iGNiS
FIRE PROTECTION SYSTEMS

# A Tradition of
Fire Protection Innovation

ZETTLER

Addressable Range Introduction

Introduction

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Control Panels

PROFILE Flexible is a powerful fire detection and alarm system, highly resilient to external factors such as electrical noise, including interference from electrical signals from other devices, and sources of false alarm. With the introduction of a slot card mechanism, PROFILE Flexible panels can be tailored to the specific requirements of the application and the environment being protected. The panel has been specifically engineered to offer increased loop capacity and the option to share loops giving even more flexibility in the systems design and a reduction in installation costs.

The touchscreen user interface, with context sensitive help, has been ergonomically engineered so that every operation is made easy. Features such as the touch sensitive LEDs that provide detailed status information are intended to ensure a fast response to all system events. The system combines ease of use with high performance, and through innovation brings lifetime cost benefits to end users.
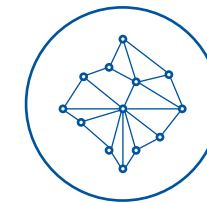
Network & Graphics

ZETTLER offers a range of panels from a single loop to 32 loops. Each panel can address up to 4000 addresses and is configurable up to 240 zones. Panels can be easily networked by adding a network card. The network can be extended up to 99 panels with panels interacting with each other where required. The network is a true peer to peer network which remains unaffected by a single node failure. Furthermore failure of any panel's main processor will not inhibit transmission of any fire alarm or fault signal from that panel across the network to a designated panel's zonal display. Networks can be created using a wide range of cable types or fibre optics.

The network will support the Expert Graphics (TXG), Emergency Management System and Graphical User Interface. The system provides annunciation, status display and control for the ZETTLER network either to a single or multiple stations. Multiple stations are connected as true clients of the dedicated primary station, (server) and can be on the clients own network if desired. TXG is a windows based system which uses a combination of symbols, floor plans, pictures, text, voice messages and video input to display events and create actions for the operator. TXG is user friendly and simplifies the operator's actions, saving valuable time in an emergency.
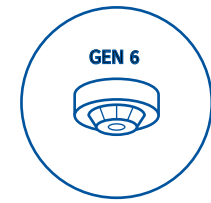
Detectors

Detectors in our Generation 6 range have been developed to ensure optimum detection performance and reliability intended to assure false alarm resilience at all times and provide a fast response to threats of fire.

Generation 6 sensors and multisensors integrate the best in sensor technology with powerful software that provides fire detection to suit all risks and all possible scenarios. The software allows the detection to be optimised to suit the building, its occupancy and therefore the risk. Changing detection modes, changing sensitivity and changing cause and effect are all features available under the day/night mode operator function key. Detection technologies include Carbon Monoxide, Smoke, Heat and Flame, some of which are combined in powerful algorithms to provide fast detection and reduce unwanted alarms, even in the harshest of environments. Two different ranges provide options with and without short circuit isolators and two way infra-red communications. The system combines ease of use with high performance, and through innovation brings lifetime cost benefits to end users.

Callpoints

The MCP range of call-points includes both indoor and outdoor models. Call points can be flush or surface mounted as a selection of back boxes and bezels are available. Anti-tamper devices are also available which fit around the unit making it less likely for persons to attempt malicious activations.

The call point activation window can be a non-fragmenting element which breaks cleanly with no glass fragmentation, but needs replacing after use; or a deformable element which can be reset with a key and does not need replacing. All models have an integral short circuit line isolator and alarm LED. In addition to that, the range includes manual DIN call points for inside and outside use.

Fire Alarm Devices

ZETTLER offers a comprehensive range of fire alarm devices including sounders, visual alarm devices (VAD) and visual indicating devices (VID). They all have a low current consumption that enables users to install a high number of devices on a single loop. Sounders and VADs are equipped with a sound and light sensor that enable them to perform a self-test with a duration of a fraction of second. VADs are approved to EN54-23 to ceiling and wall categories and their LED light has a pulse width lower than 20ms that ensures a higher level of visibility for the occupants.
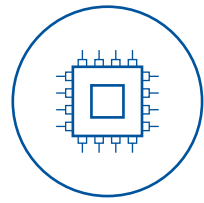
Ancillary Modules

ZETTLER addressable ancillary modules are an essential part of the addressable systems portfolio. These devices can monitor, control and interface equipment which is connected to, but is not necessarily an integral part of the addressable system such as gas detectors, dampers, fire doors etc. Several contain an integral short circuit isolator which saves on additional external isolators being fitted. Some units are powered from the addressable loop and require no external power, saving not only the power supply and battery but also the provision of a mains supply.

Software and Programming Tools

ZETTLER addressable fire detection systems benefit from a suite of advanced software packages that simplify and speed up system design, installation, commissioning and service operations.

MZX Consys is a powerful programming tool that allows the commissioning engineer to fully customise the PROFILE Flexible fire detection systems operation to meet the customers specific requirements whilst ensuring that EN54 functionality is maintained.

Designer Pro is a system design tool that provides a graphical user interface to simplify the detailed design of ZETTLER systems.

MZX Datalogger is a PC based service tool that enables device point values to be collected from ZETTLER panels at regular intervals for in depth analysis.

MZX Remote is a software tool which allows a ZETTLER panel to be interrogated and controlled from a remote location.

MZX Checker is a software commissioning tool that provides a graphical way of testing and debugging cause and effect programming.

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PROFILE Flexible
The Next Step in
Fire Detection Solutions

PROFILE Flexible is a powerful fire detection and alarm system that uses MZX Technology at its heart. MZX Technology was originally designed for operation in the most hostile of environments, therefore the system is highly resilient to external factors such as electrical noise, including interference from electrical signals from other devices, and sources of false alarm.

With the introduction of a slot card mechanism, PROFILE Flexible panels can be tailored to the specific requirements of the application and the environment being protected. If a site changes or is developed, the system can be easily expanded to fulfill new requirements.

The panel has been specifically engineered to offer increased loop capacity and the option to share loops giving even more flexibility in the system design and a reduction in installation costs.

The touchscreen user interface, with context sensitive help, has been ergonomically engineered so that every operation is made easy. Features such as the touch sensitive LEDs that provide detailed status information are intended to ensure a fast response to all system events. The system combines ease of use with high performance, and through innovation brings lifetime cost benefits to end users.

The PROFILE Flexible range offers integrated fire detection solutions for many applications including hotels, commercial offices, healthcare environments, industrial and manufacturing facilities.

## 1. Architecturally designed & visually pleasing

With the modern 8.4" TFT colour touchscreen the PROFILE Flexible panel defines new ways of using a fire control panel. The fully customisable home screen allows the panel to adopt the end user's corporate identity. Its state-of-the-art design, different mounting options and sleek aesthetics make it easy to use and look attractive in public environments such as reception areas.

2. Advanced Usability

A key user requirement of a fire panel is for it to be intuitive and easy to operate. The intelligent user guidance of the PROFILE Flexible panel offers a multilingual interface, an ergonomic icon display and touch sensitive status LEDs to provide event summary information in just one click.
The Info-Button, which is an intelligent navigation for operators delivers context sensitive help and on screen operator instructions for ease of use.
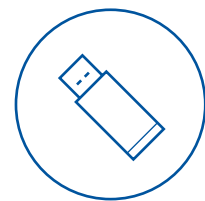
3. Easy to install, configure and use

The USB configuration process is the next step in providing a future proof interface.
It makes the transfer of site configuration easy, saving time and cost during installation and service.
The login via RFID tag replaces the conventional key switch. This allows the unique identification of users and traceability of all actions that have been made to the fire panel. This is especially useful in high risk environments where it can be crucial to track who performed critical functions.

4. Reduced Lifetime Cost

To help reduce the total cost of ownership, PROFILE Flexible provides a number of functions aimed at increased flexibility, not only for the first installation but during the complete lifetime of the system.
Backwards compatibility means existing fire panels with MZX Technology can be networked together with new PROFILE Flexible panels, eliminating the need to upgrade the entire system. 4,000 loop points per panel make it possible to build large single systems, while campus environments will profit from the possibility to position repeaters anywhere using IP cabling structures.

5. System Design Solution

PROFILE Flexible offers increased loop capacity and the option to share loops. Addressable loops can be connected as shared power (SP) loops or combined as high power (HP) loops, meaning practicalities such as building layout no longer dictate the useable size of the detection loop and there is less wasted loop capacity. The slot card principle introduces a modular design capability with around 50 different options offering the opportunity to build the most economical system, specifically tailored to the needs of the application.

The Highlights

The Touchscreen User Interface

Home screen

The home screen of the PROFILE Flexible panel is well-structured and has an easy-to-read appearance. In addition, the home screen can be customised to adopt the end user's corporate identity.

Event log

The PROFILE Flexible panel provides an extensive 10,000 event log which can be selectively viewed or downloaded and then printed or analysed using dynamic filters. These effective event diagnostics help to quickly resolve site investigations.

Info – Button

The Info-Button provides context sensitive help and on screen operator instructions. Designed to provide fast and reliable assistance even for infrequent users.

Site Maps

Screen site maps allow easy access to information such as floors or detectors. These can be site configured so they carry the most up-to-date information. Having all this information available can save time in the event of a fire and help speed up responses during firefighting.

Detail Device

Necessary information can be viewed in a clear and structured way. In the case of a system event, it helps to make the right decision quickly and efficiently.
Fast Access RFID cards give instant user control of the menus and also log the operator access. The scroll button allows active alarm events to be viewed without the need for passwords or keys.

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The Highlights

PROFILE Flexible panels are available with 4 to 32 loops
and up to 99 panels can be networked together.

1 Touchscreen Guided User Interface (GUI)

Designed with the end user in mind, the
PROFILE GUI is intuitive and easy to use.
Through the use of icons and info-buttons it
can deliver context sensitive help, on screen
operator instructions and event summary
information in just one click.
The multilingual home screen is customizable,
so it can match the end users corporate
branding.

2 Keyless log-on using RFID tags

Identifies and logs user actions as well
as making the panel easy to access in
an emergency.

3 LED Display

Can show which zone is in alarm at a first
glance without having to access the panel,
making it easier to identify the location of the
hazard.

4 Slot card mechanism

Provides system flexibility and scalability, as
well as offering the ability to future proof the
system. Through the slot card mechanism
the panels can be designed and tailored to
end user requirements.

5 Mounting Frame

PROFILE Flexible panels come with an
easy-mount frame, intended to allow one
person to install the panel. The frame and
the cables can be fitted before the panel is
mounted to the wall, resulting in stress-free
and safer installation of the panels.

6 Increased Loop Capacity

With 1 A of power per loop, PROFILE
Flexible can accommodate more devices
per loop.

7 Larger Housings

The PROFILE Flexible range introduces
larger housings which allow a more
complex system to be built and housed in
one enclosure.

8 Battery Box

With an external battery box the PROFILE
Flexible system is easily expandable.

Shared Loop Availability

Addressable loops can be connected as shared power (SP) loops or combined as high power (HP) loops.
The system designer can allocate all available power and 250 addresses to a single HP loop, or share
resources across two SP loops. This level of loop power optimisation can significantly reduce total installed
system cost.

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