

## **Wire-Free Optical Smoke Sensor**

- Analogue/Addressable
- Proprietary sensor
- Protected sensing chamber
- Universal transmitter module
- 5 Year battery life
- Detector / Transmitter tamper
- Range in excess of 250 metres



# **5000 FirePoint**

## **Overview**

The model 5-5100 Analogue Addressable Optical Smoke Detector is bayonet-fitted to a radio address/transmitter module incorporating lithium batteries and supplied with a surface-mount base unit. Removal of the detector or address/transmitter module will indicate a fault condition. The detector is manufactured by Ziton limited and complies with BS5839 Part 5 and EN54 Part 7.

The Optical Smoke Detector operates on an advanced light scattering principle, using a wide-angle light beam together with an extra high sensitivity photodiode receiver. An internal polling system checks for smoke particles every 5 seconds. Initial detection of smoke traces accelerates polling to every 2 seconds. The alarm is verified twice to ensure freedom from false alarms.

The detector incorporates a selectable automatic lock, which, if enabled locks it into its base when plugged in, preventing unauthorised removal. Each unit has a unique address configured during manufacture and is individually addressable by the system controller. The radio address module is programmed to report at regular intervals of 5 – 9 minutes.

Designed and manufactured using the latest techniques and surface mount technology ensures component count is kept to a minimum, thereby maximising reliability.

The address/transmitter module is powered by a low-voltage dual supply lithium battery pack. The battery pack condition is continually monitored. The battery board has been tested to provide 5 years of normal site operations. The system indicates remaining battery capacity and a low battery condition is indicated to the controller as a fault allowing 30 days for the battery pack to be changed before unit failure.

## Specification

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### PHYSICAL:

**DIMENSIONS:** 106 x 75 mm with transmitter/address module  
**WEIGHT:** 119g  
**COLOUR:** White

**ENVIROMENT:** **TEMPERATURE:** -10 to 85 degrees C  
**HUMIDITY:** 20 to 95% RH

### SENSITIVITY

Four levels of sensitivity adjustment are provided responding nominally to smoke obscuration levels of 1.5%M, 2.3%M, 3.0%M and 3.6%M. In addition a selectable alarm verification feature prevents false alarms due to transient smoke. Conformal coating seals the unit against moisture and dust and a fine mesh screen protects against ingress of insects.

**SUPPLY:** 4 x 3.7 volt lithium TCL AA cells

**OPERATING FREQUENCIES:** VHF – 173.245 MHz

**CHANNEL SPACING:** 25 kHz

**OUTPUT TRANSMITTER POWER:** 1 mW ERP

**OUTPUTS:** Detector alarm – Fire and Fault  
Detector identity  
Battery condition  
Auto report signal

**STANDARDS:** EN54 part 2

### Ordering Information

5 - 5100/OD      Detector / address module complete

*For the full range of products and part numbers please contact us.*



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