DP2061T

ARITECH 2000 Series addressable multisensor fire detector

General

The DP2061T multi-sensor combines the smoke sensitivity of an optical smoke detector with the enhancement of heat sensing. Being able to operate in 5 dynamically changeable modes that are fully controlled and programmable from the fire alarm panel, the DP2061T can operate as an optical smoke detector enhanced by heat detection (with two different smoke sensitivities), as a dual smoke and A2R heat detector – each sensor operating independently, as an optical detector only (EN54-7 certified), or as a A2R heat detector only.

Multimode operation

The five modes may be controlled by day/night mode operation for each sensor. The detector may, for example, operate as a heat detector during the day in an occupied building, and at high sensitivity of smoke with heat at night when the building is not occupied. Each sensor may be controlled independently.

A full range

The DP2061T multi-sensor is part of the 2000 series family. This series includes optical smoke and heat detectors, IO units, a full line of manual call points, standard and isolator bases.

Maintenance friendly

The DP2061T multi-sensor has all the maintenance features of the 2000 series detectors. It features the field replaceable optical block, allowing the cleaning of the optical chamber on site without the need for recalibration. A self-test feature as well as drift compensation and contamination warning is provided when used with compatible Aritech fire panels.

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.



Details

- Optical enhanced by heat, smoke detector
- Full diagnostic self testing
- Five independently controlled modes of operation: • Multisensor with 2 selectable smoke sensitivities • Dual sensor (independent optical and A2R heat) • Optical sensor only (EN54-7 approved) • Heat sensor only (A2R - 60°C with rate-of-rise)
- Enhanced digital communication protocol
- Remote signaling capabilities
- 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 series 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 and/or heat
Monitoring	Alarm threshold, Contamination level
Sensitivity	Configurable
Coverage area	<80 m²
Rate-of-rise	Class A2 compliant

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	IP23

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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