A Tradition of Fire Detection Innovation
About Zettler

Who is Zettler
Zettler has a long and proud tradition in fire detection. Founded in Munich in 1877 as Elektrotechnische Fabrik Alois Zettler it quickly became a recognized name for quality fire detection, light call and other building control solutions.

When Zettler became part of Tyco International in 1996 the fire detection product line was available throughout Europe and has since gone from strength to strength benefitting from the resources and investment available from Tyco.

World Class Manufacturing
Today, ZETTLER products are made in world class globally certified European Tyco owned factories which ensure the highest levels of quality and environmental health and safety.

MZX Technology
The Zettler fire detection system is built on the MZX Technology platform which has been developed on the back of the best innovations from Tyco companies in the field of fire detection.

Global Certifications
ZETTLER products have global certification from many approval authorities and product development and manufacturing procedures are regularly audited and inspected by independent test houses from around the world.
Built on 100 years of product innovation

The Zettler range has been built around MZX Technology which provides some of the most advanced fire detection capabilities available.

Developed from integrating many years of product innovation through research and development across Europe, the MZX Technology platform has provided some of the best sensing technologies over 100 years and has been a great contributor to early detection and minimizing false alarms. It has also been responsible for some of the best installation techniques allowing easy and flexible engineering and installation. This has resulted in the Zettler range being the most resilient, reliable and serviceable systems available and has the broadest level of standards compliance.

Zettler in 2000’s

Zettler was one of the world’s first fire detection manufacturers to transition from analogue to digital communication technology ensuring high levels of system resilience and reliability. Providing reliable communications on all types of new and existing cables in all manner of wiring layouts, the Zettler ZX Digital protocol continues to operate even if the cable is damaged by damp and fire.
MZX Technology for the future

MZX Technology has been built on previous innovations including ZX Digital communications protocol and ZX Fastlogic detection algorithms to provide a world beating combination of superior fire detection, false alarm rejection and robust reliable design. Combined with it’s easy to install and advanced serviceability features the Zettler range provide installers and end users with a world leading solution.

Advanced System Architecture

The advanced system architecture of MZX Technology ensures that Zettler fire detection panels maintain forward and backward compatibility whilst providing the hooks to support redundant networks, IP communication technology, advanced user interfaces and open protocol integration with other building systems.

3oTEC Multi-Sensor

The 3oTec multi-sensor takes the best optical smoke detection technology and combines this with carbon monoxide gas detection and heat detection to provide a universal fire detector with algorithms that provide earlier detection of slow smouldering fires whilst providing a level of false alarm resilience that simply cannot be achieved with optical only fire detectors.
Unrivalled Resilience & Reliability

MZX Technology makes the Zettler product line one of the most robust and reliable fire detection systems on the market with an enviable set of product approvals, listings and certifications. Zettler products are not just approved to the minimum specifications required, the products are put through the most extensive certification programs to ensure the highest levels of reliability and performance.

// Digital Addressable Loop
All Zettler addressable systems use the ZX Digital addressable system, designed originally for the marine and offshore market place, ZX Digital provides unsurpassed levels of communication reliability even over old cables and wiring damaged by damp or fire.

// Resilient Fire Panel Network
The Zettler redundant peer to peer panel network not only meets EN54 part 13 but is also approved to EN54 part 2 which means that multiple fire panels networked together are approved to operate as though they are a single distributed fire panel. Even if the network is broken in two places the fire panel network can continue to operate as two system segments.

// Reliability Certifications
Zettler systems are designed for use on the most demanding industrial applications but all Zettler installations now benefit from the products reliability certification to Safety Integrity Level 2 (SIL2) as specified in the international IEC61508 standard.
Lower Life Time Cost
& Improved Serviceability

Zettler has always stood for high quality and excellent value for money. Today’s Zettler systems extend this value through the whole lifetime of the fire detection system.

The Zettler fire detection products are packed with features that start saving money from the day that installation commences. Features to reduce install costs, simplify configuration and speed up servicing are provided as standard.

The use of MZX Technology ensures extended life time and forward compatibility with next generation products.
The Zettler 850EMT is a revolutionary engineering tool that can significantly simplify and speed up installation as well as documenting the system commissioning and service records.

With its intuitive colour touchscreen display and advanced bi-directional remote infra-red communications to Generation 6 detectors the 850EMT is an invaluable aid to the installation, commissioning and service engineer.

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MZX Digital Addressable Fire Detection System

Networking TLI800EN Network Interface Module

This Module allows MZX Technology Fire Controllers to be “seamlessly” networked together. The MZX Net communications network comprises a collection of network interface modules and peripheral equipment that together form a fault resistant, and flexible peer-to-peer network for the MZX Digital addressable fire systems controllers. With this network no host or master controller is required and if communication in the network is interrupted, all nodes in a peer to peer network will continue to work as stand-alone fire panels.

In addition because the network is programmed locally it can be easily extended or re-organised.

The MZX Technology Network has full EN54 approvals and has been designed for use in high rise commercial and residential buildings. It is equally suitable for campus style environments such as universities, hospitals and industrial parks.
Generation 6 detectors

Better environmental performance.
Better detection performance.
Greater fault tolerance.
Reduced lifetime cost.
Quicker, easier and safer to install and service.

// Up to 99 panels can network seamlessly together allowing your system to expand
Zero Harm to People and the Planet

The Zettler fire detection product line has been designed to support Tyco’s Zero Harm policy which is about zero harm to people and the environment, an increasingly important policy for installers, building owners and occupiers. The Zettler Zero Harm program is concerned with minimising the impact to the environment and the risk to the health and safety of those involved during the lifetime of the fire detection system. Whether during the manufacturing process, installation, operation or finally during its removal, recycling and disposal.

// Recycling goes further

Returned equipment that fails the re-test is sent for recycling but increasingly our component salvage program removes critical electronic components from the printed circuit boards to help manufacture new service spares to extend service life.

// Remote Engineering Tools

A variety of tools are available to eliminate where possible the need to use ladders and scaffolding during the installation and service of Zettler fire detection systems and thus removing the single biggest risk to health and safety during this period of the product life. The 850EMT can communicate directly with detectors installed as much as 14 metres above the ground.

// Zettler first with Green Passport

As part of an on-going program 95% of the Zettler fire detection product has now been issued with a Green Passport following independent third party analysis of the chemical contents of the products. Like the European government “lead free” initiative the Green Passport tests the products for minute levels of 14 other hazardous substances. Primarily intended for installations on ships, it’s an important environmental stamp of approval.

// Clouds Services reducing the energy footprint

Zettler fire detection systems use very little power during operation but a single unnecessary service breakdown visit during its lifetime can double the lifetime energy consumption of the installation. One of the single biggest benefits of Zettler cloud services and remote diagnostics is to eliminate unnecessary breakdown visits and ensure a single visit is all that is necessary. Using predictive diagnostics it is even possible to achieve this before the system fault appears.
We use technology to reduce our carbon footprint

Health and Safety

We are redesigning our products to make the lives of our staff and our customers easier. Wherever possible we try to design products that reduce the physical stress needed to install or maintain them. For instance - now detectors can be programmed remotely and our EMT850 “engineering management tool” improves health and safety as technicians no longer have to use ladders to programme each device. This also saves considerable time during installation.
Full range of systems

The ZETTLER range of control panels and accessories include a full range of stand alone addressable, networked addressable and conventional panels. This also includes gaseous releasing panels. These panels have been designed to be resilient, compact, easy to install and configure. They are also forward/backward compatible and intuitive to operate.
// Conventional Range

The MZX-C and MZX-C+ control conventional panels employ one or more circuits, connected to sensors wired in parallel. They have the capacity for 2 – 32 zones and the possibility of connecting external repeaters. They also support the complete range of EN54 approved series 600 detectors including photo multi-sensor and the CO multi-sensor. The MZX-C+ also comes with the possibility of extensive custom options which are programmable via switches and the front panel controls.

// Addressable Range

This range includes the MZX 125/250 (1 + 2 loop) and the MZX 500* which has 2 Multi loop panels that are the first of a new generation of ZETTLER fire systems using MZX Technology™.

// Gas Releasing Panels

This range includes the FAST2000® and the MZX-e Extinguishing Control Panel. The FAST2000/2 range is designed for small, medium and large installations in industrial and commercial applications. They are based on the latest Tyco PBS Technology and conform to EN54-2/-4 standard for Fire Alarm Panels, and before EN12094-1 standard for extinguishing control systems and the VdS Guidelines. The MZX-e is powerful and user friendly and is the only extinguishing controller approved to both the Extinguishing Standard EN12094 and to the Fire Detection Standard EN54 Part 2 & 4. The panel is easy to install, programme and operate and has extensive configuration options.
MZX Special Hazards detection and applications

A significant proportion of buildings, particularly in the industrial and manufacturing sectors, require some level of specialist detection. These areas are normally associated with potentially explosive atmospheres due to the presence of flammable gases or dusts. The Zettler range also includes specialist detection solutions designed to protect a much wider range of environments and potential risks.

// Flame Detection
Zettler’s FlameVision FV300 is a range of array-based flame detectors that use a multi-infrared array to detect flame and provide positional information so that the location of a flame within the detector’s field of view can be communicated. Additionally, an inbuilt CCTV camera can transmit a “detector’s eye view” of the protected area to a CCTV monitor. Superimposed onto the CCTV picture will be the positional data highlighting exactly where the source of alarm is coming from.

// Loop Powered Beam Detection
Loop powered optical beam detectors provide an economic solution in terms of installation and servicing costs for the protection of large areas such as warehouses. Self aligning reflective beam detectors and traditional end-to-end versions are available in the Zettler range as well as newly developed Open Area Smoke Detection that uses optical imagers to automatically align and calibrate and detect.

// MZX Sensor Laser Plus
The MZX SensorLaser™ Plus guarantees fast and continuous fire detection, even in difficult and varying ambient conditions. This linear heat detection system enables long and heavily fragmented facilities such as traffic and supply tunnels, cable routes and conveyor belts as well as large scale buildings such as production halls, cold stores and multi storey car parks to be monitored at all times.

// Aspirating Detection
VESDA aspirating smoke detection provides a high sensitivity method for detection of fires at a very early stage. They are ideal for areas such as computer rooms and other high risk and high value areas. The choice of products range from the low cost IAS800 Aspirating Detector unit that is often used to overcome access problems associated with protecting lift shafts, to the LaserPlus detector with multiple sampling pipes and high level MZX interface.

// Hazardous Area Detection
Intrinsically safe system 602 provides a conventional smoke and heat detection capability whilst system 800 provides an MZX digital solution. Both systems are ATEX and ICEX approved for use in gas or dusty, potentially explosive atmospheres. For dust applications, were smoke detection can be problematic, a combined carbon monoxide/heat fire detector is available.

// Combined Fire and Gas Detection
Areas requiring fire detection often also require gas detection and the most economic solution can be a combined system. The MZX technology 3oTec triple multi-sensor detector can be configured to provide separate distinguishable alarm conditions for both fire and toxic CO alarms. The VESDA aspirating smoke detection system can be combined with VESDA ECO detectors to sense a range of flammable gases.
We give you vital time to deal with potentially serious fires

Special Hazards Require Special Solutions

// VESDA ECO gas detection
// System 600
// System 800
// Loop Powered Beam Detectors
// 3oTec Triple Sensor
// OSID
// FlameVision FV400 & FV300
// VESDA Aspirating Detector
// MZX SensorLaser Plus
// IAS800 Aspirating Detector
Applications

Different environments require different solutions which is why we have developed a wide product portfolio. This enables us to provide you solutions for applications from light commercial and large industrial to the even more challenging areas of hazardous areas such as oil and gas platforms.

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**Healthcare**

Special care needs to be taken when configuring systems for hospitals, care-homes and healthcare centres as these are places full of particularly vulnerable people. Because of this the reliability of the system is paramount as its primary function is to protect life.

Due to the potential lack of mobility of people in these places and the probability that some may well be sleeping (even during the day) the chosen system needs to give the earliest possible warning in the event of a fire.

In addition special alarming and evacuation procedures have to be in place for those with additional disabilities like hearing loss. It’s crucial that the detection systems are free from false alarms to minimize disruption to patients who could be undergoing surgery.

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**Industrial**

Manufacturing and warehousing facilities can be areas of high fire risk. Even though they may carry high value items the potential loss in manufacturing can also result in significant loss in market share due to prolonged closure after a fire.

Detection systems in industrial facilities need to deal with harsh environmental conditions (heat, dust, cold, explosive conditions). We provide specialist fire detection products for special hazardous environments.

Depending on the nature of the manufacturing and warehousing facility we are able to help plan individually tailored solutions.

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**Leisure**

All leisure facilities such as Hotels, Cinema, Sports Venues, Auditorium, Stadia and even swimming pools run the risk of fire.

These facilities particularly hotels are prone to unwanted alarms. These are usually caused by some unusual occurrence close to a sensor, eg someone smoking a cigarette under a sensor.

Early detection is required especially in places where people who are sleeping. Our 3oTec, triple sense detector will sound the alarm before flames begin to spread. Most fire victims are killed by carbon monoxide and the 3oTec alerts people at the earliest stages of a fire, hence providing valuable time to evacuate.
// Public Sector

Schools, Universities, Government Buildings and Prisons usually comprise of many separate buildings that require flexible and networkable systems. Alarm systems in these buildings also need to be easy to use and to clearly indicate where a problem is occurring. Our TXG system provides a graphical display making it fast and simple to pin-point a potential fire.

Prisons present a special problem as evacuation is not always feasible. To alleviate this, sabotage resistant detectors can be installed in each cell, or a VESDA aspirating smoke detector. This can help to address any accidental unwanted alarms also.

// Energy and Utilities

Nuclear, fossil fuel, renewable power generation, petrochemical, oil and gas production and storage all fall into this category of hazardous environments, where potential fire risk are extremely high due to the large amounts of combustible materials around. Whilst in the case of nuclear power the risk of a radiation leak cannot be ignored.

ZETTLER has a wide range of products and systems to protect these industries. We have special intrinsically safe detectors and cabling that is heat resistant and won’t create a spark. Our detectors can indicate the presence of flames, smoke, heat and carbon monoxide (which is responsible for a large number of fire related deaths).

// Commercial

In premises such as shopping malls, offices, banks, transport hubs, communications and data processing centres, one of the biggest problems can be evacuating a large number of people from the building in an emergency. In these situations multiple evacuation strategies may be required.

To ensure that business critical functions are not interrupted an alarm verification facility (AVF) may be needed. This provides an automatic resetting function for spurious alarm signals so they will not activate the master alarm.
Global Strength. Local expertise.
At your service.

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