

Designed to provide heat detection on ZP3 systems, where the installation of hard wiring is not an option, the ZR420 wireless thermal sensor is a thermistor-controlled device, which responds to changes in its ambient temperature.

The unit is controlled directly from the main fire detection panel, via a loop wired radio interface module. This arrangement allows both wireless and hardwired devices to be seamlessly located on the same loop wiring. The device provides a reliable response to fires in areas where environmental conditions may prohibit the use of smoke sensors

The sensitivity of each sensor is set by the main control panel and can be adjusted between four levels - from 58°C to 75°C, either manually or on a timed basis. At sensitivity level two the ZR420 fully meets the requirements of European Standard EN54 Part 5 (grade 1) and is approved by several international approval bodies.

Installed as part of the ZP3 analogue addressable system, up to 127 devices can be connected to each of the control panel loops.

Each wireless device, controlled through the ZR470 loop interface is assigned its own IDENT address, with which the main control panel communicates, providing the same system facilities as directly wired devices.

Temperature levels are continuously sensed by the unit and transmitted to the radio loop module, which in turn relays the data to the main control panel.

Four levels of sensitivity can be set and 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.

For ease of removal sensors plug into the ZR400 radio base by a simple twist and lock action. Bases are installed using a matching fixing plate. A site selectable option is provided to lock the sensor into its base. Once applied the unit can only be removed by means of a special tool.

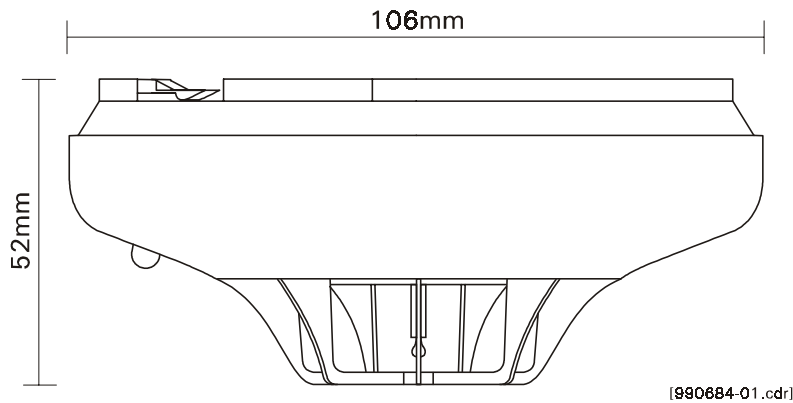


ZR420

Wireless Thermal Sensor

- **No external aerials**
- **Dual battery supply**
- **Full device status monitoring – power sources, head removal and device tamper**
- **Automatic sensitivity adjustment, alarm verification and self test**

Dimensions



Note: Dimensions shown without base.

Specifications



Model No.	Part No.	Specification	Operating temp	Performance
ZR420	42800	EN54 Pt5: 1977	58°C to 75°C	Grade 1 (at sensitivity level 2)
Approval	R&TTE to ETS300-220		Environmental:	
Compatibility	All ZP3 analogue systems via ZP740 loop module.		Application	Indoor use
Sensitivity settings	Level 1 58°C fixed temperature Level 2 58°C rate compensated Level 3 75°C rate of rise Level 4 75°C fixed temperature		EN60529 rating	IP32
Mounting	Plugs into surface base		Temp range	-10°C to +70°C
Area coverage	100m ² , subject to local codes		Humidity range	10% to 95% RH (non condensing)
Monitoring:	Continuously self-checking		EMC	CE marked (EEC89/336)
Indication	Alarm LED (red)		Construction:	
Operating voltage	3.2 volts		Material	Moulded ABS
Power supply	4 x 3.7 volt lithium TCL AA cells		Dimensions	106mm (Dia) x 52mm (H) (excluding base)
Addressing method	Unique address embedded in firmware		Height	From ceiling with base. ZR401 surface base – 82.7mm
Detection principle	Thermistor		Colour	White
			Weight	85g (without base)

Ziton Ltd
 8 Newmarket Court Chippenham Drive Kingston Milton Keynes MK 10 0AQ United Kingdom
 Telephone +44 (0) 1908 281981 Fax +44 (0) 1908 282554 email zitonuk@ziton.spx.com

Ziton (Pty) Ltd
 Ziton House 555 Voortrekker Road Maitland 7405 PO Box 4965 Cape Town 8000 South Africa
 Telephone +27 (0)21 506 6000 Fax +27 (0)21 506 6100 email zitonza@ziton.spx.com

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Comsec Protection Systems Ltd., Unit 26, Stadium Business Park, Ballycoolin Road, Dublin 11
 PHONE: (01) 8853008 - FAX: +353 (01) 8853007 EMAIL: info@comsec.ie - WEB: http://www.comsec.ie