

# ZR432-2PA

## Radio dual optical/heat detector with radio sounder base

### General

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The ZR432-2PA is an addressable, wireless, POLAR WHITE multisensor capable of operating in optical, temperature or multisensor modes. In addition it supports an integrated sounder, all controlled from the main control panel via a wireless radio interface.

### Configurable Alarm Response

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Designed to provide the earliest response to a wide range of fire types in locations where hard wiring is not an option, ZR432 detectors combine optical smoke sensing and thermal monitoring to provide an accurate warning of fire. Smoke sensing may be isolated for areas where ambient smoke may exist at certain times of the day, or used on a day night basis in premises where heat only is required whilst the building is occupied. Temperature and smoke sensitivity may be set on installation on each device.

### Device Control

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The ZR432-2PA is supervised and controlled from the main fire panel CIE. Every wireless device is assigned its own IDENT address with which the main control panel communicates, providing the same system facilities as directly wired devices.

The sounder may be configured during installation for high (up to 87 dBA) or low (up to 74 dBA) sound levels, with selectable frequencies for two stage tone support, both warning and alarm tones. The tones are controlled from the COE in the same way as for hardwired sounders.

### Supervision

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Calibration and self-testing are carried out automatically. Removal or replacement of an incorrect devices is identified by the system and details displayed at the CIE. Sophisticated auto contamination adjustment compensates for any long-term drift in performance caused by dirt entering the sensing chamber.

For ease of removal, ZR432 detectors plug into the radio base by a simple twist and lock action. A selectable locking mechanism prevents unauthorised removal of the detector from its base.



### Details

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- No external aerials
- Dual battery supply with up to 5 year battery life
- Full status monitoring – batteries, head supervision and tamper
- Configurable as smoke only, heat only or combination detection
- 2-way wireless communication with variable power output
- Sounder with configurable tones and volume
- Synchronised operation
- Two stage evacuation operation support
- ETSI 300-220 approved
- EN54:3/5/7 and EN54:25 compliant and CPR certified

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### Technical specifications

#### General

|                    |               |
|--------------------|---------------|
| Status indication  | Red alarm LED |
| Wireless frequency | 868 MHz       |

#### Electrical

|           |                                                 |
|-----------|-------------------------------------------------|
| Batteries | 3 x AA (MN1500 LR6) Duracell alkaline batteries |
|           | 3 x C (MN1400 LR14) Duracell alkaline batteries |
|           | 3 x C (MN1400 LR14) Duracell alkaline batteries |

#### Physical

|                     |                                      |
|---------------------|--------------------------------------|
| Physical dimensions | 146 x 94 mm (including base) (Ø x H) |
| Net weight          | 700 g (including base & batteries)   |
| Colour              | Polar white                          |
| Mounting type       | Surface mount                        |
| Material (body)     | Moulded ABS                          |

#### Environmental

|                       |                        |
|-----------------------|------------------------|
| Operating temperature | -10 to +50°C           |
| Storage temperature   | -20 to +60°C           |
| Relative humidity     | 0 to 95% noncondensing |
| Environment           | Indoor                 |
| IP rating             | IP23                   |

#### Regulatory

|               |                                 |
|---------------|---------------------------------|
| Certification | EN54-25, EN54-3, EN54-5, EN54-7 |
|---------------|---------------------------------|

#### Compatibility

|  |                                      |
|--|--------------------------------------|
|  | All ZP7 addressable wireless systems |
|--|--------------------------------------|

#### Output transmitter power

|  |          |
|--|----------|
|  | 0-14 dBm |
|--|----------|

#### Detection area coverage\*

|  |                                    |
|--|------------------------------------|
|  | Smoke element - <100m <sup>2</sup> |
|  | Heat element - < 50m <sup>2</sup>  |

#### Monitoring

|  |                            |
|--|----------------------------|
|  | Continuously self-checking |
|--|----------------------------|

#### Detection principle

|  |                                             |
|--|---------------------------------------------|
|  | Smoke element - Photoelectric light scatter |
|  | Heat element - Thermistor                   |

#### Addressing method

|  |                         |
|--|-------------------------|
|  | Unique address embedded |
|--|-------------------------|



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