

MX TECHNOLOGY®

Our eXpertise, your choice

*Protecting People & Property*

**WORMALD**



# The only fire detection system you will ever need

Wormald's *MX TECHNOLOGY*® brings together the very latest detection technology from around the world and combines it into a sophisticated and comprehensive fire detection system. Reliable, robust and simple to maintain, *MX TECHNOLOGY*® systems are designed for speedy and accurate response to potential fire events and aim to deliver minimal false alarms.

## **Clever thinking**

*MX TECHNOLOGY*® uses multi-function detection devices to send signals to the fire control panel where they are analysed to determine if a fire event is imminent. Having the system intelligence embedded in the software operating on the fire alarm panel allows most upgrades to the system can be made without physically changing the system hardware. The programmed configuration can be optimised to suit different fire risks, or simply upgraded to improve capability.

## **Sophisticated simplicity**

Advanced technology need not be complex. From the users' perspective, operating and managing the system is simple. The MX fire alarm panel clearly shows what is happening right across the system. If a problem is emerging, unambiguous panel displays and indicators clearly pin-point the fire event and its location.

## **Future-proof**

A key objective when designing the *MX TECHNOLOGY*® was to make sure, once installed, a system would remain useful over the life of a facility. Wormald's commitment to product compatibility, along with advanced software-based fire management algorithms, achieves this goal.

*MX TECHNOLOGY*® can match the changes to your business – changes in fire risk or changes in business capabilities. The result is continual state-of-the-art fire protection and lower 'whole of life' ownership costs.

*FACT:*  
*MX TECHNOLOGY*® delivers a flexible, upgradable fire detection system that can change with your business.

## Fire detection for all situations

*FACT: Forward/backward compatibility keeps total cost of ownership low.*

### Flexible

The starting point of fire detection is the detector modules located in areas of fire risk. The clever design of the MX multi-sensor detectors allows a single detector to work in a variety of modes, responding to different indicators of fire risk.

MX detectors can be set to detect smoke, carbon monoxide and heat (fixed temperature and rate-of-rise), or some combination of these factors.

### Expandable

MX systems are suitable for small installations as well as very large industrial and multi-building sites. While a single MX fire alarm panel can handle hundreds of addressable points, it may be linked to just a handful of detectors and modules. However, adding more panels and devices allows you to develop a fully integrated system of virtually unlimited size across a very wide area.

Once an MX system is installed, it is a relatively simple matter to plug in additional detectors or modules as your needs grow, or as the nature of your fire risk changes.

### Upgradeable

For many years Wormald has had a philosophy of forward and backward compatibility with its fire detection systems. The ability to change-over components when new technology is released allows facilities to be gradually upgraded so that they constantly have the most suitable fire protection.

If you already have a Wormald fire detection system, chances are you can continue to use some of your existing components while upgrading to the very latest *MX TECHNOLOGY*®. And if you are commissioning a new system, you can be confident that future enhancements can be included easily.

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## MX System controllers

The backbone of all Wormald's fire detection systems is the system controller, or fire alarm panel. All signals are received and analysed by the controller, and appropriately responded to.

### Total control

From the system controller the MX detector units can be set to different modes without having to physically change anything. This means if you change the way you use a protected space, and the nature of your fire risk changes, you can simply set the detector to a different mode. You can even program different detector modes for different times of the day if required.

### Intelligent analysis

The MX series fire alarm panels run the latest fire detection algorithms – *FASTLOGIC*® and *SMARTSENSE*®. These algorithms analyse the signals being sent from the various detectors and modules and swiftly identify

potential fire events. The sophisticated logic differentiates between situations that look like fire and those where a real fire event is occurring, minimising false alarms to a very low level.

### Readily upgradeable

By keeping the smart technology in the fire panel, future advances can be easily deployed by simply upgrading the panel software. In many cases there is no need to buy and install additional hardware, simply download a new program. This strategy reduces the long-term costs of owning *MX TECHNOLOGY*® while making sure you always have the latest protection. And, if the building use changes, the detector algorithm and detection mode can be simply changed at the fire panel without the need to change detector units.

*FACT: The fire control logic is centrally located in the MX panel. A simple software upgrade delivers the latest advances.*

## Addressable modules

*FACT:  
MX TECHNOLOGY®  
can extend beyond  
fire detection – it can  
also control security  
and other devices.*

MX series addressable modules extend the functionality of your fire detection systems to include a range of other capabilities. MX fire alarm panels have the ability to both send and receive signals from a variety of devices. By connecting the controls of other equipment and devices, via a suitable addressable module, your fire detection system can be expanded significantly beyond a simple alarm system.

### **Input modules**

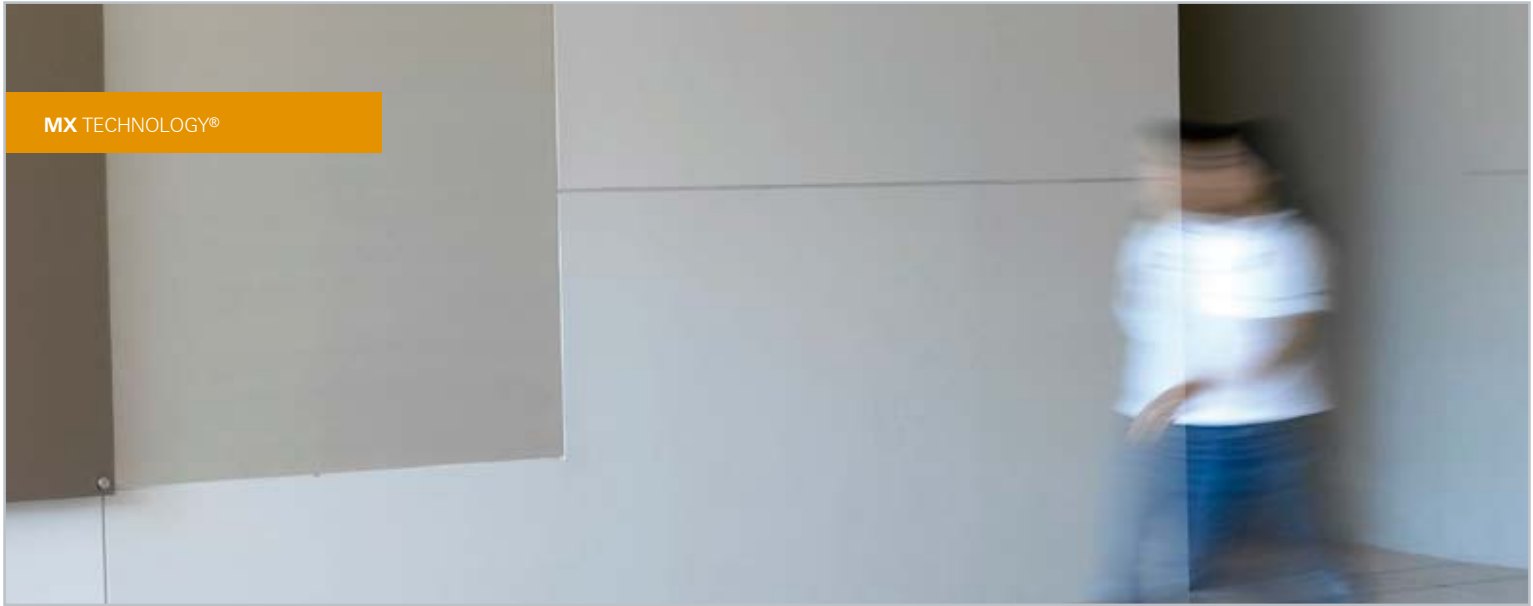
Input modules can monitor output from extinguishing systems, ventilation controls, fire door controls or sprinkler flow switches. The signals from these devices can be incorporated into the monitoring software running on the system panel, providing a complete picture of fire detection and response. A number of input modules are available, including clean-contact options.

### **Relay and notification modules**

The MX fire control panel can be programmed to send signals to other systems and devices in response to potential fire conditions. Relay and notification modules provide an interface with security systems. For example, they can be used to release door holders, initiates stairwell pressurisation or to sound an alarm.

### **Call point modules**

MX automatic fire protection technology can be complemented with manual fire detection devices. For example, the CP820 indoor manual call point has a clever design that allows actuation without a hammer and without any dangerous broken glass.



## Detectors

*MX VIRTUAL*® multi-sensor analogue addressable detectors are robust. They provide rapid response to fire conditions, with a very low false alarm rate.

MX multi-sensor detectors include multiple detecting capabilities in a single unit.

Possible detection modes include:

- > Smoke or CO detection only
- > Heat-enhanced smoke/CO detection only
- > Smoke/CO plus heat detection
- > Heat-enhanced smoke/CO plus heat detection
- > Heat detection only (simple fixed temperature or rate-of-rise).

The detection mode can be set at the fire detector panel, eliminating the need to visit each unit to make a change.

### Reliable detection

The detectors have a high degree of reliability because their operation is simple. The detectors simply provide information about the level of heat, smoke and carbon monoxide and let the advanced fire detection algorithms in the MX fire panel determine

whether or not a fire event is imminent. And they are long life units; technological advances can usually be accomplished by software upgrades without the need to change the detectors.

*MX VIRTUAL*® detectors have an outstanding capability to detect fires early. In particular, their carbon monoxide detection capabilities provide a very early warning to slow smouldering fires, one of the main life safety risks in sleeping areas.

### Self checking

A built-in self verification feature allows the ability to detect fire to be confirmed daily by the system. So that you can ensure all detectors are working correctly without the need to physically check each individual detector separately.

### A choice of functional bases

A range of bases are available on MX detectors, including an isolator base providing short-circuit isolation, sounder bases that allow for local alarms, and a relay base for programmable remote control.

*FACT: Multiple detection capability is possible from a single detection unit.*

## our eXpertise, your choice

*FACT: Wormald offers total flexibility in how you use our expert services.*

We retain our customers' loyalty by providing them with "standards of excellence in design, installation, commissioning and service & maintenance".

While we believe Wormald personnel are the very best choice for all aspects of your fire detection system, it is up to you to decide how to make best use of our services in your business.

There is no better person to service and maintain your MX Fire Detection System than a Wormald Technician with extensive knowledge built on continuous training in relation to the MX product range. However, customers opting to use an alternative service provider other than Wormald can be provided with their panel's password to grant their chosen service provider access to make modifications to the panel's program.

Whichever option you choose, Wormald will work with you to ensure that your property always has suitable fire protection.

### Design

Good system design is at the core of effective fire detection. Wormald's fire detection and suppression engineers are able to give expert advice when designing a fire system. They understand the dynamics of fire behaviour – how fires start, how they spread, and how they are best detected and brought under control.

### Supply

Wormald fire detection components are made from the highest quality materials. We believe that fire detection is one area where nobody should take shortcuts in manufacturing or use sub-standard materials. The components delivered in every *MX TECHNOLOGY®* system have passed a rigorous quality assurance and test program.

### Installation

Each Wormald installer has been carefully trained to understand fire engineering specifications and to install components without damage. Our project managers carefully plan and coordinate installation activities to minimise disruption to your business.

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# Fire protection – a critical risk management task

## Maintenance

Wormald's *MX TECHNOLOGY*® is a low maintenance system that requires little intervention. However, it is a system that requires a certain level of expertise and understanding of the technology. Wormald maintenance technicians are fully trained and conversant with how each component works and how they interact with each other. Our technicians are also trained in servicing fire detection systems in compliance with relevant regulations and standards, including AS1851-2005.

All organisations need to be concerned about fire risk, especially where there are: large numbers of people passing through areas, substantial building assets, or equipment that is mission-critical.

Our prime concern is protecting people against the potential for death and serious injury resulting from fire. A single fire event can have catastrophic consequences, however the destruction or disablement of buildings and equipment can also have

devastating impact. The consequences of a fire may linger for some time as facilities are rebuilt, customers are re-established and products start moving again.

## Comprehensive protection

Wormald's comprehensive experience allows us to analyse hazards effectively and design fire detection systems that leave little to chance. Our *MX TECHNOLOGY*® fire detection systems respond at the first hint of fire so that fire can be extinguished before it gets a chance to take hold.

## No second chances

If your business is worth protecting, it is worth protecting with the very best technology available.

Thankfully, fire events are rare. But when they do occur, the effects can be devastating. There is no opportunity to choose a more capable fire system when the flames are roaring through your business. Your choice of fire protection must be correct the first time.

*FACT: There are no second chances when choosing fire detection. Get it right the first time.*

## Available at Wormald

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