DISCOVERY®

INTELLIGENT FIRE DETECTORS



- 5 Certified response modes
- Drift compensation
- User programmable
- Rejection of transient signals

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INTELLIGENT FIRE DETECTORS



Discovery Optical Smoke Detector

The Discovery Optical Smoke Detector is suitable for slow burning or smouldering fires and should be positioned where these are most likely to occur. They can be set to a sensitivity mode best suited for the application.

Part No. 58000-600 Discovery Optical Smoke Detector



Discovery Multisensor Detector

The Discovery Multisensor Detector comprises optical smoke and temperature sensors whose outputs are combined to report a single value to the fire control panel. With a view to improving false alarm management the smoke and heat values can also be reported separately, provided that the fire control panel is programmed with appropriate software.

Part No. 58000-700 Discovery Multisensor Detector



Discovery Ionisation Smoke Detector

The Discovery Ionisation Smoke Detectors use a low activity radioactive foil to detect fires by irradiating the air in the smoke chambers and causing a current flow. If smoke enters the chamber, the current flow is reduced leading to an alarm. It is a good general purpose detector that responds well to fast burning, flaming fires.

Part No. 58000-500 Discovery Ionisation Smoke Detector



Discovery Heat Detector

The Discovery Heat Detector, distinguishable by the low airflow resistant case, uses a single thermistor to sense the air temperature around the detector. This type of detector is particularly useful where the environment is dirty or smoky under normal conditions.

Part No. 58000-400 Discovery Heat Detector



Discovery CO Detector

The Discovery CO Detector is very sucessful at detecting deep-seated fires. It enhances detection capability, is ideal for smoldering fires and is less susceptible to false alarms caused by steam than smoke detectors.

Note: *The CO detectors are not replacements for smoke detectors. For application guidelines, please refer to the Discovery Engineering Product Guide PP2052.*

Part No. 58000-300 Discovery CO Detector



Discovery CO/Heat Multisensor Detector

The Discovery CO/Heat Multisensor Detector comprises a CO sensor and temperature sensor whose outputs can be combined and reported separately, and is useful in steamy environments.

Note: *The CO detectors are not replacements for smoke detectors. For application guidelines, please refer to the Discovery Engineering Product Guide PP2052.*

Part No. 58000-305 Discovery CO/Heat Multisensor Detector

Discovery is a range of high-specification, intelligent fire detectors developed to meet the requirements of sophisticated systems while providing engineers with an additional dimension in fire protection capability. Discovery detectors can be set to a sensitivity mode best suited for the application. Discovery gives you total reassurance in installations where adaptability to changing conditions and protection against unwanted alarms are paramount.

Manual Call Point



The Manual Call Point has a highly visible alarm indicator which can be seen from up to 10 metres away. When activated, the manual call point interrupts the polling cycle for a fast response. A combined LED indicator and front reset mechanism allows for a quick and simple reset.

Part No. SA5900-908 Intelligent Manual Call Point
58200-950 Waterproof Addressable Manual Call Point
58200-951 Waterproof Addressable Manual Call Point with Isolator

Fire Control Panel Compatibility

Discovery products are designed to be operated with purpose-designed control and indicating equipment that makes full use of Discovery features. Discovery devices can be connected to CoreProtocol or XP95 fire control panels but not all Discovery features will be accessible on XP95 systems. For a list of compatible panel manufacturers, visit www.apollo-fire.co.uk/controlpanels

Compatible Products

Access to the Discovery range of audible and visual signalling equipment with advanced features such as choice of volume levels, tones, including class change.

Drift Compensation

All Discovery smoke detectors include compensation for sensor drift caused, for example, by dust in the chamber, and will hold the sensitivity at a constant level even with severe chamber contamination.

Sensitivity Selection

Each detector in the Discovery range can operate in one of five response modes, which can be selected from the fire control panel or hand held programmer. The response characteristics of the detectors have been carefully set so that the detectors are certified with the requirements of the relevant part of EN 54 in all response modes. Mode selection depends on application – Mode 1 will give a higher sensitivity to fire than Mode 5. See table below for more information.

XPERT 7 Card and Base

The 7-Bit XPERT card is a unique, patented addressing method whereby the address is set by simply removing the 'pips' on the card according to a chart supplied with the base. The coded card is then inserted into the side of the base where it locks into position. The XPERT card simplifies and speeds up the installation and commissioning.



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Discovery Response Mode Selection Grid

KEY ■ Recommended ■ Suitable S Suitable as supplement

	Cleanroom EDP suite	Hotel room; Studio apartment; small flat (<50m2)	Office; Long corridor; Hospital wards; Light industrial factory	Warehouse; Bar	Loading bay; Car park (enclosed & ventilated)	Kitchen; Laundry	Boiler room
Mode	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
OPTICAL	■	■ ■ ■	■ ■ ■	■	■		■ ■
MULTI	■	■ ■	■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■	■
ION	■	■ ■ ■	■ ■ ■	■ ■	■ ■		
HEAT				■ ■	■ ■	■ ■ ■	■ ■
CO		■ ■	S	S S		■ ■	■
CO/HEAT		■ ■	■ ■	■ ■	■	■ ■ ■	■

For full technical details please see Engineering Product Guide PP2052.
For details of marine approvals PP2194.

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Assessed to ISO 9001:2008
LPCB Cert No. 010

Certificate No. 010
See www.RedBookLive.com

Assessed to ISO 14001:2004
Certificate number EMS 010

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