DP2061N

ARITECH 2000 Series addressable optical smoke detector

General

The DP2061N is a 2000 series protocol, addressable optical detector. It is equipped with a field-exchangeable optical block and is fully CPD certified. This optical detector combines a low profile design with dual alarm LEDs for 360° alarm visibility, and features a remote indicator output as standard.

User friendly

Every detector is equipped with an internal self-test feature. This test may be activated from the fire panel and allows the detector to perform a self-test for which the result is reported to the panel.

All detectors are individually identified by setting an address through 2 rotary switches. The address is straight numerical and does not require binary or hexadecimal conversions and therefore significantly reduces the risk of incorrect addressing.

Maintenance friendly

The DP2061N features a disposable optical chamber. This allows the detector to be easily serviced without the need for specialised equipment in the field and without operating through an exchange pool of any kind. A self-test feature as well as drift compensation and contamination warning is provided when used with compatible Aritech fire panels.

All 2000 series detectors are compatible with a standard base, which makes them easily interchangeable.

State of the art communication

An enhanced protocol ensures the overall integrity and error-free operation of the system, without compromising speed. The 2000 series protocol provides features such as CRC error checking and multiple bus cycle codes to enable advanced features of the panel to detector communication.

Extended applications

A comprehensive 2000 series range of detectors and accessories complement the DP2061N detector. Appart from a complete detector line as well as a full line of manual call points, accessories such as isolators, sounder circuit controllers, zone monitor units and a variety of I/0 modules are also available.



Details

- Optical smoke detector with configurable sensitivity levels
- Full diagnostic self testing
- Remote signaling capabilities
- Enhanced digital communication protocol
- Easy numeric addressing (1-128) for fast and fault free installation
- Field exchangeable optical chamber for easy on-site maintenance

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Technical specifications

General

Status indication	Dual red alarm LED
Compatibility	Aritech 2000 systems
Alarm levels	5
Connectivity	2000 Series detector bases
Addressing method	Rotary switch

Electrical

Power supply type	Loop powered
Operating voltage	17 to 28 VDC
Current consumption	350 µA (quiescent at 24 VDC) 4 mA (alarm at 24 VDC)

Detection

Detection principle	Optical light scatter
Monitoring	Alarm threshold, Contamination level
Sensitivity	Configurable
Coverage area	<80 m²

Output

Output quantity	1
Output type and rating	Remote indicator
Programmable	No
Remote alarm output	4 mA

Physical

Physical dimensions	100 x 50 mm (Ø x H)
Net weight	115 g
Colour	Cloud white (RAL 9001)
Mounting type	Base mount
Material (body)	Plastic

Environmental

Vandal proof	No
Operating temperature	-10 to +60°C
Storage temperature	-10 to +70°C
Application temperature (typical)	+25°C
Relative humidity	10 to 95% noncondensing
Environment	Indoor
IP rating	IP43

Regulatory

Compliancy	CE, REACH, RoHS 2, WEEE
Certification	CPR
Standards	EN54-7

Compatible products

Category	Reference	Description
Detection device	DB2002	ARITECH 2000 Series standard point detector base
Detection device	DB2004	ARITECH 2000 Series deep point detector base
Detection device	DB2016	ARITECH 2000 Series base with isolator
Detection device	DP2CAP-ICT	ARITECH [10 pack], Dx700 / Dx2000 Series insect protection caps
Notification device	AI672	Dx700 / Dx2000 series conventional remote indicator
Notification device	AI673	Conventional remote indicator with buzzer
Notification device	DB2368IAS-W	ARITECH 2000 Series sounder base with isolator, white

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