

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. Apart 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/O 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 m ² |

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

| | |
|---------------|-------------------------|
| Compliance | 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 | DB2002U | ARITECH 2000 Series wide point detector base |
| Detection device | DB2004 | ARITECH 2000 Series deep point detector base |
| Detection device | DB2016 | ARITECH 2000 Series base with isolator device |
| 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 | Dx700 / Dx2000 series conventional remote indicator with buzzer |
| Notification device | DB2368IAS-W | ARITECH 2000 Series sounder base with isolator, white |