

The *Processor enhanced Detection* series conventional detectors have been produced using the latest in manufacturing and design techniques, pushing out the boundaries of existing conventional detector technology. With an on board microprocessor, it's multitude of enhanced features including drift compensation, provides the best in conventional detection.

'Drift compensation' algorithms are one of the key in built features of the optical and optical thermal detectors. These internal algorithms ensure a consistent alarm sensitivity threshold for periods between service intervals. This provides the user with maintenance savings by extending the period before cleaning of the detector chamber is required whilst minimising the risk of nuisance alarms.



The sensitivity of a smoke detector is critical to its overall performance. This is reflected in both its ability to detect real fire conditions and its resilience to non-fire stimuli. The smoke detector's performance can be optimised for its application by selecting from one of three preset alarm thresholds – Low, Medium and High, offering greater stability and optimum performance within the environment in which it has been installed. The selection is easily achieved through the use of a remote hand-held programming tool.

The remote hand-held programming tool can also be used in conjunction with the *PhD* series of detectors to gain access to other enhanced features. The features available include: read/write last maintenance date, read chamber contamination level, read value of thermal element and perform an alarm test.

Each detector can be given a unique address. When used in conjunction with the S300ZDU Zone Display Unit the address will be displayed whenever the detector is in alarm.

All the features via the hand-held programming unit are achieved effectively and effortlessly without the need to remove the detector or having to gain direct physical access (other than by the use of servicing poles), saving valuable commissioning/maintenance time.



They provide the end user with the confidence to know that the system is being regularly serviced and that it is operating at its optimum level, with minimum disruption to business activities.

In addition to the comprehensive programming tool, a simple laser based alarm test unit is also available. The coded signal transmitted by this device can instruct the detector to generate a full alarm condition at a range of up to 3 metres from the detector, and is an ideal tool for initial commissioning and routine system testing.



The **PhD** series detectors incorporate a bi-colour LED indicator. The integral LED changes colour according to the detector's status: Green = Normal, Red = Alarm. This benefits the user by providing clear, instant visual indication of the detector's condition. The Green LED can be programmed for blink/no blink operation.

A variety of detector bases are available providing compatibility with a wide range of Fire Alarm Control Panels making it ideal for expansions and retrofit applications. All bases are fitted with a shorting spring to permit circuit testing prior to fitting the detector and have a tamper resistant feature, which when activated prevents removal of the detector without the use of a tool.

**SD-851TE Multi Criteria Smoke and Heat detector** combines superior Optical smoke chamber design and Thermistor heat elements with a sophisticated detector algorithm to provide the next generation of Multi Criteria detectors. Using the advanced internal algorithms, the SD-851TE continuously samples the environment and adjusts its alarm thresholds automatically to provide optimum sensitivity for the conditions that exist at that time. Using both smoke and heat elements enable the sensor to respond quickly to a broad range of fire types whilst remaining unaffected by passing phenomenon.

**SD-851E Optical Smoke Detector** utilises the same advanced chamber design used in the Multi Criteria detector providing a high tolerance to the effects of long term dust accumulation. This superior chamber combined with internal drift compensation algorithms, allow the unit to maintain the level of sensitivity set by the user with out degradation over a long period of time allowing an increased interval between major services.

**FD-851HTE Fixed Temperature Heat Detector** uses the latest in thermal element technology providing efficient and accurate detection of fires, especially in environments such as boiler houses or kitchens where smoke detectors are inappropriate due to the high level of airborne contamination, or Rate of Rise detectors are unsuitable due to rapid rises in temperatures.

**FD-851RE Rate of Rise Heat Detector** like the Fixed Temperature detector the FD-851RE uses the latest in thermal element technology providing efficient and accurate detection of fires. This type of device is used in areas where smoke detectors are inappropriate but where rapid heat change is not expected.

**S300RPTU Remote Programming & Test Unit** is a hand held programmer that communicates with detectors either via the devices LED or via the S300SAT Satellite unit where the distance to the device does not allow the user to be in close proximity to the detector i.e. high ceilings. This unit provides access to the advanced program set in the detector such as: read / write device address, alarm sensitivity, LED operation and service date. In addition this unit allows the user to read the type of device, contamination level, current percentage of alarm and manufacturing date.

**S300SAT Satellite Programming Unit** is used in conjunction with the hand held programming unit when the S300RPTU cannot be placed in close proximity to the detector. This unit is designed to fit industry standard access poles.

**S300RTU Remote Test Unit** allows a fully functional test to be carried out on detectors from a distance of up to 3 Meters. Consisting of a small key fob style housing, the test unit sends a coded signal to the detectors, which upon receipt, triggers a full internal test to be carried out.

**S300ZDU Zone Display Unit** can be used to display the address of a **PhD** series device when in alarm. This unit is placed at the zone entrance to provide additional assistance in locating an alarm condition.



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NOTIFIER has been involved in the manufacturing and distribution of fire alarm detection equipment for over 50 years. As a wholly owned subsidiary of Honeywell, a fortune 50 company, we are the world's leading manufacturer of analogue control equipment, with over 400 fully trained and accredited Engineered Systems Distributors (ESD) world wide.

NOTIFIER has pioneered the policy of developing sophisticated advance technology fire detection systems, starting with simple conventional products through to the large networked multi-panel intelligent systems.

NOTIFIER is committed to the highest standards of service and product quality in line with the needs of a life protection business, and of course, our operations are accredited to ISO 9001, and our products carry world-wide approvals such as LPCB, Vds, UL, ULC, and BOSEC/ANPI etc.

As an installer you will have the confidence of knowing that NOTIFIER can always provide the full package of compatible products, whatever your requirements, wherever in the world. The end user of course, has the added assurance that the unique combination of NOTIFIER and it's ESD network, bring together the capability of a world leading manufacturer with the fast, friendly and cost effective service of a local distributor.

 **NOTIFIER**<sup>®</sup>  
by Honeywell

Charles Avenue  
Burgess Hill  
W. Sussex  
RH15 9UF

T: +44 (0) 1444 230 300  
F: +44 (0) 1444 230 888  
E: [sales@notifierfiresystems.co.uk](mailto:sales@notifierfiresystems.co.uk)  
[www.notifierfiresystems.co.uk](http://www.notifierfiresystems.co.uk)

## local distributor



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