

5000 FirePoint Radio Fire Detection System



A world of protection without cable

5000 Firepoint

Our everyday lives have been changed by the use of radio communications, and now so has fire detection.

The 5000 FirePoint utilises secure, licence-free, radio communications to interconnect the sensors and devices (smoke detectors, call-points, etc.) with the controllers. A simple concept, but one that provides many unique benefits.



5000 FirePoint is a full analogue addressable fire detection system with a set of features that make it one of the most advanced fire detection systems available - and without the need for cable.

5000 FirePoint provides an attractive and cost effective alternative to traditional wired fire alarm systems for all application.

Applications

5000 FirePoint is suitable for installation in virtually any type of building or construction, easily matching, and in many cases exceeding, the performance of wired systems. However, there are a number of applications where 5000 FirePoint provides unique benefits that a wired fire alarm system cannot match.

Hospitals & Hotels

Room occupancy and minimal disruption to services are important factors in this sector. An EMS radio fire sensor can be fitted in less than 10 minutes, without the need to take the room out of use - a very important factor for hospital patients and a commercial consideration for many hotels.



Churches & Historic Buildings

When installing a fire detection system in churches and historic buildings the fabric of the building must not be damaged or altered, thereby effectively eliminating the use of wired systems.



5000 FirePoint is the only practical solution.

Features

- Full analogue addressable capability
- Comprehensive range of controllers, sensors and ancillaries
- Sensors can be fitted in less than 10 minutes leaving the fabric of the building undamaged
- Eliminates costly fire-rated cable
- Use of secure dual-frequency signalling eliminates false alarms due to external radio interference
- The systems can be easily moved or upgraded as building use changes

Power Technology

The key to eliminating cable is the ability to power devices locally. The one area that has been fundamental 5000 FirePoint's success is the development of advanced power technology.

Replaceable 5-year energy packs located integrally in each device coupled with system-wide power management software, ensures any energy pack replacement is achieved during normal maintenance - further reducing cost of ownership.

*A world of protection
with cable...*

Construction Health & Safety

Implementing fire detection to meet health and safety requirements in and around building sites is a difficult and costly task due to the ever changing environment. 5000 FirePoint provides a simple and cost effective solution that can easily be adapted as the building develops.



Once the building is complete the system can be moved to the next site and re-used - not something that can be easily achieved with a wired fire alarm system.

Specification



5000 FirePoint consists of a wide range of controller options, sensors and ancillary devices that integrate together by radio to provide full analogue addressable fire detection without the need for interconnecting cable. All sensors and devices are powered with a typical 5-year life energy pack and are routinely monitored for correct operation and sensor contamination.

The sensors and devices communicate with the controllers using secure, fully compliant, dual frequency signalling that eliminates false alarms due to external radio inference.

Sensors

EMS's Range of Analogue Addressable Fire Sensors are based on the industry standard devices.

The sensors have no visible aerials and are low profile, aesthetically pleasing designs.

Providing reliable fire detection solutions for most applications the comprehensive sensor range includes:

- Multi-Sensor, combining both smoke and heat
- Optical smoke
- Heat
- Combined Sensor/Base Sounder, available with either smoke, heat or multi-sensor heads, including 1st stage audible alert



Controllers

The 5000 FirePoint Controllers are available in 4, 12, 24 and 96 zone versions.

Meeting the requirements of BS5839 part 4 & EN54/2, each controller has an easy to read display and simple to use controls.

All controllers can be fully networked either by radio or hard-wire.

Features include:

- 252 radio devices per controller
- Repeater panel facility
- Simple menu driven user interface with zonal LEDs
- Full configuration and cause-effect programming by PC
- Optional thermal printer
- Remote programming & diagnostic checking via modem
- Extensive I/O capability



Ancillaries

The 5000 FirePoint System is supported by a complete range of fully monitored field based ancillaries. All field devices are powered with a typical 5-year life energy pack.

The range includes:

- Addressable call-point
- Electronic sounder
- Voice Sounder - pre-recorded voice messages in addition to alarm tone
- Audio Evacuation Module - manual intervention, voice messages with public address facility and alarm tones.
- Strobe beacon
- Combined sounder/strobe
- Addressable I/O unit
- Addressable remote sounder module
- Radio range extenders (transponders)



Networking & Paging

All 5000 FirePoint controllers can be networked together, using a hard wired or radio LAN, providing a high degree of integration and expansion.

The ability to network using a radio LAN further extends the benefits of a wire-free environment to the application.

5000 FirePoint fully supports paging, providing alarm and system text messages either site wide or through the national networks.



System Support

The successful design and installation of a 5000 FirePoint system can only be achieved with professional support.

EMS has established a National network of sales/technical support staff, regionally located, to best meet the customers' needs. This is backed up with a full two year warranty across all products.

Radio Survey

The radio survey forms the backbone of any 5000 FirePoint system design and installation. To achieve this EMS provides a professional survey service that ensures the correct location of radio equipment for each and every site application.



Approved Installer Network

All 5000 FirePoint systems are installed via a network of approved installers. These companies have undertaken extensive training which is on-going as new products are developed.

At all times throughout the project EMS will provide technical support if required.

Technical Support Assistant

A major innovative customer support facility on the 5000 FirePoint is the TSA - Technical Support Assistant.



This allows remote diagnostics and programming via modem, thus reducing annual user costs.

Radio Facts

All radio frequencies used by 5000 FirePoint systems are licence free and all the equipment is approved by the UK's Radio Communications Agency.

The Radio Communications Agency tightly controls the radio frequencies available for use in the UK and only agrees their operation after they have been tested and proved to meet the relevant standards.

5000 FirePoint uses secure two-way communications between the controllers and devices. The system communicates with devices using a UHF frequency of 458 Mhz and the devices report back to the controller using a VHF frequency of 173 Mhz.

Radio communications are now part of everyday life and reliable interference free use is the norm. This is also the case with EMS radio technology - radio interference has never caused false alarms on EMS systems.

The following communications do not affect the operation of EMS systems.

- Mobile phones
- Taxi or emergency service radios
- Air Traffic Control
- Military
- Radio microphones
- Car alarm key fobs

This list is an example and not limited to the above.

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EMS Systems...*



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