



ZR432

Wireless combination smoke and thermal sensor

Earliest response to a wide range of fire types

Designed to provide the earliest response to a wide range of fire types, in locations where hard wiring is not an option, the ZR432 wireless sensor combines optical smoke sensing and thermal monitoring to provide an accurate warning of fire. Individual monitoring of each element, measures actual smoke levels, in addition to temperature rates of rise. When installed using the ZR401 base the sensors operation can be selected as either smoke or heat. The ZR402 base enables the unit to operate as a multi sensor utilizing both smoke and heat channels. Smoke sensing can 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 response meets the requirements of European Standard EN54 Part 5. (Settable to grade 1 or grade 3), with smoke sensitivity complying with EN54 Part 7. The sensor is approved by several international approval bodies.

Controlled directly from main control panel

The unit is controlled directly from the main control panel, via a loop wired radio interface module. Up to 127 devices can be connected to each of the control panel loops, allowing both wireless and hardwired devices to be seamlessly located and controlled from the same wiring loop. Each wireless device, controlled through the ZR470 radio interface unit, is assigned its own IDENT address, with which the main control panel communicates, providing the same system facilities as directly wired devices.

Automatic self test

Temperature and smoke sensitivity can be set by selection switches located on the base plate of the unit, calibration and self test are carried out automatically. Removal or replacement of an incorrect sensing device is identified by the system and details displayed at the main control panel. Sophisticated auto contamination adjustment compensates for any long-term drift in performance, caused by dirt entering the sensing chamber. For ease of removal sensors plug into the ZR400 series radio bases by a simple twist and lock action.



Standard Features

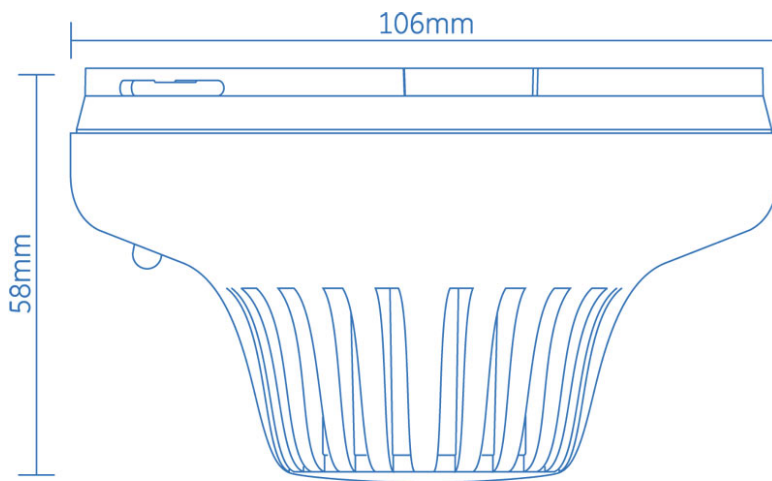
- No external aerials
- Dual battery supply
- Full device status monitoring – power sources, head removal and device tamper
- Senses both smoke and heat

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Specifications

Model No	ZR432
Bases	ZR401 - selectable heat or smoke sensing, ZR402 - multi-sensing operation
Specification	EN54 Pt5 and Pt7
Description	Wireless smoke/heat sensor
Approval	R&TTE to EST300-200
Operating frequency	VHF 173.245 MHz
Compatibility	All ZP3 analogue systems via ZP470 loop module
Mounting	Plugs into surface base
Area Coverage	Smoke - 100m ² , Thermal - 50m ² , subject to local codes
Monitoring	Continuously self-checking
Detection principle	Smoke - photo electric light scatter, Thermal - thermistor
Addressing method	Unique address embedded in firmware
Indication	Alarm LED (red)
Operating voltage	3.2 Vdc
Power supply	In base (see publication PS1492)
Application	Indoor installation
EN60529 rating	IP32
Temperature range	-10°C to +75°C
Humidity range	20% to 95% RH (non condensing)
EMC	CE marked (EEC89/336)
Material	Moulded ABS
Dimensions	106mm (dia) x 58mm (h) (excluding base)
Height	ZR401 surface base - 88.7mm
Colour	White
Weight	105g (excluding base)
Publication No	PS1490



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Ordering Information

Part No.	Description
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As a company of innovation, GE Security reserves the right to change product specifications without notice. For the latest product specifications, visit [GE Security online](#) or contact your GE Security sales representative.

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