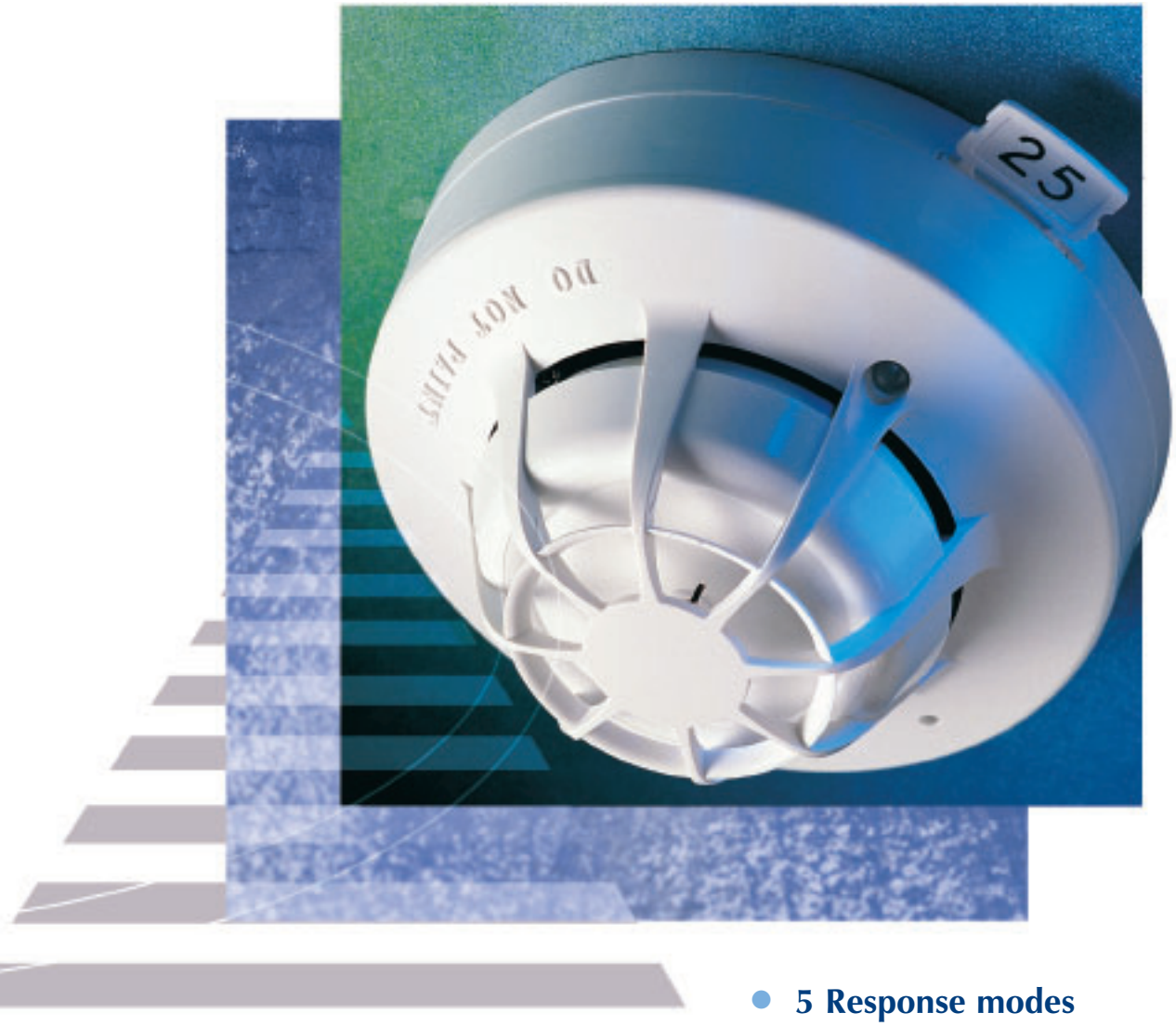
DISCOVERY

INTELLIGENT FIRE DETECTORS



- 5 Response modes
- Drift compensation
- User programmable
- Conventional alarm on processor fault
- Rejection of transient signals

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FIRE DETECTORS LIMITED

DISCOVERY
INTELLIGENT FIRE DETECTORS

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 gives you total reassurance in installations where adaptability to changing conditions and protection against unwanted alarms are paramount.

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. See chart below for information on applications. **Part No. 58000-600**

Ionisation Smoke Detector
Ionisation 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

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. For more information on the application of these detectors, please see the chart below. **Part No. 58000-400**

Multisensor Detector
The Discovery multisensor detector comprises optical smoke and thermistor temperature sensors whose outputs are combined to give the final analogue value. As a result, the multisensor is useful over a wide range of applications and is highly immune to false alarms. **Part No. 58000-700**

Carbon Monoxide (CO) Detector
The Discovery CO fire detector is good at detecting deep–seated fires. See the chart below for information on typical applications. **Please note CO detectors do not detect smoke particles or heat and are not universal replacements for smoke detectors.** Please refer to Apollo publication PP2089.
Part No. 58000-300

Manual Call Point
The Discovery manual call point can be addressed at the commissioning stage by means of a seven-segment DIL switch. When operated, the MCP interrupts the polling cycle for a fast response. It is available in both a surface and flush mounted version.
Part No's. Surface 58000-910
Flush 58000-920

Control Panel Compatibility
Discovery detectors are designed to be operated with purpose-designed control and indicating equipment that makes full use of their features. Discovery can be connected to any control panel which can operate XP95 systems but the Discovery features can then not be accessed. For a list of compatible panel manufacturers, see Apollo publication PP1010.

Interfaces for Intelligent Systems and Loop Sounders
A full range of interfaces and sounders designed for use with intelligent systems is available from Apollo. Please see Apollo publications PP2025 for interfaces and PP2136 and PP2148 for sounders.

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 control panel. The response characteristics of the detectors have been carefully set so that the detectors will comply with the requirements of the relevant part of EN54 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 Card
The 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.

	Cleanroom EDP suite	Hotel room; Studio apartment; Small flat (<50m2)	Office; Long corridor; Hospital ward; Light industrial factory	Warehouse; Bar	Loading bay; Car park	Kitchen; Laundry (enclosed & ventilated)	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
MULTI	■	■ ■	■ ■	■ ■ ■	■ ■ ■ ■	■ ■	■
OPTICAL	■	■ ■ ■	■ ■ ■	■ ■	■	■	■ ■
ION		■ ■ ■	■ ■ ■	■ ■			
CO		■ ■	■	■ ■		■ ■	■
HEAT				■ ■	■ ■	■ ■ ■	■ ■ ■

KEY ■ Recommended ■ Suitable ■ Suitable as supplement

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INVESTOR IN PEOPLE

LPCB LOSS PREVENTION CERTIFICATION BOARD — NATIONAL ACCREDITATION OF CERTIFICATION BODIES

Quality Systems Certificate No 010
Assessed to ISO 9000 : 2000

A HALMA GROUP COMPANY

36 Brookside Road, Havant, Hampshire PO9 1JR, England. Tel: +44 (0)23 9249 2412. Fax: +44 (0)23 9249 2754.
Email: sales@apollo-fire.co.uk Website: www.apollo-fire.co.uk

Apollo GmbH, Am Anger 31, 33332 Gütersloh, Germany. Tel: +49 5241 33060. Fax: +49 5241 330629.
Air Products and Controls Inc., 1749 E Highwood, Pontiac, MI 48340, USA. Tel: +1 248 332 3900. Fax: +1 248 332 8807.