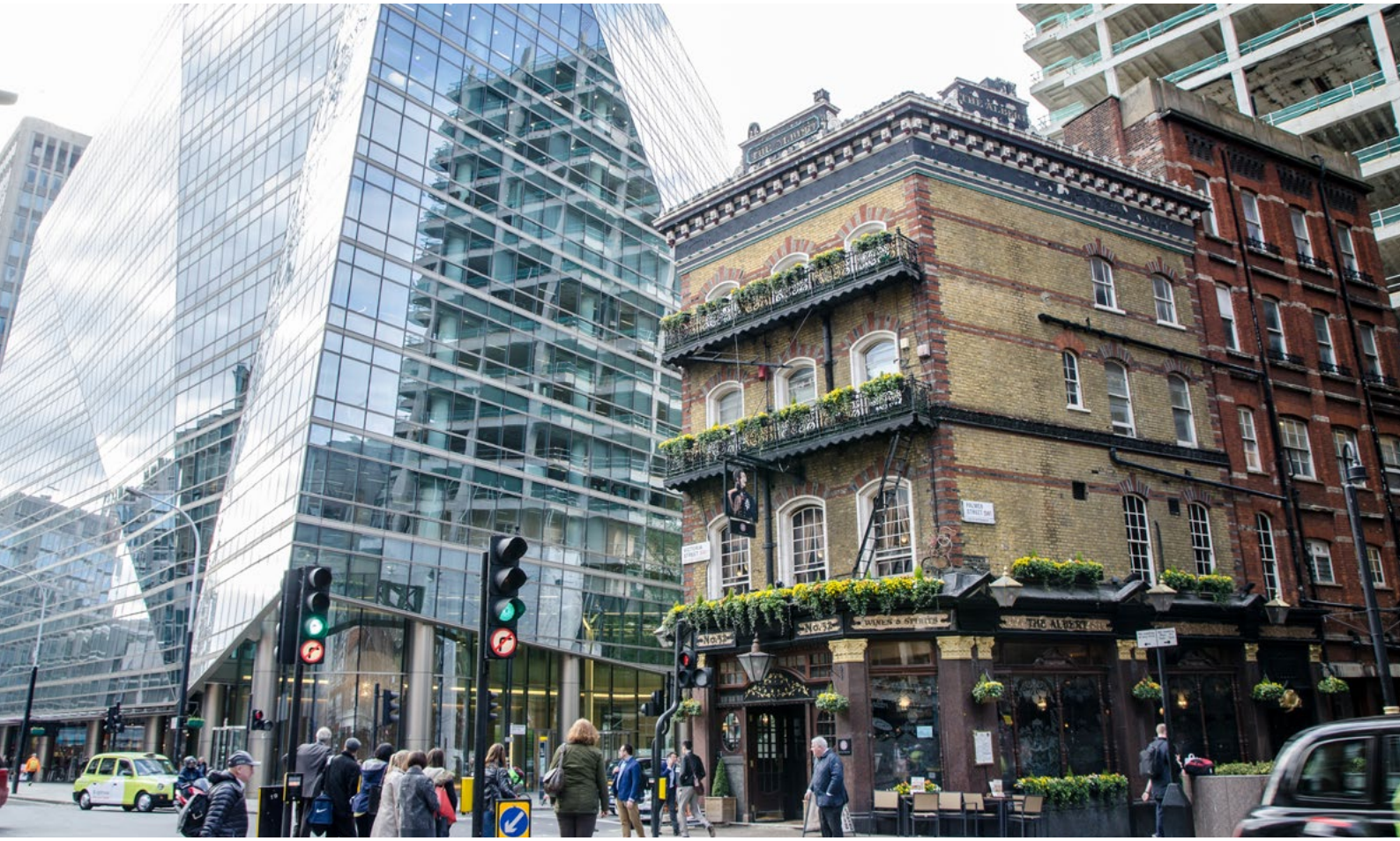
ZETTLER

A Tradition of Fire Protection Innovation



2021/22 Fire Detection Product Catalogue

The power behind **your mission**

Johnson Controls

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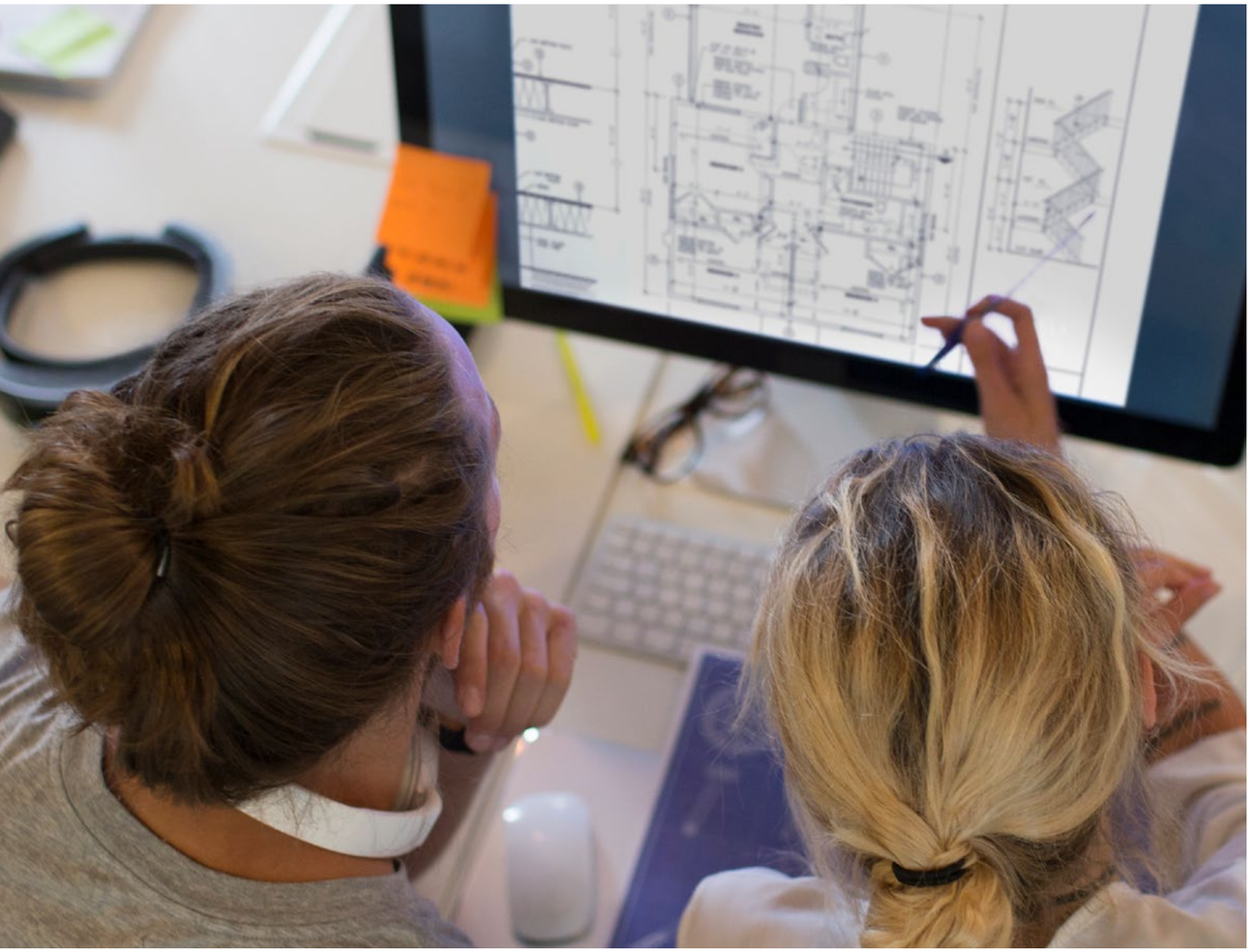


You See Fire Protection

ZETTLER Systems Protect Life Without Compromise

Since 1877, the ZETTLER name has been recognized for providing custom communication, fire detection and fire protection systems that push the industry forward while helping to protect lives, property and provide peace-of-mind. Beyond mere code compliance, ZETTLER systems provide intuitive operation, unmatched flexibility and a proven history of fire protection innovation. This translates directly into long-term cost savings, versatility for future growth and the security of knowing safety isn't being compromised for the sake of convenience.

Only ZETTLER products combine cutting-edge technology with performance proven over decades of use in installations across the globe. ZETTLER fire detection systems provide protection without getting in the way – working in the background to safeguard lives and communities. They do this day after day, year after year with the most advanced detection, the highest levels of accuracy and low environmental impact. Protecting life matters. Safety should never be a compromise.

We See Life Property Peace of Mind

Built on 100 Years of Product Innovation

Built on more than 100 years of product innovation ZETTLER fire detection systems are based on MZX Technology, which is widely recognized as one of the most reliable fire detection solutions available in the market for over 50 years.
Developed in 2000 from integrating Zetfas powerful detection algorithms from Zettler and the Thorn Minerva flexible programming philosophy, the MZX Technology platform brought into the market cutting edge innovations and some of the most advanced sensing technology.

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 digital protocol continues to operate even if the cable is damaged by damp.
ZETTLER has experienced some of the industry's greatest achievements, contributing towards breakthroughs in early detection and minimising false alarms. ZETTLER systems are also renowned for incorporating some of the best installation techniques, allowing easy and flexible engineering for even highly complex buildings.
The latest PROFILE Flexible and PROFILE panel range bring together the heritage of the MZX platform and provide new benefits to make the ZETTLER system one of the most resilient, reliable, easy to use and serviceable systems available with the broadest level of standards and compliance.

Why ZETTLER

Insightful Fire Engineering

ZETTLER product line provides one of the most robust, reliable and ergonomic fire detection systems on the market with an enviable set of product approvals, listings and certifications. Products, are put through the most extensive certification programs to ensure the highest levels of reliability and performance.

Approvals Beyond Standard

ZETTLER products have global certification from many approval authorities including VdS, LPCB, BOSEC and many others. ZETTLER systems have EN54-13 approval, an independent test of the compatibility between system components, including detectors, ancillaries and panels, to ensure the highest level of reliability and performance.

Ergonomic Design

The ZETTLER PROFILE Flexible fire alarm control panel is designed with key users in mind. It's easy to configure, touchscreen user interface has been ergonomically engineered with an intuitive Info-Button and context sensitive help function to provide you with the information you need about your system's performance quickly and easily.

Best in Class Resilience

ZETTLER products are based on MZX Technology which has been built on innovations including MZX Digital communications protocol and Fastlogic detection algorithms to provide a world beating combination of superior fire detection and false alarm rejection.

Lower Life Time Cost & Superior Service

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.

Scalability and Modular Design

The PROFILE Flexible range introduces modular design capabilities with the slot card principle offering the opportunity to build the most economical design which is specifically tailored to the needs of the application. The system can be expanded and adapted to meet your future changing needs.

Extended Loop Capacity

Practicalities such as the layout of a building or the number of alarm devices will often dictate the useable size of a detection loop and can result in unused capacity. In order to optimise loop capacity, PROFILE Flexible offers a system design solution with an extended current loop of 1 Ampere. 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 high power loop, or share resources across two shared power loops. This level of optimisation can significantly reduce total installed system cost.

Forward and Backward Compatibility

Future proofing of the ZETTLER product is a key design priority and the MZX Technology system architecture ensures that software, memory and microprocessor upgrades can be easily implemented in the future. In addition compatibility with earlier generation detectors is seamless. Earlier generations of detectors can also be supported by ZETTLER panel accessories such as the Zetfas/STI loop card and the DDM800 Universal Fire and Gas Detection module.

Reflective Sound and Light Monitoring

The sounders and beacons of the ZETTLER range also contribute to the reduced lifetime costs.
Sounders with Reflective Sound Monitoring (RSM) and Visual Alarm Devices with Reflective Light Monitoring (RLM) use their integrated mircrophone and optical sensor to monitor their own operation, providing a quick and simple regular system testing mechanism. Self testing lasts less than one second per device and can be programmed to occur at any time, minimizing disruption to building occupants.

Extended Service Life (ESL)

ZETTLER Generation 6 detectors include the latest ESL optical chamber design which has doubled the service life of the optical smoke detectors. This is useful in all applications, but will particularly help in areas where normal smoke detectors quickly get dirty.

Applications

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

Healthcare

Special care needs to be taken when configuring systems for hospitals, care-homes and healthcare centres as these are places full vulnerable people. 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 is crucial that the detection systems are free from false alarms to minimize disruption to patients who could be undergoing surgery.

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

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, e.g. smoking a cigarette under a sensor. Early detection is required especially in places where people 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. The 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 risks are extremely high due to the large amounts of combustible materials around. 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.

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 false alarm signals so they will not activate the master alarm.

Addressable Range Introduction

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.

Addressable Range

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.

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.

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.

PRO215S 2 Loop PROFILE Flexible Panel

The Pro215S is housed in a compact shallow enclosure and can support 250 addresses in total. Pro215S can be seamlessly networked together with other panels making it suitable for a range of applications.
ZETTLER PROFILE's robust loop protocol can operate in the harshest of environments. Essential for system upgrades, existing cables can be reused, significantly reducing the cost of replacing a system. Ample loop power is available to meet the increasing demand for visual alarms in addition to traditional audible alarms.
Each addressable loop can be connected as one high power (HP) loop or two shared power (SP) loops. This provides the system designer the flexibility of allocating all available power and 250 addresses to the HP loop, or to share resources across two SP loops. This level of optimization can significantly reduce total installed system cost.

557.200.841	PRO215S	2 Loop PROFILE Flexible Panel

Features

- 8.4" TFT colour touch screen multilingual user interface
- Ergonomic Icon Display–simple to operate user interface eliminates operator errors
- Touch sensitive status LEDs provide event summary information–instant access to detailed event information
- Context sensitive help and on screen operator instructions–reduces the need for user training and provides support for infrequent users
- User configurable on screen site maps – no need for additional site plans
- Programmable graphic quiescent display – opportunity for customer branding
- Comprehensive point management and disable functions–gives the user full control and reduces service and maintenance effort
- Selectively view or print from the extensive 10,000 event log using dynamic filters–effective event diagnostics to quickly resolve site investigations
- Keyless log-on using RFID tags–identifies and logs user actions
- Flexible single or dual hardware loop configurations–optimise loop power and address capacity
- Compact shallow housing

Components

- Wall-mounted central unit with flat housing
- Power supply 24 V / 5 A
- Main board with two shared power (SP) loops, configurable as a high power (HP) loop – PFI800
- 4 vacant slots
- 8.4" TFT colour touch screen multilingual user interface

Technical data:

General	
Number of loops:	2 SP, 1 HP
Addresses per loop:	Up to 250 on 1 SP or 2 HP loops
Total number of addresses:	250
Number of alarm group LEDs:	16
Mechanical Data	
Dimensions (H x W x D):	480 x 410 x 140 mm
Weight:	11.0 kg
IP rating	IP30
Colour	
Housing:	RAL 7016 fine texture, matt
Door Colour:	RAL 7040 fine texture,
Border of operating panel:	matt RAL 7016
Ambient Conditions	
Operating temperature:	-5°C to + 40 °C
Storage temperature:	–20°C to +70°C
Relative humidity (non-condensing):	90% relative humidity, continuous
EMC/RFI:	EN50130-4, EN61000-6-3
Electrical Data	
Supply voltage:	230 V AC, 50/60 Hz
Input current:	1.6 A

Options:

557.202.006	IOB800	8 I/O card
557.202.844	PNI800	PROFILE Flexible network interface slot card
557.202.100	FB800	Fuse board 15 way
557.202.081	FOM800	Glass-fiber module for use with PNI800

PRO215D 2 Loop PROFILE Flexible Panel

The Pro215D has a deep housing to accommodate larger batteries for extended standby periods and can support 250 addresses in total. Pro215D can be seamlessly networked together with other panels making it suitable for a range of applications.
ZETTLER PROFILE's robust loop protocol can operate in the harshest of environments. Essential for system upgrades, existing cables can be reused, significantly reducing the cost of replacing a system. Ample loop power is available to meet the increasing demand for visual alarms in addition to traditional audible alarms. In order to optimise loop capacity, PROFILE Flexible offers a system design solution.
Each addressable loop can be connected as one high power (HP) loop or two shared power (SP) loops. This provides the system designer the flexibility of allocating all available power and 250 addresses to the HP loop, or to share resources across two SP loops. This level of optimisation can significantly reduce total installed system cost.

557.200.842	PRO215D	2 Loop PROFILE Flexible Panel
557.200.842	PRO215D	2 Loop PROFILE Flexible Panel RED

Features

- 8.4" TFT colour touch screen multilingual user interface
- Ergonomic Icon Display–simple to operate user interface eliminates operator errors
- Touch sensitive status LEDs provide event summary information–instant access to detailed event information
- Context sensitive help and on screen operator instructions –reduces the need for user training and provides support for infrequent users
- User configurable on screen site maps – no need for additional site plans
- Programmable graphic quiescent display – opportunity for customer branding
- Comprehensive point management and disable functions–gives the user full control and reduces service and maintenance effort
- Selectively view or print from the extensive 10,000 event log using dynamic filters–effective event diagnostics to quickly resolve site investigations
- Keyless log-on using RFID tags–identifies and logs user actions
- Flexible single or dual hardware loop configurations–optimise loop power and address capacity
- Compact deep housing designed for extended battery standby period
- Pro215D is also available in a red housing (RAL 3001)

Components

- Wall-mounted central unit with flat housing
- Power supply 24 V / 5 A
- Main board with two shared power (SP) loops, configurable as a high power (HP) loop – PFI800
- 4 vacant slots
- 8.4" TFT colour touch screen multilingual user interface

Technical data:

General		
Number of loops:	2 SP, 1 HP	
Addresses per loop:	Up to 250 on 1 SP or 2	
Total number of addresses:	250	
Number of alarm group LEDs:	16	
Mechanical Data		
Dimensions (H x W x D):	480 x 410 x 205 mm	
Weight:	11.5 kg	
IP rating	IP30	
Colour		
Housing:	RAL 7016 fine texture, matt	RAL 3001 for red version
Door Colour:	RAL 7040 fine texture,	
Border of operating panel:	matt RAL 7016	
Ambient Conditions		
Operating temperature:	-5°C to + 40 °C	
Storage temperature:	–20°C to +70°C	
Relative humidity (non-condensing):	90% relative humidity, continuous	
EMC/RFI:	EN50130-4, EN61000-6-3	
Electrical Data		
Supply voltage:	230 V AC, 50/60 Hz	
Input current:	1.6 A	

Options:

557.202.006	IOB800	8 I/O card
557.202.844	PNI800	PROFILE Flexible network interface slot card
557.202.100	FB800	Fuse board 15 way
557.202.081	FOM800	Glass-fiber module for use with PNI800

Pro8x5D 4-8 Loop PROFILE Flexible Panel

Pro815D and Pro885D fire alarm panels can each support 1000 addresses in total and panels can be seamlessly networked together making PROFILE Flexible suitable for a range of applications. They are equipped with four SP loops that can be hardware configured as two HP loops and can easily be expanded to 4 HP loops or 8 SP loops.
ZETTLER PROFILE's robust loop protocol can operate in the harshest of environments. Essential for system upgrades, existing cables can be reused, significantly reducing the cost of replacing a system. Ample loop power is available to meet the increasing demand for visual alarms in addition to traditional audible alarms. In order to optimise loop capacity, PROFILE Flexible offers a system design solution. Each addressable loop can be connected as one high power (HP) loop or two shared power (SP) loops. This provides the system designer the flexibility of allocating all available power and 250 addresses to the HP loop, or to share resources across two SP loops. This level of optimisation can significantly reduce total installed system cost.

557.200.845	PRO815D	4-8 Loop PROFILE Flexible Panel
557.200.845.R	PRO815D	4-8 Loop PROFILE Flexible Panel RED
557.200.846	PRO885D	4-8 Loop PROFILE Flexible Panel with zonal LEDs

Features

- 8.4" TFT colour touch screen multilingual user interface
- Ergonomic Icon Display
- Touch sensitive status LEDs provide event summary information
- Context sensitive help and on screen operator instructions
- User configurable on screen site maps
- Programmable graphic quiescent display
- Comprehensive point management and disable functions
- Selectively view or print from the extensive 10,000 event log using dynamic filters
- Keyless log-on using RFID tasg
- Flexible single or dual hardware loop configurations
- Compact deep housing designed for extended battery standby period
- Pro815D is also available in a red housing (RAL 3001)

Components

- Wall-mounted central unit with deep housing
- Power supply 24 V / 5 A
- Main board with four shared power (SP) loops, configurable as a 2 high power (HP) loops – PFI800
- 4 vacant slots
- 8.4" TFT colour touch screen multilingual user interface

Technical data:

General		
Number of loops:	4 SP, 2 HP, can be extended up to 4 HP, 8 SP	
Addresses per loop:	250	
Total number of addresses:	1,000	
Number of alarm group LEDs:	Pro815D: 16	
Configured	Pro885D: 80	
Mechanical Data		
Dimensions (H x W x D):	480 x 410 x 205 mm	
Weight:	12.5 kg Pro885D: 13.0 kg	
IP rating	IP30	
Colour		
Housing:	RAL 7016 fine texture	RAL 3001 for red version
Door Colour:	matt RAL 7040 fine texture	
Border of operating panel:	matt RAL 7016	
Ambient Conditions		
Operating temperature:	-5°C to + 40 °C	
Storage temperature:	–20°C to +70°C	
Relative humidity (non-condensing):	90% relative humidity, continuous	
EMC/RFI:	EN50130-4, EN61000-6-3	
Electrical Data		
Supply voltage:	230 V AC, 50/60 Hz	
Input current:	1.6 A	

Options:

557.202.006	IOB800	8 I/O card
557.202.842	LX800	PROFILE Flexible loop expansion slot card
557.202.844	PNI800	PROFILE Flexible network interface slot card
557.202.100	FB800	Fuse board 15 way

Pro16xD 4-16 Loop PROFILE Flexible Panel

The Pro16xD is expandable from 4 to 16 loops and can support 2000 addresses in total which makes it ideal for mid size facilities. Ample loop power is available to meet the increasing
demand for visual alarms in addition to traditional audible alarms. In order to optimise loop capacity, PROFILE Flexible offers a system design solution. 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 optimisation can significantly reduce total installed system cost.
ZETTLER PROFILE's robust loop protocol can operate in the harshest of environments. Essential for system upgrades, existing cables can be reused, significantly reducing the cost of replacing a system.

557.200.847	Pro16xD	4-16 Loop PROFILE Flexible Panel
557.200.847.R	Pro16xD	4-16 Loop PROFILE Flexible Panel RED

Features

- 8.4" TFT colour touch screen multilingual user interface
- Ergonomic icon display
- Touch sensitive status LED's provide event summary information
- Context sensitive help and on screen operator instructions
- User configurable on screen site maps
- Programmable graphic quiescent display
- Comprehensive point management and disable functions
- Selectively view or print from the extensive 10,000 event log using dynamic filters
- Keyless log-on using RFID tags– identifies and logs user actions
- Black-Box versions with a minimum display provide economical network solutions
- Optional, programmable 40 or 80 way zonal LED display
- Selective loop configurations and loop power options
- Easy-mount frame permits one person installation
- Slot card arrangement for expansion for easier installation and service
- Also available in a red housing (RAL 3001)

Technical data:

General		
Number of loops:	4 SP, 2 HP– can be extended up to 8 HP, 16 SP	
Addresses per loop:	Up to 250	
Total number of addresses:	2,000	
Number of zonal LEDs (optional)		
Pro16xD:	40 or 80, with additional housing for up to 240	
Number of expansion slots:	4	
Mechanical Data		
Dimensions (H x W x D)		
Central unit:	480 x 438 x 263 mm	
Expansion housing	237 x 438 x 263 mm	
Power Supply Weight (without batteries)		
Central unit:	14 kg	
Expansion housing Power supply:	7.5 kg	
IP rating	IP30	
Colour		
Housing:	RAL 7016	RAL 3001 for red version
Door Colour:	RAL 7040	
Control finisher:	Pantone Grey 431C	
Ambient Conditions		
Operating temperature:	–5°C to + 40°C	
Storage temperature:	–20°C to +70°C	
Relative humidity (non-condensing):	95% relative humidity, continuous	
EMC/RFI:	EN 50130-4, EN 61000-6-3	
Electrical Data		
Supply voltage:	230 V AC, 50/60 Hz	
Input current:	max. 3.2 A	

Options:

Please see next page

Options–Pro16xD 4-16 Loop PROFILE Flexible Panel

Options:

557.202.842	PLX800	PROFILE plug-in extension card for 4 loops
557.202.848	PCH800	PROFILE interface for power supply and Battery charging (plug-in card)
557.202.844	PNI800	PROFILE plug-in card as a network interface
557.202.081	FOM800	Glass-fiber module for use with PNI800
557.202.857	PZ4x	PROFILE-40 LED alarm group display
557.202.858	PZ8x	PROFILE-80 LED alarm group display
557.202.863	PX-AN	Expansion housing PX-AN for ANN8x0 Battery
557.202.854	PBB801	Housing with 5-A power unit Expansion housing
557.202.853	PXB800	For add-on modules PROFILE Ethernet switch
557.202.860	PCS800	PROFILE Ethernet switch
557.202.859	POS800-S	PROFILE glass fiber switch, Single Mode
557.202.862	POS800-M	PROFILE glass fiber switch, Multi Mode
557.202.845	FBI800	Fire brigade interface board
557.202.006	OB800	8 I/O card
557.202.100	FB800	Fuse board 15 way

Pro32xD 4-32 Loop PROFILE Flexible Panel

The Pro32xD is expandable from 4 to 32 loops and can support 4000 addresses in total which makes it ideal for larger and more complex facilities. Ample loop power is available to meet the increasing demand for visual alarms in addition to traditional audible alarms.
In order to optimise loop capacity, PROFILE Flexible offers a system design solution. 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 optimisation can significantly reduce total installed system cost.
ZETTLER PROFILE's robust loop protocol can operate in the harshest of environments. Essential for system upgrades, existing cables can be reused, significantly reducing the cost of replacing a system.
Optional zonal displays and additional approved back-up power supplies are easily added to accommodate the widest range of customer, regulatory and engineering needs.

557.200.848	Pro32xD	4-32 Loop PROFILE Flexible Panel
557.200.848.R	Pro32xD	4-32 Loop PROFILE Flexible Panel RED

Features

- 8.4" TFT colour touch screen multilingual user interface
- Ergonomic icon display
- Touch sensitive status LED's provide event summary information
- Context sensitive help and on screen operator instructions
- User configurable on screen site maps
- Programmable graphic quiescent display
- Comprehensive point management and disable functions
- Selectively view or print from the extensive 10,000 event log using dynamic filters
- Keyless log-on using RFID tags– identifies and logs user actions
- Black-Box versions with a minimum display provide economical network solutions
- Optional, programmable 40 or 80 way zonal LED display
- Selective loop configurations and loop power options
- Easy-mount frame permits one person installation
- Slot card arrangement for expansion for easier installation and service
- Also available in a red housing (RAL 3001)

Technical data:

General		
Number of loops:	4 SP, 2 HP- can be extended up to 16 HP, 32 SP	
Addresses per loop:	Up to 250	
Total number of addresses:	4,000	
Number of zonal LEDs (optional)		
Pro32xD:	40 or 80	
Number of expansion slots:	4	
Mechanical Data		
Dimensions (H x W x D)		
Central unit:	480 x 438 x 263 mm	
Expansion housing	237 x 438 x 263 mm	
Power Supply Weight (without batteries)		
Central unit:	14 kg	
Expansion housing Power supply:	7.5 kg	
IP rating	IP30	
Colour		
Housing:	RAL 7016	RAL 3001 for red version
Door Colour:	RAL 7040	
Control finisher:	Pantone Grey 431C	
Ambient Conditions		
Operating temperature:	–5°C to + 40°C	
Storage temperature:	–20°C to +70°C	
Relative humidity (non-condensing):	95% relative humidity, continuous	
EMC/RFI:	EN 50130-4, EN 61000-6-3	
Electrical Data		
Supply voltage:	230 V AC, 50/60 Hz	
Input current:	max. 6.4	

Options:

Please see next page

Options–Pro32xD 4-32 Loop PROFILE Flexible Panel

Options:

557.200.849	PxD	PxD Extension Box For Pro32xD
557.200.849.R	PxD	PxD Extension Box For Pro32xD RED
557.202.842	PLX800	PROFILE plug-in extension card for 4 loops
557.202.848	PCH800	PROFILE interface for power supply and Battery charging (plug-in card)
557.202.844	PNI800	PROFILE plug-in card as a network interface
557.202.081	FOM800	Glass-fiber module for use with PNI800
557.202.857	PZ4x	PROFILE-40 LED alarm group display
557.202.858	PZ8x	PROFILE-80 LED alarm group display
557.202.863	PX-AN	Expansion housing PX-AN for ANN8x0
557.202.854	PBB801	Battery housing with 5-A power unit PROFILE
557.202.853	PXB800	Expansion housing for add-on modules
557.202.860	PCS800	PROFILE Ethernet switch
557.202.859	POS800-S	PROFILE glass fiber switch, Single Mode
557.202.862	POS800-M	PROFILE glass fiber switch, Multi Mode
557.202.845	FBI800	Fire brigade interface board
557.202.006	IOB800	8 I/O card
557.202.100	FB800	Fuse board 15 way

Expansion Housing PxD for Pro32xD

The PxD housing extends the capacity of the Pro32xD to a substantial extent. The scope of delivery of the PxD includes the back board PSC800 for up to six plug-in cards.
By installing a second PSC800 an optional extra twelve slots are available.
With the PROFILE expansion cards, a maximum of 32 loops and 4,000 addresses can be configured in the Pro32xD/ PxD combination. Large, complex installations also benefit from further slots for charging batteries. In total, up to four PBB801 power supply units are supported.
There is space in the door of the PxD for two alarm zonal displays. PxD is also available in a red housing (RAL 3001)

557.200.849	Expansion housing PxD for Pro32xD
557.200.849.R	PxD Extension Box For Pro32xD RED

Options:

557.202.842	PLX800	PROFILE plug-in extension card for 4 loops
557.202.848	PCH800	PROFILE interface for power supply and Battery charging (plug-in card)
557.202.850	PSC800	PROFILE back board with 6 slots
557.202.853	PXB800	PROFILE expansion housing for add-on modules
557.202.854	PBB801	PROFILE battery housing with 5-A power unit
557.202.857	PZ4x	PROFILE-40 LED alarm group display
557.202.858	PZ8x	PROFILE-80 LED alarm group display
557.202.863	PX-AN	Expansion housing PX-AN for ANN8x0
557.202.006	IOB800	8 I/O card

Language Inserts

557.202.880	PROFILE language inserts Polish (pack of ten)
557.202.881	PROFILE language inserts Czech (pack of ten)
557.202.882	PROFILE language inserts Italian (pack of ten)
557.202.883	PROFILE language inserts Spanish (pack of ten)
557.202.885	PROFILE language inserts Swedish (pack of ten)
557.202.886	PROFILE language inserts Danish (pack of ten)
557.202.887	PROFILE language inserts French (pack of ten)
557.202.889	PROFILE language inserts Turkish (pack of ten)
557.202.891	PROFILE Language inserts Finnish (pack of ten)
557.202.893	PROFILE Language inserts Norwegian (pack of ten)
557.202.894	PROFILE Language inserts Slovakian (pack of ten)
557.202.895	PROFILE Language inserts Dutch (pack of ten)
557.202.896	PROFILE Language inserts Portuguese (pack of ten)
557.202.897	PROFILE Language inserts Hungarian (pack of ten)
557.202.898	PROFILE Inserts with Icons (pack of four)

PROFILE Flexible Black Box Panels

'Blackbox' version with minimal display – for exceptionally cost-effective network solutions.

557.200.850	Pro16xBB	4-16 Loop PROFILE Flexible Black Box Panel
557.200.851	ro32xBB	4-32 Loop PROFILE Flexible Black Box Panel

Technical data:

General	
Number of loops Pro16xxBB:	4 – 16 SP, 2-8 HP
Number of loops Pro32xxBB:	4 – 32 SP, 2-16 HP with PxD
Addresses per loop:	250
Configurable addresses:	
Pro16xBB:	2,000
Pro32xBB:	4,000
Number of alarm zone LEDs (optional)	
Pro16xBB:	40 or 80, up to 240 with additional housing
Pro32xBB:	40 or 80
PxD:	2 x 40 or 2 x 80
Number of expansion slots:	
Pro16xBB:	4
Pro32xBB:	6
PxD:	6; 6 further optional
Dimensions (H x W x D)	
Central unit:	480 x 438 x 263 mm
Expansion housing Power supply:	237 x 438 x 263 mm
Weight (without batteries)	
Central unit:	14 kg
Expansion housing Power supply:	7.5 kg
IP rating	IP30
Colour	
Housing:	RAL 7016
Door Colour:	RAL 7040
Control finisher:	Pantone Grey 431C
Ambient Conditions	
Operating temperature:	–5°C to + 40°C
Storage temperature:	–20°C to +70°C
Relative humidity (non-condensing):	95% relative humidity, continuous
EMC/RFI:	EN 50130-4, EN 61000-6-3
Electrical Data	
Supply voltage:	230 V AC, 50/60 Hz
Input current:	max. 3.2 A

Options:

Please see next page

PROFILE Flexible Black Box Panels

Options:

557.202.842	PLX800	PROFILE expansion plug-in card for 4 ring lines
557.202.848	PCH800	PROFILE interface for power supply and battery charging (plug-in card)
557.200.849	PxD	Expansion module for Pro32xD
557.202.844	PNI800	PROFILE plug-in card as a network interface
557.202.081	FOM800	Glass-fiber module for use with PNI800
557.202.857	PZ4x	PROFILE-40 LED alarm group display
557.202.858	PZ8x	PROFILE-80 LED alarm group display
557.202.863	PX-AN	Expansion housing PX-AN for ANN8x0
557.202.854	PBB801	PROFILE battery housing with 5-A power unit
557.202.853	PXB800	PROFILE expansion housing for add-on modules
557.202.860	PCS800	PROFILE Ethernet switch
557.202.859	POS800-S	PROFILE glass fiber switch, Single Mode
557.202.862	POS800-M	PROFILE glass fiber switch, Multi Mode
557.202.006	IOB800	8 I/O card
557.202.100	FB800	Fuse board 15 way

PROFILE PSU PBB801–5A in PXB800 Housing

The PBB801 contains a robust 5.0A dedicated power supply unit and has space for 38AH batteries. It can be mounted on Pro16xD and Pro32xD for additional power.
One PBB801 can be mounted to on a Pro16xD panel to increase the current up to 10 A, while up to three PBB801 can be connected to a Pro32xD system to increase the current to up to 20 A.
The PBB801 must be operated together with the PCH800 monitoring card.

557.202.854	PROFILE PSU PBB801–5A in PXB800 Housing PROFILE PSU PBB801 5A in PXB800 Housing

Technical data:

Mechanical Data	
Dimensions (H x W x D):	438 x 237 x 263 mm
Weight:	8.96 kg
Weight:	Steel plate
Electrical Data	
Input voltage:	110 to 230 V AC
Output voltage:	24 V DC / 5 A
Housing size:	for 2 batteries up to 38 Ah

PROFILE PXB800 Expansion Housing

This is essentially a PBB801 without the PSU. This unit can be used:
– For housing third party modules: CCU3, BACNET, MOXA, RS800 for example.
– For housing additional modules: CIM800, QIO800 for example.
– For terminating the cables running into Pro16xD or Pro32xD Panel – there is a slotted bar that takes zip ties. This housing also accommodates a front-door mounted module such as a PZ4x or PZ8x zone display module.

557.202.853	PXB800	PROFILE PXB800 Expansion Housing

Technical data:

Mechanical Data	
Dimensions (H x W x D):	438 x 237 x 262mm
Weight:	7.5 kg
Material:	Steel plate

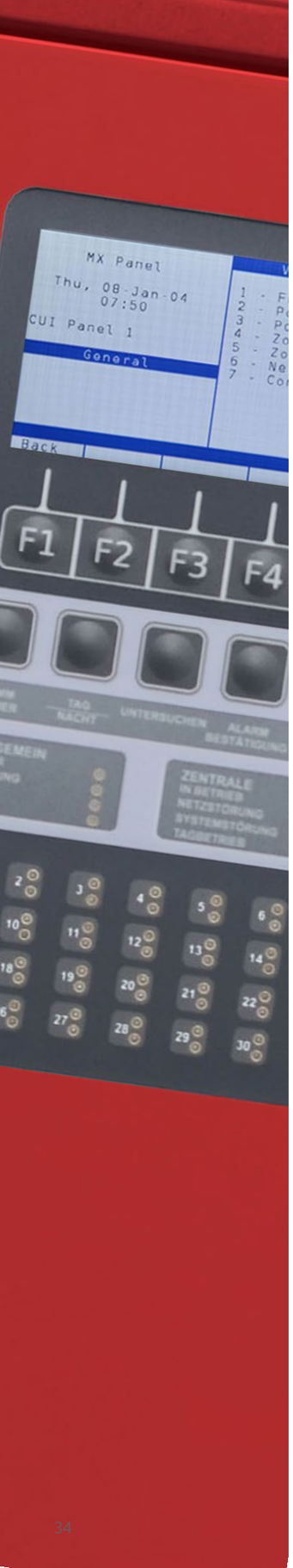
PROFILE Aperture Housing for ANN8xx Zonal Display

This is a variant of the PXB800 that can also host ANN annunciator units (ANN820, ANN840, ANN880). The ANN units are mounted to the front door. The product comprises the complete housing and door assembly, but the ANN unit must be obtained separately.

557.202.863	PX-AN	PROFILE Aperture Housing for PZ4x or PZ8x Zonal Display

Technical data:

Mechanical Data	
Dimensions (H x W x D):	438 x 237 x 262mm
Weight:	7.44 kg
Material:	Steel plate



PROFILE Lite Addressable Fire Control Panels

PROFILE Lite 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.

PROFILE Lite uses the same hardware and software platform already well-known from the PROFILE Flexible panel range. It also brings a new Colour User Interface (CUI) making it the perfect choice for small to mid-size systems up to 500 devices, while keeping cost efficiency in mind.

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 new concept of high-power loops makes it really easy to migrate from legacy MZX range to new PROFILE Lite platform. The system combines ease of use with high performance, and through innovation brings lifetime cost benefits to end users.

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

PROFILE Pro215S Lite

The Pro215S Lite is a compact two-loop Profile Lite networkable panel with a shallow housing. It can have two standard power loops or one high power loop with each panel having a maximum of 250 addresses. The panel features a colour LCD display with 32 zonal LEDs, and has a maximum capacity of 17Ah batteries.
Pro215S Lite is also available in a red shallow housing.

557.202.910	Pro215S Lite	1-2 Loop PROFILE Lite Panel Shallow
557.202.910.R	Pro215S Lite Red	1-2 Loop PROFILE Lite Panel Shallow Red

Features

- Colour LCD display with 32 zonal LEDs
- Simple to operate user interface
- Flexible loop configurations with up to 1A current to increase use of loop power and address capacity
- Comprehensive point management
- 10000 event log
- Editable quiescent display text
- Extensive special cause and effect programming
- Manual and automatic walk test
- Automatic battery test
- Detector service functions
- Front panel controls enabling text and configuration changes
- Networkable
- Up to seven fully functional repeaters
- Optional easy-mount plate
- Optional expansion kit for mounting additional cards

Technical data:

	Pro215S Lite	Pro215S Lite Red
General		
Number of loops:	1 HP or 2 SP	
Addresses per loop:	Up to 250	
Total number of addresses:	250	
Number of zonal LEDs:	32	
Number of zones supported	240	
Mechanical Data		
Dimensions (H x W x D):	480 x 410 x 140 mm	
Weight:	8.5 kg	
IP rating	IP30	
Colour		
Housing:	RAL 7016	RAL 3001 for red version
Door Colour:	RAL 7040	
Ambient Conditions		
Operating temperature:	−5°C to + 40°C	
Storage temperature:	−20°C to +70°C	
Relative humidity (non-condensing):	95% relative humidity, continuous	
EMC/RFI:	EN 50130-4, EN 61000-6-3	
Electrical Data		
Supply voltage:	230 V AC, 50/60 Hz	
Input current:	0.9 A	
Battery capacity	17 Ah	

Options:

Please see next page

PROFILE Pro215S Lite (Continued)

Options:

557.202.807	P-EXP	Panel Expansion Kit
557.202.919	CUI	Panel Colour User Interface Board
557.202.920	PFI801	Panel Field Interface Board (1-2 Loop)
557.202.921	-	Mounting frame for panels
557.202.924	-	Blank CUI inserts - 2x A4 sheet (6 pcs each)
557.202.100	FB800	15WAY fuse board
557.202.813	P-ANC-S	Shallow Ancillary Housing
557.202.814	P-ANC-D	Deep Ancillary Housing
557.200.844	P-ANC-E	Empty Ancillary Housing
557.202.844	PNI800	PROFILE plug-in card as a network interface
557.202.081	FOM800	Glass-fiber module for use with PNI800
557.202.845	FBI800	Fire brigade interface board
508.031.753	BAW75T24	Switching power supply / battery charger - Max. 2,7A @ 27,6VDC
557.200.752	-	Semi Flush Fire Alarm Panel Bezel Stainless Steel 480x410mm
557.202.821	-	Semi Flush Fire Alarm Panel Steel Bezel Painted 480x410mm
PS-12170	-	12V 17 Ah SLA battery

PROFILE Pro415S Lite and Pro415D

The Pro415S Lite is a four loop Profile Lite networkable panel with a shallow housing. This panel can have four standard power loops or two high power loops with each panel having a maximum of 500 addresses. It features a colour LCD display with 32 zonal LEDs, and has a maximum capacity of 17 Ah batteries. Pro415S Lite is also available in a red shallow housing

The Pro415D Lite offers a deep housing for up to 38 Ah batteries.

Features

- Colour LCD display with 32 zonal LEDs
- Simple to operate user interface
- Flexible loop configurations with up to 1A current to increase use of loop power and address capacity
- Comprehensive point management
- 10000 event log
- Editable quiescent display text
- Extensive special cause and effect programming
- Manual and automatic walk test
- Automatic battery test
- Detector service functions
- Front panel controls enabling text and configuration changes
- Networkable
- Up to seven fully functional repeaters
- Optional easy-mount plate
- Optional expansion kit for mounting additional cards

557.202.911	Pro415S Lite	2-4 Loop PROFILE Lite Panel Shallow
557.202.911.R	Pro415S Lite Red	2-4 Loop PROFILE Lite Panel Shallow Red
557.202.916	Pro415D Lite	2-4 Loop PROFILE Lite Panel Deep

Technical data:

	Pro415S Lite	Pro415S Lite Red	Pro415D Lite
General			
Number of loops:	2 HP or 4 SP		
Addresses per loop:	Up to 250		
Total number of addresses:	500		
Number of zonal LEDs:	32		
Number of zones supported	240		
Mechanical Data			
Dimensions (H x W x D)	480 x 410 x 140 mm		480 x 410 x 205 mm
Weight:	8.5 kg		9.7 kg
IP rating	IP30		
Colour			
Housing:	RAL 7016	RAL 3001 for red version	RAL 7016
Door Colour:	RAL 7040		RAL 7040
Ambient Conditions			
Operating temperature:	−5°C to + 40°C		
Storage temperature:	−20°C to +70°C		
Relative humidity (non-condensing):	95% relative humidity, continuous		
EMC/RFI:	EN 50130-4, EN 61000-6-3		
Electrical Data			
Supply voltage:	230 V AC, 50/60 Hz		
Input current:	1.6A		
Battery capacity	17 Ah		38 Ah

Options:

Please see next page

PROFILE Pro415S Lite and Pro415D (Continued)

Options:

557.202.807	P-EXP	Panel Expansion Kit
557.202.919	CUI	Spare CUI Panel Colour User Interface Board
557.202.921	-	Mounting frame for panels
557.202.924	-	Blank CUI inserts - 2x A4 sheet (6 pcs each)
557.202.100	FB800	15WAY fuse board
557.202.813	P-ANC-S	Shallow Ancillary Housing
557.202.814	P-ANC-D	Deep Ancillary Housing
557.200.844	P-ANC-E	Empty Ancillary Housing
557.202.841	PFI800	Panel Field Interface Board (2-4 Loop)
557.202.844	PNI800	PROFILE plug-in card as a network interface
557.202.081	FOM800	Glass-fiber module for use with PNI800
557.202.845	FBI800	Fire brigade interface board
508.031.753	BAW75T24	Switching power supply / battery charger - Max. 2,7A @ 27,6VDC
557.202.610	BAQ140T24	Switching power supply / battery charger - Max. 5,5A @ 27,6VDC
557.200.752	-	Semi Flush Fire Alarm Panel Bezel Stainless Steel 480x410mm
557.202.821	-	Semi Flush Fire Alarm Panel Steel Bezel Painted 480x410mm
PS-12170	-	12V 17 Ah SLA battery
PS-12380	-	12V 38 Ah SLA battery

PROFILE Lite P32AR LT AC Repeater

The PROFILE Lite range of repeaters include both AC and DC powered models, featuring a colour LCD display with 32 LED zonal display.

557.202.914	P32AR LT	32 zone PROFILE Lite AC Repeater

Features

- Colour LCD display with 32 zonal LEDs
- Simple to operate user interface
- Editable quiescent display text
- Front panel controls enabling text and configuration changes
- Up to seven fully functional repeaters
- Optional easy-mount plate

Technical data:

	P32AR LT
General	
Number of loops:	32
Mechanical Data	
Dimensions (H x W x D)	480 x 410 x 140 mm
Weight:	8.5 kg
IP rating	IP30
Colour	
Housing:	RAL 7016
Door Colour:	RAL 7040
Ambient Conditions	
Operating temperature:	-5°C to + 40°C
Storage temperature:	-20°C to +70°C
Relative humidity (non-condensing):	95% relative humidity, continuous
EMC/RFI:	EN 50130-4, EN 61000-6-3
Electrical Data	
Supply voltage:	230 V AC, 50/60 Hz
Input current:	0.9 A
Battery capacity:	17 Ah

Options:

557.202.918	CUI-R	Spare CUI-R Repeater Display PCBA
557.202.921	-	Mounting frame for panels
557.202.924	-	Blank CUI inserts - 2x A4 sheet (6 pcs each)
508.031.753	BAW75T24	Switching power supply / battery charger - Max. 2,7A @ 27,6VDC
557.200.752	-	Semi Flush Fire Alarm Panel Bezel Stainless Steel 480x410mm
557.202.821	-	Semi Flush Fire Alarm Panel Steel Bezel Painted 480x410mm
PS-12170	-	12V 17 Ah SLA battery

PROFILE Lite P32DR LT DC Repeater

The PROFILE Lite range of repeaters include both AC and DC powered models, featuring a colour LCD display with 32 LED zonal display.

557.202.915	P32DR LT	32 zone PROFILE Lite DC Repeater

Features

- Colour LCD display with 32 zonal LEDs
- Simple to operate user interface
- Editable quiescent display text
- Front panel controls enabling text and configuration changes
- Up to seven fully functional repeaters

Technical data:

	P32DR LT
General	
Number of loops:	32
Mechanical Data	
Dimensions (H x W x D)	370 x 254 x 80 mm
Weight:	4 kg
IP rating	IP30
Colour	
Housing:	RAL 7016
Door Colour:	RAL 7040
Ambient Conditions	
Operating temperature:	−5°C to + 40°C
Storage temperature:	−20°C to +70°C
Relative humidity (non-condensing):	95% relative humidity, continuous
EMC/RFI:	EN 50130-4, EN 61000-6-3
Electrical Data	
Supply voltage:	24 V DC
Input current:	350 mA

Options:

557.202.918	CUI-R	Spare CUI-R Repeater Display PCBA
557.202.924	-	Blank CUI inserts - 2x A4 sheet (6 pcs each)

PROFILE PNI800 network card

Plug-in card for bidirectional connection to the fire detection and alarm panels of the PROFILE Flexible range to the MZXnet network.
All events from the fire detection panel can be transmitted to a higher-level central unit or to a command station.
Also, other fire detection and alarm panels can be controlled via the network. Short circuits on the network are detected and isolated automatically.
The card also has an emergency operating mode in accordance with EN54-2, so that if a single fault occurs on the network continued operation is still assured. The connection to the network can be a ring line or a spur line, but spur lines do not have line redundancy.
The different operating modes of the network card can be read out directly on location. The network card is installed in a vacant slot in the central unit. The card, with the help of fiber-optic transceivers, can be converted to transmit via fiber-optic cable.

557.202.844	PNI800	PROFILE PNI800 Network Card

Technical data:

General	
Total power intake:	150 mA
1. Serial Interface (Galv. separated):	
Number:	1
Parameters:	RS 232
Baud rate:	programmable
2. Serial Interface (Galv. Separated):	
Number:	2
Parameters:	RS 485
Baud rate:	up to 115 kBit/s
Mechanical data	
Dimensions (W x H x D):	30 x 245 x 102 mm
Weight:	510 g
Ambient conditions	
Operating temperature:	-5°C to +40°C
Storage temperature:	-20°C to +70°C
Non-condensing ambient humidity:	95% relative humidity

Panel Field Interface Board

557.202.841	PFI800	Panel Field Interface Board (2-4 Loop)

The PFI provides the main control function of the PROFILE Flexible and PROFILE Lite fire detection panel. Detectors/alarm outputs, communication (RS232, RS485, Ethernet), inputs and outputs, power management, battery testing and charging. PFI800 provides 4 Shared Power or 2 High Power Loops, where PFI801 provides 2 Shared Power or 1 High Power Loops. All PROFILE panels use PFI800 and only Pro215S Lite uses PFI801 board.

PROFILE PCH800 Monitoring Card

The PCH800 monitoring card in the PROFILE Flexible monitors 95% relative humidity auxiliary power supplies, emergency batteries current and short circuits. It also supplies the temperature-dependent controlled charging voltage for the emergency power supply and transmits power to the PFI motherboard.
The battery statuses such as short circuit, mains voltage fault, charging voltage or battery impedance are transmitted to the central unit via the PFI.

557.202.848	PCH800	PROFILE PCH800 Monitoring Card

Technical data:

Electrical Data	
Output voltages:	24 V DC
Mechanical Data	
Dimensions (W x H x D):	30 x 245 x 102 mm
Weight:	500 g
Ambient Conditions	
Operating temperature:	-5°C to +40°C
Storage temperature:	-20°C to +70°C
Non-condensing ambient humidity:	95% relative humidity

PLX800 PROFILE Flexible Loop Expansion Slot Card

The new modular design with plug-in cards makes expansion easier than ever before. It is inserted in a free slot in the panel. On the board there are 8 inputs for 4 shared power (SP) loops or 8 spur lines. Each two shared power loops can be connected up to form one high power (HP) loop with a rating of 1 Ampere and with 250 addresses.
The permitted lenght of two SP loops or one HP loop is 2,000 m (depending on cable type).

557.202.842	PLX800	PROFILE Flexible Loop Expansion Slot Card

Technical data:

General	
Number of loops:	2 high power (HP) o 4 shared power (SP)
Addresses per loop:	2 x 250
Max. line length (depending on cable type)	2,000m
Max. line resistance	140 Ω per HP loop and/or per 2 SP loops
Max. line capacity	400 nF per HP and/or per 2 SP loops
Mechanical Data	
Dimensions (H x W x D):	30 x 245 x 102 mm
Weight:	500 g
Ambient Conditions	
Operating temperature:	-5°C to +40°C
Storage temperature:	-20°C to +70°C
Non-condensing ambient humidity:	95% relative humidity

PROFILE Glass Fiber Ethernet Switch POS800-S – Single Mode

The POS800 is a switch that provides 4 ethernet ports and 2 fiber-optic ports (SFP for connection of single-mode fibers) to connect up additional PROFILE repeaters. This enables users to connect repeaters in loop configuration using fiber-optics.
Power is supplied from the panel, even in case of mains fault.

557.202.859	POS800-S	PROFILE Glass Fiber Ethernet Switch POS800-S – Single Mode

Technical data:

Mechanical Data	
Dimensions (H x W x D):	30 x 245 x 102 mm
Weight:	500 g
Electrical Data	
Input voltage:	12 to 48 V DC
Power:	7 W
Ports:	4x10/100Base-T(X) 2x100Base-FX
Ambient Conditions	
Operating temperature:	-40°C to +70°C
Storage temperature:	-40°C to +85°C
Non-condensing ambient humidity (max.):	95% relative humidity
IP rating:	IP 30

PROFILE Glass Fiber Ethernet Switch POS800-M – Multi Mode

The POS800 is a switch that provides 4 Ethernet ports and 2 fiber-optic ports (SFP for connection of single-mode fibers) to connect up additional PROFILE repeaters. This enables users to connect repeaters in loop configuration using fiber-optics.
Power is supplied from the panel, even in case of mains fault.

557.202.862	POS800-M	PROFILE Glass Fiber Ethernet Switch POS800-M – Multi Mode

Technical data:

Mechanical Data	
Dimensions (H x W x D):	26.1 x 144.3 x 95.0 mm
Weight:	395 g
Electrical Data	
Input voltage:	12 to 48 V DC
Power:	7 W
Ports:	4x10/100Base-T(X) 2x100Base-FX
Ambient Conditions	
Operating temperature:	-40°C to +70°C
Storage temperature:	-40°C to +85°C
Non-condensing ambient humidity (max.):	95% relative humidity
IP rating:	IP 30

PROFILE Copper Ethernet Switch

The PCS800 is a switch with 5 Ethernet ports and provides ethernet interfacing capability. It can be used to interface with ethernet repeaters, particularly when the repeater is placed a long distance from a panel or when a cable runs through a harsh environment.
Power is supplied from the central unit, even in case of mains fault.

557.202.860	PCS800	PROFILE Copper Ethernet Switch PCS800

Technical data:

Mechanical Data	
Dimensions (H x W x D):	26.1 x 95.0 x 70.0 mm
Weight:	205 g
Electrical Data	
Input voltage:	12 to 48 V DC
Power intake:	3 W
Ports:	5 x 10/100Base-T(X)
Ambient Conditions	
Operating temperature:	-40°C to +70°C
Storage temperature:	-40°C to +85°C
Non-condensing ambient humidity (max.):	5 to 95 %
IP rating:	IP 30

Operating and Display Panels

PROFILE Remote Control PR8AS – 80 AC Alarm Groups

The PROFILE PR8AS repeater is designed to match the performance and style of the Pro885D 80 zone control panel however it can be used with any PROFILE Flexible detection panel.
It contains the user interface, an 80 zone LED display fand a 230 V power supply with the scope to charge batteries.
PROFILE panels and repeaters feature an advanced TFT colour touch-screen user interface that is ergonomically engineered specifically for fire alarm control. It is designed for operation with or without gloves and provides easy-to-use, intuitive and flexible user controls including keyless log-on using RFID tags, coded for different access levels.
Up to seven PROFILE touch screen repeaters can be connected to each PROFILE Flexible control panel. Each repeater gives full user control and functionality, interfacing with the control panel using an ethernet connection.
The PROFILE repeaters uses a direct network connection (local network, WiFi wireless or VPN) with a maximum distance between the panel and the network point or repeater and network point of 100 m.

557.200.560	PR8AS – 80	PROFILE Remote Control PR8AS – 80 AC Alarm Groups

Features

- 8.4" TFT colour touch screen multilingual user inteface architecturally attractive and fully programmable
- Ergonomic Icon Display
- Touch sensitive status LED's provide event summary information–Instant access to detailed event information
- Context sensitive help and on screen operator instructions–reduces the need for user training
- User configurable on screen site maps– No need for additional site plans
- Programmable graphic quiescent display–Opportunity for customer branding
- Comprehensive point management and disable functions
- Selectively view or print from the extensive 10,000 event log using dynamic filters–Effective event diagnostics to quickly resolve site investigations
- Keyless log-on using RFID tags– Identifies and logs user actions

Components

- Power supply 24 V/ 2.5 A
- Display and operating unit (with ZETTLER nomenclature strips)
- 80 zonal LED – PZ8DS

Technical data:

General	
Number of alarm group LEDs:	80
Mechanical Data	
Dimensions (H x W x D)	480 x 410 x 205 mm
Weight:	9.3 kg
IP rating:	IP30
Colour	
Housing Colour:	RAL 7053
Control finisher:	Pantone Grey 431C
Ambient Conditions	
Operating temperature:	-5°C to + 40 °C
Storage temperature:	–20°C to +70°C
Relative humidity (non-condensing):	90% RH, continuous
EMC/RFI:	EN 50130-4, EN 61000-6-3
Electrical Data	
Supply voltage:	230 V AC, 50/60 Hz
Input current:	0.9 A

Compact PROFILE Remote Control PR1DS

The PROFILE PR1DS compact repeater is designed for applications where full functionality is required in a compact, discrete and architecturally attractive package. PROFILE panels and repeaters feature an advanced TFT colour touch-screen user interface that is ergonomically engineered specifically for fire alarm control. It is designed for operation with or without gloves and provides easy-to-use, intuitive and flexible user controls including keyless log-on using RFID tags, coded for different access levels.
Up to seven PROFILE touch screen repeaters can be connected to each PROFILE control panel. Each repeater gives full user control and functionality, interfacing with the control panel using and ethernet connection for the PR1DS, or an RS485 connection for the PR1D2.
The PROFILE repeaters uses a direct network connection (local network, WiFi wireless or VPN) with a maximum distance between the panel and the network point or repeater and network point of 100 m.

557.200.801	PR1DS	PROFILE Compact Repeater 24VDC
557.200.802	PR1D2	PROFILE 2W DC Repeater

Features

- 8.4" TFT colour touch screen multilingual user inteface
- Ergonomic Icon Display–Simple to operate user interface eliminates operator errors
- Touch sensitive status LED's provide event summary information–Instant access to detailed event information
- Context sensitive help and on screen operator instructions–reduces the need for user training
- User configurable on screen site maps - No need for additional site plans
- Programmable graphic quiescent display– Opportunity for customer branding
- Comprehensive point management and disable functions
- Selectively view or print from the extensive 10,000 event log using dynamic filters– Effective event diagnostics to quickly resolve site investigations
- Keyless log-on using RFID tags– Identifies and logs user actions

Components

- Control panel
- Back for fitting to double installation socket / Reverse cable insert P-WSH
- Display and operating unit (with ZETTLER nomenclature strips)

Options:

557.202.802	P-WDH	PROFILE Display Wall Mount Deep Backbox

Technical data:

General	
Number of alarm group LEDs:	16 / additional 40 or 80 with PZ4DS PROFILE 40 alarm group display or 80 alarm group display, number of supported alarm groups: 240
Mechanical Data	
Dimensions (H x W x D)	195 x 248 x 33 mm
Weight:	0.8 kg
IP rating	IP30
Colour	
Housing Colour:	RAL 7016
Control finisher:	RAL 7016
Ambient Conditions	
Operating temperature:	-5°C to + 40 °C
Storage temperature:	–20°C to +70°C
Relative humidity (non-condensing):	90% RH, continuous
EMC/RFI:	EN 50130-4, EN 61000-6-3
Electrical Data	
Supply voltage (remote control):	24 VDC
input current (remote control):	0.2 A
Max. capacity of battery:	No battery

PROFILE 40-Alarm Group Display PZ4DS – With Flat Housing

The PZ4DS is a zonal LED display for PROFILE systems. For every zone an alarm or fault can be displayed by a red/yellow LED. The LEDs can be assigned to any of the zones of the panel. Up to 3 PZ4DS can be connected to a fire detection and alarm panel.

557.200.806	PZ4DS	PROFILE 40 Ways Zonal Display

Components

- Alarm group display
- Back for fitting to double installation socket / Reverse cable insert P-WSH

Options:

557.202.802	P-WDH	PROFILE Display wall mount deep backbox
557.200.844	P-ANC-E	Profile Ancillary Housing

Technical data:

General	
Number of alarm group LEDs:	40 yellow/red
Mechanical Data	
Dimensions (H x W x D):	195 x 248 x 33 mm
Weight:	0.8 kg
IP rating	IP30
Colour	
Control finisher:	RAL 7016
Ambient Conditions	
Operating temperature:	-5°C to + 40 °C
Storage temperature:	–20°C to +70°C
Relative humidity (non-condensing):	90% RH, continuous
EMC/RFI:	EN 50130-4, EN 61000-6-3
Electrical Data	
Supply voltage (remote control):	24 VDC
Input current (remote control):	0.2 A

PROFILE 80-Alarm Group Display PZ8DS

The PZ8DS is a zonal LED display for PROFILE systems. For every zone an alarm can be displayed by a red LED. The PZ8DS contains 80 LEDs that can be assigned to any of the zones of the panel. Up to 3 PZ8DS can be connected to a fire detection and alarm panel so that the status of all 240 software zones of the panel can be displayed.

557.200.811	PZ8DS	PROFILE 80 Ways Zonal Display

Components

- Alarm group display 80 LEDs
- Back for fitting to double installation socket / Reverse cable insert P-WSH

Options:

557.202.802	P-WDH	PROFILE Display Wall Mount Deep Backbox
557.200.844	P-ANC-E	Profile Ancillary Housing

Technical data:

General	
Number of alarm group LEDs:	80 red
Mechanical Data	
Dimensions (H x W x D):	195 x 248 x 33 mm
Weight:	0.8 kg
IP rating	IP30
Colour	
Control finisher:	RAL 7016
Ambient Conditions	
Operating temperature:	-5°C to + 40 °C
Storage temperature:	–20°C to +70°C
Relative humidity (non-condensing):	90% RH, continuous
EMC/RFI:	EN 50130-4, EN 61000-6-3
Electrical Data	
Supply voltage (remote control):	24 VDC
Input current (remote control):	0.2 A

PROFILE Flexible 40-Alarm Group Display PZ4x

Additional module for the front door of the PROFILE Flexible Pro16xD/Pro32xD fire detection and alarm panel, an additional housing or a repeater. It contains 40 programmable fault LEDs (yellow) and 40 alarm LEDs (red) to display alarms, zonal alarms or I/O statuses. The LEDs can be assigned to any point of system. Up to three PZ4x units can be connected to a control panel.

557.202.857	PZ4x	PROFILE Flexible 40 ways LED Display

Technical data:

General	
Number of alarm group LEDs:	40 yellow/red
IP rating	IP30
Ambient Conditions	
Operating temperature:	-5°C to + 40 °C
Storage temperature:	–20°C to +70°C
Relative humidity (non-condensing):	95 %, relative humidity continuous
EMC/RFI:	EN 50130-4, EN 61000-6-3
Electrical Data	
Supply voltage (remote control):	24 VDC
Input current (remote control):	0.2 A

PROFILE Flexible 80-Alarm Group Display PZ8x

Additional module for the front door of the PROFILE Flexible Pro16xD/Pro32xD fire detection and alarm panel, an additional housing or a repeater. It contains 80 programmable red LEDs for displaying alarms, zonal alarms or I/O statuses. The LEDs can be assigned to any point of system.
Up to three PZ8x can be connected to a control panel so that all 240 possible alarm groups on the central unit can be displayed.

557.202.858	PZ8x	PROFILE Flexible 40 ways LED Display

Technical data:

General	
Number of alarm group LEDs:	80 red
IP rating	IP30
Ambient Conditions	
Operating temperature:	-5°C to + 40 °C
Storage temperature:	–20°C to +70°C
Relative humidity (non-condensing):	95% relative humidity, continuous
EMC/RFI:	EN 50130-4, EN 61000-6-3
Electrical Data	
Supply voltage (remote control):	24 VDC
Input current (remote control):	0.2 A
Max. battery capacity:	No battery

Accessories for Control Panels

P-ANC-D Deep Ancillary Housing

Essentially the same housings used for PROFILE fire alarm control panels but without electronics, designed for mounting the various modules.

557.202.814	P-ANC-D	Deep Ancillary Housing

Technical data:

Mechanical Data	
Dimensions (H x W x D):	480 x 410 x 140 mm
IP rating	IP30
Colour	
Housing:	RAL 7016 fine texture, matt
Door Colour:	RAL 7016 fine texture, matt
Border of operating panel:	RAL 7016

P-ANC-E Profile Ancillary Housing

P-ANC-E PROFILE Ancillary Housing provides the flexibility needed to extend your system up to 240 zones.

557.200.844	P-ANC-E	Profile Ancillary Housing

Technical data:

Mechanical Data	
Dimensions (H x W x D):	480 x 410 x 140 mm
IP rating	IP30
Colour	
Housing:	RAL 7016 fine texture, matt
Door colour:	RAL 7040 fine texture
Border of operating panel:	matt RAL 7016

P-ANC-S Shallow Ancillary Housing

Essentially the same housings used for PROFILE fire alarm control panels but without electronics, designed for mounting the various modules.

557.202.813	P-ANC-S	Shallow Ancillary Housing

Technical data:

Mechanical Data	
Dimensions (H x W x D):	480 x 410 x 205 mm
IP rating	IP30
Colour	
Housing:	RAL 7016 fine texture, matt
Door Colour:	RAL 7016 fine texture, matt
Border of operating panel:	RAL 7016

IOB800 (8in/8out) Expansion Board

The IOB800 is an LPCB & Vds approved board that provides 8 opto-isolated digital inputs and 8 x 24V d.c. relay outputs for providing I/O expansion capabilities to ZETTLER detection panels for interfacing to other subsystems and signalling devices.

557.202.006	IOB800	(8in/8out) Expansion Board

Features:

- Motherboard PFI800 (2 cards, max. 8 inputs and 16 outputs)
- Component computer MPM800 (five cards, max. 40 inputs and 40 outputs) socket / Reverse cable insert P-WSH

Technical data:

Supply voltage	
In standby mode (max.):	3 V DC
In alarm mode: Min.	4 V DC/ Max. 30 V DC
Power intake	
In standby mode:	29 mA
In alarm mode:	208 mA
Voltage outputs	
Relay contacts (max.):	30 V DC/2 A
Number of inputs and outputs	8/8
Ambient temperature	
Operation:	-10°C to +70°C
Storage:	-20°C to +85°C
Dimensions:	
(W x H x D):	164 x 80 x 20

FB800 Fuse Board 15 Way

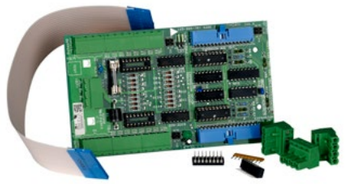
The FB800 fuse board provides terminations for 15 fused 24Vdc output spurs from a single 24V d.c. input. The FB800 is designed to be normally mounted as a slot card inside the PROFILE Flexible panels.

557.202.100	FB800	Fuse Board 15 Way

Technical data:

15 fused outputs:	24 V, 0.5 A
Voltage:	24 V
Fuses:	0.5 A, time-lag
Mechanical Data	
(W x H x D):	80 x 164 x 14 mm
Weight:	151 g

XIOM Input/Output Expansion Module (16 Way)



The XIOM is a 16 universal input/output expansion board. The I/O on the XIOM can be set in banks of 8 to operate as follows: The I/O on the XIOM can be set in banks of 8 to operate as follows:
- LED driver outputs (10 mA source)
- Relay Driver Outputs (100 mA sink)
- Voltage Monitor Input (8–30 Vd.c. Normal)
- Volt Free Contact Inputs

557.180.016	XIOM	Input/Output Expansion Module (16 Way)

Features
- 16 I/P's or 16 O/P's or 8 I/P + 8 O/P
- 5 per MPM800 (80 I/O points)
- Fully configurable in MX consys

Technical data:

Mechanical Data	
Dimensions (H x W x D):	144 x 85 x 15mm

MPM800 Multi-purpose Interface Module

The MPM800 multi-purpose interface module can be used to interface various ancillary boards to the PROFILE Flexible panel remote bus, for example the zonal LEDs display units or the I/O cards.
A maximum of up to 80 inputs or outputs can be connected to each unit via the external control bus. On the MPM800 board there is also a printer interface that enables a serial printer to be connected.
A maximum of 15 MPM800 modules can be connected. The total number of inputs and outputs connected to an MPM800 is restricted to 500.

557.202.012	MPM800	Multi-Purpose Interface Module

Technical data:

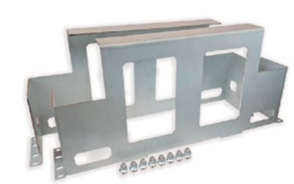
Power supply at 24 V DC level:	
Power intake	
In standby mode:	10 mA
In alarm status (25% of the LEDs light up):	42 mA
Dimensions (W x H x D):	120x 152 x 31 mm
Weight:	292 g
Power Supply:	24Vdc
Connection:	Serial or Parallel

Profile PFI to TUD DCDC Converter

557.202.866	Profile PFI to TUD DCDC Converter

Profile PFI to TUD DC-DC Converter.

PRO-RCK 19"



557.202.868	PRO-RCK 19" Rack Mount Kit

The PRO-RCK 19" installation kit makes it possible to install up to two PROFILE Pro16xD or Pro32xD control panels in a 19" rack

PRO-RCK Power & Data Cables

557.202.869	PRO-RCK	Cable

PRO-RCK Power and data cables for PRO-RCK 19".

P-RCK PROFILE Repeater 19 Inch Rack Mount Kit

557.202.804	P-RCK	PROFILE Repeater 19 Inch Rack Mount Kit

The P-RCK installation kit makes it possible to install up to two PROFILE compact repeaters and/or zonal LED display units in a P-RCK and mount them in a 19" rack.

Replacement Spare Bezel for PROFILE Displays

557.202.818	Replacement Spare Bezel for PROFILE Displays

Replacement spare bezel for PROFILE displays.

PROFILE Zonal Display Inserts

557.202.819	PROFILE Zonal Display Inserts.

P-KEY PROFILE Enable Key Kit

557.202.805	P-KEY	PROFILE Enable Key Kit

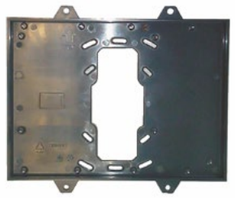
P-KEY PROFILE Enable Key Kit.

PROFILE RFID Cards, 5 units

557.202.820	RFID Cards 5 Units

PROFILE RFID cards 5 units.

P-WSH PROFILE Display Wall mount Shallow Backbox



557.202.801	P-WSH	PROFILE Display Wall Mount Shallow Backbox

P-WSH PROFILE Display Wall mount Shallow Backbox.

P-WDH PROFILE Display Wall Mount Deep Backbox

557.202.802	PROFILE Flush Mount Repeater Kit

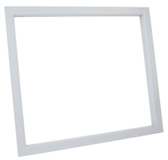
P-WDH PROFILE Display wall mount Deep Backbox.

PROFILE Flush Mount Repeater Kit

557.202.871	S/F PRO	Panel Bezel 480x410mm

PROFILE Flush Mount Repeater Kit.

Semi Flush Steel Bezel Painted Pro



557.202.821	Semi Flush Steel Bezel 480x410mm

Semi Flush Steel Bezel 480x410mm Painted for Pro2xx-8xx Panels.

4510S Isolated RS485 Repeater

557.202.870	4510S	Isolated RS485 Repeater

Circuit module RS-422/RS-485 repeater with isolation for use with PROFILE 2 wire repeaters.

Profile Repeater Distribution Switch

557.202.812	RDS800	PROFILE repeater distribution switch
557.202.901	IMC-V111ET-TB	Industrial VDSL extended media converter with 1x100Base-TX to 1xEthernet extender, Terminal block socket
557.202.902	IMC-111FB-MM-SC	Mini Type 1x 10/100TX (RJ-45) to 1x 100FX (MM SC) with Link Fault Passthrough Media Converter
557.202.903	IMC-111FB-SS-SC	Mini Type 1x 10/100TX (RJ-45) to 1x 100FX (SM SC) with Link Fault Passthrough Media Converter

Power Supply

Spare Mains Unit BAQ140T24 – for PROFILE Flexible

Spare power unit for all PROFILE Flexible central units and the auxiliary power supply PBB801.
This power unit cannot be used as an external power supply.

557.202.610	BAQ140T24	Spare Mains Unit BAQ140T24 – for PROFILE Flexible

Technical data:

Electrical Data	
Operating voltage:	110–250 V AC, 50/60Hz
System voltage:	24 V DC, 5 A

Addressable External Power Supplies, PROFILE P-PSU

The mains power units, P-PSU, deliver an uninterruptible power supply for devices in the fire alarm system in accordance with EN 54-4 with 24V DC and with current of up to 5 A.
The mains power units are equipped with voltage monitoring and charge control, and can be integrated in the PROFILE fire alarm system as addressable line elements.
The housings match the dimensions and colour of the PROFILE central unit housings.
Depending on size, they can provide installation space for different battery capacities.

557.200.530.P	557.200.530.P	17AH Addressable Expansion PSU
557.200.531.P	557.200.531.P	38AH Addressable Expansion PSU

Technical data:

Electrical Data	
Operating voltage:	110–250 V AC, 50/60Hz
System voltage:	24 V DC, 5 A
Mechanical Data	
Steel plate housing, painted	29 mA
Colour	
Body:	Black
Door colour:	Grey
IP rating:	IP 30
17AH Addressable Expansion PSU	
Battery capacity:	17 Ah
Dimensions:	
(W x H x D):	410 x 480 x 148 mm
38AH Addressable Expansion PSU	
Battery capacity:	38 Ah
Dimensions:	
(W x H x D):	410 x 480 x 213

Power Supply

ELM24TSM 4A 24vDC Addressable Door Holder PSU

The MZX compatible ELM24TSM 4 Amp 24VDC Addressable Door Control & Power Supply Unit, is designed to provide monitoring and activation in compliance with the most stringent local door control standards.
This Door Holder PSU is interfaced to the MZX Panels via an integral TSM800 Door Control Module which is field mounted inside the Door Holder PSU and connects to the MZX Detector Loop.

558.004.011	ELM24TSM	4A 24vDC Addressable Door Holder PSU

Technical data:

Mechanical Data	
Dimensions (H x W x D):	200 x 230 x 80 mm
Electrical Data	
Input Voltage:	230Vac 50Hz
Output Voltage:	22-30 Vdc
Output Current:	4 Amps Continuous
Ambient Conditions	
Temperature:	-10°C to + 40°C
Relative Humidity:	95% RH
IP Rating:	IP41 (excluding rear face)
Material:	1.2 mm white powder coated steel

Auxiliary Power Supply PBB801 – 5A in The Expansion

The PBB801 contains a robust 5.0A dedicated power supply unit and has space for 38AH batteries. It can be mounted on Pro16xD and Pro32xD for additional power.
One PBB801 can be mounted to a Pro16xD panel to increase the current up to 10 A, while up to three PBB801 can be connected to a Pro32xD system to increase the current to up to 20 A.
The PBB801 must be operated together with the PCH800 monitoring card.

557.202.854	PBB801 – 5	Auxiliary Power Supply PBB801 – 5 A in the Expansion

Technical data:

Mechanical Data	
Dimensions (H x W x D):	438 x 237 x 263 mm
Weight:	8.96 kg
Material:	Steel plate
Electrical Data	
Input voltage:	110 to 230 V AC
Output voltage:	24 V DC / 5 A
Housing size:	for 2 batteries up to 38 Ah

Printer and Ribbon

LQ 300+ Printer Ribbon Spare

Spare part for EPSON LQ-300+ and LQ350 dot matrix printers.

557.180.220	LQ 300+	Printer Ribbon Spare

Expansion Modules

External Printer EPSON LQ 350

Serial printer for external connection to the fire alarm system. Processing of single sheet or continuous-feed paper with loading points at front and back.

557.180.244	EPSON LQ350	Dot Matrix Printer

Technical data:

Operating voltage:	230 V AC
Power intake:	22 W
Operating temperature:	+5 to +35°C
Dimensions (W x H x D):	348 × 275 × 154 mm
Weight:	4.1 kg

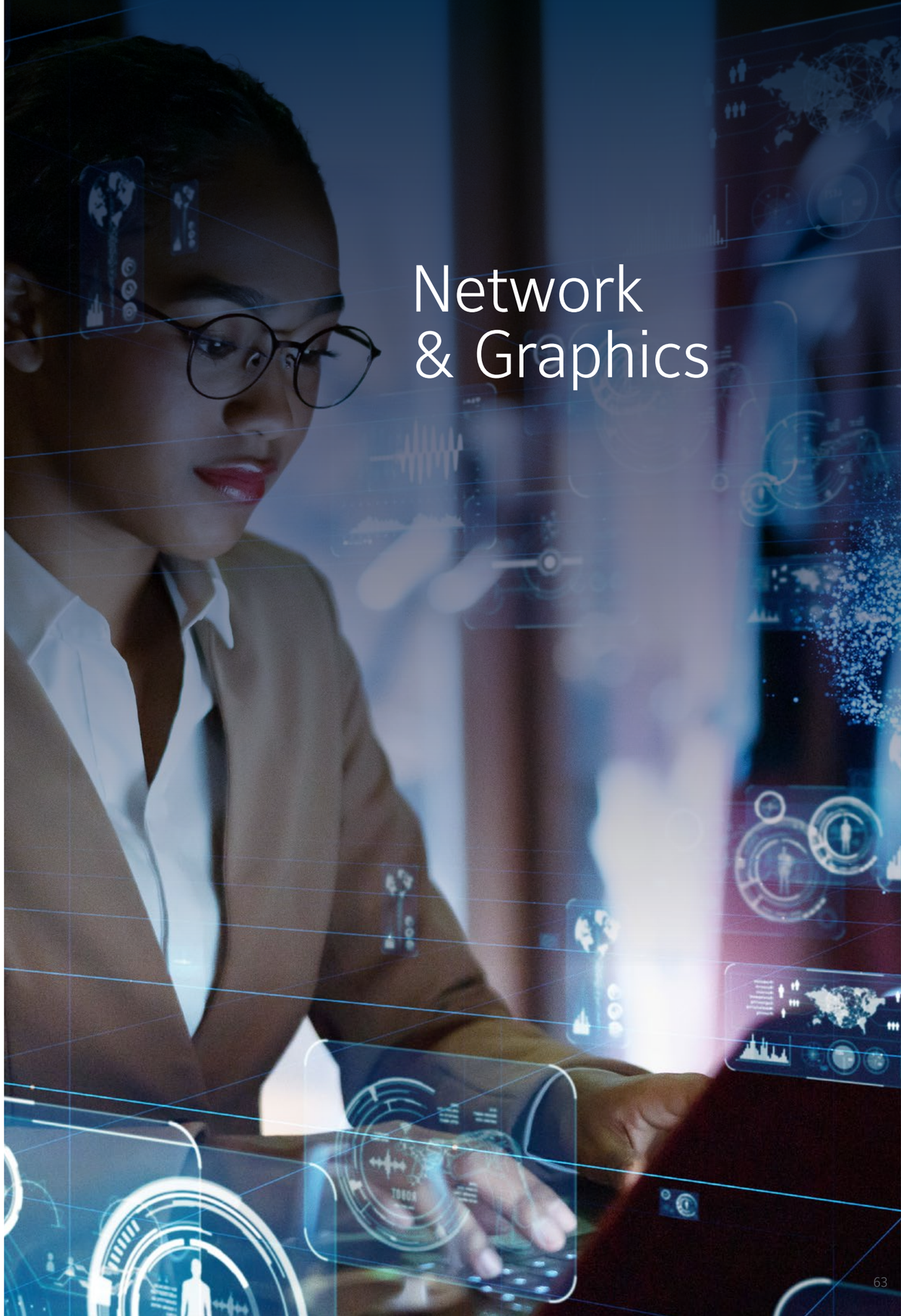
Features

- Compact 24-needle narrow printer
- 347 characters per second
- USB, parallel and serial interfaces
- Up to 347 characters per second (10 cpi)
- 8 integrated barcode typefaces
- Single sheet or continuous-feed paper
- Versatile paper routes with loading points at front and back
- Robust printer with an MTBF value of 10,000 hours

Accessories

- For connection to the central unit (COM 1) or to the component computer, an additional connecting cable and the printer connection kit is required.

557.202.117	Serial printer cable for MPM800



Network & Graphics

Network & Graphics

The ZETTLER 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 Tyco 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 client's own network if desired. TXG is 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.

Third Party Interfaces

When Fire alarm systems have to be interfaced to a third party's system such as BMS, there are no specials with MZX Technology. The MZX to BACnet interface provides high level communication between the fire alarm and building automation systems. The BACnet client will display both point and zone events together with various system statuses and analogue detector values. The system also supports commands thereby providing a seamless bidirectional interface.

A MODBUS interface also exists for the ZETTLER network allowing connection via a number of protocols to the third party system. Multiple units can be interconnected within a single system. The module has on-board relays which can be configured as inputs to the ZETTLER system plus a number of supervised inputs whose status can be read from the MODBUS map.

Tyco Expert Graphics

The IP Video feature allows real-time images of the area at risk to be displayed in the event of an alarm or fault. Video capture of the affected area appears on the screen automatically, allowing the severity of the situation to be assessed quickly and the appropriate executive action to be taken.
For less serious incidents, expensive and unnecessary plant shut downs can be avoided. In more critical situations, accurate information can be quickly and efficiently communicated to the response team. Icons representing the devices being monitored will change colour dependant on status (Alarm, normal, fault, isolate etc).
Selected areas can be highlighted using the chromatic analogue display feature, MZX HOTSPOT. As the analogue value of a monitored point changes the chromatic analogue display will change the highlight colour through a pre-defined range.
For example a heat detector assigned MZX HOTSPOT could transit the highlight from blue to red. The number of chromatic steps is dependent on the resolution of the graphics card used, 16, 24 or 32 bits.

Additional features and functions

- Response buttons with configurable icons or text provide control switches specific to any operation being performed
- Uses a combination of symbols, floor plans, pictures, text and video to communicate events
- Standard MZX and Minerva symbol libraries supplied
- Instructions given on emergency action to be taken
- Maps and instructions printed to assist response teams
- History logging recallable or printable by event, dates, device, or a host of other available filters
- An advanced filter allows history reports to be specifically limited to a particular range or date
- Commands to control outputs from the Graphical User Interface
- Events can be accepted individually or can be "auto-accept"
- Supports all standard PC image file types (i.e. GIF, JPG, BMP), AutoCAD® & Vector file types

508.040.100	TXG USB	Server Dongle/License/Software
508.040.001	TXG001	Single Client With 1 Panel (Requires TXG USB)
508.040.002	TXG004	Single Client With 2 to 4 Panels (Requires TXG USB and TXG001)
508.040.003	TXG010	Single Client With 5 to 10 Panels (Requires TXG USB, TXG001
508.040.004	TXG020	Single Client With 11 to 20 Panels (RequiresTXG USB, TXG001, TXG004 and TXG010)
508.040.005	TXG999	Single Client With 21 or Above Panels (Requires TXG USB, TXG001, TXG004 TXG010 and TXG020)
508.040.011	TXG-C	Additional Client License
508.040.021	TXG-MIN80	Minerva Driver License
508.040.023	TXG-ZETA	ZAD/FIL Drive License
508.040.024	TXG-ZETF	Zetf/FIL Drive License
508.040.025	TXG-OPC	OPC Alarm / Event & Data Access Server Licence
508.040.027	TXG-CPP	SIMPLEX CPP Driver

Notification by email

Events, whether they are real or false alarms are handled most efficiently when information can be quickly and accurately communicated. TXG allows users to set up email groups and notification texts linked to predetermined events. These are automatically transmitted ensuring that the appropriate resource is deployed.

Availability and order process

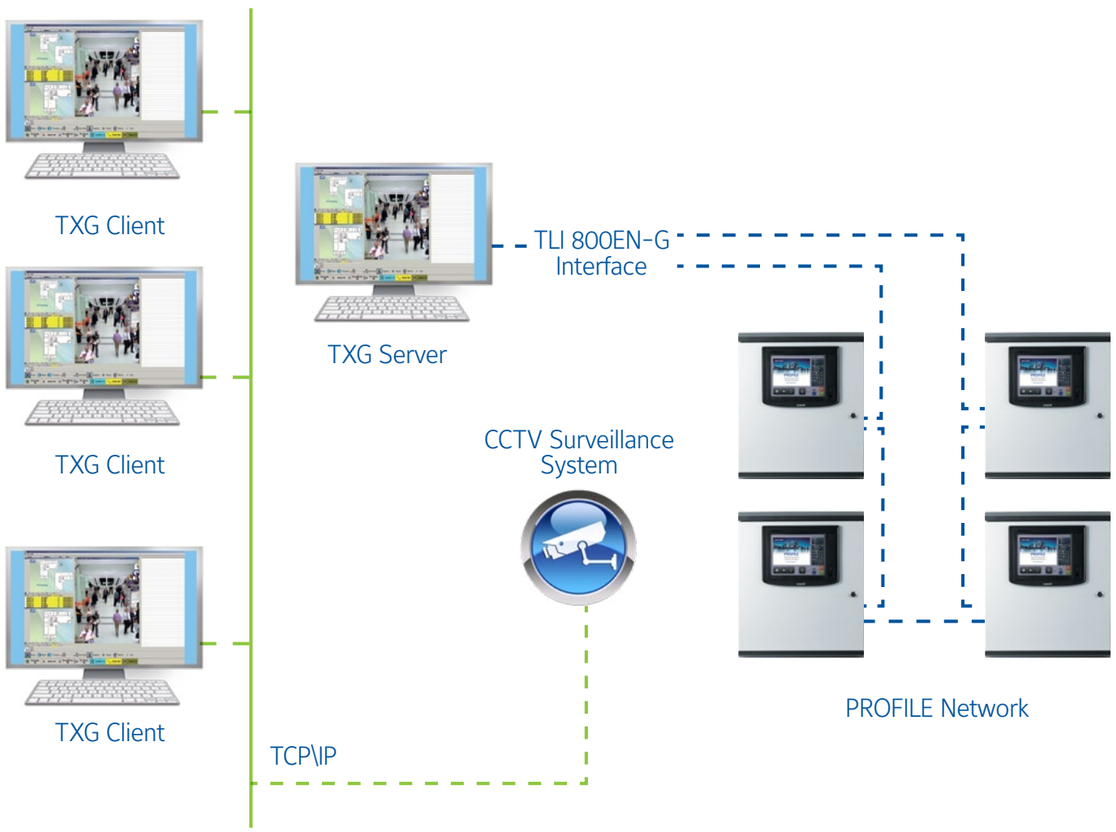
TXG can be downloaded from the tycoemea.com website and can be used with a time restriction for demonstration or training purposes. TXG can also be ordered from our distribution centres.
Customers can fax or e-Mail an order form which details the software options required, to customer service. Original order forms can be obtained from http:// www.ZettlerFire.com/. This form will allow customer service to prepare and allocate a license code that will activate the required features. Customers will also be required to place an order for each part number on the form.
A media pack containing CD with license number, dongle, multi language manuals on CD and original order form will be dispatched to the customer. On receipt, the software can be loaded and the license number entered to make the requested software features available.

TXG is Totally Scalable

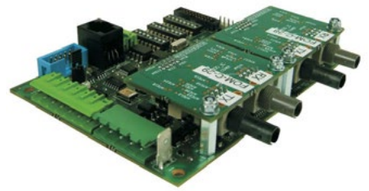
From a single fire alarm panel connected to a TXG server...
The modest additional cost of a single TXG client/server is easily justified when the benefits that a Graphical User Interface bring are considered.

TXG with direct connection to a single PROFILE panel

...to a complex installation with multiple diverse networks and distributed clients
Large multi-building facilities may have a number of fire detection networks, possibly installed over an extended period of time. TXG can be used as a hub to integrate these systems with a number clients providing annunciation and control where it is needed.



TLI800EN Network Interface Module and FOM800 Fibre Optic Module



Features

- Allows ZETTLER Fire Detection Panels to be "seamlessly" networked together
- Dual ARM 7 RISC processors
- Support for Emergency Mode Indication
- True peer-to-peer communications; no host or master controller required
- Highly resilient, node failure open and short circuit does not affect remaining network
- Approved to EN54-13 and EN54-2
- Up to 99 controllers may be used on the network
- Wide range of cable topography supported
- Network can use a variety of cable types with up to 2500m between nodes (cable dependent), 1200m using standard 1.5 mm MICC cable
- FOM800 Plug on fibre optic module provides up to 5000m between nodes using 62.5/125 multimode fibres
- Easy to install and programme
- Simple to operate

Inter-controller Network

The use of the ZETTLER Network allows the fragmentation of a number of fire controllers to be drawn into a network system. Because every installation is different, the ZETTLER Network has been designed to be highly flexible, allowing for a wide range of different system applications. With a large network system the amount of data and information passing
between fire controllers can become high during an emergency condition. The ZETTLER Network communication protocol has been specifically designed with this in mind and ensures that each event message passed around the network is acknowledged by the receiving controller in the fastest possible time.

Operation

The network is totally flexible and enables from 2 to 99 fire controllers to be seamlessly linked together.

System Overview

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 ZETTLER Digital addressable fire systems controllers.

Notification by email

Events, whether they are real or false alarms are handled most efficiently when information can be quickly and accurately communicated. TXG allows users to set up email groups and notification texts linked to predetermined events. These are automatically transmitted ensuring that the appropriate resource is deployed.

557.202.081	FOM800	Fibre Optic Module TLI800EN
557.200.039	TLI800EN	Network Interface in Housing c/w PSU PC to TLI800 EN Network Card
557.180.219	Connection Cable	

Master operating stations use the standard PROFILE Flexible, PROFILE or MZX Fire Controller hardware. In this application, the controller changes its personality; and enables additional information from each controller on the network to be displayed.

Cable Parameters

Technical data:		
Maximum wire to wire capacitance		Resistance
Baud rate	Capacitance	Maximum resistance = 40 Ohm for EN54-13 compliant installation. Maximum resistance = 65 Ohm for proper function without compliance.(all baud rates)
38400	0.3 uF	
19200	0.6 uF	
9600	1.2 uF	
2400	1.2 uF	
1200	1.2 uF	

Mode of Operation

The ZETTLER Network employs a token passing communications protocol that treats each node on the network equally. Loss of one or more nodes does not affect the operation of the remainder of the network.
Data is regenerated at each node in the network enabling maximum distance between nodes. In the event of a short/open circuit on the network between any two nodes, isolation will automatically occur and the network will re-configure communications and continue to allow communication between all nodes physically connected.
The ZETTLER Network offers a high level of system integrity, allowing safety critical actions to be passed across the network from one Fire Controller to another. This very high level of system integrity enables the ZETTLER Network to meet the requirements of EN54-13 and EN54-2.
In the event of loss of communication with the host controller, the TLI800EN will use its secondary processor to monitor the controllers fire outputs and if necessary can activate the controllers emergency fire input. In addition it can support a LED annunicator for network panel fire indication, this is wired to a MPM800 via the TLI800EN's integral RBus RS485 port.

Fibre Optics

Fibre optics can also be supported on the ZETTLER Network system by fitting one or two FOM800 modules to the TLI800EN network card, this uses either type 62.5/125 or 50/125 multi-mode fibres between nodes on the network. Use of fibre permits a maximum distance between nodes of up to 5000 metres in either bus or ring topology.

Technical Information
TLI800EN-G Housed Network Card with PSU

Mechanical	
Dimensions:	300 x 200 x 85 mm
Weight:	3.85 Kg
Electrical	
Supply voltage	220 to 250 VAC
Power Consumption	160 mA
Network Connections:	2 x RS 485
Network Diagnostic:	9 x on board LED's / RS232 port for system analysis and fault finding
Cable Type:	2 Core MICC, Shielded or Twist-ed pair
Connectors:	Screw terminals, will accept 2.5 mm^2 cable
Network Parameters	
Number of nodes:	99 (max)
Distance between nodes:	1000 to 5000 metres (dependent upon cable type)
Communications type:	RS485
Baud Rates:	9.6K to 115.2K
Transport Type:	Token passing, non-collision protocol
Network Parameters	
Operating Temp: Storage	-10°C to + 55°C
Temp:	-10°C to + 70°C

Technical Information
FOM800 Fibre Optic Network Interface

Mechanical	
Dimensions:	50 x 58 x 12 mm
Weight:	0.015 Kg
Housing:	The FOM800 is mounted directly onto the TLI800EN Network card
Electrical	
Supply voltage	Powered from TLI800EN
Network Connections:	2 x ST Fibre optic connections
Cable Type:	62.5/125 or 50/125 multimode fibre optic cablesTwisted pair
Connectors:	Screw terminals, will accept 2.5 mm^2 cable
Environmental	
Operating Temp:	-10°C to + 55°C
Storage Temp:	-10°C to + 70°C
Relative Humidity:	95% (100% intermittent)

BACnet Interface

BACnet is an industry standard communications protocol for building automation and control networks. It was designed to allow communication of building automation and control systems for applications such as heating, ventilating, and airconditioning control, lighting control, access control, and fire detection systems and their associated equipment.
The BACnet protocol provides mechanisms for computerised building automation devices to exchange information, regardless of the particular building service they perform.
The MZX BACnet interface provides BACnet/IP connectivity to MX / ZX / MZX / PROFILE / PROFILE Flexible / T2000 fire detection panels. The new BACnet interface (UC-8112-ME-T-LX), is built around an ARMv7 Cortex-A8 1000 MHz RISC processor with 512 MB SDRAM.
The BACnet interface can be connected to a stand-alone MZX Technology panel or for larger installations via an MZX Network connection. In either case a single BACnet converter is required.
The BACnet interface (UC-8112-ME-T-LX) converts "MX Speak protocol data" to BACnet communications protocol. Special firmware is required by the converter which is uploaded from a PC. For stand-alone panels a BACnet interface (UC-8112-ME-T-LX) takes serial data directly from the panel. For networked systems the BACnet interface (UC-8112-ME-T-LX) is connected to a dedicated TLI-800EN network card.

Features

- High level interface to building automation systems
- Meet interfacing requirements for large integrated projects

Displayed on BACnet Client side

- Zone alarms, point alarms from fire inputs
- Panel faults, faults from zones and points
- Mains fault, System faults
- Pre-alarms and alarm warnings
- Isolation of zones, loops & points
- Day/Night Mode status
- Analogue values of automatic detectors

Supported commands issued from the BACnet Client side

- Silence, Resound
- Sounders On and Off
- Evacuate
- Fire Reset
- Isolation of zones and points

557.202.082	UC-8112-ME-T	Embedded Controller Including one Moxa Console Cable (CBL-F9DPF1x4-BK-100) for Serial
557.202.083	RJ12 PVC Cable Male-Male, 3 metres.	For Serial Connection to TLI800EN or to FIM800 557.202.083

Technical data:

Mechanical Data	
Dimensions (W x H x D):	101 x 27 x 128 mm
Weight:	224 g
Electrical Data	
Input voltage:	12 to 24 VDC (3-pin terminal block, V+, V-, SG)
Input current:	450 mA @ 12 VDC, 225 mA @ 24 VDC
Power consumption:	5.4 W (without cellular module and external USB device attached)
Ambient Conditions	
Operating temperature:	-40°C to +75°C
Storage temperature:	-40°C to +80°C
Non-condensing ambient humidity (max.):	95 %

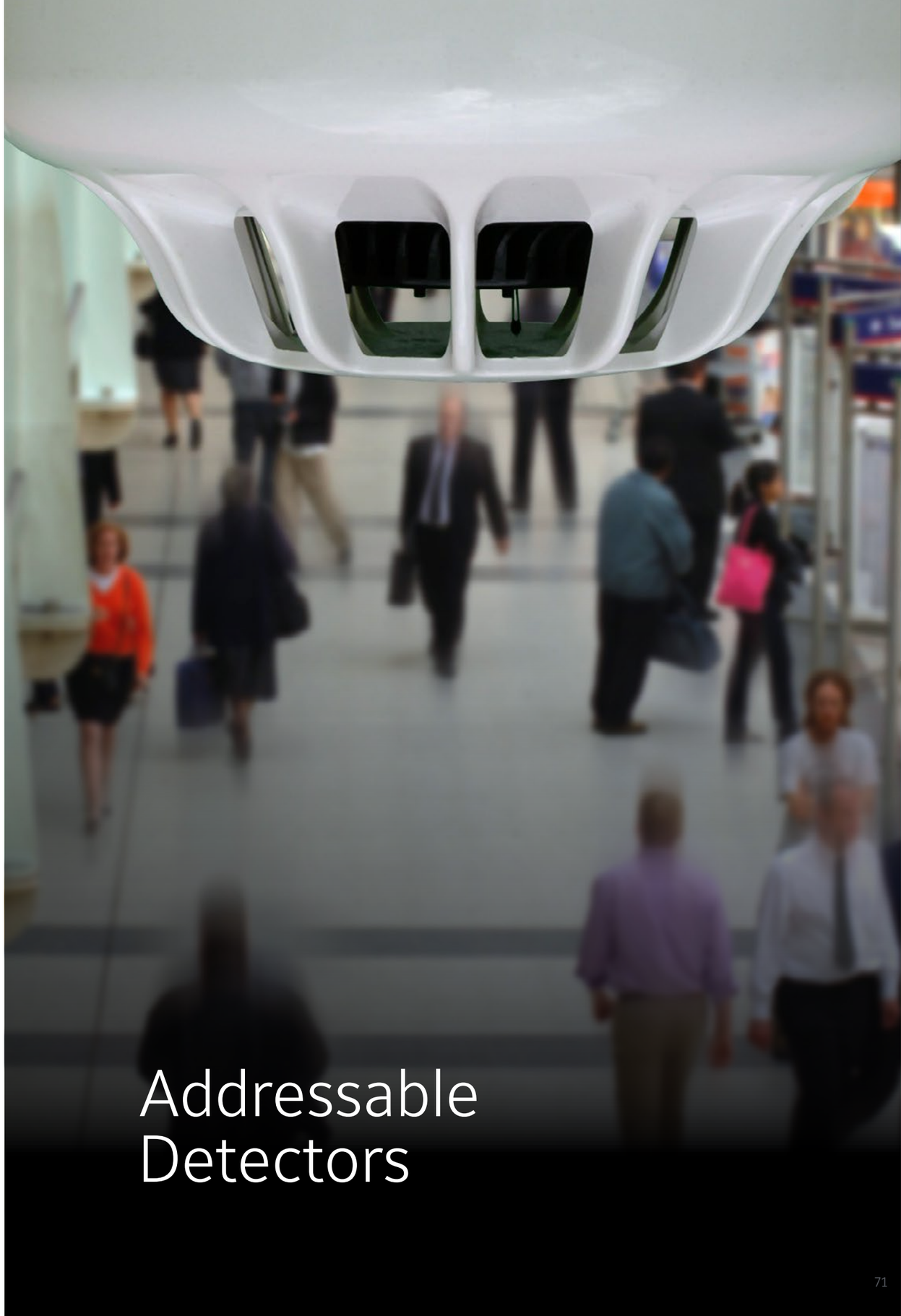
CCU3 Interface

The CCU3/C-MZXMB provides a Modbus interface to a number of MZX panels on a MZXNet. CCU/IO boards may also be connected to provide general I/O devices accessed through the Modbus interface.
The CCU3/C-MZXMB connects to panels on the MZXNet via a TLI800EN (TPI) interface card using RS232 (PL2 socket). It connects to Modbus via either an RS232, RS485 (default) or RS422 connection. Another port allows up to 8 CCU/IO boards to be connected. Each CCU/IO has 8 relay outputs that can be used as inputs to the panel. These contacts are controlled via WRITE commands to the Modbus map. Each CCU/IO also has 8 supervised inputs whose status can be read from the MODBUS map.

557.201.504	CCU3/C-MXMB	Mounting Plate
557.202.046	MX CCU3/C	MXMB MX to Modbus interface
557.202.047	CCU3/C485E	MXMB & Ethernet TCP/IP
557.202.560	CCU3/C232PB	MXPB (Mother & Daughter Cards)

Technical data:

Input Voltage:	18-30 Vdc
Current:	150 mA at 24 Vdc
Dimensions:	140 x 105 x 15 mm



Addressable Detectors

850PH and 830PH Photo Heat Multi-Sensor Detectors

With its ability to detect a wide range of fires from flaming to smouldering types, the combined optical and heat multi-sensor detector is the preferred choice for a range of applications including light industrial, retail and office environments.
It operates in a number of approved modes and sensitivities that can be dynamically selected to suit different environmental conditions.

516.850.051	850PH	Photo Heat Detector With built-in Line Isolator
516.830.051	830PH	Photo Heat Detector

Features
- Advanced multi-sensor designs
- Built-in line isolator 850 Series
- Quick and easy to install
- Extended drift compensation
- Two way infra-red communication to the 850EMT Engineering Management Tool
- Fire, isolate and fault LED indications
- Comprehensive range of bases and base accessories

Available Modes:
- Mode 0 – Optical
- Mode 1 – High Performance Optical
- Mode 3 – Optical & Fixed Heat 60°C
- Mode 4 – Heat Rate of Rise
- Mode 5 – Fixed Heat 60°C
- Mode 6 – High Performance Optical & Fixed Heat 60°C

Options:

517.050.041	4B	4" standard base
517.050.043	4B-I	4"-isolator base
517.050.042	4B-C	4"-continuity base
517.050.002.A	517.050.002.A	Line Shorting Adapter
517.050.511	517.050.511	Detector Cover & Base in Matt Black–Pack of 10
517.050.612	517.050.612	Base Accessory Terminal Kit (Pack of 10)

If an 850 sensor is mounted on any base other than the continuity base 4B-C, the integrated short circuit isolator on the sensor will cease to function.

Technical data:

Mechanical Data	
Detector material:	Flame Retardant FR3010 'BAYBLEND' Height
Dimensions:	43mm / Dia.109mm
Colour:	RAL9016 Traffic White*
Weight:	76g (Excluding Base)
Electrical Data	
Voltage:	20–40 VDC
Quiescent current:	380µA
Alarm current:	3.3mA
Environmental Conditions	
Operating Temp:	-25°C to +70°C
Storage Temp:	-40°C to +80°C
Relative Humidity:	95% (non-condensing) E

*RAL9016, Traffic White, is the target colour, shade may alter slightly during moulding process.

850P and 830P Photo Detectors

More benign environments where any potential fire will be slow burning can be protected using the optical detector. A choice of sensitivities and modes gives this detector a broad range of applications.

516.850.052	850P	Photo Detector With Built-in Line Isolator
516.830.052	830P	Photo Detector

Features
- Built-in line isolator 850 Series
- Quick and easy to install
- Extended drift compensation
- Two way infra-red communication to the 850EMT Engineering Management Tool
- Fire, isolate and fault LED indications
- Comprehensive range of bases and base accessories

Available Modes:
- Mode 0 – Optical

Options:

517.050.041	4B	4" standard base
517.050.043	4B-I	4"-isolator base
517.050.042	4B-C	4"-continuity base
517.050.002.A	517.050.002.A	Line Shorting Adapter
517.050.511	517.050.511	Detector Cover & Base in Matt Black–Pack of 10
517.050.612	517.050.612	Base Accessory Terminal Kit (Pack of 10)

If an 850 sensor is mounted on any base other than the continuity base 4B-C, the integrated short circuit isolator on the sensor will cease to function.

Technical data:

Mechanical Data	
Detector material:	Flame Retardant FR3010 'BAYBLEND' Height
Dimensions:	43mm / Dia.109mm
Colour:	RAL9016 Traffic White
Weight:	76g (Excluding Base)
Electrical Data	
Quiescent Current:	20–40 VDC
Alarm Current:	380µA
Current Operating:	3.3mA
Environmental Conditions	
Operating Temp:	-25°C to +70°C
Storage Temp:	-40°C to +80°C
Relative Humidity:	95% (non-condensing) E

850H and 830H Heat Detectors

Complimenting the range is the heat sensor which can operate in fixed temperature and rate-of-rise modes with a number of approved sensitivities. It is most often used in areas where high levels of dust are present or where the environment precludes the use of smoke detectors.

516.850.053	850H	Heat Detector With Built-in Line Isolator
516.830.053	830H	830H Heat Detector

Features

- Built-in line isolator 850 Series
- Quick and easy to install
- Extended drift compensation
- Two way infra-red communication to the 850EMT Engineering Management Tool
- Fire, isolate and fault LED indications
- Comprehensive range of bases and base accessories

Available Modes:

- Mode 0 – Fixed Temperature Heat 60°C (A2S)
- Mode 1 – Temperature Rate of Rise for Normal Rooms (A1R)
- Mode 2 – Temperature Rate of Rise for High Background Temperature (CR)

Options:

517.050.041	4B	4" Standard Base
517.050.043	4B-I	4"-Isolator Base
517.050.042	4B-C	4"-Continuity Base
517.050.002.A	517.050.002.A	Line Shorting Adapter
517.050.511	517.050.511	Detector Cover & Base in Matt Black–Pack of 10
517.050.612	517.050.612	Base Accessory Terminal Kit (Pack of 10)

If an 850 sensor is mounted on any base other than the continuity base 4B-C, the integrated short circuit isolator on the sensor will cease to function.

Technical data:

Mechanical Data	
Detector material:	Flame Retardant FR3010 'BAYBLEND' Height
Dimensions:	43mm / Dia.109mm
Colour:	RAL9016 Traffic White*
Weight:	76g (Excluding Base)
Electrical Data	
Quiescent Current:	20–40 VDC
Alarm Current:	380µA
Current Operating:	3.3mA
Environmental Conditions	
Operating Temp:	-25°C to +70°C
Storage Temp:	-40°C to +80°C
Relative Humidity:	95% (non-condensing)

*RAL9016, Traffic White, is the target colour, shade may alter slightly during moulding process.

850PC and 830PC 3oTec Triple Sensor Detectors

For life protection and when the environmental conditions are challenging, the 850PC/830PC 3oTec detector provides the ultimate in detector performance and false alarm rejection. It is a multi sensor that uses optical, heat and carbon monoxide sensors in concert to accurately determine the presence of fire.
Applications include industrial, retail, transport hubs, and healthcare. Its false alarm rejection properties make it the ideal choice for hotel bedrooms where steam from bathrooms is a common source of false alarms.

516.850.054	850PC	3oTec Triple Sensor Detector With Built-in Line Isolator
516.830.054	830PC	830PC 3oTec Triple Sensor Detector

Features

- Advanced multi-sensor designs
- Built-in line isolator 850 Series
- Quick and easy to install
- Extended drift compensation
- Two way infra-red communication to the 850EMT Engineering Management Tool
- Fire, isolate and fault LED indications
- Comprehensive range of bases and base accessories

Available Modes:

- Mode 0 – Optical
- Mode 1–Resilient Mode
- Mode 2–Temperature Rate of Rise for Normal Rooms (A1R)
- Mode 3–High Performance Optical with Temperature Rate of Rise (A1R)
- Mode 4–Temperature Enhanced Carbon Monoxide Detection
- Mode 5–Carbon Monoxide Toxic Gas Detector
- Mode 6–Temperature Enhanced Carbon Monoxide Detection with Temperature Rate of rise (A1R)

Options:

517.050.041	4B	4" standard base
517.050.043	4B-I	4"-isolator base
517.050.042	4B-C	4"-continuity base
517.050.002.A	517.050.002.A	Line Shorting Adapter
517.050.511	517.050.511	Detector Cover & Base in Matt Black–Pack of 10
517.050.612	517.050.612	Base Accessory Terminal Kit (Pack of 10)

If an 850 sensor is mounted on any base other than the continuity base 4B-C, the integrated short circuit isolator on the sensor will cease to function.

Technical data:

Mechanical Data	
Detector material:	Flame Retardant FR3010 'BAYBLEND' Height
Dimensions:	43mm / Dia.109mm
Colour:	RAL9016 Traffic White*
Weight:	94g (Excluding Base)
Electrical Data	
Voltage:	20–40 VDC
Quiescent Current:	420µA
Alarm Current:	3.3mA
Environmental Conditions	
Operating Temp:	-10°C to +55°C
Storage Temp:	-20°C to +55°C
Relative Humidity:	95% (non-condensing)

800F Flame Detectors

The 800F is a digital addressable, low cost infrared flame detector with some high end features such as 'Solar Blind' operation for false alarm free reliability and an automatic health check feature. They will detect a 0.1m2 flaming fire at a range of 20m. Uses the standard MZX detector bases and MZX base accessories. An Intrinsically safe version is available as part of the System 800 I.S. range.

516.800.006	801F	Flame Detector

Technical data:

Mechanical Data	
Dimensions:	Height 21.2mm / Dia.109mm
Weight:	74g (Excluding Base)
Environmental Conditions	
Operating Temp:	-20°C to +70°C
Storage Temp:	-40°C to +80°C
Relative Humidity:	90% RH Continuous (non-condensing)
Functional Data	
Range:	0.1m2 n-heptane at 20m (on axis) 0.4m2 n-heptane at 50m (on axis)
Field of View:	100°

*RAL9016, Traffic White, is the target colour, shade may alter slightly during moulding process.

4B 4" Detector Base

The new 4B 4" detector base is designed to snap-fit to the ceiling tile adaptor or it can be screw fixed to a ceiling in the traditional manner. To be used with 830 series.

517.050.041	4B	4" Detector Base

Technical data:

Mechanical Data	
Housing material:	FR3010 'Bayblend', flame-retardant
Dimensions (ø x H):	109 x 22 mm
Weight:	80 g
Colour	
Housing:	RAL9016 Traffic White*
AMBIENT CONDITIONS	
Operating temperature:	-25°C to +70°C rel.
Humidity (non-condensing):	max. 95%

4B-I 4" Detector Isolator Base

The new 4B-I 4" Isolator base is designed to snap-fit to the ceiling tile adaptor or it can screw fix to a ceiling in the traditional manner. The 4B-I 4" base is designed specifically for use with the 830 series detectors and provides protection against short circuit faults on the digital addressable loop.

517.050.043	4B-I	Detector Isolator Base

Technical data:

Mechanical Data	
Dimensions (ø x H):	109 x 22 mm
Weight:	80 g
Colour	
Housing:	RAL9016 Traffic White*
Ambient conditions	
Operating temperature:	-25°C to +70°C rel.
Humidity (non-condensing):	max. 95%

4B-C 4" Detector Continuity Base

The new 4B-C 4" continuity base is designed to snap-fit to the ceiling tile adaptor or it can screw fix to a ceiling in the traditional manner. The 4B-C 4" continuity base is designed specifically for use with the 850 series detector and provides a switching mechanism that ensures continuity when the detector (and built-in short circuit isolator) is removed. When used with the time saver ceiling tile adaptor, the 4B- C 4" continuity base uses a snap-fit mechanism that saves installation time.

517.050.042	4B-C	4" Detector Continuity Base

Technical data:

Mechanical Data	
Housing material:	FR3010 'Bayblend', flame-retardant
Dimensions (ø x H):	109 x 22 mm
Weight:	80 g
Colour	
Housing:	RAL9016 Traffic White*
Ambient conditions	
Operating temperature:	-25°C to +70°C rel.
Humidity (non-condensing):	max. 95%

801RB Relay Base

The 801RB is an MX ancillary that is designed to be driven from the MX addressable loop. The 801RB Relay Base–provides two changeover volt-free relay contacts capable of switching 1A @ 30V dc. The relay operates under control from the MX controller. The 801RB Relay Base requires an associated detector in order to operate, as it utilises the address of the detector that is fitted to it.
Disruption of loop power or removal of the associated detector will cause the 801RB to revert to its reset state. The relay base is designed to be fitted between a detector and an MUB, 801lB Base, or BESA box with standard 50mm fixing centres. The part of the moulding onto which the detector plugs, is designed to receive the detector address flag carrier.

516.800.905	801RB	Relay Base

Technical data:

Mechanical Data	
Dimensions (ø x H):	108 x 36.6 mm
Weight:	153 g
Electrical data	
Relays:	2 changeover volt free
Contact rating:	62.5 VA resistive
Switching current:	1A @30Vdc
Carrying current:	2A
Colour	
Housing:	RAL9016 Traffic White*
Ambient conditions	
Operating temperature:	10°C to +55°C
Humidity	max. 95%

*RAL9016, Traffic White, is the target colour, shade may alter slightly during moulding process.

4B-EM 4" Euro Mount Base

The euro-mounting base provides a matching back box, which allows the 4" bases to be ceiling mounted with conduit entries for standard 18 and 21mm conduit.

517.050.052	4B-EM	4" Euro Mount Base

Technical data:

Dimensions	
Dimensions (H x dia):	25 x 109 mm
Cable management apertures:	2 x 18 mm
Cable management apertures:	2 x 21 mm

4B-DHM Deckhead Mount

For humid and environmentally challenging applications such as marine or offshore installations, the 4B-DHM deck head mount provides a sealed waterproof mounting which protects the electrical connections in the base. It can be screwed, bolted or welded to the deckhead. Supplied with 1 terminal. If more are required, use the optional base accessory terminal kit.

517.050.051	4B-DHM	Deckhead Mount

Technical data:

Dimensions	
Dimensions (H x dia):	25 x 109 mm
Cable management apertures:	4 x 20 mm
IP rating:	IP 55 (with supplied gasket)

Protective Detector Sounder Base Cage

White powder coated steel protective cage for Series 800 Detectors fitted with a sounder base. Internal dimensions: 120mm dia x 80mm deep.

517.050.011	Protective Detector Sounder Base Cage

Technical data:

Diameter:	125 mm
Height:	85 mm
Weight:	161 g

Ceiling Tile Adapter

Ceiling panels with thicknesses of up to 2.5 cm can be secured.

Notice:
Alarm, base and screw connections must be ordered separately!

The Time Saver Ceiling Tile Adaptor is used with the 4" snap fit base and consists of three parts, a bezel and clamp that are fitted to the ceiling tile and a back-box that carries the detector and base assembly. It is available as a complete unit or alternatively, the back-box can be ordered separately, as can the bezel and clamp assembly. Ordering the parts separately may be preferred if there is an extended period before the false ceiling is installed e.g. "shell and core" projects. Requires a 127mm diameter hole.
The CTA adaptor plate allows the Time Saver Ceiling Tile Adaptor to be used with other devices such as the AV Base, 802SB or Mini Firecryer.

517.050.060	CTA	Ceiling Tile Adaptor Kit consists of 1 x 517.050.056 and 1 x 517.050.057
517.050.056	MCTA-BB	CTA Back Box
517.050.057	CTA-BC	CTA-BC CTA Bezel and Clamp
517.050.058	CTA-AP	CTA Adaptor Plate

Technical data:

Housing material:	FR3010 'Bayblend', flame-retardant
Colour:	White
Dimensions (ø x H):	180 x 50 to 180 x 75 mm

801RIL–Remote Indication LED

All detector bases have the ability to drive a remote LED in the event that the installed position of the detector is not easily visible. The 801RIL is primarily designed for LPCB influenced markets but is compatible with all 800 Series detectors.

516.800.908	801RIL	Remote Indication LED

Technical data:

Mechanical Data	
Dimensions (W x H x D):	86 x 86 x 16 mm
Electrical	
Operating voltage:	20–40 V DC
Operating current in alarm mode:	5.43 mA
Colour	
Housing:	White
Ambient Conditions	
Operating temperature:	-20°C to +70°C
Rel. humidity (non-condensing):	max. 95%

Remote Indication Lamp 801HL

The 801HL remote indicator lamp provides a larger indicator for use in place of the RIL when longer distances are involved or in VdS influenced markets. Typically used to indicate the source of an alarm in buildings with long corridors eg. Hotels, hospitals, apartments.

516.800.909	801HL	Remote Indication Lamp

Technical data:

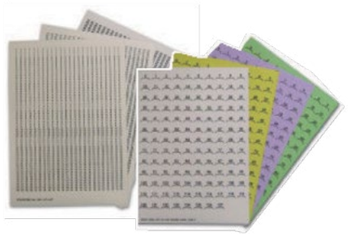
Mechanical Data	
Dimensions (W x H x D):	85 x 85 x 38 mm
Electrical	
Operating voltage:	20–40 V DC
Operating current in alarm mode:	5 mA
Colour	
Housing:	White
Ambient Conditions	
Operating temperature:	-20°C to +70°C
Rel. humidity (non-condensing):	max. 95%

800 Series Address Flag

The 800 Series detectors incorporate a feature, which automatically transfers the address flag to the detector base, when the detector is plugged into the base. On removal of the detector the address flag remains on the ceiling, thus ensuring that detectors are not accidentally returned to the wrong detector base following service routines.
Most ZETTLER detection panels incorporate additional fail safe software features to ensure that incorrect detector positioning does not compromise the system. Address flags are supplied in packs of 100. Labels are provided on sheets of 250 in eight colours to enable quick identification between different loops.

516.800.915	MZX Address Flags (Pack of 100)
516.800.931	Address Flag Labels Loop A–White
516.800.932	Address Flag Labels Loop B–Yellow
516.800.933	Address Flag Labels Loop C–Purple
516.800.934	Address Flag Labels Loop D–Green
516.800.935	Address Flag Labels Loop E–Grey
516.800.936	Address Flag Labels Loop F–Blue
516.800.937	Address Flag Labels Loop G–Orange
516.800.938	Address Flag Labels Loop H–Red

Callpoint & Ancillary Address Labels

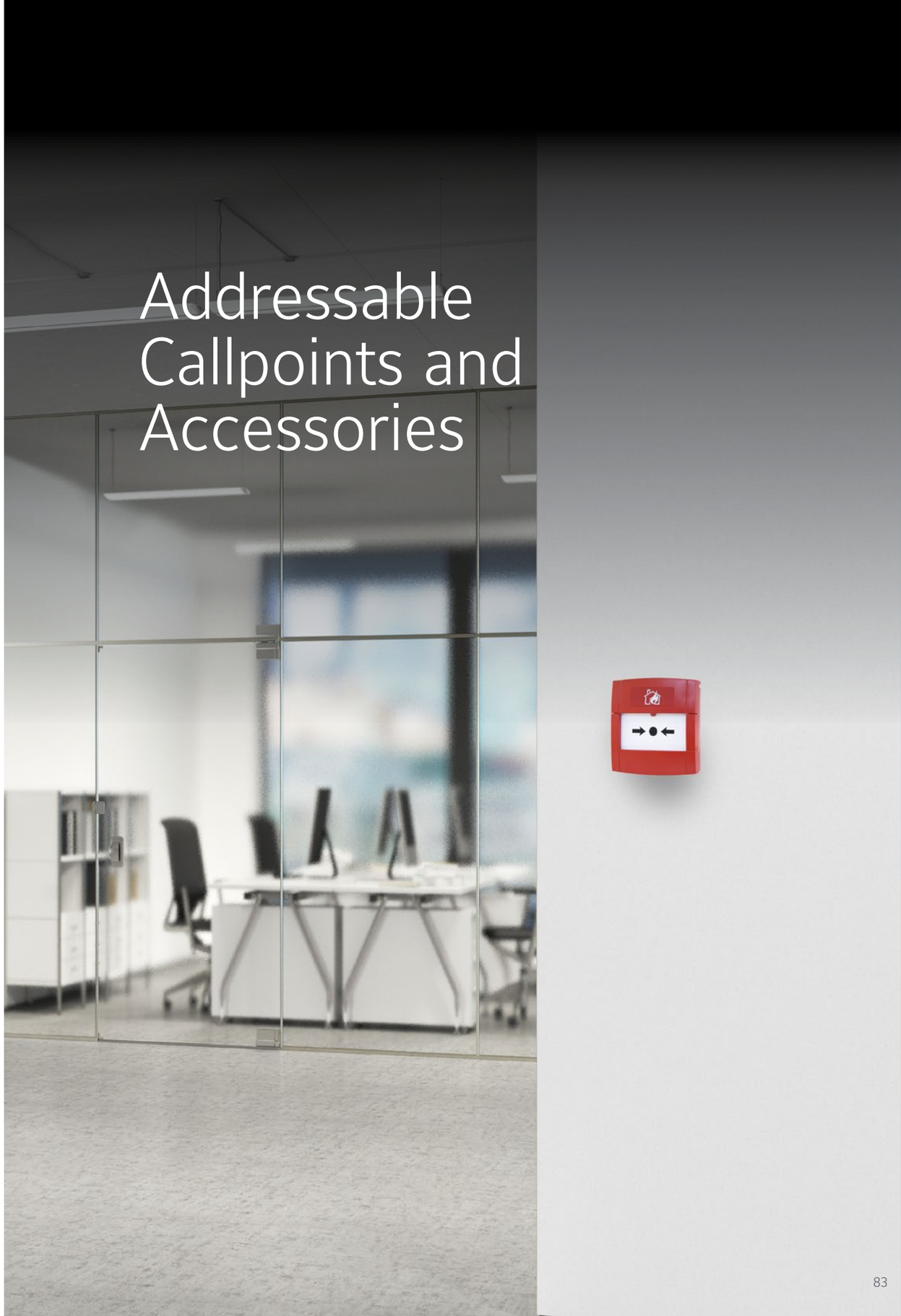


Detectors have a special address flag for carrying the address labels–detailed in the detector section. For other devices or on detectors where zone information is also required a series of address labels are available.
Numbered 1 to 250, the address labels are available in 8 different colours to distinguish between different loops. In addition small zone labels can be fixed to the address labels.

599.047.011	Zone Labels–Zones 1–16
599.047.012	Zone Labels–Zones 17–32
599.047.013	Zone Labels–Zones 33–48
599.047.014	Zone Labels–Zones 49–64
599.047.015	Zone Labels–Zones 65–80
599.047.016	Zone Labels–Zones 81–100
599.047.018	Zone Labels–Zones 101–120
599.047.019	Zone Labels–Zones 121–140
599.047.020	Zone Labels–Zones 141–160
599.047.021	Zone Labels–Zones 161–180
599.047.022	Zone Labels–Zones 181–200
599.047.023	Zone Labels–Zones 201–220
599.047.024	Zone Labels–Zones 221–240
599.047.030	Address Labels 1–250 Loop A–White
599.047.031	Address Labels 1–250 Loop B–Yellow
599.047.032	Address Labels 1–250 Loop C–Purple
599.047.033	Address Labels 1–250 Loop D–Green
599.047.034	Address Labels 1 – 250 Loop E Light Blue
599.047.035	Address Labels 1 – 250 Loop F Orange
599.047.036	Address Labels 1 – 250 Loop G Red
599.047.037	Address Labels 1 – 250 Loop H Dark Blue

Features

- Colour coded for Easy Loop Identification
- Space for Zonal Label
- Strong Adhesive Backing



MCP820 Indoor Callpoint c/w Isolator

The MCP820 is an indoor addressable manual callpoint for ZETTLER addressable fire panels. It is equipped with an integral line isolator and a programmable status LED. In case of a short circuit on the loop, the line isolator isolates the affected part of the loop and ensures that the parts of the loop that are not affected from the failure continue to work. MCP820 provides high speed communication to the ZETTLER panel of a manual fire alarm. Approved to EN 54-11 and EN 54-17.

514.800.611	MCP820	Indoor Callpoint c/w Isolator
514.800.611 PL	MCP820.PL	Polish Indoor Callpoint w/Isolator

Optional SKUs

514.800.535	MCP820	Indoor Callpoint c/w Isolator (French Version)

Technical data:

Mechanical Data	
Housing material:	ABS plastic
Dimensions (ø x H):	89 x 93 x 27.5 mm
Weight:	110 g
Electrical Data	
Power supply from the ring line:	20–40 V DC
Ambient Conditions	
Ambient temperature in operation:	-10°C to +55°C
Humidifiers without condensation (max.):	95%

MCP830 Outdoor Callpoint

The MCP830 is an outdoor addressable manual callpoint for ZETTLER panels. It is equipped with an integral isolator and a programmable status LED. In case of a short circuit on the loop, the line isolator isolates the affected part of the loop and ensures that the parts of the loop that are not affected from the failure continue to work. MCP830 provides high speed communication to the ZETTLER panel of a manual fire alarm. Approved to EN 54-11 and EN 54-17.

514.800.612	MCP830	Outdoor Callpoint w/ Isolator
514.800.612 PL	MCP830.PL	Outdoor Callpoint c/w Isolator (Polish Version)

Optional SKUs

514.800.536	MCP830	Outdoor Callpoint c/w Isolator (French Version)

Technical data:

Mechanical Data	
Housing material:	ABS plastic
Dimensions (ø x H):	97.5 x 93 x 73 mm
Weight:	240 g
Electrical Data	
Power supply from the ring line:	20–40 V DC
Ambient Conditions	
Ambient temperature in operation:	-25°C to +70°C
Humidifiers without condensation (max.):	95%

Callpoint DIN 820 – Internal, With Short Circuit Isolator

The callpoint DIN 820 is a manually operated alarm for interior areas and it corresponds to the directives defined in DIN EN 54-11 and DIN EN 54-17. It has a status LED and an integrated short circuit isolator. With a jumper, the alarm can be switched into maintenance mode.

552.018	DIN 820/IUB	Addressable Callpoint With Isolator / Blue
552.032	DIN 820/IUR	Addressable Callpoint With Isolator / Red

Technical data:

Mechanical Data	
Housing material:	Plastic
Dimensions (W x H x D):	135 x 135 x 32 mm
Weight:	330 g
Electrical Data	
Supply voltage from the ring line:	20–40 V DC
Current input In standby mode:	0.3 mA
in alarm mode (with LED):	3 mA
Ambient Conditions	
Ambient temperature in operation:	20°C to +60°C
non-condensing ambient humidity (max.):	85%

Callpoint DIN 830 – External, With Short Circuit Isolator

The pushbutton alarm DIN 830 is a manually operated alarm for exterior areas and it corresponds to the directives defined in DIN EN 54-11 and DIN EN 54-17. It has a status LED and an integrated short circuit isolator.

552.019	DIN830/IUB	Addressable Callpoint With Isolator / Blue
552.033	DIN 830/IUR	Addressable Callpoint With Isolator / Red

Technical data:

Mechanical Data	
Housing material:	Plastic
Dimensions (W x H x D):	135 x 135 x 32 mm
Weight:	330 g
Electrical Data	
Supply voltage from the ring line:	20–40 V DC
Current input In standby mode:	0.3 mA
in alarm mode (with LED):	3 mA
Ambient Conditions	
Ambient temperature in operation:	20°C to +60°C
non-condensing ambient humidity (max.):	85%

Standard Red Surface Mounting Back Box for MCP & CP Callpoints

Standard Red surface mounting back box for indoor callpoints. It has no terminal blocks.

515.001.021	Standard Red Surface Mounting Back Box for MCP & CP Callpoints

Technical data:

Mechanical Data	
Dimensions (H x W x D):	83 x 87 x 32mm

Standard Red Surface Mounting Back Box for MCP & CP Callpoints

Callpoint surface mount back box for addressable callpoint. With 2 terminal blocks.

10-115	Standard Red Surface Mounting Back Box for MCP & CP Callpoints

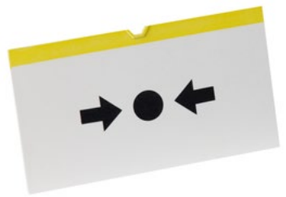
Technical data:

Mechanical Data	
Dimensions (H x W x D):	83 x 87 x 32mm

Spare Glass for MCP and CP Series Callpoints (set of 5)

515.001.119	Spare Glass for MCP and CP series Callpoints (set of 5)

Deformable Element for MCP Series Callpoints Only



Deformable operating unit "glass" for use in place of glasses, for kitchens or other areas where glass is not acceptable.

515.001.127	Deformable Element for MCP Series Callpoints Only

Test Key for All MCP and CP Style Callpoints

Test key for all MCP and CP style call points.

515.001.045	Test Key for All MCP and CP Style Callpoints

Break-Glass for DIN 800 Callpoint

Break-glass for DIN800 callpoint, 80 x 80.

570.036	Breakglass 80 * 80–For DIN800 Callpoints

M141 Space for Red CP800 Callpoints

Spacer for Red CP800 Callpoints.

90-107	M141	Red M141 Spacer For Red CP800 Callpoints

Callpoint Hinged Cover

Callpoint hinged cover for use with MCP callpoints models (Colour Clear).

515.001.128	Callpoint Hinged Cover

Universal Stopper

The UNIVERSAL STOPPER provides protection from malicious or accidental activation of manual callpoints. Available for flush or surface mounted callpoints the UNIVERSAL STOPPER is also available with optional high pitch sounder which is activated when the lid is lifted. A Break Seal is supplied with all models, to provide extra protection if required.

STI-13010FR	Universal Stopper Flush, no Sounder red. Fire Label "In Case of Fire, Lift Cover Break Glass"base
STI-13110FR	Indoor or Outdoor Applications Universal Stopper Surface no Sounder Red. Fire label "In Case of Fire, Lift
STI-13020FR	Universal Stopper Flush With Sounder Red. Fire Label "In Case of Fire, Lift Cover Break Glass"base
STI-13120FR	Universal Stopper Surface With Sounder Red. Fire label "In Case of Fire, Lift Cover Break Glass"base

Features

- Prevents accidental operation of callpoints
- Strong polycarbonate construction
- Break Seal provided. (Use is optional)

WARNING:

Break Seals should only to be fitted by agreement with relevant fire authorities.
The UNIVERSAL STOPPER is suitable for all callpoints up to 100 mm square.

Technical data:

	Flush	Surface base	With Sounder	Weather Proof
STI-13110FR UNIVERSAL STOPPER	✓	✓ 37 mm		✓
STI-13010FR UNIVERSAL STOPPER	✓			✓
STI-13020FR UNIVERSAL STOPPER	✓		✓96 db	✓
STI-13120FR UNIVERSAL STOPPER	✓	✓ 37 mm	✓96 db	✓

	UNIVERSAL STOPPER
Max. Callpoint size	100 x 100 mm
Max. Callpoint depth	57.5 (add 37 mm surface)

Surface fit Stopper II

The STOPPER II is constructed from tough UV stabilised polycarbonate. Physically larger than the UNIVERSAL STOPPER the STOPPER II extends the number of products to which these tough multi-purpose covers can protect.
It consists of a strong tamper-proof clear polycarbonate cover and frame that fits easily over such products as break glass callpoints.
STOPPER II can also be fitted with an integral battery powered sounder which activates if the cover is lifted. The STOPPER II is suitable for callpoints up to 160 mm square.

515.001.034	STI1230	Surface Fit STOPPER II

Features

- Strong polycarbonate construction
- Tamper resistant

Technical data:

Stopper II	
Max. Callpoint size	160 x 160 mm
Max. Callpoint depth	120 (add 37 mm surface)

Universal Stopper & Weather Stopper II

The UNIVERSAL STOPPER and WEATHER STOPPER II extends the life of weather exposed devices, such as break glass callpoints, by offering protection against harsh conditions and environments. Experience has shown that this protective cover can extend the life of products installed in saline atmospheres, such as oil rigs and ship decks.
While offering environmental protection the UNIVERSAL STOPPER and WEATHER STOPPER II are constructed from tough UV stabilised polycarbonate which will also guard against tampering, vandalism or accidental operation of devices such as emergency switches.

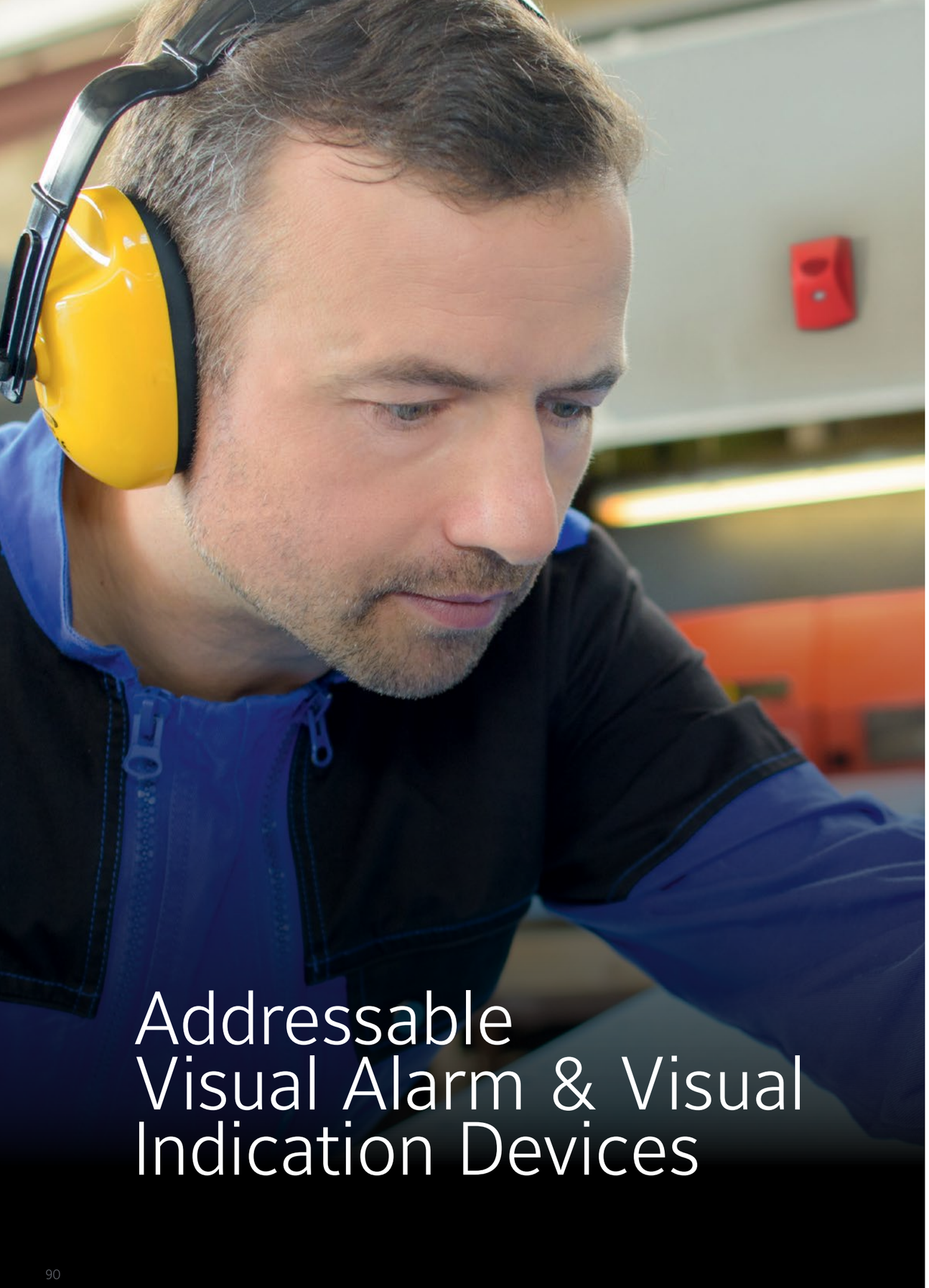
515.001.035	STI3150	WEATHER STOPPER II Red

Features

- Strong polycarbonate construction
- Provides environmental protection
- Ideal for indoor/outdoor applications

Technical data:

Stopper II	
Max. Callpoint size	160 x 160 mm
Max. Callpoint depth	120 (add 37 mm surface)



Addressable Visual Alarm & Visual Indication Devices

Addressable Wall Sounder Visual Alarm Devices

The P80AV range of compact addressable wall sounders with a Visual Alarm Device (VAD) includes three models with the same low current and high output specification; red and white body indoor models plus an IP rated version for either outdoor or harsh environment applications.

Features

- A compact and unobtrusive sounder solution
- Reflective Sound Monitoring (RSM)
- Reflective Light Monitoring (RLM)
- Automatic self-test
- Shorter light pulse for faster response
- Indoor and outdoor versions
- Indoor models can be semi-flush or surface mounted including a choice of shallow or deep back box
- IP rated option has a deep surface back box for use with suitable IP-rated glands and cabling
- Power and data from the loop. No additional wiring or power supplies required
- Built-in line isolator
- 16 selectable tones
- Realistic conventional bell tone
- 2 selectable volumes
- 2 selectable flash rates
- Select the tone volume and flash rate using panel configuration software
- Independent addressable control of the sounder and beacon
- Different tones can be used for fire alarm and class change
- Rectangle wall mount for an aesthetically pleasing option
- A locking pin/screw supplied which prevents unauthorized removal

Addressable Wall Sounder VAD White

The P80AVW is a white indoor loop powered addressable sounder and visual alarm device of the wall category.

576.080.007	P80AVW	Addressable Wall Sounder VAD White

Technical data:

Mechanical Data	
Dimensions (W x H x D):	89*135*40 mm (Without backbox)
Weight	202g
Colour	
Housing:	White
Ambient conditions	
Ambient Conditions:	-10°C to +55°C
Relative humidity (non-condensing):	Up to 95% Relative Humdity
Class and coverage:	W-2.4-7.5

Addressable Wall Sounder VAD Red

The P80AVR is a red indoor loop powered addressable sounder and visual alarm device of the wall category.

576.080.008	P80AVR	Addressable Wall Sounder VAD Red

Technical data:

Mechanical Data	
Dimensions (W x H x D):	89*135*40 mm (Without backbox)
Weight	202g
Colour	
Housing:	Red
Ambient conditions	
Ambient Conditions:	-10°C to +55°C
Relative humidity (non-condensing):	Up to 95% Relative Humdity
Class and coverage:	W-2.4-7.5

Addressable Wall Sounder VAD IP Red

The P855AVR is a red loop powered addressable sounder and visual alarm device of the wall category. This IP rated version is suitable either outdoor or harsh environment applications. (IP55 to be added).

576.080.009	P85AVR	Addressable Wall Sounder VAD IP Red

Technical data:

Mechanical Data	
Dimensions (W x H x D):	105*153*97 (With I.P. backbox)
Weight	380g
Colour	
Housing:	Red
Ambient conditions	
Ambient Conditions:	-25°C to +70°C
Relative humidity (non-condensing):	Up to 95% Relative Humdity
Class and coverage:	W-2.4-7.5

Addressable Wall Sounder VIDs

The P80AI range of compact addressable wall sounders with the Visual Indicating Device (VID) includes three models with the same low current and high output specification; red and white body indoor models plus an IP rated version for either outdoor use or for harsh environment applications.

Features

- A compact and unobtrusive sounder solution
- Reflective Sound Monitoring (RSM)
- Light is electronically monitored by the control panel
- Automatic self-test
- Indoor and outdoor versions
- Indoor models can be semi-flush or surface mounted including a choice of shallow or deep back box
- IP rated option has a deep surface back box
- Power and data from the loop. No additional wiring or power supplies required
- Built-in line isolator
- 16 selectable tones
- Realistic conventional bell tone
- 2 selectable volumes
- 2 selectable flash rates
- Select the tone volume and flash rate using panel configuration software
- Independent addressable control of the sounder and beacon
- Different tones can be used for fire alarm and class change
- Rectangle wall mount for an aesthetically pleasing option
- A locking pin/screw supplied which prevents unauthorized removal

Addressable Wall Sounder VID White

The P80AI range of compact addressable wall sounders with the Visual Indicating Device (VID) includes three models with the same low current and high output specification; red and white body indoor models plus an IP rated version for either outdoor use or for harsh environment applications.

576.080.011	P80AIW	Addressable Wall Sounder VID White

Technical data:

Mechanical Data	
Dimensions (W x H x D):	89*135*40 (Without backbox)
Weight	194g
Colour	
Housing:	White
Ambient conditions	
Ambient Conditions:	-10°C to +55°C
Relative humidity (non-condensing):	Up to 95% Relative Humdity

Addressable Wall Sounder VID Red

The P80AIR is a red, indoor, loop-powered, addressable sounder and visual indicating device of the wall category.

576.080.012	P80AIR	Addressable Wall Sounder VID Red

Technical data:

Mechanical Data	
Dimensions (W x H x D):	89*135*40 (Without backbox)
Weight	194g
Colour	
Housing:	Red
Ambient conditions	
Ambient Conditions:	-10°C to +55°C
Relative humidity (non-condensing):	Up to 95% Relative Humdity

Addressable Wall Sounder VID IP Red

The P855AIR is a red, loop-powered, addressable sounder and visual indicating device of the wall category. This IP rated version is suitable either outdoor or harsh environment applications. (IP55 to be added).

576.080.013	P85AIR	Addressable Wall Sounder VID IP Red

Technical data:

Mechanical Data	
Dimensions (W x H x D):	105*153*97 (With I.P. backbox)
Weight	372g
Colour	
Housing:	Red
Ambient conditions	
Ambient Conditions:	-25°C to +70°C
Relative humidity (non-condensing):	Up to 95% Relative Humdity

Addressable Wall Sounders

The P80S range of compact addressable wall sounders includes three models with the same low current and high output specification; red and white body indoor models plus an IP rated version for either outdoor use or for harsh environment applications.

Features

- A compact and unobtrusive sounder solution
- Reflective Sound Monitoring (RSM)
- Automatic self-test
- Indoor and outdoor versions
- Indoor models can be semi-flush or surface mounted including a choice of shallow or deep back box
- IP rated option has a deep surface back box
- Power and data from the loop. No additional wiring or power supplies required
- Built-in line isolator
- 16 selectable tones
- Realistic conventional bell tone
- 2 selectable volumes
- Select the tone volume using panel configuration software
- Different tones can be used for fire alarm and class change
- Rectangle wall mount for an aesthetically pleasing option
- A locking pin/screw supplied which prevents unauthorized removal

Addressable Wall Sounder White

The P80SW is a white indoor loop powered addressable sounder of the wall category.

576.080.003	P80SW	Addressable Wall Sounder White

Technical data:

Mechanical Data	
Dimensions (W x H x D):	89*135*40 (Without backbox)
Weight	182g
Colour	
Housing:	White
Ambient conditions	
Ambient Conditions:	-10°C to +55°C
Relative humidity (non-condensing):	Up to 95% Relative Humdity

Addressable Wall Sounder Red

The P80SR is a red indoor loop powered addressable sounder of the wall category.

576.080.004	P80SR	Addressable Wall Sounder Red

Technical data:

Mechanical Data	
Dimensions (W x H x D):	89*135*40 (Without backbox)
Weight	182g
Colour	
Housing:	Red
Ambient conditions	
Ambient Conditions:	-10°C to +55°C
Relative humidity (non-condensing):	Up to 95% Relative Humdity

Addressable Wall Sounder IP Red

The P85SR is a red indoor loop powered addressable sounder of the wall category. This IP rated version is suitable either outdoor or harsh environment applications.

576.080.005	P85SR	Addressable Wall Sounder IP

Technical data:

Mechanical Data	
Dimensions (W x H x D):	105*153*97 (With I.P. backbox)
Weight	358g
Colour	
Housing:	Red
Ambient conditions	
Ambient Conditions:	-25°C to +70°C
Relative humidity (non-condensing):	Up to 95% Relative Humdity

Addressable Sounder VAD Bases

The P80AVB and P81AVB are addressable sounder bases with a Visual Alarm Device (VAD) specifically for use with the ZETTLER addressable detectors. The bases are available as fire alarm sounders with Visual Alarm Device in two power outputs, standard and high. The high power option provides more coverage for the VAD compared to standard. Each has an address so they can be monitored and controlled from the fire alarm control panel, which is independent of the detector fitted to the base. The power and communications for the sounder, VAD and detector are provided by the two-wire digital loop. This helps to reduce installation costs as no additional wiring is requiredGeneral Features:

Features

- A compact and discrete solution
- VAD approved to EN54-23 with two ranges, standard power and high power available
- High power option provides a larger VAD coverage volume compared to standard
- Reflective Sound Monitoring (RSM)
- Reflective Light Monitoring (RLM)
- Automatic self-test
- Shorter light pulse for faster response
- Optimise the system design for lowest power requirements and lowest cost installation
- Triple light source
- One point of installation for detector, sounder and visual indicator with no additional wiring
- Independent addressable control of the sounder and beacon
- Built-in line isolator
- Select the tone, volume and flash rate using panel configuration software
- 15 selectable tones. Allows users to select the tone with which they are most familiar.
- Realistic conventional bell tone
- 2 selectable volumes
- 2 selectable flash rates
- Different tones can be used for fire alarm and class change
- VADs and sounders are synchronised over the entire loop
- A locking pin supplied with the base which prevents the unauthorized removal of the detector
- Provides an EN54-23 approved upgrade path for legacy systems

Addressable Base Sounder VAD Standard Power

The P80AVB is an addressable sounder base with a visual alarm device specifically for use with the Zettler addressable detectors.

576.080.006	P80AVB	Addressable Base Sounder VAD Standard Power

Technical data:

Mechanical Data	
Dimensions:	(Ø*h (mm)) 135*45
Weight	178g
Colour	
Housing:	Clear
Ambient conditions	
Ambient Conditions:	-25°C to +70°C
Relative humidity (non-condensing):	Up to 95% Relative Humdity
Class and coverage:	C-3-8

Addressable Base Sounder VAD High Power

The P81AVB is an addressable sounder base with a visual alarm device specifically for use with the Zettler addressable detectors.

576.080.014	P81AVB	Addressable Base Sounder VAD High Power

Technical data:

Mechanical Data	
Dimensions:	(Ø*h (mm)) 135*45
Weight	188g
Colour	
Housing:	Clear
Ambient conditions	
Ambient Conditions:	-25°C to +70°C
Relative humidity (non-condensing):	Up to 95% Relative Humdity
Class and coverage:	C-3-15

Addressable Sounder VID Bases

The P80SB is an addressable sounder base specifically for use with the ZETTLER addressable detectors. The base incorporates a fire alarm sounder that carries its own address so it can be monitored and controlled from the fire alarm control panel, which is independent of the detector fitted to the base. Both power and communications for the sounder and detector are provided by the two-wire digital loop. This helps to reduce installation costs as no additional wiring is required. Additionally, the P80AIB houses an addressable LED beacon to provide a visual indicator otherwise known as a VID.

Features

- A compact and discrete solution
- One point of installation for detector, sounder and visual indicator with no additional wiring
- Reflective Sound Monitoring (RSM)
- Light is electronically monitored by the control panel
- Automatic self-test
- Independent addressable control of the sounder and beacon
- Built-in line isolator
- Select the tone, volume and flash rate using panel configuration software
- 15 selectable tones. Allows users to select the tone with which they are most familiar
- Realistic conventional bell tone
- 4 selectable volumes
- 2 selectable flash rates
- Different tones can be used for fire alarm and class change
- VIDs and sounders are synchronised over the entire loop
- A locking pin supplied with the base which prevents the unauthorized removal of the detector
- Replace legacy LPSB3000 and LPAV3000

Addressable Sounder Base VID

The P80AIB is an addressable sounder base that houses an addressable LED beacon to provide a visual indicator otherwise known as a VID.

576.080.010	P80AIB	Addressable Base Sounder VID

Technical data:

Mechanical Data	
Dimensions (W x H x D):	(Ø*h (mm)) 114*45
Weight	154g
Colour	
Housing:	Clear
Ambient conditions	
Ambient Conditions:	-25°C to +70°C
Relative humidity (non-condensing):	Up to 95% Relative Humdity

Addressable Sounder Bases

Addressable Sounder Base

The P80SB is an addressable sounder base specifically for use with the Zettler addressable detectors.

576.080.002	P80SB	Addressable Base Sounder

Technical data:

Mechanical Data	
Dimensions (W x H x D):	(Ø*h (mm)) 114*45
Weight	146g
Colour	
Housing:	White
Ambient conditions	
Ambient Conditions:	-25°C to +70°C
Relative humidity (non-condensing):	Up to 95% Relative Humdity

Detector Sounder Base

The 80DSB is a detector base specifically for use with the ZETTLER addressable detectors. The base incorporates a fire alarm sounder that is activated directly by the detector.

576.080.001	80DSB	Detector Sounder Base

Technical data:

Mechanical Data	
Dimensions (W x H x D)	(Ø*h (mm)) 114*45
Weight:	144g
Colour:	White
Ambient conditions	
Ambient Conditions:	-25°C to +70°C
Relative humidity (non-condensing):	Up to 95% Relative Humdity

Accessories

557.080.001	B..CAP	Sounder Base Blank Cap
557.080.002	A..CON	Conduit Adapt SounderAV Base
557.080.007	S-BOXR	Shallow Surface Back Box Red
557.080.008	S-BOXW	Shallow Surface Back Box White
557.080.010	A..BOX	Flush Adapt In Wall Sounder
557.080.011	D-BOXR	Deep Surface Back Box Red
557.080.012	D-BOXW	Deep Surface Back Box White

Loop Powered Sounders

LPSY865 Loop Powered Sounder

Addressable, loop powered sounder, IP65

516.800.962	LPSY865	Loop Powered Symphoni Addressable Sounder IP65

Technical data:

Mechanical Data	
Dimensions (H x W x D)	108x108x100mm
Weight:	0.288kg
Housing:	ABS
Colour:	White (RAL9003)
Ambient Conditions	
Operating Temp:	-20ºC to +70ºC
Relative Humidity:	Up to 95% non-condensing.

LPAV865 Loop Powered Sounder Beacon

Addressable, loop-powered sounder beacon, IP65, red body, red flash, VID.

516.800.965	LPAV865	Loop Powered Symphoni Addressable Sounder Beacon IP65 Red Body Red Flash VID

Technical data:

Mechanical Data	
Dimensions (H x W x D)	110x110x105mm
Colour:	Red
Ambient Conditions	
Operating Temp:	-20ºC to +70ºC
Relative Humidity:	Up to 95% non-condensing.

LPBS865 Loop Powered Sounder Beacon

Addressable, loop-powered sounder beacon, IP65, red body, white flash, VAD.

516.800.968	LPBS865	Open Class Symphoni Addressable Beacon Sounder IP65 Red Body White Flash VAD

Technical data:

Mechanical Data	
Dimensions (H x W x D)	108x108x100mm
Weight:	0.30kg
Housing:	ABS
Colour:	Red
Ambient Conditions	
Operating Temp:	-20ºC to +70ºC
Relative Humidity:	Up to 95% non-condensing.

P82AVB Open Class Base Sounder Beacon

Addressable, loop-powered sounder- beacon base, clear body, white flash, VAD

576.080.015	P82AVB	Addressable OC Base Sounder Beacon

Technical data:

Mechanical Data	
Dimensions (W x D)	114x45
Weight:	0.154kg
Housing:	Polycarbonate
Colour:	Clear
IP rating	IP21C
Ambient Conditions	
Operating Temp:	20°C to +70°C
Relative Humidity:	Up to 95% non-condensing

Accessories:

557.080.001	B-CAP	Blanking Cap for Sounder/VID/VAD Bases
557.080.002	A-CON	Conduit Adaptor for Sounder/VID/VAD Bases

Addressable Ancillary Modules

BDM800 Beam Detector Module–Loop Powered

The BDM800 is designed to interface the FIRERAY reflective beam detectors to the ZETTLER Digital Addressable Loop. The BDM800 provides power from the loop, monitors the Fire and Fault outputs of the detector and also monitors inter-connections for open and short circuit faults. Supplied fitted in a standard double gang ancillary housing, the BDM800 greatly simplifies the wiring normally associated with beam detection.

555.800.066	BDM800	Beam Detector Module c/w Cover

Technical data:

Mechanical Data	
Dimensions (W x H x D) PCB:	80 x 60 x 16 mm
Housing:	148 x 87 x 14 mm
Weight:	approx. 100 g
Electrical Data	
Supply voltage from the loop:	20–40 V DC
Max. cable resistance on the input circuit:	50 Ω
Ambient Conditions	
Ambient temperature Operation:	-10°C to +55°C
Storage:	
Non-condensing ambient humidity (max.):	95%

Features

- Power beam detectors directly from the loop
- Reduced wiring and installation costs
- Monitors beam detector for fire and fault
- Monitored for open / short circuit faults
- On board LED indicates polling and active
- Optional BTM800 beam terminal termination module

BTM Beam Termination Module

If it is necessary to site the BDM800 Beam Detector Module some distance from the beam detector itself, an optional BTM800 beam termination module is available to minimise and simplify the wiring. The BTM800 is housed in a standard double gang ancillary cover and has all the connections and components required to minimise installation time.

555.800.067	BTM800	Beam Terminal Module c/w Cover

Technical data:

Mechanical Data	
Dimensions (W x H x D) with Housing:	148 x 87 x 14 mm
Weight:	260 g
Ambient Conditions	
Ambient temperature Operation:	-10°C to +55°C
Storage:	
Non-condensing ambient humidity (max.):	95%

Features

- Simplifies the wiring between the Beam detector and BDM800
- Allows BDM800 to be sited up to 40m from the beam detector

CIM800 Contact Input Module

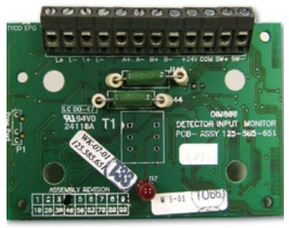
The CIM800 is a flexible addressable input-monitoring device that fits in the standard ancillary housings. The CIM800 provides two inputs to current ZETTLER panels though this can be implemented as two separately wired spurs (Style B) or as a loop (Style A). Both spur and loop input wiring can be configured to monitor normally open or normally closed inputs. In addition both can be configured to initiate an alarm or short circuit fault message in the event of a short circuit on normally open monitoring circuits.

555.800.002	CIM800	Contact Input Module
555.800.032	CIM800	Contact Input Module c/w Cover

Technical data:

Mechanical Data	
Dimensions (W x H x D) with housing:	148 x 87 x 14 mm
Electrical Data	
Supply voltage from the loop:	20–40 V DC
Current input In standby mode:	0.5 mA
in alarm mode (with red LED):	4.5 mA
Line resistance:	200 Ω
Activation resistance:	100 Ω
Max. line resistance on the monitored line:	10 Ω
Ambient Conditions	
Ambient temperature in operation:	-25°C to +70°C
Non-condensing ambient humidity (max.):	95%

DIM800 Detector Input Module



The DIM800 is designed to power and monitor a circuit of low voltage conventional detectors and callpoints. The detection circuit is powered from an external 24V d.c. supply and is reset by the panel. The DIM800 monitors the external 24Vdc and provides a fault signal if it is lost.
The input detection circuit can be wired as one or two spur circuits (Class B), one loop configured circuit (Class A) or one 4 wire detection circuit. The module is designed to be compatible with most conventional detection products. Compatibility has been tested to date on the following products: M300 Series, M601 Series, S100 Series, H Series, S231F, S231F+ & CP200.

555.800.012	DIM800	Detector Input Module
555.800.042	DIM800	Detector Input Module c/w Cover

Technical data:

Mechanical Data	
Dimensions (W x H x D) with housing:	148 x 87 x 14 mm
Weight:	300 g
Electrical Data	
Voltage supply from the loop:	20–40 V DC
Current input In standby mode:	0.28 mA
Current Input voltage for auxiliary voltage:	21.9–26.4 V DC

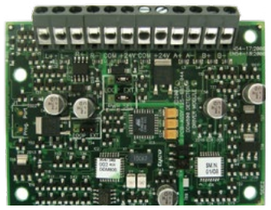
DIM800 Detector Input Module

The DIM800 is designed to power and monitor a circuit of low voltage conventional detectors and callpoints. The detection circuit is powered from an external 24V d.c. supply and is reset by the MZX addressable panel.

Technical data:

Ambient conditions	
Operating temperature:	-25°C to +70°C
Storage temperature:	-40°C to +80°C rel.
Humidity without condensation (max.):	95%

DDM800 Universal Fire and Gas Module



The DDM800 provides the ability to connect and interface 2 zones of conventional 2 wire fire detectors or two 4-20mA sensors to the ZETTLER fire alarm panels.
When used to interface conventional detection devices, Open & Short circuit and device removal monitoring is provided. Intrinsically safe (IS) detection is supported when used with a galvanic isolator An integral line isolator is incorporated in the module. Loop powered or 24vdc operation.
The 4-20mA interface can be used to monitor devices such as gas detectors, temperature alarms or any 4-20mA interfaced device.
The DDM800 is compatible with MZX Consys version 15 or later.

577.800.006	DDM800	Universal Fire and Gas Module
577.800.036	DDM800	Universal Fire and Gas Module w/c Cover
577.800.056	DDM800	Universal Fire and Gas Module housed in IP55 D800
557.800.057	557.800.057	Detector Removal End of Line Resistor (pack of 10)

Technical data:

Mechanical Data	
Dimensions (W x H x D) with housing:	148 x 87 x 14 mm
Weight:	300 g
Electrical Data	
Voltage supply from the loop	20–40 V DC
Current input:	
Current input In standby mode:	2.2 mA
In alarm mode (with LED):	7.7 mA
Input voltage for auxiliary voltage	21.9-29 V
Ambient Conditions	
Operating temperature:	-25°C to +70°C
Storage temperature:	-40°C to +80°C rel.
Humidity without condensation (max.):	95%

HVR800 High Voltage Relay Module

The HVR800 module is a non-addressable device which allows a low current mains rated relay to switch up to 10A. Alternatively a low voltage drive signal such as that provided by the RIM800 or 80 way mimic can be used to switch the integral mains relay via the opto-isolated input.

568.800.004	HVR800	High voltage relay
568.800.034	HVR800	High voltage relay housed in IP55 D800

Technical data:

Mechanical Data	
Dimensions (W x H x D) with housing:	42 x 26.5 x 74 mm
Switch element: Housing:	140 x 120 x 70 mm
Weight (without housing):	87.5 g
Electrical Data	
Possible switch voltages:	24 V DC, 24 V AC, 120 V AC, 240 V AC
Relay contact load:	Max. 10 A/240 V AC Max. 8 A/28 V DC
Ambient Conditions	
Ambient temperature in operation:	-25°C to +70°C
Non-condensing ambient humidity (max.):	95%

LIM800 Line Isolator Module

The LIM800 Ancillary Line Isolator Module is designed to be used on all ZETTLER addressable loops. It monitors the line condition and upon detection of a short circuit isolates the affected section whilst allowing the rest of the addressable loop to function normally. The LIM800 ensures that on a looped addressable system a short circuit fault cannot disable more detection devices than would be lost on a conventional non-addressable system.

545.800.004	LIM800	Ancillary Line Isolator Module
545.800.033	LIM800	Ancillary Line Isolator Module c/w Cover

Technical data:

Mechanical Data	
Dimensions (W x H x D) with housing:	148 x 87 x 14 mm
Weight (with housing):	100 g
Electrical Data	
Power input (loop)	
Standby current (max.):	80 µA
activated (max.)	3.5 mA
Wire diameter:	min. 0.6 mm_2 max. 1.5 mm_2
Ambient Conditions	
Ambient temperature:	-25°C to +70°C
Humidity without condensation (max.)	95%

MIM800 Mini-Input Module

The MIM800 is a small addressable module designed for monitoring a single input circuit. The MIM800 can monitor normally open or normally closed inputs and provides open and short circuit monitoring of the line. The MIM800 is designed for fitting in small devices such as flow switches, special detection devices and explosion proof callpoints. A variant of the MIM800 is used in all callpoints and pullstations.

555.800.001	MIM800	Mini-Input Module

Technical data:

Mechanical Data	
Material (housing):	Plastic, black
Dimensions (W x H x D):	48 x 57 x 13 mm
Weight:	22 g
Electrical Data	
Supply voltage from the loop:	20–40 V DC
Current input:	
In standby mode:	0.7 mA
In alarm mode:	6.25 mA
Ambient Conditions	
Ambient temperature Operation:	-25°C to +70°C
Non-condensing ambient humidity (max.):	95%

MIO800 Multi-Input Output Modules

The MIO800 is a general purpose interface module. It allows multiple input and output connections to be made between external equipment and the MZX Digital loop.
Three inputs and four outputs are provided. Each input and output can be programmed independently using the MZX Consys configuration tool to provide customised functionality.
An IP55 rated D800 style housing is used as the standard enclosure with the option of a DIN-rail mounting kit for in-cabinet installations.

555.800.065	MIO800 Multi-Input Output Module
557.201.303	Din Rail Mounting Kit

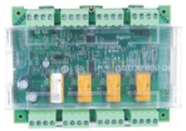
Features

- Normally open or normally closed inputs
- Inputs monitored for open or short circuit faults.
- STYLE B (short circuit gives an alarm) or STYLE C (short circuit gives a fault) selectable for inputs
- Provides four digital outputs
- All four outputs can drive a HVR800 module
- Two outputs have both volt free change over contacts and HVR Drivers

Technical data:

Mechanical Data	
Module	110 x 72 x 18 mm
Boxed	166.5 x 124.5 x 84.5 mm
Din rail kit	114 x 76 x 30 mm
Electrical Data	
upply voltage	
From the loop:	20–40 V DC
Current input (ring line) In standby mode:	0.7 mA
In alarm mode (with red LED):	6.25 mA
Contact load (max.):	2 A at 24 V DC
Inputs	
Line resistance:	330 Ω
Alarm resistance:	150 Ω
Max. line resistance:	40 Ω
Ambient Conditions	
Ambient temperature:	-25°C to +70°C
Non-condensing ambient humidity (max.):	95%

Quad Input/Output Module (QIO850)



The Quad Input/Output Module connects directly to the ZETTLER Digital loop and provides four change over relay outputs, four High Voltage Relay (HVR) outputs and four monitored inputs. It is loop powered and therefore does not need a power supply, however it can monitor the presence of a local 24Vdc or 48Vdc power supply.

555.800.071	QIO850	uad Input/Output Module

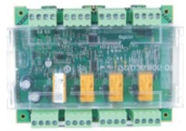
Features

- Four change over relay outputs
- Four monitored inputs
- Allows connectivity to four HVR drivers
- Inputs can monitor normally open or normally closed contacts
- The relay contacts are monitored
- Compact DIN rail mount design
- Built-in line isolators
- Status LED's provide rapid diagnostics
- Two way IR communication to the 850EMT
- Monitors input power supply
- VdS and CPD approved to EN54-17, EN54-18 and EN54-13

Technical data:

Mechanical Data	
Dimensions (W x H x D):	
Module:	103 x 134 x 49 mm
In Quad housing:	170 x 254 x 90 mm
Electrical Data	
Supply voltage:	18-30 V DC
Power consumption:	1.1 mA (standby), 5.9 mA (alarm)
Auxiliary voltage:	24 V DC, 48 V DC
Nominal switching capacity:	2 A, 30 V DC (ohmic load)
Max. switching power:	60 W, 125 VA (ohmic load)
Ambient Conditions	
Operating temperature:	-25°C to +70°C
Storage temperature:	-40°C to +80°C
Non-condensing ambient humidity (max.):	95%

QRM Quad Relay Module



The QRM850 Quad Relay Module provides four potential free relay changeover outputs. The outputs are monitored, with parallel contacts of the relays. The outputs can be connected to an Auxiliary Voltage source and its voltage can be monitored. All of the outputs are configurable to the HVR (High Voltage Relay) mode, which allows up to four HVR800 modules to be connected for switching. The module has an integral loop isolator.

555.800.073	QRM850	Quad Relay Module

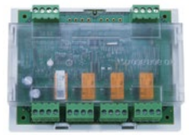
Features

- Four change over relay outputs each individually programmable for a wide range of applications
- Four HVR drivers. No need for a local power supply to switch 240Vac mains
- The relay contacts are monitored and users are alerted to "output stuck" conditions
- Uses 2 addresses when configured for 2 outputs
- Uses 4 addresses when configured for 4 outputs
- Compact DIN rail mount design
- Lower installation costs
- Built-in line isolators
- Status LED's provide rapid diagnostics
- Two way IR communication
- Monitors input power supply f
- VdS and CPD approved to EN54-17, EN54-18 and EN54-13

Technical data:

Mechanical Data	
Dimensions (W x H x D):	134 x 103 x 49 mm
Module:	103 x 134 x 49 mm
In Quad housing:	170 x 254 x 90 mm
Electrical Data	
Supply voltage:	20-40vDC
Power consumption:	0.58mA (quiescent); 3.6mA (Alarm)
Auxiliary voltage:	20-55 V DC
Relay Output:	2 A, 30 V DC
Ambient Conditions	
Operating temperature:	-25°C to +70°C
Storage temperature:	-40°C to +80°C
Humidity Non-condensing:	95% non-condensing

Quad Monitored Output Module (QMO850)



The Quad Monitored Output Module connects directly to the ZETTLER Digital loop and requires a 24Vdc or 48Vdc power supply. It provides four monitored outputs for connection to conventional sounder circuits or auxiliary relays.

555.800.070	QMO850	Quad Monitored Output Module

Features

- Four change over relay outputs each individually programmable for a wide range of applications
- Four HVR drivers. No need for a local power supply to switch 240Vac mains
- The relay contacts are monitored and users are alerted to "output stuck" conditions
- Uses 2 addresses when configured for 2 outputs
- Uses 4 addresses when configured for 4 outputs
- Compact DIN rail mount design saves space
- Lower installation costs than individual modules
- Built-in line isolators improve fault tolerance
- Status LED's provide rapid diagnostics
- Two way IR communication to the 850EM

Technical data:

Mechanical Data	
Dimensions (W x H x D):	
Module:	103 x 134 x 49 mm
In Quad housing:	170 x 254 x 90 mm
Electrical Data	
Supply voltage:	18-30 V DC
Power consumption:	2.1 mA (standby), 6.7 mA (alarm)
Auxiliary voltage:	24 V DC, 48 V DC
Nominal switching capacity:	2 A, 30 V DC (ohmic load)
Max. switching power:	60 W, 125 VA (ohmic load)
Ambient Conditions	
Operating temperature:	-25°C to +70°C
Storage temperature:	-40°C to +80°C
Non-condensing ambient humidity (max.):	95%

RIM800 Relay Interface Module

The RIM800 provides a single programmable relay output from the ZETTLER DIGITAL addressable loop which can be programmed for a variety of applications including signalling fire conditions to plant, machinery, fire doors, dampers & security systems. The RIM800 relay coil is monitored. The RIM800 relay contact is rated for 2A @ 24V d.c. but can be used to switch mains voltage when used with the HVR800. This unit has two opto-isolated terminals specifically for driving the HVR800.

568.800.003	RIM800	Relay Interface Module
568.800.033	RIM800	Relay Interface Module c/w Cover

Technical data:

Mechanical Data	
Dimensions (W x H x D) with Housing:	148 x 87 x 14 mm
Weight:	100 g
Electrical Data	
Supply voltage from the loop:	20–40 V DC
Current input in standby mode:	0.3 mA
In alarm mode (with red LED):	3 mA
Relay switching power:	30 V/2 A
Ambient Conditions	
Ambient temperature in operation:	-25°C to +70°C
Non-condensing ambient humidity (max.):	95%

SIO800 Single Input/Output Module

The SIO800 Single Input/Output Module is designed to provide a monitored input and a volt free relay changeover output. It consists of an input for monitoring the status of a normally open contact and a single changeover relay contact. The relay is controlled by a command sent from the Fire Controller via the addressable loop.
The state of the relay (activated,deactivated or stuck) is reported to the Fire Controller. The LED may be turned ON or OFF by the controller during a relay activated condition.

555.800.063	SIO800	Single Input/Output Module
555.800.064	SIO800	Single Input/Output Module c/w Cover

Technical data:

Mechanical Data	
Dimensions (W x H x D) with housing:	148 x 87 x 14 mm
Electrical Data	
Supply voltage from the loop:	20–40 V DC
Current input	
In standby mode (max.):	0.3 mA
in alarm mode (with red LED:)	3 mA
Line resistance:	3.3 kΩ
Alarm resistance:	680 Ω
Ambient Conditions	
Ambient temperature in operation:	-25°C to +70°C
Non-condensing ambient humidity (max.):	95%

SNM800 Sounder Notification Module

The SNM800 is a remote addressable sounder circuit output device capable of switching sounder and speaker circuits up to 2A @ 24V d.c. or provide a monitored output facility for other applications. These can be used in addition to the two circuits provided as standard on most ZETTLER detection panels. The SNM800 can support sounder circuits wired as a spur (Class B – Style Y) or in a loop configuration (Class A – Style Z). The SNM800 can be configured with a RIM800 to provide a secure monitored extinguishing release solenoid control.

577.800.005	SNM800	Sounder Notification Module
577.800.035	SNM800	Sounder Notification Module c/w Cover

Technical data:

Mechanical Data	
Dimensions (W x H x D) with housing:	148 x 87 x 14 mm
Electrical Data	
Supply voltage from the loop:	20–40 V DC
Current input	
In standby mode (max.):	0.5 mA
in alarm mode (with red LED:)	3 mA
Line resistance:	27 kΩ
Max. line resistance R	= 3 V/Imax (depending upon max. alarm current Imax)
Ambient Conditions	
Ambient temperature in operation:	-25°C to +70°C
Non-condensing ambient humidity (max.):	95%

TM520 Timer Module

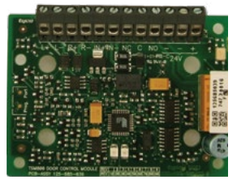
The TM520 provides two outputs that can be activated based on a delay time. If the key-switch on the module is activated or a predefined event within the control panel occurs, then a timed delay (Between 10 mins and 2 hours 10 mins) is started. When the delay reaches zero the TM520 outputs are activated. The unit sounds an internal buzzer and illuminates a red LED when the outputs are active and illuminates a yellow LED when the timer is counting down. The red LED and the buzzer will pulse 5 minutes before the end of the delay. The TM520 requires a separate 24V DC supply to operate. The module is not addressable and will therefore not take an address on the loop.

557.180.423	TM520	Timer Module–Non Addressable

Technical data:

Mechanical Data	
Dimensions (W x H x D) PCB with Housing:	148 x 87 x 14 mm
Electrical Data	
Supply voltage (external)	24 V DC
Ambient Conditions	
Ambient temperature in operation:	-25°C to +70°C
Non-condensing ambient humidity (max.):	95%

TSM800 Door Control Module



The TSM800 is used to control fire doors in accordance with BS7273 Part 4. When activated, either by a fire signal or by a fault or isolation within the fire door zone, the TSM800 will interrupt the supply to the door holders and the doors under control of the module will close. The module has the provision to monitor a contact to report to the fire controller if the door fails to close. The module also includes a built-in line isolator. This module requires MZX Consys 10 or later to function.

555.800.069	TSM800	Door Control Module

Technical data:

Mechanical Data	
Dimensions (W x H x D) with housing:	148 x 87 x 14 mm
Weight:	100 g
Electrical Data	
Supply voltage from the loop:	20–40 V DC
External power supply:	24 V DC
Power Input (loop)	
In standby mode:	0,425 mA
In alarm mode (with red LED):	3 mA
Contact loading:	Max. 2 A on 24 V DC
Inputs	
Line resistance:	3.3 kΩ
Alarm resistance:	680 Ω
Relay Output	
Max. switching voltage:	30 V DC
Max. switching current:	2 A
Response Values for Self-Monitoring	
No communication:	45 ± 5 s
Line voltage:	< 19 V
Ambient conditions	
Ambient temperature:	-25°C to +70°C
Storage temperature:	–40°C to +80°C

Addressable MZX Ancillary Housings

A variety of ancillary housings are available to fit the 800 Series MZX ancillaries. The standard sized modules are mechanically compatible with all options. LPCB approvals are with the M520 double gang cover plate or ancillary housings. The M520 double gang cover provides external access for the MZX SERVICE TOOL to plug into the ancillary module which is mounted in the cover. All options allow the ancillary to be programmed and tested when the cover is removed.

M520 Ancillary Cover

M520 Ancillary cover for use with 800 series modules. Will fit onto a MK style double gang back box.

517.035.007	M520	Ancillary Cover

Technical data:

Mechanical Data	
Dimensions (W x H x D)	148 x 87 x 14 mm

D800 IP55 Ancillary Housing

D800 IP55 ancillary housing (140W x 120H x 70D mm) incorporates a window to view the module LED.

557.201.401	D800	IP55 Ancillary Housing

Technical data:

Mechanical Data	
Dimensions (W x H x D)	140 x 120 x 79 mm

IP66 Housing for Quad I/O Modules

A polystyrene/polycarbonate IP66 rated housing prefitted with a din rail for mounting Supplied with M20/M25/M32/M40 cable entry knockouts.

557.201.410	IP66 Housing for Quad I/O Modules

Technical data:

Mechanical Data	
Dimensions (W x H x D) PCB:	254 x 170 x 90
Weight:	0.8 kg
Ambient Conditions	
Operating temperature:	-20°C to +75°C rel.
Humidity (non-condensing):	h–95%
IP rating:	IP66

D800 IP55 Ancillary Housing

D800 IP55 ancillary housing (140W x 120H x 70D mm) incorporates a window to view the module LED.

557.201.401	D800	IP55 Ancillary Housing

Technical data:

Mechanical Data	
Dimensions (W x H x D)	140 x 120 x 79 mm

ANC-8 Ancillary Housing

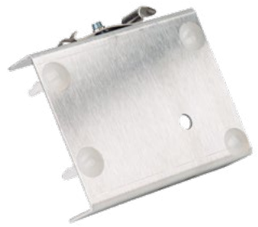
ANC-8 ancillary housing for use with M800 ancillary modules, houses 8 modules.
Dimensions 440W x 320H x 140D mm

557.180.096.A	ANC-8	Ancillary housing

Technical data:

Mechanical Data	
Dimensions (W x H x D)	440x 320 x 140 mm

DIN Rail Mounting Bracket



DIN Rail mounting bracket enables any module which can be mounted to a M520 ancillary cover to be DIN rail mounted using this bracket.
Clip-on PCB mounting pillars are included. Will fit standard 35mm DIN Rail bracket.

547.004.002	DIN	Rail mounting bracket

Technical data:

Mechanical Data	
Dimensions (W x H x D)	88 x 76 x 23 mm

QFB/2 Dry Lining Flush Mount Backbox

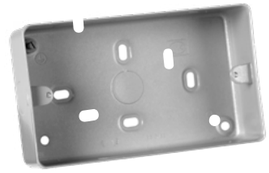
QFB/2 Dry lining flush mount (for plasterboard etc) MK backbox for use with 800 Series addressable ancillaries using 517.035.007 cover.

517.035.015	QFB/2	Dry Lining Flush Mount MK backbox

Technical data:

Mechanical Data	
Dimensions (W x H x D)	146 x 85 x 38 mm

K2214 ALM Metal Surface Mount Backbox



K2214 ALM Metal surface mount MK backbox for use with 800 Series addressable ancillaries using 517.035.007 cover.

517.035.011	K2214 ALM	Metal Surface Mount MK

Technical data:

Mechanical Data	
Dimensions (W x H x D)	146 x 86 x 40 mm

K2142 White Plastic Surface Mount Backbox

K2142 White plastic surface mount MK backbox for use with 800 Series addressable ancillaries using 517.035.007 cover.

517.035.010	K2142	White Plastic Surface Mount MK Backbox

Technical data:

Mechanical Data	
Dimensions (W x H x D)	146 x 86 x 34 mm

8621C Steel Flush Mount Backbox

8621C Steel flush mount MK backbox for use with 800 Series addressable ancillaries using 517.035.007 cover.

517.035.014	8621C	Steel Flush Mount MK Backbox

Technical data:

Mechanical Data	
Dimensions (W x H x D)	132 x 72 x 26 mm

Software Tools and Accessories

850EMT Engineering Management Tool

The engineering management tool communicates with the 850 series and 830 series devices using a 2 way infrared wireless link.
Commissioning data is held within the 850 EMT and the technician will be prompted to select and confirm configuration details resulting in an evidence based commissioning document that can be downloaded from the programmer.

516.850.900	850EMT	Engineering Management Tool
516.800.922	Spare Ancillary Programming Lead	
516.800.924	Pack of 10 Spare Pins for Ancillary Lead	

Technical Information

- S2 way wireless infrared communication with detector
- TFT colour touch screen display
- Save time with One Visit Commissioning (OVC)
- Facilitates evidence based commissioning
- Read/write the detector/ancillary address
- Display and confirm zone and point strings
- Display temperature/ CO levels / smoke obscuration
- Programme the device LED
- Initiate detector self verification test
- Display detector dirtiness level
- Control ancillary outputs
- Read ancillary statuses
- Compatible with all 800 series devices

Features

- Simplifies installation and commissioning
- Reduces the possibility of engineer error
- Improves health and safety by removing the need to work at height
- Provides peace of mind through evidence based digital reporting

Technical data:

Mechanical Data	
Material:	FR-ABS
Colour:	Yellow-orange
Dimensions (W x H x D):	205 x 117 x 48 mm
Weight:	400 g
Weight incl. batteries:	550 g
Electrical Data	
Batteries:	4 x 1.2 V Mignon cells (AA), NiMH rechargeable
Operating time:	Up to 15 hrs
Ambient Conditions	
Operating temperature:	0°C to +45°C
Rel. humidity (noncondensing):	10–90 %

Accessory kit (Carry case, shoulder strap & car 12v adaptor)

A carry case which contains the following items:
- Car Lighter Adapter
- Shoulder Strap

This provides space for the following:
- 850EMT Engineer Management Tool
- Ancillary Programming Lead
- Mains Charger

516.800.923	Accessory Kit (Carry Case, Shoulder Strap & Car 12v Adaptor)

MZX AVR Programmer

This unit will allow the MZX Technology® Fire Controller Loop Drivers to be updated to the latest software version. When required, upgrades can be performed easily and quickly in the field with minimal system downtime. The MZX AVR Programmer is designed for use with MX,MZX,ZX and T2000 addressable fire controllers, please check document 17-05-AVR for compatibility details.

516.800.942	AVR	AVR Programmer Epsilon 5-MK4 Base

Features
- Pre-Programmed with latest AVR firmware
- Powered from XLM Loop card or FIM, No external power required
- Simple to operate
- Compact handheld device
- Complete with ribbon cable and connector
- High Speed USB port
- Increased RAM increases speed of operation

Technical data:

User Interface:	2 Button Keypad
LEDs:	3 Status LEDs
Operating Temp:	0°C to 50°C
Dimensions:	189H x 80W x 31D mm

Consys Programming Software

MZXConsys is a powerful Windows programming tool which provides full system programming functions and project configuration and issue control. MZXConsys is used on The PROFILE Flexible, Profile, MZX & ZX panels.
It also supports automatic data transfer to the TXG graphical mimic and alarm management systems. MZXConsys is available under document control from authorised personnel in the Johnson Controls businesses.

Features
- Programs the system across multiple sub-panels
- Downloads to the system from one point
- Provides Firmware download as well as configuration download
- Dongle protected
- Provides full project configuration printouts.

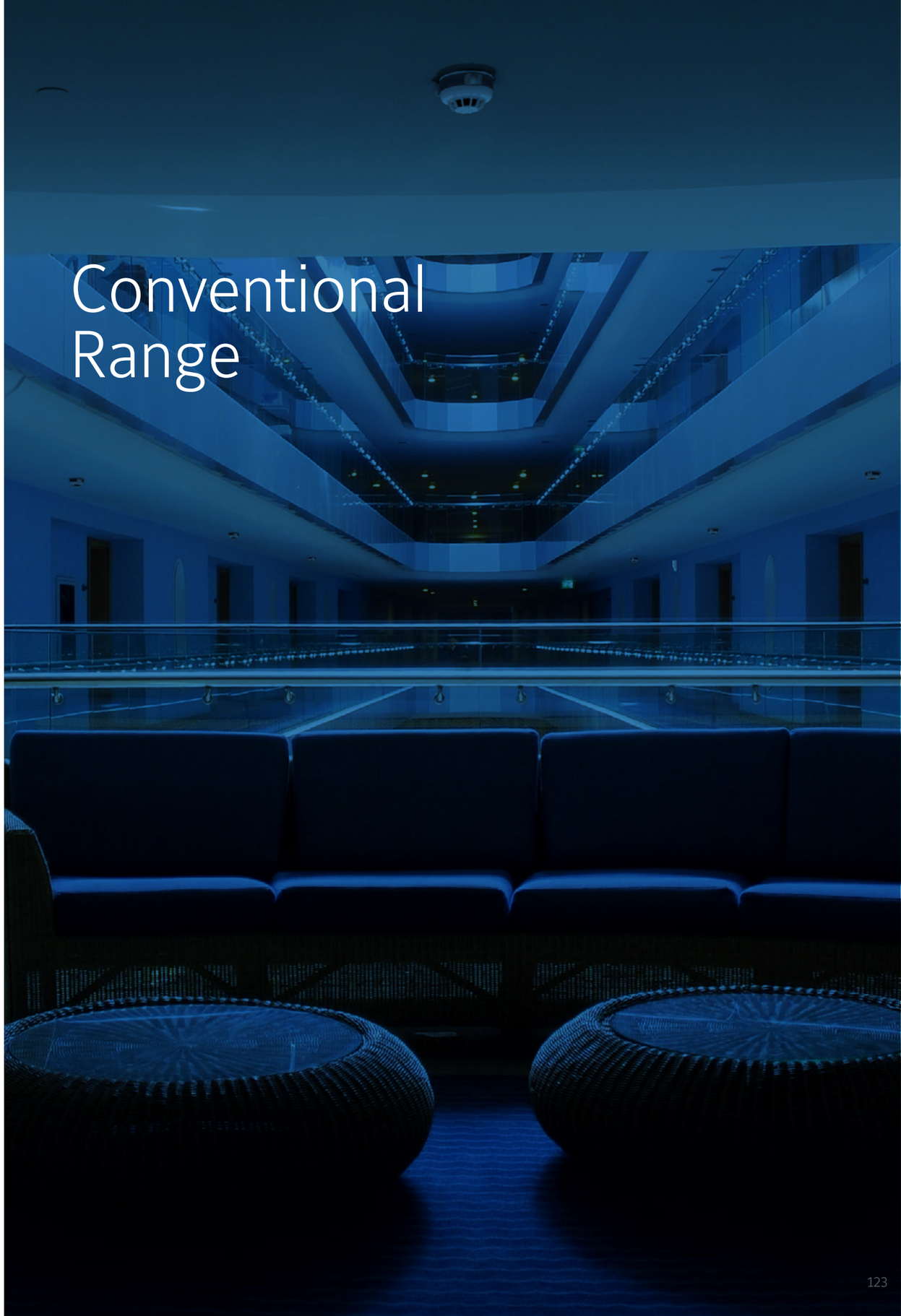
557.203.033	MZXConsys	USB Dongle & License
557.202.118	MZXConsys	Download Lead

MXRemote

MXRemote is a Windows based software tool for remote service and support of PROFILE and MZX detection panels. MXRemote provides a full function fire panel repeater running on a PC either locally or over dial up telephone lines or via the internet.

Features
- Facilitates remote diagnostics
- Display identical to panel view
- Remote Assistance

557.203.004	MXRemote	Dongle and License (USB)



Conventional Range

Control Panels

The MZX range of conventional panels supports simple class-change for use in schools, and two stage alarm outputs where phased evacuation is a requirement.
Repeater panel options are available as are a comprehensive range of detectors, call points and sounders and beacons.

Releasing Panels

The MZX-e extinguishing control panel is powerful yet user friendly and is designed and manufactured to a high standard. The panel has extensive configuration options but is easy to install, programme and operate. There is a comprehensive range of accessories available to meet most customer requirements.

Detectors

The MZX range of Conventional detectors, although not as intelligent as their addressable namesakes, employs similar excellent detection and anti-false alarm features.
The range includes Multisensors, optical/heat and carbon monoxide/heat, in addition to single channel optical smoke, rate of rise and fixed temperature heat, ionisation chamber and infra-red flame detectors.

All detectors within this range can be fitted to a standard or sounder base or a diode continuity base. The detector range is further enhanced by a range of detector ancillaries including: false ceiling mounting adaptor, conduit mounting adaptor, waterproof mounting adaptor, protective cage and remote LED indicator allowing installation into a variety of areas and conditions.

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 alarm led. In addition to that, the range includes manual DIN call points for inside and outside use.

Sounders and Beacons

A comprehensive range of conventional sounders, visual alarm devices and visual indicating devices is available to be used with conventional fire detection panels or with addressable systems.

Conventional Panels

Conventional Panels

MZX-c+ Conventional Panel

The MZX-c+ range of Conventional Control Panels are designed to be both installer and user friendly. They are designed and manufactured to a high standard and are approved by BSI.
These Panels are available in 4,8,16 & 32 zone versions along with suitable Repeaters for all models.
The 8 to 32 Zone Panels are capable of driving any combination of 8 channel output expansion boards, relays, alarm circuits & open collector 0v outputs, up to a maximum of 12 boards which can be set to zonal activated or common output modes.
Each Panel has extensive configuration options but remains easy to install, program and operate and are supported by detailed documentation on commissioning, operation and maintenance.
The Panels are designed to work with a wide range of manufacturer's detectors (in addition to Tyco detectors) and are suitable for use in many types of installation including upgrades and new installations.

Features

- 4, 8, 16 and 32 zone versions available
- Semi-Flush mounting using optional bezel
- Supports the complete range of EN54 approved Series 600 detectors including photo multi-sensor and CO multi-sensor
- Compatible with System 620 ATEX and IECEx approved intrinsically safe system
- Extensive custom options programmable via switches and front panel controls
- Two stage alarms and investigate delay options
- Day/Night modes and alarm counter (with optional timer module)
- Full EN54 zone operation with options for non-latching, short circuit alarm or indication only circuits

508.032.002.EA	MZXC+ 4 Zone Panel English/Arabic
508.032.003.EA	MZXC+ 8 Zone Panel English/Arabic
508.032.004.EA	MZXC+ 16 Zone Panel English/Arabic
508.032.005.EA	MZXC+ 32 Zone Panel English/Arabic
508.032.006.EA	MZXC+ 8 Zone Repeater 240 Vac English/Arabic
508.032.007.EA	MZXC+16 Zone Repeater 240 Vac English/Arabic
508.032.008.EA	MZXC+ 32 Zone Repeater 240 Vac English/Arabic

Additional Benefits

- Inputs for remote Silence, Evacuate, Reset and Class change
- Configurable monitored or volt free outputs for Fire, Fault and Protection
- Outputs for zones 1 to 4 (open collector) with 8, 16 or 32 zonal outputs provided by optional expansion boards
- Outputs for Disablement active, Evacuate active and buzzer active (open collector)
- Volt free reset relay. Active for 10 seconds following a panel reset
- 8 to 32 zone systems can drive up to 12 expansion input / output modules per panel
- Drive up to 5 repeater panels

MZX-c+ Conventional Panel

Technical data:

	Panels				Repeaters		
	2 Zone	8 Zone	16 Zone	32 Zone	8 Zone	16 Zone	32 Zone
Electrical							
Mains Supply:	230 Vac +10%–15%						
Power Consumption:	85 W	165 W	165 W	240 W	85 W	85 W	85 W
PSU / Charger Output;	1.5 A	3.0 A	3.0 A	5.0 A	1.5 A	1.5 A	1.5 A
Sounder Circuits 24 Vdc nominal:	4 @ 500 mA	4 @ 1 A	4 @ 1 A	4 @ 1 A	N/A	N/A	N/A
Aux. DC Output 24 Vdc nominal:	500 mA	1 A	1 A	1 A	N/A	N/A	N/A
Maximum Battery Space:	2 x 3 Ah	2 x 7 Ah	2 x 12Ah	2 x 17 Ah	2 x 3 Ah	2 x 3 Ah	2 x 3 Ah
Environmental							
Operating Temperature:	-5 to +40oC						
Operating Humidity:	5% to 95% non-condensing						
Mechanical							
Dimensions (WxHxD mm):	25 x 370 x 126			400 x 441 x 131	325 x 370 x 126		400 x 441 x 13
Space for 8 way expansion:	N/A	2 Boards	2 Boards	Use Exp Hsg	N/A		
Weight Excl. Batteries Kg:	6.2	7.1	7.1	10.25	6.2	6.2	7.6
Enclosure Colour:	RAL7035 Light Grey						

MZX-e Extinguishing Panel

Features

- Approval to BS EN 12094-1:2003 additional options
- Approval to BS EN 54-2 and 4
- Designed to BS7273-1:2000
- Comprehensive gaseous extinguishing system support
- Monitored inputs for gas discharged, gas low, isolation valve closed/abnormal, gas trapped in manifold
- Control inputs for auto/manual, gas hold, gas abort
- 1 minute actuator cut off option
- Monitored actuator/solenoid release
- Extensive disablement options
- Common fire, fault, relay / monitored output facilities
- 1st, 2nd, 3rd stage and gas discharged relay /monitored output facilities
- Reset relay facilities
- Intrinsically safe barrier settings
- Metron or solenoid compatible
- Single or double knock operation
- Pre-discharge delay adjustable from 0 to 60 seconds
- Discharged indication with or without pressure switch
- Inhibit silence alarms until gas discharged
- Latching or non latching fault indication option
- Option for rapid buzzer pulse when gas discharge is imminent
- One man zone and sounder test

The MZX-e extinguishing control panel is powerful yet userfriendly and is designed and manufactured to a high standard.
The panel features approval to EN 12094- 1:2003, EN 54-2 and 4 and is designed to BS 7273 part 1. The panel has extensive configuration options but is easy to install, programme and operate. The removable chassis enables the engineer to "first fix" an empty cabinet and then fit the chassis at the commissioning stage. There is a comprehensive range of accessories available to meet most customer requirements.

Operation

Three fully-monitored detection zones are provided. Zones 1 and 2 normally provide first stage and second stage fire conditions to allow extinguishant discharge (coincidence detection zones). Zone 3 is an auxiliary zone for detection only purposes. Zone 4 is used as a manual release zone.

Facilities

Three fully-monitored alarm circuits are provided, each rated at 0.5A with various configuration options via the engineers DIL switch settings. Two circuits are designed to provide audible warning of any fire condition and one circuit to provide an individually distinct audible warning of the pre-discharge, discharged and emergency hold condition. Two fully-monitored actuator/solenoid circuits, each rated at 1A, operate simultaneously upon "extinguishant release". An RS485 multidrop circuit link supports up to 7 Status Controller/Indicators of any type mixed on the communication path. Additional terminals and configuration options allows the engineer to configure the manual release, abort and hold switches to either data comms or hard wired inputs as required. Normally-open inputs provide for remote evacuate, silence alarms, system reset, lock-off input, low pressure and gas discharged pressure switch input.
Outputs are provided for first stage signalling, second stage signalling, system discharged, common fire and common fault. These outputs may be configured as either Volt-Free C/O contacts or monitored 24 V (50 mA) outputs. A system reset Volt-Free relay is also provided.

Configuration

The use of DIL switches on the internal motherboard enables the engineer to easily configure the extensive options available and view the panel's configuration upon any return visit.

508.033.050.EA	MZX-e Extinguishing Control Panel English / Arabic

For Technical Data please see next page.

Extinguishing Panels and Accessories

MZX-e Extinguishing Panel

Technical data:

General	
Number of conventional Alarm Lines:	2 lines for automatic alarm in fireextinguishing area
	1 line for automatic alarm in general zone
	1 line for manual activation
Number of detectors on each line:	max. 32 (in acc. with type of alarm)
Monitored inputs for extinguishing components:	8
Monitored alarm-raising outputs:	1 x fire-fighting alarm, 2 x general alarm
Monitored outputs for fextinguishing control:	2
Monitored outputs:	6 pot. free
Output ext. Reset:	1 pot. free
Supply outputs:	1 x 24 V DC/250 mA, 1 x 24 V DC/1A
Mechanical data	
Dimensions (H x W x D):	370 x 325 x 126 mm
Weight (without batteries):	4.85 kg
Colour:	Light grey, RAL 7035 fine texture, matt
Ambient conditions	
Operating temperature:	-5°C to +40°C
Relative humidity (noncondensing):	5–95%
Electrical data	
Supply voltage:	230 V AC, 50/60 Hz
Input current:	1.6 A
Batteries:	2 x 12 Ah

SLU1 Status Lamp Unit

Features
- Two core data link between panel and status unit
- Two core power connection between panel and status unit
- Indication of events/status only unit

508.033.002.EA	SLU1 Status Lamp Unit, Indication only English / Arabic

SLU2 Status Lamp Unit

Features
- Two core data link between panel and status unit
- Two core power connection between panel and status unit
- Indication of events/status
- Manual Release
- Auto/Manual Keyswitch

508.033.003.EA	SLU2 Status Lamp Unit, Indication, Auto/Manual Select English / Arabic

SLU3 Status Lamp Unit

Features
- Two core data link between panel and status unit
- Two core power connection between panel and status unit
- Indication of events/status
- Manual Release
- Auto/Manual Keyswitch
- Countdown timer
- Abort and hold off switch

508.033.004.EA	SLU3 Full Function Status Lamp Unit, Indication, Auto/Manual Select, Manual Release, Hold, Abort & Time Counter English / Arabic

SLU4 Status Lamp Unit

Features
- Two core data link between panel and status unit
- Two core power connection between panel and status unit
- Weatherproof
- Indication of events/status
- Auto/Manual Keyswitch

508.033.005.EA	SLU4 Weatherproof Status Lamp Unit, Indication and Auto/ Manual Select English / Arabic

Releasing Callpoints

This range of EN12094-3:2003 approved conventional extinguishing call points is ideal for use with integrating gas extinguishing systems for the protection of high value assets
in both commercial and industrial markets. The call points can be used as part of a system to efficiently manage the release of any extinguishing gas in accordance with EN12094-3:2003.
The conventional range of call points is designed for indoor (IP24D) and outdoor (IP67) applications making it suitable for a broad range of installation environments where water and dust are likely to be present.

509.030.113	Extinguishant Release Indoor
509.030.114	Extinguishant Release Outdoor
509.030.115	Extinguishant Abort Indoor
509.030.116	Extinguishant Abort Outdoor
509.030.121	Extinguishant Hold Off Manual Callpoint

Features
- First-fix functionality saves commissioning time.
- Easy cable access simplifies installation.
- Range of installation options, for indoor (IP24D) and outdoor (IP67) applications.
- Independently verified by Bureau Veritas to EN12094-3:2003
- High quality materials maximize operational life
- Modern aesthetics and compact design with antitamper features

Technical data:

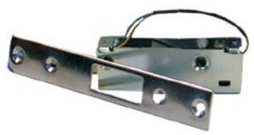
Mounting:	Surface
Operating temperature range:	
Indoor version:	-10oC to 55oC
Outdoor version:	-25oC to 70oC
Relative humidity	93% +3% non condensing
IP rating:	IP24D (Indoor version), IP67 (Outdoor version)
Maximum voltage	30 VDC
Current rating (switch only)	2 Amps
Cable termination	0.5-2.5 mm^2
Materials	PC/ABS

Weatherproof Extinguishing Indicator Units

Heavy Duty IP67 Cast Aluminium Surface Mount Lamp Unit Three 24 Vdc lamps:
- Red labelled 'Extinguishing System Operated
- Amber labelled 'Extinguishing System Automatic Control'
- Green labelled 'Extinguishing System Manual Control

540.007.002	E3 Red/Amber/Green Lamp Unit

Extinguishing Door Interlock Ancillaries



A microswitch lock keep can be used with a deadlock to provide a signal to the panel to ensure that the extinguishing system is only put into Automatic mode when the door is locked shut.

527.001.028	Micro-Switch Lock Keep & Back-Plate

Conventional Detectors, Bases and Accessories

Conventional Detectors, Bases and Accessories

Point Detectors

Features

- Designed for fast, easy installation
- Low operational voltage
- Available in 5 variants: Optical, Heat 60°C & 90°C, RoR Heat, Optical & Heat
- Backward compatibility with 600 series
- Compatible with 4"B-D, 4B and 5B bases
- Low profile and discreet design
- Built-in microprocessor offering improved algorithms and drift compensation

The 700 Series of detectors are microprocessor-based conventional detectors and have been designed to act as a drop-in replacement for, and are backwards compatible with, the equivalent legacy 600 Series.
These intelligent, conventional detectors come with built-in drift compensation in the P and PH variants. Once the drift compensation limit has been reached, i.e. the detector has become too dirty to operate at the nominal sensitivity, the detector will automatically adjust the sensitivity to allow it to continue operating.
Each detector comes with its own built-in micro-processor offering advanced algorithms, resulting in the same detection performance and false-alarm rejection as the latest Gen6 detectors.
The PH detector is approved to EN54-29, a multi-sensor standard for smoke and heat. This is the first conventional detector from JCI to be approved to this non-harmonised standard.

Optical Smoke Detector

Features

- Designed for fast, easy installation
- Low operational voltage
- Backward compatibility with 600 series
- Compatible with 4"B-D, 4B and 5B bases
- Low profile and discreet design
- Built-in microprocessor offering improved algorithms and drift compensation
- Approval to EN54 Part 7, LPCB

The 701P smoke detector operates by sensing the optical scatter from smoke particles generated in a fire. The micro-processor inside the detector allows for threshold compensation, meaning the detector will adjust sensitivity levels to compensate for dust and dirt levels in the chamber, resulting in fewer unwanted alarms and an extended detector life.

516.900.001	701P	Optical smoke detector

Technical data:

Mechanical Data	
Detector material:	Outer cover: white flame retardant PC-ABS
Dimensions:	Diameter 108 mm, Height 42 mm (55 mm with a 4B base)
Colour:	RAL9016 Traffic White
Weight:	92 g (without base)
Electrical Data	
Voltage:	10.5 – 33v (24v typical)
Quiescent Current:	50 µA
Alarm Current:	65mA at 30V, 35mA at 20V, 12.5mA at 12v
Environmental Conditions	
Operating Temp:	-20°C to +70°C
Storage Temp:	-25°C to +80°C
Should be Humidity:	95% non-condensing

Optical and Heat Detector

Features

- Designed for fast, easy installation
- Low operational voltage
- Backward compatibility with 600 series
- Compatible with 4"B-D, 4B and 5B bases
- Low profile and discreet design
- Built-in microprocessor offering improved algorithms and drift compensation
- Approval to EN54 Part 7 and Part 29, LPCB

The 701PH optical and heat detector operates by sensing the optical scatter from smoke particles generated in a fire, and a rapid rate of rising temperature increases the smoke detection sensitivity for normal ambient conditions, the high performance optical detector behaves as a normal optical detector. The 701PH is approved to EN54-29, a multi-sensor standard for smoke and heat.

516.900.002	701PH–Optical and Heat detector

Technical data:

Mechanical Data	
Detector material:	Outer cover: white flame retardant PC-ABS
Dimensions:	Dia.108 mm, Height 42 mm (55 mm with a 4B base)
Colour:	RAL9016 Traffic White
Weight:	92 g (without base)
Electrical Data	
Voltage:	10.5 – 33v (24v typical)
Quiescent Current:	60 µA
Alarm Current:	65mA at 30V, 35mA at 20V, 12.5mA at 12v
Environmental Conditions	
Operating Temp:	-20°C to +70°C
Storage Temp:	-25 to +80°C
Should be Humidity:	95% Non-Condensing

Heat Detector

70x-H Series heat detectors includes rate-of-rise and 60°C and 90°C fixed temperature types. These detect abnormally high rates of rising temperature and high temperatures of 60°C and 90°C, respectively.

516.900.003	701H	Heat detector, Rate of Rise
516.900.004	702H	Heat detector, Fixed, 60°C
516.900.005	703H	Heat detector, Fixed, 90°C

Technical data:

Mechanical Data	
Detector material:	Outer cover: white flame retardant PC-ABS
Dimensions:	Dia.108 mm, Height 42 mm (55 mm with a 4B base)
Colour:	RAL9016 Traffic White
Weight:	81 g (without base)
Electrical Data	
Voltage:	10.5v-33v (24v typical)
Quiescent Current:	37µA
Alarm Current:	65mA at 30V, 35mA at 20V, 12.5mA at 12v
Environmental Conditions	
Operating Temp:	-20°C to +70°C (701H & 702H) -20°C to + 80°C (703H)
Storage Temp:	-25 to +80°C
Should be Humidity:	95% non-condensing

Enhanced Carbon Monoxide Fire Detector

The CO fire detector is a unique general purpose fire detector which provides very early warning of slow smouldering fires. Ideal for sleeping risks, the CO fire detector is also well suited to many applications where heat detection is insufficient but smoke detection causes false alarms. As CO travels more freely than smoke the position of CO fire detectors is more flexible.
This feature is particularly useful in large complex structures such as atria and warehouses, where position of smoke detectors is difficult.

516.600.004	601CH	Enhanced Carbon Monoxide Detector

Features

- Unique early detection enhanced CO fire detector
- Intelligent Universal HPO Smoke Detector
- Low profile, discreet and unobtrusive
- Superior performance and reliability
- Designed for fast, easy installation
- Integral and remote alarm LED
- Series of Product Approvals

Technical data:

Mechanical Data	
Detector material:	FR3010 Bayblend
Dimensions:	Dia.109mm
Colour:	RAL9016 Traffic White*
Weight:	90 g (Excluding Base)
Electrical Data	
Voltage:	10.5–33 Vdc
Quiescent Current:	87µA
Alarm Current:	53 mA
Environmental Conditions	
Operating Temp:	-10 °C to +55 °C
Storage Temp:	–20 to +55°C
Should be Humidity:	95/98% Non-Condensing

Solar Blind Infrared Flame Detector

Flame detectors, unlike smoke and heat detectors, do not rely on convection to transport the fire product to the detector, nor do they rely on a ceiling to trap the products. They can therefore be used to protect large open areas without sacrificing speed of response to flaming fires. In order to ensure full coverage, however, flame detectors do require direct line of sight to all parts of the protected area.
Infra-red flame detectors such as the 601F are designed to respond rapidly to fires which involve Clean burning fuels such as alcohol or methane, ie fires which would not be detected by smoke detectors. The 601F Flame detector, by virtue of its operating wavelength and flicker discrimination, is insensitive to normal environmental influences.
The 601F flame detector should, normally, only be used inside buildings to supplement heat and smoke detectors.

516.600.006	601F	Solar Blind Infra Red Flame Detector

Technical data:

Mechanical Data	
Detector material:	FR3010 Bayblend
Dimensions:	Dia.109mm
Colour:	RAL9016 Traffic White*
Weight:	74 g (Excluding Base)
Electrical Data	
Voltage:	18-28Vdc
Quiescent Current:	300µA
Alarm Current:	42 mA
Environmental Conditions	
Operating Temp:	-20°C to +70°C
Storage Temp:	-25 to +80°C
Should be Humidity:	90% RH continuous (non-condensing) and up to 99% RH intermittent

601 Remote Indication LED

The 601RIL Remote Indicator is used where a detector LED is not visible i.e., when the detector is mounted in a roof void, lift shaft etc.

540.003.006	Remote Indication LED

Technical data:

Mechanical Data	
Dimensions (W x H x D):	86 x 86 x 16 mm
Ambient conditions	
Operating Temperature:	-20 to +70 °C
Storage Temperature:	-45 to +80 °C
Relative Humidity:	95% (non condensing)
Current consumption Standby:	0 Alarm: 5.43 mA

4B-D 4" Diode Continuity Base

The 4B-D Continuity Base is a standard 4 inch base fitted with a continuity diode, for use with all Series 600 detectors. The base is designed to ensure that conventional systems meet the requirements of BS5839 Pt:1 for callpoints placed after detectors.

Features

- Compatible with Series 600 Low Profile Detectors
- Designed for two wire operation
- Facility to drive a remote indicator
- A breakout locking key is provided as an integral part of the base. It can be used to lock the detector into position
- A temporary park position is provided so that the field wiring can be tested with the detector in situ
- Maybe fitted directly to a British or European conduit box or directly onto the ceiling

517.050.045	4B-D 4" Diode Continuity Base

601SB & 601SBD Conventional Sounder Bases

A new low current range of sounder bases for use with Conventional Fire Alarm Control Panels.

Features

- Manufactured to EN54 part 3
- Integral sounder and detector base
- Volume and tone adjustable after installation
- Low Power Synchronisation
- Do not require use of a standard base (maybe installed directly onto a standard besa box)

577.001.035	601SB Conventional Sounder Base
577.001.036	602SB 2 Wire Line Powered Sounder Base
577.001.037	601SBD Conventional Diode Sounder Base
577.001.038	602SBD 2 Wire Line Powered Diode Sounder Base
517.050.015	Volume Adjustment tool

MC600 Relay Base

The 600 Series relay base provides dual relay contacts for signaling external devices on conventional detection systems. Very low operating current even when the relay is energised, enable the relay base to be used without additional power. The relay contacts operate when the detector enters the alarm condition.

568.001.018	MC600	Relay Base

Features

- Dual pole 24Vdc relay contact (60VA).
- Status indicator LED.
- Low power consumption (<20µA except start up).
- Latching operation.
- Can be used instead of a standard base.
- Requires diode fitting if used in place of a diode base

Conventional Callpoints

Conventional MCP200 Callpoint

The MCP200 is a red indoor callpoint with 'alert' resistors and LED indicator.
The MCP200 is LPCB approved.

514.001.142.Y	MCP200 No Backbox–Tyco Brand

Technical data:

Mechanical Data	
Housing material:	ABS plastic
Dimensions (W x H x D):	89 x 93 x 27.5 mm
Colour:	Red, Ral 3001
Weight:	110 g
Ambient conditions	
Ambient temperature in operation:	-10°C to +55°C
Humidifiers without condensation (max.):	95%

Conventional MCP210 Callpoint

The MCP210 is a red indoor callpoint with LED indicator and evacuate resistors. The MCP210 is LPCB approved.

514.001.143.Y	MCP210 No Backbox–Tyco Brand

Technical data:

Mechanical Data	
Housing material:	ABS plastic
Dimensions (W x H x D):	89 x 93 x 27.5 mm
Colour:	Red, Ral 3001
Weight:	110 g
Ambient conditions	
Ambient temperature in operation:	-10°C to +55°C
Humidifiers without condensation (max.):	95%

Conventional MCP230 Callpoint

The MCP230 is a IP67 red outdoor callpoint with"alert" resistors and LED indicator and is LPCB approved.

514.001.110.Y	MCP230 Tyco Branded

Technical data:

Mechanical Data	
Housing material:	ABS plastic
Dimensions (W x H x D):	97.5 x 93 x 73 mm
Colour:	Red, Ral 3001
Weight:	240 g
Ambient conditions	
Ambient temperature in operation:	-30°C to 70°C
Humidifiers without condensation (max.):	95%

MCP270 Conventional Callpoint

The MCP270 is a yellow indoor callpoint evacuate resistor, with LED. Complete with back box.

514.001.114	MCP270	Yellow Conventional Callpoint Evacuate Resistor With LED Complete With Backbox

Technical data:

Mechanical Data	
Housing material:	Front–PC/ABS, Backbox–Glass Reinforced (GFN2)
Dimensions (H x W x D):	93 x 89 x 59.5mm
Colour:	Yellow
Weight:	110 g
Ambient conditions	
Ambient temperature in operation:	-10°C to +55°C
Humidity:	95%

MCP211 Conventional Callpoint

The MCP211 is a yellow, indoor callpoint evacuate resistor, with LED. For use with MZX-c panels only. Back box not included.

514.001.160.Y	MCP211	Conventional Callpoint Evacuate Resistor With LED Without Backbox For Use With MZX-c Panels Only

Technical data:

Mechanical Data	
Housing material:	PC/ABS
Dimensions (H x W x D):	93 x 89 x 27.5mm
Colour:	Yellow
Weight:	110 g
Ambient conditions	
Ambient temperature in operation:	-10°C to +55°C
Humidity:	95%

Conventional Sounders & Beacons

Conventional Sounder & Beacons

Solista LX Wall Beacon Shallow Base

Available in a red colour and with a shallow base, the Solista LX Wall is suitable for a variety of applications. The Solista LX Wall has a unique lens design that distributes light to achieve the required illumination, whist using minimum current.

812007FULL-0108X	Solista LX	Wall Beacon Red Body White Flash Shallow Base
812013FULL-0114X	Solista LX	Red Flash, Red Body, Shallow Base

Features

- Conforms with EN 54-23 (meets the required illumination 0.4lux/m2 ove entire room area)
- LED technology for long service life and low current consumption.
- Unique optics for light management.
- Up to 7.5m coverage volume
- Flash rate switch feature
- Reduce from 1Hz to 0.5Hz to reduce power consumption by up to 50%.
- Soft start up for reduced current peak at start up, reducing circuit loadin
- Locking Bases to prevent easy removal of device

Technical data:

Supply voltage:	9-60 V DC
Current input:	12-25 mA
Flashing frequency:	0.5 or 1 Hz (reversible)
Temperature range:	-25°C to +70°C
Dimensions (ø x H):	93 x 38 mm
Weight:	100 g
Colour:	Basic red, sleeve clear
IP rating:	IP33C
Classification:	In acc. with EN 54-23: W-2,4-7.5

Solista LX Wall Beacon Deep Base

Available in a red colour and with a deep base, the Solista LX Wall is suitable for a variety of applications. The Solista LX Wall has a unique lens design that distributes light to achieve the required illumination, whist using minimum current.

812008FULL- 0109X	Solista LX	Wall Beacon Red Body White Flash Deep Base
812005FULL-0107X	Solista LX	Wall Beacon Red Body Red Flash Deep Base

Technical data:

Supply voltage:	9-60 V DC
Current input:	12-25 mA
Flashing frequency:	0.5 or 1 Hz (reversible)
Temperature range:	-25°C to +70°C
Dimensions (ø x H):	93 x 66 mm
Weight:	100 g
Colour:	Basic red, sleeve clear
IP rating:	IP 65
Classification:	In acc. with EN 54-23: W-2,4-7.5

Features

- LED technology for long service life and low current consumption.
- Unique optics for light management.
- Up to 7.5m coverage volume
- Flash rate switch feature
- Reduce from 1Hz to 0.5Hz to reduce power consumption by up to 50%.
- Soft start up for reduced current peak at start up, reducing circuit loadin
- Locking Bases to prevent easy removal of device
- Coverage switch feature • For smaller areas switch down from 7.5m.

Solista LX Ceiling Beacon Shallow Base

The Solista LX Ceiling Beacon has a unique lens design that distributes the light in a cylindrical shape, to achieve the required illumination specified by EN 54-23. Designed for installation at a height of up to 3m and with a discreet appearance, the device is ideal for a variety of applications.

812020FULL-0121X	Solista LX	Ceiling Beacon White Body White Flash Shallow

Technical data:

Supply voltage:	9-60 V DC
Current input:	10–25 mA
Flashing frequency:	0.5 or 1 Hz (reversible)
Temperature range:	-25°C to +70°C
Dimensions (ø x H):	93 x 37 mm
Weight:	100 g
Colour:	Basic red, sleeve clear
IP rating:	IP33C
Classification:	In acc. with EN 54-23: C-3-7.5

Features

- LED technology for long service life and low current consumption.
- Unique optics for light management.
- Up to 7.5m coverage volume.
- Flash rate switch feature -Reduce from 1Hz to 0.5Hz setting, reducing power consumption by up to 50%.
- Soft start up means no current peak at start up.
- New connection layout creates easier wiring and connection on installation.

RoLP LX Wall Beacon RoLP Base

The RoLP LX Wall base is ideal for dual use applications where a visual alarm device is required in addition to an audible alarm. Recommended for wall use and requiring just one installation point, the RoLP LX Wall is available to use with any standard RoLP sounder. Ingress protection rating of IP65.

8500023FULL-0023	RoLP LX 4"	Wall Beacon Red Body White Flash RoLP base EN54-23 W-2.4 7.5 VAD

Technical data:

Supply voltage:	18-25 V DC
Current input:	22–37 mA
Flashing frequency:	0.5 or 1 Hz (reversible)
Temperature range:	-25°C to +70°C
Dimensions (ø x H):	95 x 135 x 95 mm
Weight:	100 g
Colour:	Basic red, sleeve clear
IP rating:	IP 65
Classification:	In acc. with EN 54-23: W-2.4-7.5
Max. volume:	102 dB/1 m

Features

- LED technology for long service life and low current consumption.
- Unique optics for light management.
- Up to 7.5m coverage volume
- Flash rate switch feature
- Reduce from 1Hz to 0.5Hz to reduce power consumption by up to 50%.
- Soft start up for reduced current peak at start up, reducing circuit loadin
- Locking Bases to prevent easy removal of device
- Coverage switch feature • For smaller areas switch down from 7.5m to 5m, reducing power consumption and saving up to 50%.
- Wide input voltage range for flexibility in system desig
- Flash rate switch feature • Reduce from 1Hz to 0.5Hz to reduce power consumption by up to 50%.

Symphoni G1 LX Wall Beacon Indoor Base

The Symphoni LX Wall base can be used in combination with any standard Symphoni sounder. Its durable design ensures reliability and its high sound output makes it suitable for open areas or where there is higher than normal background noise.

8500043FULL-0043	Symphoni G1 LX4"	Wall Beacon Red Body White Flash Indoor Base

Technical data:

Supply voltage:	18-28 V DC
Current input:	15-30 mA
Flashing frequency:	0.5 or 1 Hz (reversible)
Temperature range:	-10°C to +55°C
Dimensions (ø x H):	106 x 147 x 92 mm
Weight:	200 g
Colour:	Basic red, sleeve clear
IP rating:	IP21C
Classification:	W-2.4-7.5
Max. volume:	100 dB(A) /1 m

Symphoni G1 LX Wall Weatherproof Beacon Outdoor Base

The Symphoni LX WP Wall device offers a weatherproof alternative to the Symphoni LX Wall device. With an ingress protection rating of IP66, it is suited for wet and outdoor environments.

8500048FULL-0048	Symphoni 4"	Wall Weatherproof Beacon Red Body White Flash Outdoor Base

Technical data:

Supply voltage:	9-60 V DC
Current input:	12–25 mA
Flashing frequency:	0.5 or 1 Hz (reversible)
Temperature range:	-25°C to +70°C
Dimensions (ø x H):	93 x 66 mm
Weight:	100 g
Colour:	Basic red, sleeve clear
IP rating:	IP 65
Classification:	In acc. with EN 54-23: W-2,4-7.5

Banshee Excel Sounder Red IP45

The BE-R IP45 multi-tone siren is a conventionally supplied acoustic signal transmitter for interior use. A choice of 32 types of sound and three volume settings are available, from max. 96–110 dB (depending on type of sound). The scope of delivery includes the mounting base.

576.501.060	BE-R	Banshee Excel Sounder Red IP45

Technical data:

Mechanical Data	
Material:	ABS
Dimensions (W x H x D):	92 x 92 x 71 mm
Colour:	Red
Electrical Data	
Supply voltage:	9-30 V DC
Current input:	12–36 mA (depending on type of sound)
Ambient Conditions	
Operating temperature:	–25°C to +70°C
IP rating:	IP 45

Banshee Excel Sounder White IP45

The BE-W IP45 multi-tone siren is a conventionally supplied acoustic signal transmitter for interior use. A choice of 32 types of sound and three volume settings are available, from max. 96–110 dB (depending on type of sound). The scope of delivery includes the mounting base.

576.501.061	BE-W	Banshee Excel Sounder White IP45

Technical data:

Mechanical Data	
Material:	ABS
Dimensions (W x H x D):	92 x 92 x 71 mm
Colour:	White
Electrical Data	
Supply voltage:	9-30 V DC
Current input:	12–36 mA (depending on type of sound)
Ambient conditions	
Operating temperature:	–25°C to +70°C
IP rating:	IP 45

Banshee Excel Red IP66 Sounder

The Banshee Excel adds the Banshee Excel Lite Sounder Beacon to its range using a high output xenon with the familiar sounder.

576.501.062	Banshee Excel Red IP66 Sounder

Features

- Modern aesthetic design
- 32 Selectable tones
- 3 Volume setting
- Push and twist mount
- Shallow and deep bases
- Available in red
- Low current consumption
- 2 Stage alarm available
- Independently switched sounder or beacon
- Xenon beacon with the Excel Lite

Technical data:

Electrical Data	
Approvals:	VdS approved to EN54-3
Tones available:	32
Operating Voltage:	9-30 V DC
Flash current consumption:	40mA
Flash rate per second:	1
Tones available:	32
Volume control via DIL switch:	Maximum, Medium (-10dBA), Low (-20dBA)
Termination:	Screw terminals for 028mm2 to 2.5mm2 wire conductor
Ambient conditions	
Operating temperature range (Deg C):	-40°C to +70°D
Ingress Protection:	IP45 or IP66

Banshee Excel Lite Red Sounder & Beacon IP45

The Banshee Excel Lite can be used as a multi stage device by switching the beacon and the sounder independently using a third wire.

576.501.063	Banshee Excel Lite Red Sounder Red Xenon Beacon IP45

Technical data:

Mechanical Data	
Colour:	Red
Electrical Data	
Operating Voltage:	9-30 V DC
Current Consumption:	40mA
Ambient conditions	
Operating temperature:	-40°C to + 70°C
IP rating:	IP 45

24 Vdc LED Strobe

A cost effective, low profile, high efficiency LED beacon. It is designed for use as visual indicator devices (VID).

LPB24-A-T	24 Vdc LED Strobe Amber lens
LPB24-B-T	24 Vdc LED Strobe Blue lens
LPB24-C-T	24 Vdc LED Strobe Clear lens
LPB24-R-T	24 Vdc LED Strobe Red lens

Technical data:

Rated Voltage:	12 Vdc / 24 Vdc
Current:	80 mA–12 Vdc
Consumption:	30 mA–24 Vdc
Operating Temp:	-10 to 50°C
Dimensions:	73mm Dia x 44H mm
Material (Base):	ABS
Material (Lens):	Acrylic / Polycarbonate
Colour (Base):	Black
Colour (Lens):	Amber, Blue, Clear and Red
IP rating:	IP66

24Vdc Symphoni Sounder Low Power

The 24 Vdc Symphoni Sounder is a general purpose internal sounder, extremely efficient and low current.

576.501.200	SY/W	Low Power Red Symphoni Sounder (3 tone)
576.501.201	SY/W	Low Power White Symphoni Sounder (3 tone)

Technical data:

Voltage:	9-8Vdc
Current:	5mA (Typical)
Sound Output:	100dB(A) (Typical)
Tones:	32
Volume Control:	10dB
Monitoring:	Reverse Polarity
Temperature:	-10°C to +55°C
IP rating:	IP21C
Construction:	ABS
Weight:	0.21kg

24Vdc Symphoni Sounder High Power

Where a very loud alarm sounder is needed the Symphoni High Output will provide the answer. Producing levels of up to 120dB(A) this sounder can be used in open areas or in situations having higher than normal background noise levels. Although a high power design the unit is very efficient and offers relatively low current consumption.

576.501.202	SYHO/R	High Output Red Symphoni Sounder (32 tone)
576.501.203	SYHO/W	High Output White Symphoni Sounder (32 tone)

Technical data:

Voltage:	9-8Vdc
Current:	240mA (Typical tone 3)
Sound Output:	114dB(A) (Typical tone 3)
Tones:	32
Volume Control:	20dB
Monitoring:	Reverse Polarity
Temperature:	-10°C to +55°C
IP rating:	IP21C
Construction:	ABS
Weight:	0.58kg

Roshni Sounders

A flexible alarm sounder for Fire and Security applications complete with volume control and dil switch to provide 32 tones.
Low profile Roshni with deep base offers IP65 protection. All Roshni sounders have synchronised start for self synchronisation without third wire.

ROSHRDSR	ROSHNI Red Sounder c/w Deep Base
576.501.220	ROSHNI Red Sounder c/w Shallow Base
576.501.221	ROSHNI White Sounder c/w Shallow
576.501.222	ROSHNI/Flashni Red c/w Deep Base
576.501.223	ROSHNI/Flashni White c/w Deep Base

Technical data:

Dimensions:	93 Dia x 105D mm (Deep base)
Colour:	Red or white
Output Voltage:	9-28 Vdc
Typical Current:	16mA @ 24Vdc
Typ. Sound Output:	102dB @ 1m

Squashni Sounders

The Squashni sounder is the original ceiling sounder for use as a universal fire detector platform or as a standalone sounder complete with blank cover. It comes preset to tone 3 with a volume control, is fully compatible with Roshni tones and has a synchronised start.

576.501.030	Squashni White 24Vdc
576.501.031	Blank Cover Plate White for Squashni
576.501.255	Squashni, G3/AV Blanking Cap Pack of 5

Technical data:

Dimensions:	112 Dia x 27D mm
Colour:	Matched to leading fire detector manufacturers
Approvals	None
Output Voltage:	9-28 Vdc
Typical Current:	24 Vdc @ 16 mA
Typ. Sound Output:	93dB (A) @ 1 m

Solista LED Beacon

Ultra low power requirement 3mA or 6mA at 24Vdc. Long life low profile design. Protected to IP54, supplied complete with base.

576.501.230	Solista LED Beacon (Red) Base

Please Note: This beacon should be used for supplementary indication purposes only. In this case the device is not required to be used as a Visual Alarm Device (VAD) and EN54-23 is not relevant to its classification.

Multi-Tone Askari Compact

The Multi-Tone Askari Compact is a compact bedroom sounder for unobtrusive installation. It comes with a volume control, is fully compatible with Roshni tones and has a synchronised start. A surface mount backbox is available from the supplier to special order.

576.501.242	White Multi Tone Askari Compact Sounder
576.501.243	Red Multi Tone Askari Compact Sounder

Technical data:

Dimensions:	87.5H x 87.5W x 36D mm
Colour:	Red or white
Approvals	BS5839 pt 1
Inpput Voltage:	9-28 Vdc
Typical Current:	18 mA @ 24Vdc
Typ. Sound Output:	97dB (A) @ 1m

Solista LED Beacon

A Solex 10 Candela Xenon Beacon with a red lens and a white shallow base which can be used wherever a high power xenon beacon is required. Due to the high power output and current consumption it is recommended that this device is not used with the MZX-c+ or similar small panels.

576.501.232	Solex 10 Beacon (Red lens / white base) base

Please Note: This beacon should be used for supplementary indication purposes only. In this case the device is not required to be used as a Visual Alarm Device (VAD) and EN54-23 is not relevant to its classification.

Flashni Sounder / Beacon

A combined sounder and beacon which combines the features of the Roshni electronic sounder with a fully integrated Xenon beacon. These sounders are fully compatible with all Roshni tones.

20-118	Combined Roshni Sounder/Strobe Complete With Deep Base (IP65)
576.501.224	Combined Roshni Sounder/Strobe, Red Body/Red Lens Complete With Shallow
576.501.227	Combined Roshni Sounder/Strobe, Red Body/Red Lens, Deep Base, Tone Switch & Separate Sounder/Strobe Operationbase & tone switch

Technical data:

Dimensions:	93 Dia x 92D mm (Shallow base), 93 Dia x 121D mm (Deep base)
Inpput Voltage:	18-30 Vdc
Typical Current:	68 mA @ 24 Vdc
Typ. Sound Output:	101dB (A) @ 1 m

Please Note: These beacons should be used for supplementary indication purposes only. In this case the device is not required to be used as a Visual Alarm Device (VAD) and EN54-23 is not relevant to its classification.

Special Detection

Specialist detection systems are sometimes the preferred option over point detection due to factors affecting installation, maintenance or the environment to which detectors will be exposed. ZETTLER loops support a range of specialist detectors supplying both power and communications and providing true and seamless integration.

Duct Probe Units

DPK6 Duct Probe with 4B-C 4" Continuity Base

The DPK6 duct probe units have been developed to detect smoke in ventilation ducts. They offer significant benefits in terms of performance and installation.
The system comprises a single duct probe tube and housing specially designed for optimum airflow through the smoke detector and suitable for use in incoming, outgoing and circulation air ducts of ventilation and conditioning systems. The duct probes can operate across a wide range of airflow speeds and are designed to comply with prEN 54-27and VdS. Unlike more traditional duct probe units that employ an inlet and exhaust tube with sampling holes, the DPK6 unit uses a highly efficient single sampling tube that is slotted along its length. This allows the sampling tubes to be cut to the desired length whilst maintaining maximum efficiency. In order to reduce the time required to test the duct probe detector during routine maintenance, an aperture is provided that allows aerosol test gas to be directed at the detector without having to dismantle the unit.
Accessories
ZETTLER offers 3 lengths of the duct probe tubes. The tube is made of aluminium and can easily be shortened to suit the span of the air duct. Where the unit is mounted on insulated or circular air ducts, the DPK6-MB mounting bracket is required.

Features

- DPK6 for use with Generation6 multi-sensor detectors 850PH and 830PH with built-in 4B-C
- 4" Continuity Base
- Designed to comply with prEN 54-27
- One-pipe air sampling system
- Patented venturi pipe and duct housing
- Test hole on cover
- Simple installation
- Simple service and maintenance

517.025.056	DPK6	Duct Probe With 4B-C 4" Continuity Base

Options:

517.025.058	DPK6-60	DuctProbeTube60cm
517.025.059	DPK6-150	DuctProbeTube150cm
517.025.060	DPK6-280	DuctProbeTube280cm
517.025.061	DPK6-MB	DuctPobeMountingbracket
517.025.055	DPKF	Filter

Technical data:

Mechanical Data	
Dimensions (W x H x D):	165 x 280 x 85 mm
Cable insert:	4 apertures for M20 screw connections
Material:	ABS plastic
IP rating:	IP 54
Weight (with base):	700 g
Colour	
Housing:	Grey (RAL 7001)
Ambient conditions	
Permitted air speed:	1–20 m/s ambient
Temperature:	- 10°C to +55 °C
Relative humidity (non-condensing):	max. 95%

Beam Detection

Fireray 3000 Optical Beam Smoke Detector

FIRERAY 3000 is ideal for applications where line of sight for the infra-red detection path is narrow and where the building structure uses reflective surfaces. It has been designed to be aesthetically pleasing and therefore equally suits modern architectural buildings as well as heritage sites, particularly where ornate ceilings exist.

516.015.030	Fireray 3000	Optical Beam Detector

Technical data:

Mechanical Data	
Dimensions Control Unit (H x W x D):	124 x 203 x 71.5mm
Weight:	606g
Dimensions Transmitter & Receiver (H x W x D):	77 x 78 x 161mm
Weight:	207g
Ambient Conditions	
Operating temperature:	UL -20°C to +55°C EN54 -10°C to +55°C
IP Rating:	IP54
Relative humidity (non-condensing):	93%
Electrical Data	
Operating Voltage Range:	12 to 36 Vdc ±10%
Operating Controller Current:	14 mA (constant)
Operating Transmitter Current:	8 mA (per transmitter)
Power Down Reset Time:	›10 seconds
Fire and Fault Relay Contacts:	VFCO 2A @ 30 Vdc resistive

Features

- Motorised auto-aligning
- Up to two detectors per system controller
- Controller provides fire & fault relays for each detector head
- Each detector configurable from 8 m to 100 m
- Integral LASER
- Low level system controller
- 20 mm cable gland knockouts on system controller
- 2-wire interface from system controller to detector
- Worldwide approvals including EN54-12 and UL268
- Individual fire and fault relays for each detector

FireRay 3000 Extra Beam Set

516.015.031	Extra Beam Set for Use With the Fireray 3000

FireRay 3000 Adjustable Bracket

Adjustable bracket for use with the Fireray 3000 heads or Fireray 5000 head.

3000-201	FireRay 3000 Adjustable Bracket

Fireray 5000 Optical Beam Smoke Detector

The Fireray 5000 motorised, auto aligning infrared optical beam smoke detector can support two detector heads per system, thus saving on installation time and costs. This innovative system has been designed from the ground up to include pioneering technology that fully addresses the needs of the installer and user, both now and in the future.
With its industry leading optics, the Fireray 5000 is ideally suited for the protection of large areas where the use of traditional detection technologies would prove to be too difficult and/or costly to install. The Fireray 5000 combines an infrared transmitter and receiver in the same discrete unit and operates by projecting a well-defined beam to a reflective prism, which returns the beam to the receiver for analysis. Smoke in the beam path causes a drop in power, which, if below a pre-determined level, results in an alarm signal.
Getting the system operational is simplified by a number of groundbreaking features that combine to make the Fireray 5000 the quickest and easiest detector of its type to install. Once the detector heads are connected, using the Easifit First Fix system, an integral laser, which is aligned along the optical path of the beam, can be activated. This allows the reflective prism to be sighted quickly and with confidence. Once the laser has been used to coarsely align the beam, the AutOptimise beam alignment system takes over and automatically steers the beam into the optimum position.
The system can be fully customised, according to local conditions; both alarm thresholds (sensitivity) and time to Alarm/Fault can be set from the ground level System Controller.
Each detector head is independently configurable from 8m through to 100m and has its own individual fire threshold and dedicated fire / fault relay outputs. The System Controller retains one set of Fire and Fault relays that is common to all detectors that are installed.
The FR5000 MultiHead is supplied with one detector head and reflector for single beam operation from 8 to 50 meters. An additional detector head can be added to the controller to enable larger or more complex areas to be protected (Subject to local codes and standards).
The Fireray 5000 when used in its low power mode can be interfaced to the ZETTLER Fire Panel using the BDM800 module.

Features

- Motorised Auto-Aligning
- Up to two Detectors per System Controller
- Controller provides fire and fault relays for each detector head
- Each Detector configurable from 8m to 100m
- Integral LASER
- Auto-Align Fast Automatic Beam Alignment
- Auto-Optimise Building Movement and Contamination Compensation
- Low Level System Controller
- 20mm Cable Gland Knockouts on System Controller
- 2-wire interface from System Controller to Detector
- Worldwide Approvals including EN54-12 and UL268
- Individual fire and fault relays for each detector

516.015.020	Fireray 5000 System (50m)

Technical data:

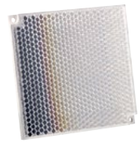
Mechanical Data	
Dimensions Controller (W x H x D):	202w x 230h x 81d mm 0.9 Kg
Dimensions Detector (W x H x D):	134w x 135h x 134d mm–0.5 Kg
Electrical Data	
Operating Voltage Low:	14 to 36 Vdc
Power mode:	8 mA @ 24Vdc
Environmental Conditions	
IP Rating:	IP54
Operating Temp:	-20 to +55°C
Relative humidity (non-condensing):	93% RH max

Fireray 5000 Detector Head (50m)

Additional detector head for the FIRERAY 5000 control unit. A control unit can be retrofitted to 2 detector heads, bearing in mind that all appliances must be used within the same fire detection zone.

516.015.021	FR 5000 Detector Head (50m)

Fireray Reflector 100 x 100mm



The prism reflector is suitable for use with the FIRERAY 5000 smoke detector. Up to 50 m one prism is needed. From 50 to 100 m, four prisms are needed.

516.015.007	FireRay Reflector 100 x 100mm

Fireray 5000 Universal Mounting Bracket

The Universal Mounting bracket can be used with the Fireray 5000 detector head and the 1 or 4 way prism plates to enable the detector head or prism plates to be easily mounted and adjusted.

5000-005	Fireray 5000 Universal Mounting Bracket

Flat Mounting Plate for 1 to 4 Prisms

The Flat Mounting plate is a metal plate which will support a single prism or 4 prisms.

5000-006	Flat Mounting Plate for 1 to 4 Prisms

Prism Mounting Plate for 1-4 prisms

The large prism plate will securely mount 4 prisms and is designed to be used in conjunction with the Universal Mounting Bracket (not included).

5000-007	Prism Mounting Plate for 1-4 Prisms

Prism Mounting Plate for 1 prism

The small prism plate will securely mount a single prism and is designed to be used in conjunction with the Universal Mounting Bracket (not included)

5000-008	Prism Mounting Plate for 1 Prism

Fireray ONE

The Fireray One is perfectly suited for small warehouses, with its cost effective protection and simple installation, as well as new buildings, with the Building Movement Tracking technology continuously maintaining alignment with the detector during the settling process, eliminating nuisance alarms.
With no specialist tools or knowledge needed for installation and operation, the Fireray One is a standalone beam detector that prioritises ease of installation. Using the Fireray One, it couldn't be easier to bring the benefits of beam detection to your application.

516.015.022	Fireray One

Features

- Up to 50m – Single reflector
- Up to 120m – Four reflectors
- Low power consumption
- Can be powered from the loop through BDM800
- Individual alarm and fault relays
- Light Cancellation Technology
- Automatic Contamination Compensation
- One-minute, laser-assisted Auto Alignment
- Building Movement Tracking – Ideal for new buildings
- CE, UL, ULC & VdS approvals

Technical data:

Mechanical Data	
Dimensions controller (H x W x D):	130 x 181 x 134mm
Weight:	0.7kg
Dimensions reflector (H x W x D):	100 x 100 x 9mm
Weight:	0.1kg
Ambient Conditions	
Operating temperature:	-20 to +55°C
IP Rating:	IP55
Humidity:	0-93% non-condensing
Electrical Data	
Operating Voltage Range:	14-36vDC
Operating current (constant) all operational modes :	All operational modes – 5mA; Fast alignment mode – 33mA

Fireray One Long Range Kit

Long Range Prism Kit includes 3 additional prisms for installations between (50m–100m).

516.015.040	Fireray One Long Range Kit

Reflector Wall Bracket

Wall bracket for Fireray One reflectors.

516.015.041	Reflector Wall Bracket (White)
516.015.042	Reflector Wall Bracket (Black)

Single Reflector Adjustment Bracket

Adjustment bracket for a single Fireray One reflector

516.015.043	Single Reflector Adjustment

Reflector Adjustment Bracket

Four reflector adjustment bracket. Includes a prism mounting plate for four prisms and the adjustment bracket (5000-007 and 5000-201).

516.015.044	4 Reflector Adjustment Bracket

Anti-Cond. Heater Fireray One

Anti-Condensation Heater for the Fireray One. For use in environmental conditions where operation of the Fireray One smoke detectors may be affected by condensation.

516.015.045	Anti-Cond. Heater Fireray One

Prism Heater

Designed for use in environmental conditions where condensation affects the reflector of the optical beam smoke detectors. The heater will reduce the likelihood of condensation and is fixed behind the mounting plate.

516.015.046	Prism Heater (White)
516.015.051	Prism Heater (Black)

Protective Cage Fireray One

Wire Protective Cage for the Fireray One. Can be mounted to 516.015.050 or to a flat surface.

516.015.047	Protective Cage Fireray One

Commissioning and Maintenance Kit

Kit includes: Test filters for alarm and fault testing at the reflector and a cloth for cleaning lenses and reflectors.

516.015.048	Commissioning and Maintenance Kit

Fireray One Adjustment Bracket

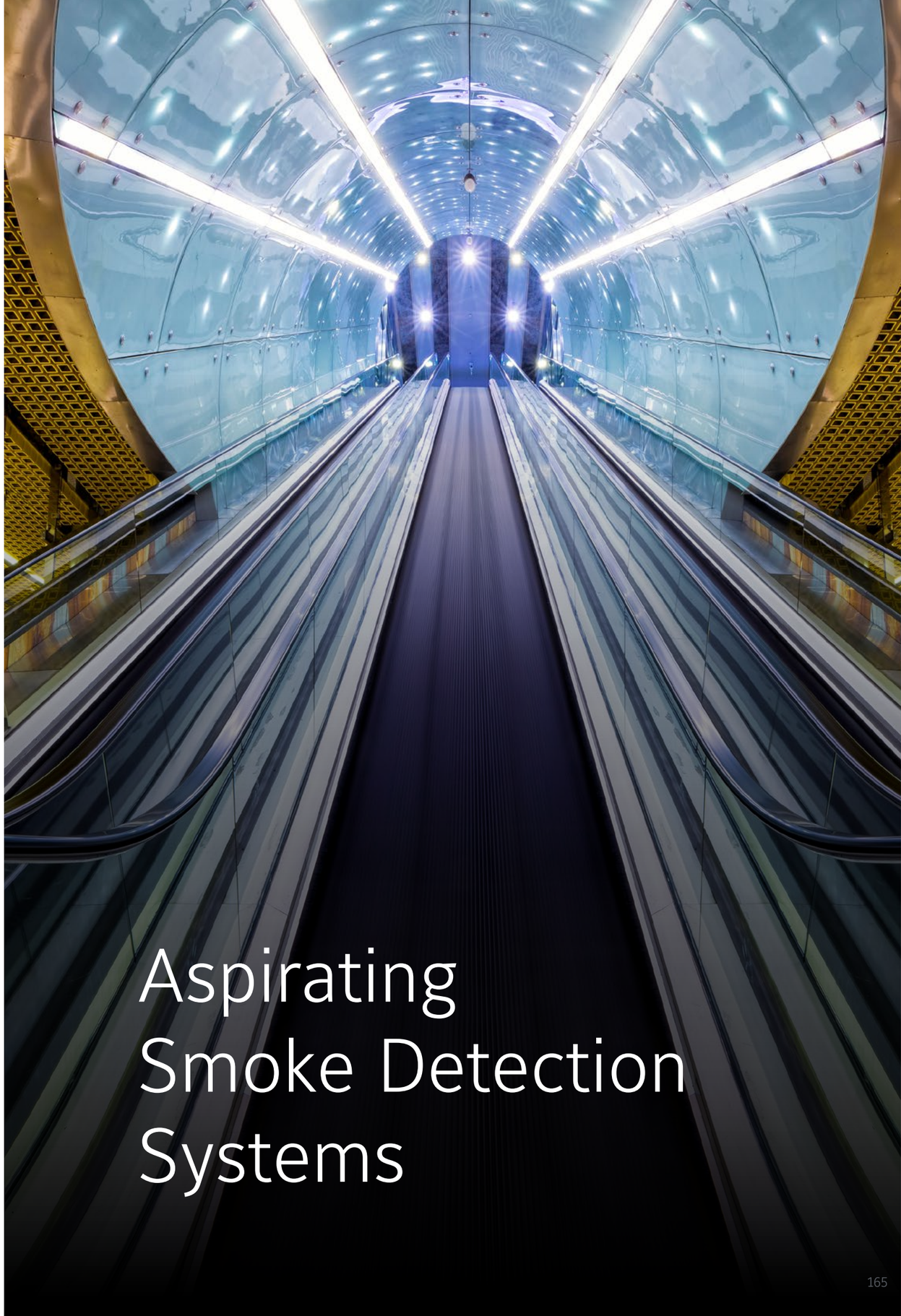
Adjustment Bracket for Motorized Reflective Detector Heads, with 360-degree rotation and 140-degree adjustment.

516.015.049	Fireray One Adjustment Bracket

Fireray One Back Box

Metal surface mount back box for Fireray One. Mounting holes for 516.015.047.

516.015.050	Fireray One Back Box



Aspirating Smoke Detection Systems

ICAM IAS800 Air Sampling Smoke Detection

The ICAM IAS800 Air Sampling Smoke Detection System provides a flexible solution to meet the unique needs of numerous applications including industrial spaces such as cable tunnels, tamper proof and unobtrusive requirements for special accommodation, or can simply be used to replace spot (point) detectors in office environments.
The IAS800 system actively draws air from the protected area through sampling holes in a pipe network. Sampled air is then filtered before being analyzed by upto two MZX Technology detectors.
The IAS800 system is available in three configurations:

- IAS800 twin inlet pipe configuration which can be fitted with two detectors for monitoring one or two pipe runs.
- IAS801 single inlet pipe configuration which can be fitted with one detector.
- IAS802 twin inlet pipe configuration which can be fitted with two detectors for monitoring one or two separate pipe runs with independant fault outputs.

The system utilises a high performance aspirator and software configurable flow monitoring circuitry. The air flow level is displayed on a ten element bar graph that can be adjusted for high and low flow thresholds, and flow failure is reported as a device fault via up to two MZX Technology MIM800 addressable modules.

516.016.301	ICAM IAS800 Aspirated Smoke Dual Detector Common Fault Monitor
516.016.304	ICAM IAS801 Aspirated Smoke Single Detector Common Fault Monitor
516.016.305	ICAM IAS802 Aspirated Smoke Dual Detector Dual Fault Monitor

Technical data:

Mechanical Data	
Pipework network:	50 m per inlet with 2 aspiration apertures per tube
External diameter of pipework:	25 mm
Internal diameter of pipework:	21 mm
Dimensions (W x H x D):	259 x 184 x 166 mm
IP rating:	IP65
Electrical Data	
Supply voltage:	18-30 V DC
Comment:	The sensors are supplied from the line
Power consumption:	120-300 mA
Ambient Conditions	
Operating Temp:	-10°C to +50°C rel.
Humidity (non-condensing):	10–95%
Approvals	
EN 54-20:	Class C

Accessories and Spares:

516.016.303	ICAM Course filter (PK10)
516.016.306	ICAM In-line filter housing

VESDA® VLI

The VESDA VLI by Xtralis is an industry first early warning aspirating smoke detection (ASD) system, designed to protect industrial applications and harsh environments of up to 2000 m². Long life, intelligent, fail-safe technology with an advanced clean-air barrier for optics protection allowing the use of absolute detection and a long detection chamber life without the need for recalibration.

516.018.321	VLI-885 VESDA VLI With VESDAnet
516.018.322	VLI-880 VESDA VLI With Relays and Ethernet Only

Features

- Very big range of sensitivity
- Four definable response thresholds
- Self-learning function
- Detector with laser light source
- Four suction pipes for flexible arrangement of pipework
- Multi-stage intelligent filter system with innovative HEPA pre-filter
- Monitoring of the installed pre-filter and laser chamber
- Separately with flow rate sensors.
- That is a statement Possible with the real fill level of the pre-filter
- Display with particularly bright LEDs to display alarm thresholds and fault
- Five relays (alarm, fault, three freely programmable)
- Every component can be replaced in a modular manner
- Total tube length of up to 360 m

Optional SKUs:

516.018.323	VSP-030 VLI	spirating Smoke Detector Intelligent Filter Spare Part
516.018.324	VSP-031 VLI	Secondary Filter SparePart
516.018.325	VSP-032 VLI	Aspirating Smoke Detector Aspirator Spare Part
516.018.326	VSP-033 VLI	Chamber Assembly Spare Part
516.018.327	VSP-034 VLI	Aspirating Smoke Detector VESDAnet Card Spare Part
516.018.328	VSP-035	VESDA VII Display module
516.018.329	VSP-036 VESDA VLI	Aspirating Smoke Detector Ultrasonic Flow Manifold
516.018.330	VRT-Q00 VLI	Aspirating Smoke Detector Remote Display with RTC7
516.018.331	VRT-T00 VLI	Aspirating Smoke Detector Remote Display with RTC0

Technical data:

Mechanical Data	
Dimensions (W x H x D):	426.5 x 316.5 x 180 mm
Weight:	6.035 kg
IP rating:	IP 66
Pipework network:	Up to 4 suction tubes with a total line length of 360 m
Maximum individual tube length:	120 m
External diameter for pipework:	25 mm
Internal diameter of pipework:	21 mm
Maximum monitoring surface:	1600 m²
Electrical Data	
Operating voltage:	18–30 V DC current
iCurrent at 24 V DC:	approx. 600 mA
Sensitivity (adjustable):	0.005–20 % Ld/m
Ambient Conditions	
Ambient temperature/operation:	0°C to +40°C
Temperature of aspirated air at alarm:	-20°C to +60°C
Ambient humidity (max.):	10–95% Non-condensing
Approvals	
EN 54-20:	Class A, B, C

Aspirating Smoke Detection Systems

VLF-250 VESDA LaserFOCUS

The VESDA LaserFOCUS multiple point air sampling technology works by utilising a highly effective aspirator that continually draws air into its laser detection chamber via a pipe network. The result of which is an unchallenged detection process able to provide reliable and consistent very early warning smoke detection performance across a diverse range of applications.

516.018.020	VLF-250-00 VESDA LaserFOCUS With English Overlay
516.018.021	VLF-250-01 VESDA LaserFOCUS With European Overlay
VLF-250-NF	VESDA VLF-25-NF

Features

- Laser Based Absolute Smoke Detection
- Very Early Warning of a Potential Fire Incident
- Wide Sensitivity Range (0.025%-20% obs/m) (0.008-6.4% obs/ft)
- Detection Capabilities for smaller critical areas up to 250 m
- Dual Stage Dust Filtration
- Programmable Alarm Thresholds
- Reliable Air Flow Monitoring
- Easy User Interaction
- AutoLearn Smoke & Flow
- Pre-engineered Pipe Designs
- UL 268A Duct listed
- FM approved
- FM approved for Hazardous Locations, Class I, Div. 2
- CCCf approved
- LPCB approved
- VdS approved

Optional SKUs:

516.018.303	IP66 Enclosure
516.018.504	VSP-005 Filter cartridge (spare)

Technical data:

Mechanical Data	
Dimensions (W x H x D):	255 x 185 x 90 mm
Weight:	2 kg
Total length of pipework with 1 tube:	25 meters
Electrical Data	
Operating voltage:	18-30 V DC
Standby current:	220 mA
Alarm current:	295 mA
Ambient Conditions	
Operating temperature:	0°C to +40°C
Temperature of entrained air:	0°C to +40°C
Ambient humidity:	5-95% (max.) non-condensing
Monitoring range (max.):	250 m^2
IP rating:	IP 30

VLF-500 VESDA LaserFOCUS

Same as VLF-250 but able to cover an area of 500m^2

516.018.023	VLF-500-00 VESDA LaserFOCUS With English Overlay
516.018.024	VLF-500-01 VESDA

Optional SKUs:

516.018.303	IP66 Enclosure
516.018.504	VSP-005 Filter cartridge (spare)

Technical data:

Same as VLF-250, except for:	
Mechanical Data	
Monitoring range (max.):	500 m^2
Total length of pipework	50 meters

Aspirating Smoke Detection Systems

VESDA®-E VEU

The VEU series of aspirating smoke detectors are the premium detector of the VESDA-E range. An Ultra-wide sensitivity range; 15 times greater than VESDA VLP, and provision for more sampling holes provide an increased coverage in high airflow applications by at least 40%. Considerably longer linear pipe runs and extended branched pipe network configurations cater perfectly to applications with higher ceilings providing an increased coverage by up to 80% whilst allowing convenient detector mounting for ease of service and maintenance. A range of revolutionary new features provide unsurpassed detection performance, flexibility, field programmability, connectivity and reduced total cost of ownership.

VEU-A10	VESDA-E VEU With 3.5" Display
VEU-A00	VESDA-E VEU With LEDs

Features

- Flair detection technology guarantees reliable smoke detection across a large range of environments with a minimum noise level
- The multiple filter with clean air barrier to protect the alarm lens, ensuring consistent detection power across the service life of the system
- Four alarm thresholds as well as a very big sensitivity range offer optimum protection for a range of complex applications
- Comprehensive event log (20,000 events) for fault analyses and system diagnoses
- 7 programmable relays (with and without storage) Contacts: 2 A at 30 V DC (ohmic)

Optional SKUs:

VSP-960	Mounting bracket (optional) Spare
VSP-962	Parts VESDA-E Filter
VSP-962-20	VESDA-E Filter-20 pieces
VSP-963	VESDA-E Aspirator
VSP-964	VESDA-E Smoke Detection Chamber
VSP-965	VESDA-E Sampling Module

Technical data:

Mechanical Data	
Dimensions (W x H x D):	350 x 225 x 135 mm
Weight:	4.9 kg
Tubes:	4
Number of suction apertures (A/B/C):	80/80/100
Total length of pipework (with branches):	800 m
Maximum monitoring area	21 mm
Maximum monitoring surface:	1600 m^2
Electrical Data	
Operating voltage:	18-30 V DC
Standby current:	Min 291 mA max 658 mA
Alarm current:	Min 325 mA max 691 mA
Ambient Conditions	
Operating temperature:	0°C to +40°C
Temperature of aspirated air at alarm:	-20°C to +60°C
Ambient humidity (max.):	10-95% Non-condensing
EN54-20	Class A, B, C

Aspirating Smoke Detection Systems

VESDA®-E VEP

The VESDA-E VEP series of smoke detectors bring the latest and most advanced detection technology to provide very early warning and the best nuisance alarm rejection to a wide range of applications. Built on the Flair detection technology and years of application experience, VEP detectors achieve consistent performance over their lifetime via absolute calibration. In addition, the VEP delivers a range of revolutionary features that provide user value.

VEP.A00.1P	VESDA-E VEP Aspirating Smoke Detector With LEDs, 1 Pipe
VEP.A00.P	VESDA-E VEP Aspirating Smoke Detector With LEDs, 4 Pipe
VEP.A10.P	VESDA-E VEP Aspirating Smoke Detector with 3.5" Display, 4 Pipe

Features

- Single and four-tube model for various applications
- Flair detection technology guarantees reliable smoke detection across a large range of environments with minimum noise level
- The multiple filter with clean air barrier to protect the Alarm lens assures uniform detection power across the service life of the system
- Four alarm thresholds as well as a very big sensitivity range offer optimum protection for a range of complex applications
- Comprehensive event log (20,000 events) for fault analyses and system diagnoses
- 7 programmable relays (with and without storage)
- Contacts: 2 A at 30 V DC (ohmic)

Optional SKUs:

VSP-962	Parts VESDA-E Filter
VSP-962-20	VESDA-E Filter-20 pieces
VSP-963	VESDA-E Aspirator
VSP-964	VESDA-E Smoke Detection Chamber
VSP-965	VESDA-E Sampling Module

Technical data:

Mechanical Data	
Dimensions (W x H x D):	350 x 225 x 135 mm
Weight:	4.9 kg
Tubes:	1 or 4
Number of suction apertures (A/B/C):	80/80/100
Total length of pipework (with branches):	560 m
Maximum monitoring area:	1600 m²
Electrical Data	
Operating voltage:	18-30 V DC
Standby current:	min 291 mA max 658 mA
Alarm current:	min 325 mA max 691 mA
Ambient Conditions	
Operating temperature:	0 to +39°C
Temperature of entrained air:	-20 to +60°C
Ambient humidity:	10-95% (max.) non-condensing
IP rating:	IP40
IP rating:	IP 30
EN54-20	Class A, B, C

Aspirating Smoke Detection Systems

VESDA®-E VES

The VESDA-E VES series of smoke detectors can identify and monitor smoke density by individual sampling pipe (sector) which allows a single zone to be divided into four separate sectors. Sector addressability enables the user to respond to a potential fire event quickly by reducing the search area. The VESDA-E VES has four programable alarm thresholds (Alert, Action, Fire 1 and Fire 2) per pipe that allows flexible field application. After the detector identifies the first sector to reach the Alert threshold it continues to sample from all sectors to report real time status per sector via the intuitive touch screen display. Built on the Flair detection technology the VESDA-E VES detector delivers very early warning with the best in class dust rejection throughout its lifetime.

VES.A00.P	VESDA-E VES With LEDs
VES.A10.P	VESDA-E VES With 3.5" Screen

Features

- Sector addressability for up to four sectors or zones
- Adaptive scan threshold
- Multi-stage filtration and optical protection with clean air barriers ensures lifetime detection performance
- Intuitive LCD display provides instant status information for immediate response
- Smart on-board filter retains dust count and remaining filter life for predictable maintenance
- Extensive event log (20,000 events) for event analysis and system diagnostics
- Backward compatible with VLS and VESDAnet

Technical data:

Mechanical Data	
Dimensions (H x W x D):	350 x 225 x 135mm
Weight:	4.3 kg
Tubes:	Up to 4
Number of suction apertures (A/B/C):	40/80/100
Pipe lengths (A/B/C):	2 pipes-100m / 3 pipes-80m / 4 pipes-70m
Total length of pipework (branched):	560m
Area coverage:	2,000 m²
Electrical Data	
Operating voltage:	18-30 V DC
Ambient Conditions	
Operating temperature:	0°C to +39°C
Sampled air:	-20°C to +60°C
Relative humidity:	5% to 95% non-condensing
EN54-20	Class A, B, C

VESDA-E Power Supplies

VESDA-E Power Supply Units are uniquely designed to complement the style and appearance of VESDA-E aspirating smoke detectors (ASD) and are technically matched to provide sufficient current and battery charging capacity to meet the requirement of EN 54-4. The STX variants are VdS approved and CE marked to EN54-4 so are particularly suitable for use in territories where these approvals are required. They may also be suitable in territories where ISO 7240-4 is required.

VPS-220-STX5	0.5A 7-14Ah PSU -STX5 Black
VPS-220-STX5-SLV	0.5A 7-14Ah PSU -STX5 Silver
VPS-250-STX5	2A 12-24Ah PSU-STX5 Black
VPS-250-STX5-SLV	2A 12-24Ah PSU-STX5 Silver

Features

- Available in two colours: Black and Silver
- Temperature compensated charging to maximize battery life
- Designed to blend in with VESDA-E detectors
- Knockouts designed to line up with VESDA-E detectors
- External LED indication
- Relay outputs for connection to the general-purpose input for fault monitoring.
- 230 Vac only

Aspirating Smoke Detection Pipes & Fittings

Pipes & Fittings

JC001-25	90º Sweeping Bend 25mm RED
JCG001-25	90° Sweeping Bend 25mm GREY

JC001S-25	90° Sharp Bend 25mm RED
JCG001S-25	90° Sharp Bend 25mm GREY

JC002-25	45° Bend 25mm RED
JCG002-25	45° Bend 25mm GREY

JC003-25	Socket Union 25mm RED
JCG003-25	Socket Union 25mm GREY

JC004-25	Pipe Clip 25-27mm RED
JCG004-25	Pipe Clip 25-27mm GREY

JC005-1	Adaptor 25-27mm RED (3/4)
JCG005-1	Adaptor 25-27mm GREY

JC005-25	Jointing Socket 25mm RED
JCG005-25	Jointing Socket 25mm GREY

JC006-25	Tee Piece 25mm RED
JCG006-25	Tee Piece 25mm GREY

JC007-25	End Cap 25mm RED
JCG008-25	Pipe 25mm 3m GREY

JC008-1	Pipe 25mm RED–2.4m
JCG008-1	Pipe 25mm GREY–2.4m

JC009-25	Capillary Adaptor 25mm RED
JCG009-25	Capillary Adaptor 25mm GREY

Pipes & Fittings

JC010	ASD Sampling point labels

JC011	Solvent Cement (0.25 litre)

JC018-R	Capillary Tubing 10mm X 100m

JC019C-25	Conical Sampling Kit 25mm RED
JCG019C-25	Conical Sampling Kit 25mm GRY

JC019C-HO	Conical Sample Point Head

JC019F-25	Flush Sampling Kit 25mm RED
JCG019C-25	Flush Sampling Kit 25mm GREY

JC019F-HO	Flush Sample Point Head

JC020-25	Discrete Sampling Kit 25mm
JCG020-25	Discrete Sampling Kit 25mm GR

JC021-25	Capillary End Cap 25mm RED
JCG021-25	Capillary End Cap 25mm GREY

JC022-25	Capillary Tee Piece 25mm RED
JCG022-25	Capillary Tee Piece 25mm GREY

JC030-25	Flexi Bend 30cm–25mm RED
JCG030-25	Flexi Bend 30cm–25mm GREY

JC031-25	Flexi Bend 1m–25mm RED
JCG031-25	Flexi Bend 1m–25mm GREY

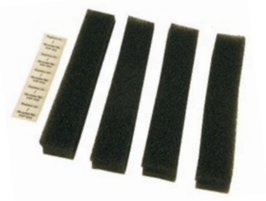
JCCBLTR	Pipe Ties RED

JCCT-01-25	Condensation Trap 25mm RED
JCCTG-01-25	Condensation Trap 25mm GREY

Filter VSP-850 for pipework

The filter is simply installed in the pipework system in front of the evaluation unit, where it can perform the function easily of a replaceable 2-stage pre-filter. In buildings with high dirt or dust loads, this helps to prevent the 3-stage device filter in the evaluation unit from clogging up too rapidly.
It can be mounted vertically or horizontally and its special design prevents it from affecting the speed of airflow.

516.018.925	Aspirating Pipe & Fittings In-Line Filter (red)



516.018.926	Aspirating Pipe & Fittings Replacement Filter Elements (pack of 4)

Wire Burn Test Box

Wire burn test box designed to heat up a measured length of special wire to produce smoke, used to test the transport time and performance of Vesda aspirating smoke detectors.

516.018.921	Wire Burn Test Box

Technical data:

Mechanical Data	
Input Voltage:	110-120 or 220-240VAC
Output Voltage:	6.3 VAC @ 20 A
IP rating:	IP30
Timer:	1 to 3 mins
Dimensions:	135H x 170W x 120D mm
Weight:	2.75 Kg

Features

- Built in timer
- Insulated terminals
- Selectable input voltage
- Illuminated power on indicator
- Robust enclosure
- Supplied with UK power lead

Smoke Test Wire

Smoke test wire for use with the wire burn test box.

516.018.923	Smoke Test Wire

Technical data:

Mechanical Data	
Dimensions:	10/0.1 mm, 0.078 mm2 CSA
Length:	100 m
Weight:	0.25 Kg

Open-Area Smoke Imaging Detection

Open-Area Smoke Imaging Detection (OSID)

Open-area Smoke Imaging Detection (OSID) by Xtralis is a new innovation in projected beam smoke detection technology. By using advanced dual wavelength projected beams and optical imaging technology, OSID provides a low-cost, reliable and easy to install solution that overcomes typical beam detection issues such as false alarm incidents and alignment difficulties.
The OSID system measures the level of smoke entering beams of light projected over an area of protection. A single OSID Imager can detect up to seven Emitters to provide a wide coverage area.
The OSID system consists of up to seven Emitters, for the 90° Imager unit, located along the perimeter of the protected area, and an Imager mounted opposite. Each component can be mounted directly to the surface or can be secured with the supplied mounting brackets. Battery powered Emitters with up to five years battery life are also available to reduce installation time and cost.

Features

- Max detection range of 150 metres for the OSI-10
- Status LEDs for Fire, Fault and Power
- High false alarm immunity
- Dust and intrusive solid object rejection
- Easy alignment with large adjustment and viewing angles
- No need for precise alignment
- Tolerant of alignment drift
- Automatic commisioning in under ten minutes
- Simple DIP switch configuration
- Dual wavelength LED-based smoke detection
- Simple and easy maintenance requirements
- Conventional alarm interface for straightforward fire system integration
- Three selectable alarm thresholds

OSI-10	Imager 7° coverage
OSI-90	Imager 80° coverage
OSE-SP-01	Emitter Standard Power
OSE-SPW	Emitter Standard Power, Wired
OSE-HPW	Emitter High Power, Wiredmonitor
OSID-INST	OSID Installation Kit517.025.056
OSID-WG	Wire Guard for OSID Imager & Emitter
OSP-001	OSID USB to FTDI Serial PC Interface Cable

Technical data:

Electrical Data	
Supply Voltage:	20 to 30 Vdc (24 Vdc nominal)
Imager Current Consumption Nominal (at 24 Vdc):	4 mA (1 Emitter), 7 mA (7 Emitters)
Peak (at 24 Vdc) during training mode:	27 mA
Wired Emitter Current Consumption (at 24 Vdc):	350µA
Battery Version:	Built-in 5 Year Battery
Adjustment Angle:	±60°(horizontal) ±15° (vertical)
Max Misalignment Angle:	± 2°
Status LEDs:	Fire Alarm (Red) Trouble / Power (Bi-colour Yellow / Green)
Mechanical Data	
Dimensions (HWD):	Emitter/Imager 130 x 198 x 96 mm
Ambient Conditions	
Operating Temp:	-10°C to 55°C
Humidity (non-condensing):	10 to 95% RH
Approvals	
IP Rating:	IP44 for Electronics IP66 for Optics Enclosure

Open-Area Smoke Imaging Detection (OSID)

Image sensor	Field of view		Detection range				Maximum number of light sources
	Horizontal	Vertical	Detection Range		High-Performance Light Source		
			Min.	Max.	Min.	Max.	
10º	7º	4º	30 meters	150 meters	-	-	1
90º	80º	48º	6 meters	** 34 meters	12 meters	** 68 meters	7

** Maximum distances related to the center point of the image sensor field of view.
For further details of the image sensor distances, refer to the OSID handbook.

OSID systems can be configured for different sizes of monitoring range by selecting the number of light sources and the type of image sensor. Every type of image sensor has a different kind of lens that defines the field of view as well as the range of the system.

OSID Imager Environmental Housing

IP66 additional housing with glass front for the installation of OSID image sensor receivers in environments affected by damp, harsh conditions or water spray.

OSID-EHI	OSID Imager Environmental Housing

Technical data:

Mechanical Data	
Material:	ABS
Colour:	Grey, RAL 7035
Dimensions (W x H x D):	241 x 194 x 127 mm
Ambient temperature:	-25°C to +60°C
IP rating:	IP 66

OSID Emitter Environmental Housing

IP66 additional housing with glass front for the installation of OSID light source transmitters in environments affected by damp, harsh conditions or water spray.

OSID-EHE	OSID Imager Environmental Housing

Technical data:

Mechanical Data	
Material:	ABS
Colour:	Grey, RAL 7035
Dimensions (W x H x D):	241 x 194 x 127 mm
Ambient temperature:	-25°C to +60°C
IP rating:	IP 66

Intrinsically Safe Products

801PHEx Optical Smoke + Heat Detector

The 801PHEx Optical Smoke & Heat Detectors form part of the 800Ex Series of MZX Addressable Fire Detectors. The detector plugs into the 5BEX base.

516.800.530	801PHEx Optical Smoke + Heat Detector

Technical data:

Mechanical Data	
Housing material:	FR110 'Bayblend', flame-retardant
Colour:	White, similar to RAL 9010
Dimensions (ø x H):	109 x 43 mm
with standard base:	109 x 54 mm
Weight:	126 g
Weight with alarm base:	192 g
Electrical Data	
Supply voltage from the loop:	20–40 V DC
Current input In standby mode:	0.3 mA
in alarm mode (with LED) (max.):	3.3 mA
Ambient Conditions	
Response sensitivity (can be configured in central control room)	
Smoke low:	1.8 %/m
Moderate:	1.4 %/m
High:	1.1 %/m
Heat:	DIN EN 54-5, A1R, A2S
Ambient temperature in operation:	-25°C to +70°C
Non-condensing ambient humidity (max.):	95%

Features

- Optical smoke only detector (sensitivity–High, Normal or Low)
- HPO smoke detector (sensitivity–High, Normal or Low)
- Heat only rate-of-rise (A1R) detector (no sensitivity selection)
- Heat fixed temperature 60°C (A2S no sensitivity selection)
- Optical (sensitivity–High, Normal or Low) combined with heat fixed temperature 60°C (A2S)
- HPO (sensitivity–High, Normal or Low) combined with heat fixed temperature 60°C (A2S)

801HEx Heat Detector

The 801HEx Heat Detectors form part of the 800Ex Series of MZX Addressable Fire Detectors. The detector plugs into the 5BEX base.

516.800.532	801HEx Heat Detector

Technical data:

Approvals:	ATEX: Ex II 1G, CENELEC: EEx ia IIC T5
The following operating modes are possible:	EN54-5 A1R, rate-of- rise normal ambient EN54-5 A2S, fixed 60°C EN54-5 CR, rate-of-rise high ambient

801CHEx Carbon Monoxide + Heat Detector

The 801CHEx Carbon Monoxide plus Heat Detector form part of the 800Ex Series of MZX Addressable Fire Detectors. The detector plugs into the 5BEX base.

516.800.531	801CHEx Carbon Monoxide + Heat Detector

Technical data:

Approvals:	ATEX: Ex II 1G, CENELEC: EEx ia IIC T5
The following operating modes are possible:	Heat only detector (A1R or A2S) (sensitivity:–High, Normal or Low), Compensated Carbon Monoxide detector (sensitivity–High, Normal or Low), Compensated Carbon Monoxide detector (sensitivity: -High or Normal) combined with heat (A1R)

801FEx I.R. Flame Detector

The 801FEx point type flame detector forms part of the MZX Technology range of digital addressable fire detectors. The detector plugs into the 5BEX base.
The 801FEx is a full featured solar blind flame detector and can detect a 0.1m2 fire at a range of 20 m.

516.800.066	801FEx I.R. Flame Detector

Technical data:

Mechanical Data	
Housing material:	FR110 'Bayblend', flame-retardant
Colour:	White
Dimensions (ø x H):	108 x 21.2 mm
with standard base:	108 x 21.2 mm
Weight:	110 g
Electrical Data	
Supply voltage from the loop:	20–40 V DC
Current input quiescent mode (max.):	0.35 mA in
in alarm mode (max.):	approx. 3.3 mA
Other electrical data + Intrinsic Safety Rating	
Max. safe voltage:	28 V
Max. safe current:	93 mA
Max. input power:	650 mW
Equivalent inductivity:	0
Equivalent capacity:	0
Ambient conditions	
Operating temperature:	-20°C to +70°C
Storage temperature:	–40°C to +80°C
Humidity without condensation:	99% (short-term, max.)
Non-condensing ambient humidity:	90% (long-term, max.)
Approvals:	ATEX: Ex II 1G, CENELEC: EEx ia IIC T4

Features

- Optical smoke only detector (sensitivity–High, Normal or Low)
- HPO smoke detector (sensitivity–High, Normal or Low)
- Heat only rate-of-rise (A1R) detector (no sensitivity selection)
- Heat fixed temperature 60°C (A2S no sensitivity selection)
- Optical (sensitivity–High, Normal or Low) combined with heat fixed temperature 60°C (A2S)
- HPO (sensitivity–High, Normal or Low) combined with heat fixed temperature 60°C (A2S)

MR601TEx High Performance Optical Smoke

The MR601TEX has been developed to overcome the slower response of the optical detectors to hot burning fires, by increasing the sensitivity of the optical detector when it is associated with a rapid change in temperature. In this way it is intended to become a detector which can cover some of the risks currently covered by ion chamber detectors. Smoke detectors will not detect burning alcohol or other clean burning liquids which do not generate smoke particles.

516.054.011.Y	MR601TEX Conventional High Performance Optical Smoke Detector

Technical data:

Mechanical Data	
Operating Temp:	-20°C to +70°C
Storage Temp:	-25°C to +80°C
Relative Humidity:	95% non-condensing
ATEX Code:	Ex II 1GD
Cenelec Code:	Ex ia IIC T5/ Ex iaD 20 T100°C

MD601Ex & MD611Ex Heat Detectors

If environmental conditions rule out the use of smoke detectors, then a heat detector of the type MD601Ex/ MD611Ex may provide an acceptable, though less sensitive, alternative. For general use, and particularly where the ambient temperature may be low, a 'Rate-of- Rise' heat sensor is to be preferred. This type of sensor reacts to abnormally high rates of change of temperature and provides the fastest response over a wide range of ambient temperatures. A fixed temperature limit is also incorporated in these detectors. In many environments, e.g. kitchens and boiler rooms, sudden, large changes in temperature are considered 'normal'. Rate-of-rise detectors are generally not suitable in these cases and fixed temperature [static] types should be used.

516.052.051.Y	MD601EX Conventional Rate of Rise Heat Detector
516.052.041.Y	MD611EX Conventional Fixed Temperature Heat Detector

Technical data:

Mechanical Data	
Operating Temp:	-20°C to +70°C
Storage Temp:	-25°C to +80°C
Relative Humidity:	95% non-condensing
ATEX Code:	Ex II 1GD
Cenelec Code:	Ex ia IIC T5/ Ex iaD 20 T100°C

MDU601Ex Enhanced Carbon Monoxide Fire & Heat Detector

The MDU601EX detector is a combined CO and Rate of Rise Heat Detector where the sensitivity of the CO detector is enhanced in response to a fast rate of change of temperature.

516.061.001.Y	MDU601EX Enhanced Carbon Monoxide Fire & Heat Detector

Technical data:

Mechanical Data	
Operating Temp:	-10°C to +55°C
Storage Temp:	-20°C to +55°C
Relative Humidity:	90% non-condensing
ATEX Code:	Ex II 1GD
Cenelec Code:	Ex ia IIC T5/ Ex iaD 20 T100°C

601FEx Ex Flame Detectors

Flame detectors, unlike smoke and heat detectors, do not rely on convection to transport the fire products to the detector nor do they rely on a ceiling to trap the products. They can therefore be used to protect large open areas without sacrificing speed of response to flaming fires. In order to ensure full coverage however, flame detectors do require direct line of sight to all parts of the protected area.
Infra-red flame detectors such as the 601FEx are designed to respond rapidly to fires which involve clean- burning fuels such as alcohol or methane, i.e. fires which would not be detected by smoke detectors.
The 601FEx Flame Sensor, by virtue of its operating wavelength and flicker discrimination is insensitive to normal environmental influences. For outdoor use a solar-blind detector [e.g. the S200 Plus] should be used. The 601FEx Flame detector should, normally, only be used inside buildings to supplement heat and smoke detectors.

516.600.066	601FEx Infra-Red Flame Detector

Technical data:

Mechanical Data	
Operating Temp:	-20°C to +70°C
Storage Temp:	-40°C to +80°C
Relative Humidity:	95% non-condensing
ATEX Code:	Ex II 1GD
Cenelec Code:	Ex ia IIC T4/ Ex iaD 20 T135°C

5BEX Detector Base and Ancillaries

517.050.023	5BEX 5" Universal Ex Base

Technical data:

Mechanical Data	
Operating Temp:	-25°C to +70°C
Storage Temp:	-40°C to +80°C
Relative Humidity:	95% non-condensing
ATEX Code:	Ex II 1GD
Cenelec Code:	Ex ia IIC T5/ Ex iaD 20 T100°C

MCP220Ex I.S. Callpoint–ATEX Approved

The MCP220Ex is an intrinsically safe conventional callpoint for use on the ATEX Certified System.

514.001.109	MCP220Ex Red Callpoint Intrinsically Safe for Use With ATEX Certified Conventional System 620

Features

- Intrinsically Safe
- Weatherproof to IP67
- Compatible with System 620

Technical data:

Electrical Data	
Dimensions:	93H x 98W x 66D mm
Weight:	270 g
Material:	PC/ABS
Colour:	Red
IP Rating:	IP67
ATEX Code:	Ex II 1GD
Cenelec Code:	EX ia IIC T4 Ga /EX iaD T135°c Da SIRA
ATEX Cert:	06ATEX2131X

BG Conventional Callpoint EX II 2 GD

This EX II 2 GD Dust Approved & Increased Safety (EExemd) Conventional Break Glass Manual Alarm Call Point is fitted with a 470 ohm Alarm Level Resistor and a 4K7 ohm EOL Resistor for use with Tyco Conventional Detection Circuits including the DIM800 and DDM800 MZX Modules.
The unit's housing is made of polyester, therefor remaking it light, strong and not subject to corrosion. No hammer is required to operate this callpoint. The glass is covered by a membrane, thus protecting the operator from glass fragments.
It is also fitted with a removable link which allows it to be connected on its own or with other Conventional Devices to a Tyco Conventional Detection.

Features

- Polyester Enclosure
- Explosion protected EExe (ATEX Approved)
- In line and end of line resistors
- 9 x terminals
- Lift flap for protection against inadvertent operation
- 1 x changeover switch
- Captive cover screws
- No hammer required
- Key operated test facility – simple but secure
- 2 x M20 bottom cable entries

514.001.108	EX II 2 GD Dust Approved & Increased Safety (EExemd) Conventional Break Glass Manual Alarm Callpoint

Technical data:

Electrical Data	
Protection:	Explosion Protected EExed (Increased Safety) tube
Voltage:	Up to 250 V
Certified Temperature:	-20°C to +50°C IP66
IP rating:	& IP67
Terminals:	9 x 2.5 mm – up to 60 V
Switch Ratings (1 x Changeover):	DC 0-30 V 5 A (Resistive) or 3 A (Inductive) 30-50 1 A Resistive or Inductive AC 0-254 V 5 A Resistive or Inductive
Cable Entries:	2 x M20 Bottom
Weight:	1.2 Kg
Material:	Anti Static U.V. Resistant Glass Reinforced Polyester
Finish:	Red Epoxy Paint
Resistors:	Alarm: 470 Ohm EOL: 250 Ohm
Labelling:	Burning House Symbol ATEX
Certification:	Approved Ex II 2 GD BAS02ATEX2105X EExedmIICT4 CENELEC EN50014 EN50019 / EN50018 / EN50028 Suitable for use in Zones 1 & 2

MIM800 Input Module in EExd Housing

An EExd Flameproof MIM800 Addressable Module for extending the monitoring of Call Points and other Alarm Inputs on an MZX, ZX and MZX Addressable System in gas and dust explosive risks.
Please note that the above part is only compatible with Consys Version 17.0 and above when used with 514.001.107.

577.800.067	MIM800 Input Module in EExd Housing

Technical data:

Electrical Data	
Protection:	Explosion Protected EExd (Flameproof)
Voltage:	40Vdc
Certified Temperature:	-20°C to +55°C
IP rating:	IP67
Terminals:	9 x 2.5 mm²
Cable Entries:	3 x M20 (No Blanking Plugs)
Weight:	0.8 Kg
Material:	Metal Alloy Aluminium-Copper Free
Dimensions (HxWxD):	98 x 108 x 90 mm
Certification:	Ex II 2 GD LOM02ATEX2037 EExdIICT6 CENELEC EN50014 EN50018 EN50019 EN50281-1-1 EN60439-1 Suitable for use in Zones 1 and 2 to IEC 60079-10 Suitable for use in Zones 21 and 22 to EN50281-3

BG MIM800 Callpoint EX II 2 GD

An Ex II 2 GD Dust Approved & Increased Safety (EExemd) Resettable Manual Alarm Call Point for use with the EExd Flameproof MIM800 input module in EExd housing on an Addressable Detection & Releasing System in gas and dust explosive risks.
Please note that the above part is only compatible with Consys Version 17.0 and above when used with 577.800.067.

514.001.107	EX II 2 GD Dust Approved & Increased Safety (EExemd) Resettable Manual Alarm Callpoint

Features

- Glass Reinforced Polyester Enclosure – light, strong and not subject to corrosion
- Resettable Element
- Explosion protected EExe (ATEX Approved)
- In line and end of line resistors
- Red Epoxy Finish
- 7 x terminals
- Lift flap for extra protection against inadvertent operation
- 1 x changeover switch
- Captive cover screws
- Key operated test facility – simple but secure
- 1 x M20 bottom cable entry

Technical data:

Electrical Data	
Protection:	Explosion Protected EExed (Increased Safety)
oltage:	Up to 250 V
Certified Temperature:	-20°C to +50°C IP66
IP rating:	& IP67
Terminals:	7 x 2.5 mm²
Switch Ratings (1 x Changeover):	DC 0-30 V 5 A (Resistive) or 3 A (Inductive) DC 30-50 V 1 A Resistive or Inductive AC 0-254 V 5 A Resistive or Inductive 1 x M20 Bottom 1.2 Kg
Cable Entries: Weight:	Anti Static U.V. Resistant Glass
Material:	Reinforced Polyester
	Red Epoxy Paint
Finish:	Alarm: 100 Ohm
Resistors:	EOL: 250 Ohm
Labelling:	Burning House Symbol 126H
Dimensions:	126 x 120 x 75 mm
Certification:	ATEX approved Ex II 2 GD BAS02ATEX2105X EExemdIICT4 CENELEC EN50014 EN50019 EN50018 EN50028 Suitable for use in Zones 1 & 2

CP840Ex Break Glass Callpoint

Is designed to monitor and signal the condition of a switch contact associated with the break glass.

514.800.513	CP840Ex Break Glass Callpoint

Technical data:

Mechanical data	
Dimensions (W x H x D):	135 × 135 × 30 mm
IP rating:	IP 67
Installation application:	Indoor and outdoor
Ambient conditions	
Operating temperature:	-10 to +70°C
Rel. humidity (noncondensing):	max. 95%
Approvals:	- BAS01 ATEX 1394X - ATEX Code Ex II 1GD/3G - Cenelec Code EEx ia IIC T5

CP850Ex Heavy Duty Callpoint

The CP850Ex callpoint is for use in potentially explosive gas and dust atmospheres (zone 0 gas, zone 20 dust). The callpoint is designed to comply with EN/IEC 60079-0:2018 and EN/IEC 60079-11:2012 for Intrinsically Safe apparatus.
This device is of an extremely robust construction and is especially suitable for use in applications and installations that are situated in hostile locations or external exposed areas. This is an addressable callpoint and can be used with the current range of MX based panels.
As this device conforms to ATEX zoned requirements suitable barriers and interface modules must be used.

Features

- Red LED to indicate condition
- IP66
- ATEX code: Ex II 1 GD CE 1180
- Certificate: BASEEFA19ATEX0147X
- Gas/Dust code:
  - Ex ia IIC T4 Ga (-40°C < Ta < +70°C)
  - Ex ia IIIC T135°C Da (-40°C < Ta < +70°C)
- IECEx Certificate: IECEx BAS19.0127X
- SIL2 approval

514.001.100	CP850Ex Heavy Duty Callpoint
515.001.055	rangible Element for CP850Ex

IF800Ex Interface Module

The Intrinsically Safe IF800EX Interface Module is designed to monitor fire contacts such as sprinkler flow switches. The IF800Ex is contained within a grey compression moulded glass filled polyester box with 2 x 20mm cable gland holes.
The electronic components are mounted on a double sided printed circuit board built into a potted module formed from a plastic moulding. Connectivity is via two terminal blocks fitted to the PCB.

514.001.062	IF800Ex	MZX Digital Addressable Interface Module Assembly

Technical data:

Mechanical data	
Material:	Polyester housing, molded
Dimensions (W x H x D):	122 x 120 x 95 mm
IP rating:	IP 65
Electrical data	
Supply voltage:	18–24 V
Current input	5 mA (max.)
Ambient conditions	
Operating temperature:	-25°C to +70°C rel.
Humidity (non-condensing):	max. 95%
Approvals:	- ATEX Ex II 1 GD - Ex ia IIC T5 - Ex ia D 20 T100°C

I.S. Barrier DX170 Enclosure

The MTL DX170 enclosure will house the EXI800 (20 mm pitch), Pepperl & Fuchs KFDO-CS-Ex1.54 Galvanic Isolator (20 mm pitch) and the MTL5525 I.S. Sounder Driver (16.2 mm pitch). The units are DIN rail mounted 170 mm of rail. The enclosures are usually selected on the number of units they will accommodate.

517.001.247	I.S. Barrier DX170 Enclosure

Technical data:

Mechanical Data	
Dimensions (W × H × D):	270 × 360 x 184 mm
Number of insulators that can be installed:	
MTL5000 insulators with spacing of 16 mm: 10 units	
With additional installation of 2 IMB57 (insulating installation block): 8 units	
MTL7000 barrier with 7.5 mm spacing: 22 units	
With additional installation of 2 IMB57 (insulating installation block): 18 units	

Single channel KFDO-CS-EX1.54 Galv.Isolator

The galvanic isolator from PEPPERL + FUCHS together with the IS loop output of the EXI800 interface module with galvanic separation creates an interface between the loop and the intrinsically safe devices.

517.001.306	Single Channel KFDO-CS-EX1.54 Galv.Isolator

Technical data:

Approvals:	- ATEX: Ex II (1) GD - CENELEC: EEx ia IIC (Tamb = −20 to +60°C)

Dual channel KFDO-CS-EX2.54 Galv.Isolator

517.001.305	Dual Channel KFDO-CS-EX2.54 Galv.Isolator

EXI800 Interface Module

The EXI800 Interface Module when used with a galvanic isolator, provides a path for an MZX panel to transparently communicate to slave devices (800Ex Detectors. The EXI800 interface reduces the standard MZX loop supply voltage and signalling currents to levels that are acceptable for hazardous areas. The EXI800 can detect a short circuit on the left-loop, the right- loop, or the IS spur and will isolate the offending circuit from the other loop connections.
The IS loop output of the EXI800 interfaces with the Pepperl & Fuchs KFDO-CS-Ex1.54 Galvanic Isolator supplying loop voltage and signalling currents to the Intrinsically Safe Loop. Both single channel and dual channel Galvanic Isolators are available. The EXI800 is supplied complete with a service tool EX dongle that is required to activate the address programming when using the standard MZX service tool.

514.001.063	EXI800 Interface Module

Intrinsically Safe Barriers–Atex Approved

The following section relates to a range of intrinsically safe barrier and isolator equipment for use with ZETTLER fire detection systems. It essentially encompasses the relevant MTL5500 and MTL7700 series barriers plus the associated housing options as an alternative to existing MTL700 series equipment.
On all issues of intrinsically safe system design, please refer to Manual 26A for guidance.

Galvanic Isolators–MTL5500

The MTL5561 is a two channel interface for use with conventional detectors located in hazardous areas.
This galvanic isolator is CE marked, and replaces the MTL3043 barrier option. It is suitable for connecting loads in Zone 0, IIC, T4-T6 hazardous areas if suitably certified.
The MTL5525 Isolating Sounder Driver enables an intrinsically safe sounder located in the hazardous area, to be controlled from the safe area.
The MTL5525 barrier is designed as a CE marked replacement for the existing MTL3021 barrier. It has one channel and is suitable for connecting loads in Zone 0, IIC, T4-T6 hazardous areas if suitably certified.
When designing new systems or upgrading existing MTL3000 series systems to MTL5500 series, please use the appropriate MTL "DX" series enclosure equipment (16.2mm pitch).

517.001.302	MTL5561 2 Channel Galvanic Isolator
517.001.304	MTL5525 I.S. Sounder Driver

Zener Barriers–MTL7700

The MTL7700 Series intrinsically safe shunt-diode safety barriers are innovative devices designed to provide exceptionally high packing densities, straightforward installation and simplified connection, commissioning and maintenance facilities. The MTL7700 Series include secondary replaceable fuses. These are useful where there is the possibility of faults occurring during commissioning, which would otherwise blow the barriers' internal safety fuses.
One secondary replaceable fuse for each barrier channel is provided and is lower in value than the safety related fuse. Fuses are packaged in small mouldings which can be latched in a disconnect position to break the safe and hazardous areas during commissioning, maintenance and fault finding, thus avoiding the need for additional disconnect terminals.
Please note: This barrier is a direct alternative for the MTL728+ barrier.

517.001.301	MTL7728 + Zener Safety Barrier for Conventional Detection Circuits Designed in Accordance With System 601

UC Series Enclosures

The UC series of enclosures provides a simple but effective means of mounting and protecting the MTL3000 series units, in safe areas. A standard lightweight enclosure with transparent lid, which can accommodate 4 units. The polycarbonate enclosure is impact resistant, flame retardant and dustproof to IP65.

517.001.196	UC2 4 Way Barrier Housing

MT Series Enclosures

The MT series of enclosures provides a simple, effective means of mounting and protecting MTL700 Series barriers in safe areas or low-risk hazardous areas. Three lightweight polycarbonate enclosures with see through lids accommodate up to 2, 5 and 12 barriers in the safe area. All the enclosures are supplied ready fitted with a nickel plated brass busbar mount, so barriers can be installed and wired up immediately without special tools.

517.001.198	MT2	2 Way Barrier Housing
517.001.199	MT5	5 Way Barrier Housing
517.001.200	MT12	12 Way Barrier Housing

Ancillaries

The ERL7 earth rail is a nickel plated 3 x 10mm rail (1 metre long), suitable for a do-it-your self mounting arrangement. It will accommodate up to 2.5 ETM7 earth terminals per barrier location for terminating earth returns and cable screens from the hazardous area.
The IMB7 mounts on a flat surface or top hat rail (35mm) or G-profile rail and acts as a convenient method for mounting the earth busbar.

517.001.205	ERL7	Earth rail for I.S. systems
517.001.206	ETM7	Earth termination connection system

I.S. Barrier DX170 Enclosure

The MTL DX170 enclosure will house the EXI800 (20 mm pitch), Pepperl & Fuchs KFDO-CS-Ex1.54 Galvanic Isolator (20 mm pitch) and the MTL5525 I.S. Sounder Driver (16.2 mm pitch). The units are DIN rail mounted 170 mm of rail. The enclosures are usually selected on the number of units they will accommodate.

517.001.247	I.S. Barrier DX170 Enclosure

Technical data:

Mechanical Data	
Dimensions (W × H × D):	270 × 360 x 184 mm
Number of insulators that can be installed:	
MTL5000 insulators with spacing of 16 mm: 10 units	
With additional installation of 2 IMB57 (insulating installation block): 8 units	
MTL7000 barrier with 7.5 mm spacing: 22 units	
With additional installation of 2 IMB57 (insulating installation block): 18 units	

I.S. Barrier DX070 Enclosure

The MTL DX070 enclosures will house the EXI800 (20 mm pitch), Pepperl & Fuchs, KFDO-CS-Ex1.54 Galvanic Isolator (20 mm pitch) and the MTL5525 I.S. Sounder Driver (16.2 mm pitch). The units are DIN rail mounted with 70 mm of rail. The enclosures are usually selected on the number of units they will accommodate.

517.001.248	I.S. Barrier DX070 Enclosure

Technical data:

Mechanical Data	
Dimensions (W × H × D):	125 × 175 × 150 mm
Number of insulators that can be installed:	
MTL5000 insulators with spacing of 16 mm: 4 units	
With additional installation of 2 IMB57 (insulating installation block): 2 units	
MTL7000 barrier with 7.5 mm spacing: 9 units	
With additional installation of 2 IMB57 (insulating installation block): 5 units	

DB3B Flameproof Horn Sounder

This lightweight all GRP flameproof sounder is intended for use in potentially explosive gas and dust atmospheres and has been designed with high ingress protection to cope with the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

DB3BDGD048N2BNR	DB3B Flameproof Horn Sounder

Features

- For use in hazardous areas
- Robust GRP construction
- Powerful Output, up to 122dBA

Technical data:

Electrical Data	
Voltage:	12 VDC to 48 VDC
Certified Temperature:	-55°C to +70°C
IP rating:	IP67
Terminals:	6 x 2.5mm^2
Mounting:	Stainless steel bracket with ratchet facility
Cable Entries:	2 x 20 mm EExd.
Tone Selection:	27 user selectable tones.
Material:	Body & horn in anti-static, UV stable, glass reinforced polyester. Swivel bracket & captive cover screws in stainless steel.
IP rating:	IP66 & IP67
Certification:	NEMA 4X & 6 ATEX Ex d Gas & Dust Cert. no. Baseefa13ATEX0231X. Certified to: EN60079-0,1,31Ex II 2GD, Ex d IIC T4/T5/T6 Gb, Ex tb IIIC T135°C/ T100°C/T85°C Db, IP66
DB3BDGD048N2BNR	DB3B Flameproof Horn Sounder

Intrinsically Safe Xenon Beacon

This ruggedised, intrinsically safe and weatherproof beacon is intended for use in potentially explosive atmospheres, and has been designed with high ingress protection to cope with the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

540.001.038	Intrinsically Safe Xenon Beacon

Technical data:

Mechanical data	
Material:	Polyester / polycarbonate
Dimensions (ø X H):	145 × 105 mm
IP rating:	IP 65
Electrical data	
Supply voltage:	24V DC
Current input:	71 mA
Flashing speed:	1 flash per second
Ambient conditions	
Ambient temperature:	–55°C to +60°C IP
IP rating:	IP66/67
Approvals:	CENELEC EN 50014, 20 & 39 BAS02 ATEX 1258X EEx ia IIB T4 zones: 0, 1 and 2

XB11 Flameproof Xenon Beacon

These certified beacons have been designed for use in potentially explosive gas and dust atmospheres and harsh environmental conditions. The glass reinforced polyester enclosures are suitable for use offshore or onshore, where light weight combined with corrosion resistance is required.

Please Note:

This beacon should be used for supplementary indication purposes only. In this case the device is not required to be used as a Visual Alarm Device (VAD) and EN54-23 is not relevant to its classification.

540.001.039	Flameproof Xenon Beacon (XB11B02406RNBNNNR)

Features

- Robust Corrosion Resistant GRP body
- High Power (5 Joule)
- Certificated Flameproof

Technical data:

Electrical data:	
Voltage: Peak Current	24 Vdc
Consumption:	320 mA
Power Consumption:	8W
Tube Energy: Effective	5 Joules
Intensity: Peak	29 Cd
Intensity:	22213 Cd
Certified Temp:	EExd -55°C to +70°C (T4) - 55°C to + 55°C (T5) - 55°C to + 40°C (T6)
Supply voltage:	40 V
Weight:	2.5Kg
Body Material:	Glass reinforced polyester
Cover Screws & Backstrap: Finish:	Stainless steel 316 Red
IP rating:	IP66 & IP67
Certification:	ISO EExd. BASEEFA EExd IIB 135°C (-55 to AMB +70°C)T4 100°C (-55 to AMB + 55°C)T5 85°C (-55 to AMB + 40°C)T6 Cert. No. 99 ATEX 2195X CENELEC EN50014 and EN50018

IS28 MK6 Banshee Sounder

With 32 high and low frequency tones to suit a wide range of applications. ATEX and IECEx approved for use in Zones 0 and 20 (Gas and Dust) and is suitable for use in zones 1, 2, 21 and 22.

576.501.053	BE-W IS28	MK6 Banshee Sounder

Features

- Intrinsic Safety Approval: EN 60079-0:2012 + A11:2013, General Requirements
- EN 60079-11:2011, Intrinsic Safety 'i'
- Group II, Category I, Explosive Atmosphere G (Gas) and D (Dust)
- IECEx ITS17.0011X
- ATEX ITS 17ATEX201739X
- Ex ia IIC T5 Ga
- Ex ia IIIC T100degC Da IP66
- ATEX-II IGD Ex ia T5 Ga

Technical data:

Mechanical Data	
Material:	ABS
Dimensions (W x H x D):	92 x 92 x 95 mm
Electrical Data	
Supply voltage:	24vDC
Typical Current input:	15 mA (high frequency tones), 11 mA
Ambient Conditions	
Operating temperature:	-40 +70°C
IP rating:	IP66 (when installed with fixing clip)

FLAMEVision Flame Detectors

The FLAMEVision flame detectors use patented IR array and triple IR solar blind technologies to provide reliable and cost effective fire detection solutions. FLAMEVision can be trusted in high dependency situations where fast acting and accurate flame detection is essential. FLAMEVision detectors offer superior performance in all weather conditions and all lighting situations with the added benefit of fire event location information provided by the IR array.
FLAMEVision can protect all hydrocarbon risks in classified hazardous explosive and non hazardous atmospheres. There is a wide range of system design options available with flexible monitoring and control interfaces and integrated video camera for verification purposes. Installation and maintenance procedures are easy and efficient, minimising the lifetime cost of ownership and reducing the need for complex test equipment and high level operator training.

Features

- Reliability Choice of IR array or enhanced Triple IR solar blind technologies allow users to tailor their systems to provide reliable and fast fire detection
- Fast Acting FLAMEVision reacts to minimise the effect of fire and improve life safety through detection with less disruption and downtime
- Accuracy Event location information will pin point fire using the IR array to allow targeted shutdown and suppression
- Operator verification The optional built-in video camera assists operator verification and ensures optimum actions are taken. Additional benefit of post event analysis and to aid and verify alignment
- Optimum protection in all weather conditions FLAMEVision maintains sensitivity using the enhanced IR sensors through heavy rain, snow, fog and morning dew
- Use in Hazardous explosive atmospheres FLAMEVision is approved for protection regardless of area classifications for all applications throughout the facility
- Reduced spares inventory and simpler maintenance Intrinsically safe, low cost and easy to use test equipment simplifies maintenance and reduces service costs. Universal mechanical mounting and cabling arrangements makes FLAMEVision installation friendly
- Easy integration FLAMEVision interconnects to site control and safety systems via a range of standard industrial interfaces
- Dynamic masking FLAMEVision maintains detection coverage even when a flame is part of the process being protected
- Complete piece of mind FLAMEVision detectors continually monitor all electronics and perform regular optical window tests

FLAMEVision FV400

FLAMEVision FV400 uses Triple IR Solar Blind technology for flame detection. This provides a reliable and cost effective solution in standard flame detection applications especially where there is a single hazard in the field of view.
The FV400 FLAMEVision detectors use Triple IR Solar Blind sensing technology and flame detection algorithms to provide high performance sensing capabilities for hydrocarbon fires. This includes the ability to reliably sense flames through high densities of solvent vapours and black smoke, increasing the probability of early detection with consistent high sensitivity to flame throughout the whole field of view. They also ensure consistent detection of many different types of hydrocarbon fuels from alcohol to aviation fuel. Multiple interfaces are provided with the option of an integral CCTV camera to provide a visual means of operator verification.

Features

- Triple IR solar blind sensing technology
- Multiple Field Interfaces
- Detection range: Up to 65m for 0.1m2 n-heptane pan fire
- Automatic optical path monitoring,
- Integral flame simulation and remote walk test help reduce the on going life time cost of the flame detecti installation
- Video verification via the integrated optional flameproof camera

516.300.411	FV411f Triple Infrared Flame Detector
516.300.412	FV412f Triple Infrared Flame Detector with PAL Camera
516.300.413	FV413f Triple Infrared Flame Detector with NTSC Camera
516.300.421	FV421i Triple Infrared Flame Intrinsically Safe Detector

Technical data:

Mechanical–Detector	
Dimensions (W x H x D):	155 x 156 x 99 mm
Weight:	4kg
IP rating:	IP 66
Materials	
Housing:	Stainless steel 316L, ANC4BFCLC in acc. with BS 3146: Part 2
Alarm window:	Sapphire glass
Camera window:	Hardened glass
Electrical data	
Supply voltage:	18–30 V
Current input:	12mA Quiescent–20 mA Alarm (24Vdc-Interface dependent)
Camera:	185 mA @24 Vdc
Heater:	245 mA @24 Vdc
Detector performance	
Range(0.1m² n heptane):	65m
Field of view:	zontal, 85° vertical
Interfaces	
Modbus 4-20mA Sink or source Conventional detector I/F Tyco MZX Digital Fire & fault relay contacts NO or NC Composite Video o/p (Camera option only) Hart interface (Implemented in future software update)	

FLAMEVision FV400

Technical data:

Ambient conditions	
Humidity (non-condensing)	max. 99%
FV411F	
Operating temperature:	- 40°C to +80°C rel.
Storage temperature	- 40°C to +80°C rel.
FV412F/FV413F	
Operating temperature (camera on):	- 10°C to +50°C rel.
Operating temperature: (camera off):	- 40°C to +80°C rel.
Storage temperature:	- 20°C to +70°C rel.
Approvals:	
ATEX:	EX II 2 G D
ECEx/Cenelec:	
FV411F	
Ex d IIC T4 Gb Ta -40°C to +80°C Ex d IIC T5 Gb Ta -40°C to +75°C Ex tb IIIC T135°C Db Ta -40°C to +80°C Ex td IIIC T100°C Db Ta -40°C to +75°C	
FV412F and FV413F	
EX d IIC T4 Gb Ta -40°C to +80°C EX d IIC T5 Gb Ta -40°C to +70°C EX td IIIC T135°C Db Ta -40°C to +80°C EX td IIIC T100°C Db Ta -40°C to +70°C	

Ancillary Equipment

517.300.001	MB300	FLAMEVision mounting bracket
517.300.002	WH300	FLAMEVision weather hood
517.300.021	WT300	FLAMEVision walk test tool
517.300.006	MK300	FLAMEVision field spares kit

FLAMEVision CTI420 Configuration Tool Kit

517.300.024	CTI400	Flamevision Offline Configuration Tool
517.300.025	CTI420	FLAMEVision CTI420 Configuration Tool Kitbase

Kit includes:

- PCBA CTI420i IS INTERFACE
- DR CT420 FRONT COVER SCREEN
- DR CTI420 HOUSING REAR COVER
- PSU AC/DC 24V 15W
- CABLE USB-RS485 I/F 1.8M
- SCREW DIN 965 M3X6 CSK POZI ST
- SCREW M3 X 6LG PAN ZINC/PAS POZIDRIV. STEEL LTAFA INTERNAL REF ONLY. NOTE: ITE
- GROMMET 5MM BORE BLACK PVC
- CABLE TIE 115MM LG 2.5MM WIDE
- LL FV-D-CTI420i-F

ProReact Analogue Heat Detector

ProReact Analogue Heat Detector system consists of a control module and four core detection cable designed to interface to a conventional fire alarm panel or DIM800 or DDM800 addressable module. The control module monitors the resistance of specially doped polymers within the sensor cable which change as a function of temperature. An abnormal change in resistance along the detection cable triggers either a Pre- Alarm or Alarm on the interface module.
The system is intended to simplify system design and be uncomplicated and straightforward to install. Commissioning of the controller can be done using a laptop computer or through an optional built-in self-programming module. The sensor cable has been designed to be physically and electronically rugged to suite a range of environments with options for PVC, Polypropylene or Nylon coatings or a strong stainless steel braid.
The ProReact technology offers an alternative solution to heat protection in a wide range of applications and industries, from power generation to oil and gas.

Features

- Alarm & Pre-Alarm temperature ranges from 54-100°C
- Programmable on-site adjustment of sensitivity.
- Up to 500 m continuous length
- Alarm hot-spot length equal to 3% of zone length
- Separate Alarm and Pre-alarm volt-free outputs
- No nomograms or other scales to interpret
- Simple, 3-Step Installation:
- Ambient temperature compensation maintains alarm temperature accuracy
- Self-Restorable after fire event up to 125°C
- Flexible cable for easy mechanical installation
- Reliable signalling of open and short circuit conditions
- Extrusion and Braiding options to satisfy both mechanical and environmental conditions

516.016.016	ProReact Analogue Controller with Display Including EOL Unit
516.016.017	ProReact Analogue Controller Including EOL Unit
516.016.018	End of Line Unit (Spare)

Technical data:

Environmental	
Ambient Operating Temp (Controller):	0°C to +50°C
Sensor Cable (Recoverable):	- 40°C to +125°C
Continuous Sensor Cable Operating Temp:	- 40°C to +90°C
Humidity–Controller:	0%–95% RH (Max. 75% RH for <75 m cable and 54°C alarm setpoint)
Humidity–Cable:	0%–99% RH
Electrical	
Operating Voltage:	20 Vdc – 28 Vdc
Current Consumption (Normal & Fault):	<70 mA (Base PCB only < 50 mA)
Pre-alarm OR Alarm Conditions:	<80 mAPolyester
Pre-alarm AND Alarm Conditions:	<100 mA
Relay outputs:	2A @ 30 Vdc load rating–resistive

Linear Heat Detection Cable

516.016.019	ProReact Analogue Cable PVC Order in Multiples of 200
516.016.020	ProReact Analogue Cable PVC Order in Multiples of 500
516.016.021	ProReact Analogue Cable with Additional Polypropylene Coating order in Multiples of 200
516.016.022	ProReact Analogue Cable Polypropylene Coating Order in Multiples of 500
516.016.023	ProReact Analogue Cable Nylon Coating Order in Multiples of 200
516.016.024	ProReact Analogue Cable Nylon Coating Order in Multiples of 500
516.016.025	ProReact Analogue Cable Stainless Steel Braid Order in Multiples of 200
516.016.026	ProReact Analogue Cable Stainless Steel Braid Order in Multiples of 500

ProReact EN Analogue System

Thermocable's ProReact EN Analogue LHD system has a wide range of available alarm temperatures to suit different environments. All of which can be programmed on the LCD display of the ProReact EN Analogue Composite Control Unit or through a laptop connection.
Installers can also select pre-alarm temperatures through the ProReact EN Analogue Composite Control Unit to receive an early notification of an unexpected rise in temperature before a chosen alarm temperature is reached.
Each Composite Control Unit comes with a Modbus RS-485 output and an inbuilt test feature as standard.
The ProReact EN Analogue End-of-line Unit is compulsory in all ProReact EN Analogue LHD systems as it has a key role in the operation of the technology, allowing the control unit to detect a short circuit or open circuit in the sensor cable.
The Junction Box is an optional component that can be employed to connect different lengths of ProReact EN Analogue Sensor Cable together should it be required.

Features

- Approved to UL521
- Approved to EN54-22:2015 Class A1I, A2I and BI as certified by VdS Global
- Up to 500 metres of linear heat detection cable per zone
- Self-Restorable after fire event up to 125°C
- Flexible cable for easy mechanical installation
- Reduced likelihood of false alarms through a temperature compensation feature

Typical Markets:

- Car parks
- Cable trays
- Conveyors
- Factories and processing plants
- Warehouses

516.016.153	Analogue Composite Control Unit and ProReact EN Analogue End-of-Line Unit
516.016.154	Analogue Composite Control Unit
516.016.155	Analogue Junction Box
516.016.156	Analogue End-of-Line Unit

Technical data:

Mechanical data	
Dimensions (control unit H x W X D):	180mm x 182 x 90mm
Dimensions (EoL unit H x W X D):	35 x 100 x 60mm
Weight (control unit):	860g
Weight (EoL unit):	115g
IP rating (control unit)	IP65
IP rating (EoL unit)	IP65
Environmental	
Continuous Operating Temperature (Control Unit):	-20°C to +50°C
Continuous Operating Temperature Range (EoL unit):	-40°C to +125°C
Continuous Operating Humidity Range (Control unit): Range (Control Unit):	0% to 95% RH (ambient temperatures -20°C to +30°C) 0% to 75% RH (ambient temperatures greater than +30°C)
Continuous Operating Humidity Range (EoL unit): Range (Control Unit):	0% to 99% RH (ambient temperatures between -40°C to +40°C) 0% to 75% RH (ambient temperatures greater than +40°C)
Electrical data	
Operating voltage:	20 – 30vDC
Max power consumption:	2W

ProReact EN Analogue PVC Coated Sensor Cable

Thermocable's ProReact EN Analogue Composite Control Unit detects changes in temperature which result in changes in resistance along the ProReact EN Analogue PVC Coated Sensor Cable. The sensor cable is a multi-core linear heat detector that has a flame-retardant PVC outer jacket and an ability to withstand ambient temperatures as low as -40°C.
Up to 500 metres of ProReact EN Analogue PVC Coated Sensor Cable can be installed in a single zone.
A benefit of Thermocable's ProReact EN Analogue LHD system is that it is a resettable fire detection system. The sensor cable does not have to be replaced following an alarm as long as the sensor cable is not subject to a temperature above its maximum recoverable temperature of 125°C.

Features

- EN54, VdS, and UL521 approved
- Self-Restorable after fire event up to 125°C
- Up to 500m in a single zone
- Ambient temperatures as low as -40°C

Technical data:

Electrical data	
Construction:	Overall insulated, 4-core twisted and foil-shield with shield wire
Insulation:	1kV insulation tested, PVC outer coat
Max Zone Length:	500m
Wire Overall Diameter:	4.83mm +/- 0.2mm
Minimum Bend Radius:	60mm
Ambient Temp Range:	-40°C to +125°C
Approvals	
VdS, EN54-22 and UL521	

516.016.150	100m	ProReact EN Analogue PVC Coated Sensor Cable
516.016.151	250m	
516.016.152	500m	

ProReact Digital Interface Monitor Module

Thermocable's ProReact Digital interface Monitor Module (DiMM) is designed to enhance the functionality of existing or new Digital LHD systems. The Module is intended to be installed between the Digital LHD cable and a conventional or addressable fire alarm control panel.
The DiMM simultaneously monitors two zones of Digital LHD cable (up to 3,000 metres per zone) for an alarm or fault condition. If an overheat or fire situation triggers either zone of the Digital LHD cable, the DiMM automatically calculates and displays the distance along the cable, in feet and metres, to the alarm point. The two zones can operate independently of each other or in interlock/coincidence detection mode to eliminate the possibility of false alarms. An RS-485 Modbus RTU output also allows direct connection into a PLC or other process control system.

516.016.027	ProReact Digital Interface Monitor Module (2-zone Independent/ Interlock Monitoring Unit)
516.016.028	LHD Junction/EOL Box Polycarbonate w/5 DIN Rail Mounted Terminals & 2 Cable Glands
516.016.029	ProReact Digital One or Two Zone Digital LHD End-of-Line Box With Test Facility

Features

- Advanced functionality for traditional Digital LHD systems
- Pinpoints exact location of an incident and responds immediately
- Simultaneous monitoring of up to two zones
- Power indicator, fault and alarm lights for each zone
- Volt-free outputs for fault and alarm, corresponding to each zone
- Can be connected to an industrial process control system using the two-wire RS485 Modbus RTU output
- Built-in sounder for audible annunciation
- Interlock/Coincidence detection eliminates the possibility of false alarms by requiring both LHD cables to trigger before transmitting an alarm

Technical data:

Mechanical	
Dimensions (W x H x D):	180 x 120 x 60.5 mm
Rating:	NEMA 4, 4X (IP65)
Finish:	Light Grey with clear lid
Display:	2 line, 16 character backlit display showing zone status
Terminal block spacing:	5mm Rising Clamp
Terminal block wire size:	0.08mm² (28AWG) to 4mm² (11AWG)
Electrical**	
Operating voltage (UL Tested):	14Vdc Min / 24Vdc Nominal / 36Vdc Max
Operating voltage:	12Vdc Min / 24Vdc Nominal / 36Vdc Max
Current cons. (Standby):	<15mA Min / <7mA Nominal / <5mA Max
Current cons. (Alarm):	<40mA Min / <23mA Nominal / <15mA Max
Terminal block rating:	16A
Supervised circuits:	Power, Input Zone 1 & Input Zone 2
Environmental	
Operating Temperature:	-20°C to +50°C

ProReact EN Digital System

Thermocable's ProReact Digital Sensor Control Unit (DSCU-EN) is a dual zone module for monitoring up to two zones of ProReact EN Digital Linear Heat Detection (LHD) Cable. The unit is intended to be installed between the Digital LHD cable and a conventional or addressable fire alarm control panel. It has power, fault and alarm lights, as well as volt free outputs for fault and alarm, corresponding to each zone. It may also be connected to an industrial process control system using the two wire RS-485 Modbus RTU/ ASCII output.
If an overheat or fire occurs, the unit automatically calculates and displays the distance along the cable, in feet and metres, to the alarm point. The two zones can operate independently of each other, or in interlock mode and a separate alarm and normally conducting fault output are provided for each zone.
The Digital End-of-Line Unit (EOLU-EN) is designed to effectively terminate up-to two zones of ProReact EN Digital LHD cable in a secure, weatherproof enclosure.
Built in switches for testing a fault and alarm condition allow the integrity of the whole system to be functionally checked in situ, providing comprehensive testing and maintenance of the system.

516.016.174	Digital Sensor Control Unit
516.016.175	EN Digital End Of Line

Features

- The first digital linear heat detection system to be certified to EN54-28:2016
- Activation temperatures of 78°C and 88°C for ambient temperatures up to 45°C and 65°C respectively
- EN54-28, UL and RoHS compliant
- Available in 100m and 500m reels for each temperature
- Wide coverage–up to 1,000 metres (3,280 ft) of ProReact EN Digital LHD cable per zone
- Can monitor up to two zones of ProReact EN Digital LHD cable

Typical Markets:

- Car parks
- Oil and gas tank farms
- Mines
- Cable trays
- Cold storage
- Conveyors

Technical data:

Mechanical data	
Dimensions (control unit H x W X D):	180mm x 120 x 60.5mm
Dimensions (EoL unit H x W X D):	94 x 94 x 57mm
IP rating (EoL unit)	IP66 (supplied with 2 IP67 cable glands)
Environmental	
Operating Temperature Range:	-20°C to +50°C
Electrical data	
Operating voltage:	12 – 36vDC
Max current consumption:	40mA (alarm at 12vDC)
Approvals	
EN54-28:2016 and UL	
Inputs*	
Max zone length:	3000m
Min zone length:	1m
End of line resistor:	1k ohm (Included)
Short circuit current:	0.5mA
Max voltage:	5V
Ground fault impedence:	0 ohms
Outputs	
Communications:	2 wire RS-485 Modbus RTU/ASCII
Sounder:	2.4kHz 92dBa@10cm Buzzer
Max voltage:	30Vac or 42.4Vdc
Max current:	2A
Max switching power:	60W, 62.SV
Fault:	2 x optoisolated photo-transistor output
Max voltage:	35Vdc
Max current:	80mA
Max power dissipation:	150mW

ProReact Digital Linear Heat Detection Cable

Thermocable's ProReact Digital LHD cable has been designed to provide users with fire detection at the point of risk. Every inch of the ProReact Digital LHD cable acts as a detector providing extensive and comprehensive detection over large areas.
ProReact Digital LHD cable triggers a response when a specific activation temperature is reached. The extensive range of coatings and detection temperatures provides users with a suitable method of fire detection for a wide range of applications.
Typical applications for LHD cable include: cable trays, tunnels, flammable liquid storage tanks, mines, cold storage, escalators, car parks & warehouses.

ProReact Digital LHD Cable

- Activation temperatures of 68°C, 78°C, 88°C, 105°C, 185°C
- Broad ambient operating temperature range
- UL, FM, CE and RoHS approved
- Comprehensive range of coatings and optional stainless steel outer braid for additional protection

ProReact EN Digital LHD Cable

- Activation temperatures of 78° or 88°
- UV stable
- Flame retardant and oil resistant
- Can withstand ambient temperatures of -40°C

Technical data:

ProReact Digital LHD	
Construction:	Overall insulated, twisted pair of tri-metallic
Insulation:	1kV tested protective outer coat
Additional Insulation	
Options:	Nylon, Polypropylene or Stainless steel braiding
Approvals:	CE Marked, RoHS Compliant, FM, UL, GOSTR
Max Zone Length:	3,000m
Wire Overall Diameter:	3.60mm to 5.08mm
Minimum Bend Radius:	50mm
Ambient Temp Range:	-40°C to +125°C
ProReact EN Digital LHD Cable	
Construction:	Two core twisted
Insulation:	UV stable, LSZH, Oil resistant, Flame retardant
Approvals:	EN54, UL
Max Zone length:	1000m
Wire overall diameter:	5.72mm +/- 0.12mm
Minimum bend radius:	-100mm
Ambient temp range:	40 to +45°C (78° cable), -40 to +65°C (88° cable)
Minimum Bend Radius:	50mm
Ambient Temp Range:	-60°C to +69°C

Linear Heat Detection Cable

516.016.030	100m	ProReact Digital LHD 68°C PVC
516.016.031	200m	
516.016.032	500m	

516.016.033	100m	ProReact Digital LHD 78°C PVC
516.016.034	200m	
516.016.035	500m	

516.016.036	100m	ProReact Digital LHD 88°C PVC
516.016.037	200m	
516.016.038	500m	

Linear Heat Detection Cable

516.016.039	100m	ProReact Digital LHD 105°C PVC
516.016.040	200m	
516.016.041	500m	

516.016.042	100m	ProReact Digital LHD 68°C Nylon Outer Sheath Order
516.016.043	200m	
516.016.044	500m	

516.016.045	100m	ProReact Digital LHD 78°C Nylon Outer Sheath Order
516.016.046	200m	
516.016.047	500m	

516.016.048	100m	ProReact Digital LHD 88°C Nylon Outer Sheath Order
516.016.049	200m	
516.016.050	500m	

516.016.045	100m	ProReact Digital LHD 78°C Nylon Outer Sheath Order
516.016.046	200m	
516.016.047	500m	

516.016.051	100m	ProReact Digital LHD 105°C Nylon Outer Sheath Order
516.016.052	200m	
516.016.053	500m	

516.016.054	100m	ProReact Digital LHD 185°C Nylon Outer Sheath
516.016.055	200m	
516.016.056	500m	

516.016.057	100m	ProReact Digital LHD 68°C Stainless Steel Outer Braid on PVC
516.016.058	200m	
516.016.059	500m	

516.016.060	100m	ProReact Digital LHD 78°C Stainless Steel Outer Braid on PVC
516.016.061	200m	
516.016.062	500m	

Linear Heat Detection Cable

516.016.048	100m	ProReact Digital LHD 88°C Nylon Outer Sheath Order
516.016.049	200m	
516.016.050	500m	

516.016.063	100m	ProReact Digital LHD 88°C Stainless Steel Outer Braid on PVC
516.016.064	200m	
516.016.065	500m	

516.016.066	100m	ProReact Digital LHD 105°C Stainless Steel Outer Braid on PVC
516.016.067	200m	
516.016.068	500m	

516.016.069	100m	ProReact Digital LHD 185°C Stainless Steel Outer Braid on Nylon
516.016.070	200m	
516.016.071	500m	

516.016.120	50m	4-Core + Shield Leader Cable for Analogue Digital LHD Cable
516.016.121	100m	
516.016.122	200m	

516.016.123	50m	4-Core + Shield Leader Cable for Analogue Digital LHD Cable Stainless Steel Braided
516.016.124	100m	
516.016.125	200m	

516.016.170	100m	ProReact EN LHD Cable–78°C
516.016.171	500m	

516.016.172	100m	ProReact EN LHD Cable–88°C
516.016.173	500m	

Linear Heat Detection Non-Combustible Cable Supports

Installation standards specify non- combustible cable supports and this requirement extends to linear heat sensor cable. o satisfy this requirement the ProReact Analogue Heat Detector range includes a range of fixings in either Zintec or Stainless Steel and compatible cable ties.

516.016.126	Split Silicone Sleeves for Mounting Analogue / Digital LHD Cable (Pack of 100)
516.016.127	Pipe Clip for Mounting Analogue / Digital LHD Cable on Pipes Zintec (pack of 100) (inc 100 silicone sleeves)
516.016.128	Pipe Clip for Mounting Analogue / Digital LHD Cable on Pipes Stainless Steel (Pack of 100) (Inc 100 Silicone Sleeves)
516.016.129	Intrinsically Safe Barrier Kit for Analogue LHD Mounted in IP65 Enclosure on DIN Rail Inc 2x Cable Glands
516.016.130	Intrinsically Safe Barrier Kit for Use With ProReact DiMM and Digital LHD Cable Mounted in IP65 Enclosure on DIN Rail Inc 2x Cable Glands
516.016.131	Intrinsically Safe Barrier Kit for Use With Digital LHD Cable Mounted in IP65 Enclosure on DIN Rail Inc 2x Cable Glands
516.016.221	Standard L Clip 50 mm Options:
516.016.222	Channel Bracket for Attaching LHD Cable to Flat Surface Zintec
516.016.223	V-clip for Cable Trays Spring Stainless Steel
516.016.224	L Clip With Edge Clip Zintec
516.016.225	Clip Extension for Use With Other Clips Where Required Zintec
516.016.230	Dual Height L Cable Clip 100 mm Stainless Steel
516.016.231	Standard L Clip 50 mm Stainless Steel
516.016.232	Channel Bracket for Attaching LHD Cable to Flat Surface Stainless Steel
516.016.234	L clip With Edge clip Stainless Steel
516.016.235	Clip Extension for Use With Other Clips Where Required Stainless Steel
516.016.236	110°C Indoor/Outdoor Cable Tie UV & Heat Stabilised Pack of 100

Linear Heat Alarm System ZETTLER SensorLaser Plus

Features

- Seamless detection despite large monitoring surface areas
- Very high resistance to the harshest of environmental factors
- Precise details of fire location and propagation of fire
- Immune to electromagnetic factors
- Monitoring lengths 1, 2, 4, 6, 8 and 10 km on each optical channel
- 1, 2 or 4 measuring channels per system, spur line and ring line configurations are possible
- Operating temperature range of sensor cable from −40 to +85°C
- 256 configurable zones
- Up to 7 activation criteria per zone
- 43 + 1 relay outputs, with option to expand these up to 256
- Lowest level of laser power is less than 20 mW
- 10-second measuring cycles
- Spatial resolution variable from 0.5 to 8 m
- VdS-certified–EN54-22
- ATEX-certified – II (1) GD; M2
- UL521, ULC 530S, FM,
- IECEx

The ZETTLER SensorLaser™ Plus is a fiber-optic linear heat alarm system and guarantees, even in difficult and changing environmental conditions rapid and seamless fire detection as well as highest false alarm safety. With the fiber-optic measuring principle, accurate and location-specific recording of temperature along the sensor cable can be achieved. A temperature profile right across the entire line makes it possible to obtain precise details about the location and size of a fire and about its dynamic propagation.
With the ZETTLER SensorLaser Plus, a measuring range of up to 10 km per sensor cable can be monitored. Due to the fact that ambient conditions can vary greatly across this large monitoring range each of the individual sensor cables can be divided into 256 zones. Up to 7 different activation criteria can be assigned to each zone, and an individual relay combination can also be assigned.
Depending on the size of project and the requirement, different model variants of the ZETTLER SensorLaser Plus are available. Here, a distinction can be made between the possible cable length and the number of available measuring channels. The system enables up to 4 sensor cables to be fitted, depending on the model. These can be operated individually, each as spur lines, or together as 2 ring lines, i.e. as wire loop systems.
The sensor cable is equipped with two optical glass fibers and requires almost no maintenance at all. With its rugged properties, it provides great immunity from false alarms. The cable is not affected by environmental factors such as temperature, pressure, humidity, dust, dirt, exhaust gases, vibration and wind factors and corrosive atmospheres. Also, the fibers, due to the passive, purely optical evaluation process, are immune from electromagnetic interference fields caused by generators, transformers, power cables, wiring, electric motors etc. The cable is designed for a service life of 30 years. The sheath is flame-resistant, halogen-free and provides sufficient protection from rodents.
Alarm and fault messages to the central fire alarm point are sent in by up to 44 isolated contact outputs on the evaluation unit. Alarm criteria and activation parameters can be assigned in each zone to individual relay combinations. Remote acknowledgments can be provided from 4 optically disconnected inputs on the evaluation unit. Alternatively, these can also be using the key switch and with a connected computer. An alphanumeric colour LCD display shows status messages as well as alarm and fiber break positions. Connection of the evaluation unit to a PC is performed by USB and LAN.
Integration of the ZETTLER SensorLaser Plus system in a higher-level management platform can be implemented by direct communication via Ethernet (TCP/IP) using SCPI or with the standard Modbus TCP protocol without any problem. Furthermore, a relay expansion module can be used to increase the number of permanently installed relay outputs on the system by up to 256 relays.

Linear Heat Alarm System ZETTLER SensorLaser Plus

Technical data:

Mechanical	
Dimensions (W x H x D):	88 x 448 x 364 mm; 19″ 2HE
Weight:	9 kg
Mounting:	19″ rack
Electrical data	
Supply voltage:	10 to 30 V DC
Power consumtion:	17 W, normal operation < 40 W, alarm status
Relay outputs:	43 alarms + 1 fault (isolated)
Contact load (max.):	30 V DC / 1 A
Signal inputs:	4 units, optically disconnected
Laser classification:	Class 1M (IEC 60825-1:2007)
Laser pulse energy:	< 20 mW
Interfaces:	USB, Ethernet (LAN)
Optical connector:	E2000 APC 8° angled section
Ambient conditions	
Operating temperature evaluation:	-10°C to +60°C
Operating temperature of sensor cable:	-40°C to +85°C
Humidity:	max. 95%
Approvals	
VdS	EN 54-22
ATEX	EX II (1) GD; I M2
UL521, ULC 530S, FM, and IECEx	

516.016.450	ZETTLER SensorLaser Plus 1/1 – 1 km, 1 Sensor Cable
516.016.451	ZETTLER SensorLaser Plus 1/2 – 1 km, 2 Sensor Cables
516.016.452	ZETTLER SensorLaser Plus 1/4 – 1 km, 4 Sensor Cables
516,016.453	ZETTLER SensorLaser Plus 2/1 – 2 km, 1 Sensor Cables
516.016.454	ZETTLER SensorLaser Plus 2/2 – 2 km, 2 Sensor Cables
516.016.455	ZETTLER SensorLaser Plus 2/4 – 2 km, 4 Sensor Cables
516.016.456	ZETTLER SensorLaser Plus 4/1 – 4 km, 1 Sensor Cables
516.016.457	ZETTLER SensorLaser Plus 4/2 – 4 km, 2 Sensor Cables
516.016.458	ZETTLER SensorLaser Plus 4/4 – 4 km, 4 Sensor Cables
516.016.459	ZETTLER SensorLaser Plus 6/1 – 6 km, 1 Sensor Cables
516.016.460	ZETTLER SensorLaser Plus 6/2 – 6 km, 2 Sensor Cables
516.016.461	ZETTLER SensorLaser Plus 6/4 – 6 km, 4 Sensor Cables
516.016.462	ZETTLER SensorLaser Plus 8/1 – 8 km, 1 Sensor Cables
516.016.463	ZETTLER SensorLaser Plus 8/2 – 8 km, 2 Sensor Cables
516.016.464	ZETTLER SensorLaser Plus 10/1 – 10 km, 1 Sensor Cables

ZETTLER SensorLaser Plus HD IO Connection Set 1 (A1023A)

The ZETTLER SensorLaser Plus HD IO connection set is needed to connect up the 44 isolated contact outputs and 4 inputs integrated in the control unit. The connection boxes included in this set are equipped with serially numbered connection terminals and can be mounted on a standard C-rail. These boxes are connected to their corresponding SUB-D sockets on the back of the control unit with these connector cables.

516.016.465	ZETTLER SensorLaser Plus HD IO Connection Set 1

The set consists of:

- 2 x output HD relay cables SUB-D 44-pins, 230 cm
- 2 x HD connection box with 44 contacts
- 1 x input relay cable SUB-D 9-pins, 230 cm
- 1 x input connection box with 9 contacts

ZETTLER SensorLaser Plus HD IO connection set 2 (A1024B)

The ZETTLER SensorLaser™ Plus HD IO connection set 2 is needed to connect up the 44 isolated contact outputs and 4 inputs integrated in the control unit. A D-Sub connector is attached to the end of each of the connector cables in this set. These are plugged into their corresponding SUB-D sockets on the back of the control unit. The other cable ends are open and can for example be connected directly to the fire alarm system.

516.016.466	ZETTLER SensorLaser Plus HD IO Connection Set 2

The set consists of:

- 2 x output HD relay cables SUB-D 44-pins, 280 cm
- 1 x input relay cable SUB-D 9-pins, 370 cm

ZETTLER SensorLaser Plus ext. Relay Controller Set (A1200B)

If more than the standard relay outputs are needed for an application, the external Relay Controller Set can provide up to 256 additional relay outputs. The Relay Controller Set includes the first 8 relays, and can be expanded as needed with the separate relay expansion set. The set consists of a pre-programmed field bus controller, an 8-channel digital output module, 8 relays, a terminal module and a power supply module. It also includes the associated wiring accessories.

516.016.335	ZETTLER SensorLaser Plus ext. Relay Controller Set

Technical data:

Mechanical data	
Mounting:	DIN rail
Dimensions	
Width of controller:	55 mm
Width of output module:	12 mm
Width of 8 relays:	48 mm
Height x depth (on DIN rail):	100 x 70 mm
Width of power supply module:	74 mm
Height x depth (on DIN rail):	144 x 110 mm
Electrical data	
Voltage supply to power supply module:	90–264 VAC
Voltage supply to controller:	24 VDC
Contact load (max.):	250 V AC / 5 Atube
Ambient conditions	
Operating temperature:	0°C to +55°C
Humidity without condensation (max.):	5–95%

ZETTLER SensorLaser Plus ext. Relay Expansion Set (A1201A)

With the ZETTLER SensorLaser™ Plus Relay Expansion Set, the Relay Controller Set can be extended by further multiples of 8 relays. The set consists of an 8-channel digital output module and 8 relays. The components can be mounted on DIN carrier rails.

516.016.325	ZETTLER SensorLaser Plus ext. Relay Expansion Set

Technical data:

Mechanical data	
Mounting:	DIN rail
Dimensions	
Width of controller:	12 mm
Width of 8 relays:	48 mm
Height x depth (on DIN rail):	100 x 70 mm
Electrical data	
Contact load (max.):	250 V AC / 5 A
Ambient conditions	
Operating temperature:	0°C to +55°C
Humidity without condensation (max.):	5–95%

ZETTLER SensorLaser Plus ext. Modbus Interface Box (A1100A)

The Interface Box can be used to extend the standard interfaces on the ZETTLER SensorLaser Plus Controller. It provides the Modbus RTU or ASCII protocol via RS 232, RS 422, RS 485 and via TCP/IP. The interface delivers the complete tracking data, all alarm parameters and various status conditions. With a virtual host concept, data are available to every sensor as a Modbus unit. 10,000 record entries and 3000 freely definable records can be assigned flexibly to each Modbus unit.

516.016.319	ZETTLER SensorLaser Plus ext. Modbus Interface Box

Technical data:

Mechanical data	
Mounting:	DIN rail or wall
Dimensions (W x H x D):	111 x 77 x 26 mm
Electrical data	
Supply voltage:	12–48 V DC
Current input:	200 mA
Ambient conditions	
Operating temperature:	-10°C to +55°C
Humidity without condensation (max.):	5–95%
Interfaces	
LAN:	Ethernet 10/100 Mbit/s, RJ 45
Serial interface:	RS232/422/485, DB9 connector

ZETTLER SensorLaser Plus Safety sensor cable

This sensor cable is equipped with two optical fibers. It is very rugged and resistant to environmental factors such as temperature, pressure, humidity, dirt and exhaust gases. Two different types of sensor cable are offered to suit the different project requirements. Under normal environmental conditions, the SensorLaser Plus Safety can be used. It is very bendable and can be used in a very flexible range of ways.
If a high mechanical loading is to be expected for the sensor cable, it is advisable to use the SensorLaser Plus Steel with metal reinforcement. This sensor cable, specifically designed for high loads, is especially well suited to situations where high tensile forces and/or a high transverse pressure loading can occur.
Johnson Controls provides a particularly customer-friendly and cost-effective solution with the choice of cable length: Depending on the size of a project, the cable can be cut to size and then fitted with the appropriate plug connectors. The order unit for cable is the linear meter.
Every time cable is ordered, ensure that the corresponding plug connectors are ordered at the same time. These are fitted to the ends of each cable by the vendor. The pre-configured plug connectors enable the system to be started up rapidly, and without the additional need for a specialist to splice the cables.

516.016.322	ZETTLER SensorLaser Plus Safety Sensor Cable

For Technical Data please see next page.

ZETTLER SensorLaser Plus Safety sensor cable

Technical data:

General	
Types of cable:	MM 50/125 microns
Sheath:	FRNC outer sheath
Min. bending radius:	8 cm (with tension) 6 cm (without tension)
Max. pressure loading:	100 N/cm
Max. tensile force:	1.000 N (intermittent) 800 N (continuous)
Ambient temperature:	-40°C to +85°C
Colour:	Black, similar to RAL 9005
Diameter:	4 mm

ZETTLER SensorLaser Plus Safety plug connector

Pre-fabricated E 2000 plug connector for attaching the Safety type of sensor cable to the controller.

516.016.322.C	ZETTLER SensorLaser Plus Safety Plug Connector

ZETTLER SensorLaser Plus Steel sensor cable

Sensor cable, version with stainless steel alarm.

516.016.323	ZETTLER SensorLaser Plus Steel Sensor Cable

Technical data:

General	
Types of cable:	MM 50/125 microns
Sheath:	FRNC outer sheath
Min. bending radius:	8 cm (with tension) 6 cm (without tension)
Max. pressure loading:	960 N/cm
Max. tensile force:	1500 N (intermittent) 1100 N (continuous)
Ambient temperature:	-40°C to +85°C
Colour:	Black, similar to RAL 9005
Diameter:	3,8 mm

ZETTLER SensorLaser Plus Steel plug connector

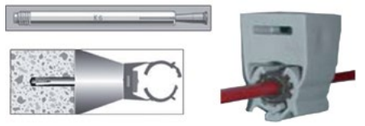
Pre-fabricated E 2000 plug connector for attaching Steel type of sensor cable to the controller.

516.016.323.C	ZETTLER SensorLaser Plus Steel Plug Connector

Mounting Parts

Without exception, the installation solution must comply with applicable national regulations, and must also satisfy the specifications stipulated by the customer. This solution must be able to contend with high levels of stress and strain, and must not damage the sensor cable during installation. Johnson Controls provides assured installation solutions for the sensor cables for Sensor LaserPlus Steel and Sensor LaserPlus Safety products. The following installation solution can be used for installing the sensor cable to concrete walls and ceilings.

ZETTLER SensorLaser Plus plastic terminal set, galvanized



Plastic terminal mountings are especially well suited to places where non-metallic components have to be used. This plastic is UV-resistant, halogen-free and is highly resistant to contact with chemicals.

516.016.326	ZETTLER SensorLaser Plus Plastic Terminal Set, Galvanized

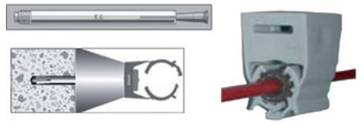
The set consists of:

- 100 plastic terminals
- 100 dowels, galvanized steel
- 1 SDS drill

Technical data:

Metal dowels	
Model:	K6 x 30 /15
Dimension L x ø:	66 mm x 6 mm
Material:	Galvanized steel
Anchoring depth:	26 mm
Plastic terminal	
Model:	Type of plastic 8, with reducer grommet, spacer and M6 flange
Colour:	Dark grey, RAL 7001
Material:	High-quality polyamide
Temperature range:	-40 to +110°C
Specifications:	UV-resistant, resistant to chemicals, halogen-free in acc. with IEC 754-2

ZETTLER SensorLaser Plus Plastic Terminal Set, Made of Stainless Steel



Plastic terminal mountings are especially well suited to places where non-metallic components have to be used. This plastic is UV-resistant, halogen-free and is highly resistant to contact with chemicals.

516.016.327	ZETTLER SensorLaser Plus Plastic Terminal Set, Made of Stainless Steel

The set consists of:

- 100 plastic terminals
- 100 dowels, stainless steel
- 1 SDS drill

Technical data:

Metal dowels	
Model:	K6 x 30 /15
Dimension L x ø:	66 mm x 6 mm
Material:	Stainless steel
Anchoring depth:	26 mm
Plastic terminal	
Model:	Type of plastic 8, with reducer grommet, spacer and M6 flange
Colour:	Dark grey, RAL 7001
Material:	High-quality polyamide
Temperature range:	-40 to +110°C
Specifications:	UV-resistant, resistant to chemicals, halogen-free in acc. with IEC 754-2

ZETTLER SensorLaser Plus Metal Terminal Set, Galvanized

The terminals are made of galvanized steel and are fitted with a rubber protector. The rubber protector protects the sensor cable from any damage caused by friction. Each of the terminals is supplied with 2 nuts to secure them to the dowel.

516.016.328	ZETTLER SensorLaser Plus Metal Terminal Set, Galvanized

The set consists of:

- 100 terminals, galvanized steel
- 100 dowels and 200 nuts, galvanized steel
- 1 SDS drill

Technical data:

Metal dowels	
Model:	K6 x 30 /15
Dimension L x ø:	66 mm x 6 mm
Material:	Galvanized steel
Anchoring depth:	26 mm
Steel terminal	
Model:	RLGU / RSGU
Material:	Galvanized steel with rubber protector
Specifications:	DIN 3016, with 2 M6 nuts to secure to the metal dowel

ZETTLER SensorLaser Plus Metal Terminal Set, Made of Stainless Steel

The terminals are made of stainless steel and are fitted with a rubber protector. The rubber protector protects the sensor cable from any damage caused by friction. Each of the terminals is supplied with 2 nuts to secure them to the dowel.

516.016.329	ZETTLER SensorLaser Plus Metal Terminal Set, Made of Stainless Steel

The set consists of:

- 100 terminals, stainless steel
- 100 dowels and 200 nuts, stainless steel
- 1 SDS drill

Technical data:

Metal dowels	
Model:	K6 x 30 /15
Dimension L x ø:	66 mm x 6 mm
Material:	Galvanized steel
Anchoring depth:	26 mm
Steel terminal	
Model:	RLGU / RSGU Material: Stainless steel with rubber protector
Specifications:	DIN 3016, with 2 M6 nuts to secure to the metal dowel

ZETTLER SensorLaser Plus Setting Tool

For the mounting of dowels K6 x 30/15.

516.016.324	ZETTLER SensorLaser Plus Setting Tool

Options

516.016.330	MZX SensorLaser Plus spare unit
516.016.331	MZX SensorLaser Plus demo unit

SOLO330 Smoke Dispenser

Features:
- Lightweight and simple to use
- Universal design suits wide range of detectors
- Spring loaded solution for suspended ceilings
- For use with Solo Smoke and CO Canisters

517.001.255	Solo 330-007 Smoke Dispenser

Solo460 Cordless Heat Detector Tester

The cordless SOLO461 heat sensor test kit includes the following components:
- Test head SOLO460
- 2 x SOLO760 battery rods
- SOLO724 charger

The SOLO460 test head can be connected directly to the extension rods SOLO100 and SOLO101.

517.001.277	Solo Cordless Heat Detector Tester

Options

517.001.273	Solo 770 baton battery

SOLO200 Detector Charger

Features:
- Universal design suits wide range of detectors
- Designed for use with Solo Access Poles
- Designed for use with Solo Dispenser

517.001.240	SOLO200 Detector Changer

Solo 108 Two Section Pole

2 section Telescopic Pole extends from 1.2 to 2.2 metres

517.001.275	Solo 108 Two Section Pole

Solo 770 Baton Battery

3.0Ah NiMH Battery Baton for use with Testifire, Solo 461 and Scorpion

517.001.273	Solo 770 Baton Battery

Technical data:

General	
Cell technology:	NiMH
Capacity	3000 mAh / 7.2 V
Weight:	500 g
Dimensions:	28 mm diameter × 490 mm length
Ambient operating temperature:	5°C to 45°C
Charge temperature:	10°C to 35°C

SOLO727 Charger

SOLO727 Charger for use with 3.0Ah Solo 770 Battery Batons.
The most important features are:
- Test head SOLO460
- 2 x SOLO760 battery rods
- SOLO724 charger

517.001.274	Solo 727 Battery Charger

Telescopic Access Pole

Extends from 1.26 to 4.5m. Optimum strength to weight ratio. Certified non-conductivity. Extension adds 1.13m and can also be used as a standalone product.

517.001.230	Solo100 telescopic extension pole
517.001.226	Solo101 Extension Pole 1.13m

SOLO704 Adaptor Tube B

Adaptor for Solo Access Poles to allow fitting of:
- 800RT Detector Removal Tool (516.800.917)
- T110 Flame Detector Tester (592.001.012)
- T210+ Flame Detector Tester (592.001.016)
- M900 Address Key Extractor Tool (517.001.235)

517.001.224	SOLO704 Adaptor Tube B

800RT MX Detector Removal Tool

MX detector removal tool

516.800.917	800RT MX Detector Removal Tool

Solo C3 CO Detector Test Aerosol

Features:

- Designed for use with Solo Dispenser
- Genuine, non-flammable CO stimulus
- Controlled delivery
- Designed for use with Solo Dispenser

517.001.262	Solo C3 CO Detector Test Aerosol

Solo A10 Smoke Detector Test Aerosol

Solo A10 Series smoke aerosol. To be used with Solo 330 dispenser. Compliant with latest regulations, Solo A10 Series are an HFC-free and non-flammable solution. Working in exactly the way as its predecessor Solo A3.

517.001.279	Solo A10s-001 With 250ml can
517.001.280	Solo A10-001 With 150ml can

Testifire Smoke & Heat Detector Test Kit 1001

Contains:

- 1 x Testifire Smoke & Heat Detector Tester.
- 1 x Testifire Smoke Capsule.
- 2 x Solo Battery Batons.
- 1 x Solo Battery Charger.

517.001.278	Testifire Smoke & Heat Detector Test Kit 1001

Testifire Smoke, Heat & CO Detector Test Kit 2001

Contains:

- 1 x Testifire Smoke, Heat & CO Detector Tester 1 x Testifire Smoke Capsule
- 1 x Testifire CO Capsule
- 2 x Solo 770 Battery Batons (517.001.273) 1 x Solo 727 Battery Charger (517.001.274)

517.001.276	Testifire Smoke, Heat & CO Detector Test Kit 2001

Testifire Smoke Capsule (Pk6)

6 x Replacement Smoke capsules for use with Testifire.

517.001.237	Testifire Smoke Capsule (Pk6)

Testifire CO Capsule (Pk6)

6 x Replacement CO capsules for use with Testifire.

517.001.238	Testifire CO Capsule (Pk6)

Solo Test Kit Carry/Store Bags SOLO610

A protective storage bag for the Solo and Testifire product ranges

- Made from woven polyester with PVC coating
- Wear on side reinforcements
- Compartments for holding a complete range of products
- Including separate rod pocket
- Convenient size and shape for storage and transport

517.001.264	Solo Test Kit Carry/Store Bags

Scorpion ASD Head Unit

The Scorpion head unit is permanently mounted adjacent to a sampling point on an ASD system pipe – typically at the end of the run. Just one head unit is required for each pipe run – regardless of the number of sampling points.
Hard-to-access smoke detectors are common in most buildings; Scorpion has therefore been adopted across a wide range of sites – in particular:

- Universities
- Hospitals
- Retail
- Banking
- Airports
- Warehouses
- Military bases

Features:

- Smoke tailored for functional testing of ASD systems
- Adjustable smoke time to suit requirements of system under test
- Suitable for Light Scatter, Particle Counting & Cloud Chamber technologies
- Transport time function allows monitoring of on-going ASD system performance

517.001.271	Scorpion ASD Head Unit

Scorpion Point Head Unit

The Scorpion head unit is permanently installed alongside the smoke detector

Features:

- Smoke tailored for functional testing of point type smoke detectors
- Adjustable smoke time to suit requirements of system under test
- Clearing function enables rapid reset and reduces repeat alarms
- Scorp 2011 available for testing aspirating smoke detection systems

517.001.270	Scorpion Point Head Unit

Scorpion Portable Controller

The Scorpion 7000 portable controller can be used in conjunction with a SCORP 25 Access Point to activate individual Scorpion head units connected to smoke detectors or ASD systems.

Features:

- Activates installed Scorpion system
- Connects to SCORP25 Access Point
- Easy to use, store and transport
- Portable – allows use over multiple sites
- Powered via Solo 770 Battery Baton

517.001.272	Scorpion Portable Controller

T210+ Test Source Flame Detector Tester

592.001.010	T110 PP3 Battery and Charger Kit
592.001.012	T110 Test Source For Use with Solo 704 Adaptor Tube B (517.001.224) and Solo 100/101 Poles (517.001.230/226)
592.001.014	T210+Adaptor Required For The T210+ To Be Used With S200 and S200 Plus Flame Detectors
592.001.016	T210+ Test Source For Use with Solo 704 Adaptor Tube B (517.001.224) and Solo 100/101 Poles (517.001.230/226)
592.001.018	T110 Adaptor For Series 600 and 800 Flame Detectors

Features:

- Approved for use in zone 1 & 2 areas (GPIIC gases)
- Adaptor plate to ensure perfect alignment
- IECEX Approved

Technical data:

Material:	Glass filled polyester
Weight:	0.8 kg
Supply Voltage:	9 Vdc
Operating Temp:	-10°C to + 50°C
Humidity	95% (Non Condensing)
Enclosure:	IP54
Classification:	Atex EExe ib IICT4. Suitable for use in zones 1 & 2 where group IIC gases or lesser hazards are sometimes present in explosive concentrations.

IR tester T210+ – For Flame Alarms

With the T210+ infra-red tester, IR flame alarms can be tested. The device can be mounted on the SOLO 704 adaptor tube. It is located in a rugged polyester housing approved for enhanced safety levels (for Zones 1 and 2, GPIIC gases).
To check sensitivity and response time, the T210+ is held against the front of the flame detector being tested.
The characteristic flickering of a fire is simulated by an integrated lamp. This is powered from an intrinsically safe power circuit . Infra-red energy is directed at the alarm by a lamp through a Fresnel lens and a sapphire glass window.
ATEX-approved for areas in Zones 1 and 2 for gases in Group IIC or less serious hazards, classified from T1 to T4. The device is either supplied with power by a zinc-carbon disposable battery or by a nickel-cadmium battery.
Suitable for testing the IR flame alarm in Series 800, S2xx, FV3xx and FV4xx.

592.001.016	IR tester T210+ – For Flame Alarms

Options:

592.001.010	Battery and charger kit
592.001.014	Adapter for FV3xx/4xx flame alarm to T210+ adapter
592.001.018	Adapter for 800 flame alarm to T210+

Technical data:

Mechanical data:	
Weight:	0.8 kg
Dimensions (W x H x D):	110 x 75 x 60 mm
IP rating:	IP 54
Electrical data:	
Supply voltage:	9 V DC
Ambient conditions	
Operating temperature:	-10°C to +50°C rel.
Humidity (non-condensing):	95%
Normal operational atmospheric pressure:	910 to 1.055 mbar
Approvals:	ATEX EEx e ib IIC T4

System Accessories

Door Release Magnet Set, Wall Mount, Metal Housing

3.0Ah NiMH Battery Baton for use with Testifire, Solo 461 and Scorpion

3-59-0404-S001	Door Release Magnet Set, Wall Mount, Metal Housing, 24 Vdc
3-59-0404-S002	Door Release Magnet Set, Wall Mount, Metal Housing, 230 Vac

Technical data:

Mechanical data	
Weight:	NiMH
Dimensions (W x H x D):	89 x 89 x 70 mm
Holding force:	180 N
Electrical data	
Coil power:	1.15 W

Door Release Magnet Set, Wall Mount, Plastic Housing

3-87-0351	Door Release Magnet Set, Wall Mount, ABS Housing, 24 Vdc
3-87-0352	Door Release Magnet Set, Wall Mount, ABS Housing, 230 Vac

Technical data:

Mechanical data	
Weight:	0.36 kg
Dimensions (W x H x D):	95 x 87 x 46 mm
Holding force:	200 N
Electrical data	
Coil power:	1.15 W

Door Release Magnet Set, Floor Mount

3-84-0301	Door Release Magnet Set, Floor Mount, ABS Housing 24 Vdc

Technical data:

Mechanical data	
Weight:	0.7 kg
Dimensions (W x H x D):	110 x 96 x 96 mm
Holding force:	200 N
Electrical data	
Coil power:	45 mA

Door Release Power Supply

The Transformer Rectifier is a dual purpose, smoothed power supply providing either an energised or de- energised output upon activation. The output may be activated by utilising a set of volt free contacts from a fire or security panel, or by providing a 12/24 Vdc trigger voltage from other apparatus.
The transformer rectifier units are normally used to control the operation of other 24 Vdc equipment such as magnetic door retainers. The units are ideal for applications where the supply is to be energised from a remote source

558.004.010	ELM 24 V	4 A Door Holder PSU

Technical data:

Input Voltage:	230 Vac 50Hz
Output Voltage:	22–30 Vdc
Output Current:	4 A Continuous
Temperature:	-10C to + 40C 95%
Relative Humidity:	RH
IP Rating Material:	IP41 (excluding rear face) 1.2 mm white powder coated steel
Dimensions:	200H x 230W x 80D mm

24 V 5 A Power Supply Unit

This PSU is approved by IMQ to EN 54-4:1997 + A1:2002 and EN60950-1:2001. The steel housing con-tains a 5 amp switch mode power supply and monitoring board and has space to accommodate 2 x 12 V 17Ah sealed lead acid batteries. The 10 front panel LED's comprehensively indicate the status of the unit.

558.004.020	24 V 5 A Power Supply Unit With Housing for 17A/H Batteries

Technical data:

Dimensions:	408H x 383W x 97D mm
Weight:	4.3 Kg (excluding batteries)
Operating Temp:	-5°C to +40°C
Supply voltage:	230Vac 50/60Hz

Features:

- Robust metal housing
- Twin fused outputs
- Temperature compensated charging
- Deep discharge protection of batteries
- Fault relay output
- Comprehensive LED status indication

24 V 2A Power Supply Unit

The new STX range of switch mode power supplies has been specifically designed for EN54 compliant fire sys-tems.
Available in 2 A versions they are certified to EN54-4:1997, A1:2002 & A2:2006.
The units include intelligent battery charging using Elmdene's efficient EcoCharge technology, possess mains & battery monitoring with independent volt free outputs and also feature battery deep discharge protection in the event of a prolonged mains failure.
The inclusion of LED indicators provides quick diagnos-tics of the status of the power supply, while a variety of enclosures offer the installer a choice of standby battery backup options.

558.004.022	Compact Power Supply EN54 2 A 17Ah 24 Vdc PSU (27.6 V)

Relay Boxed 24vDC Coil 5A Contacts

This is a metal boxed auxiliary relay with 5A Mains rated double pole contacts with a 24Vdc 25 mA coil. This compact relay is suitable for interfacing a fire alarm controller to low current mains powered devices or contactors.

RU1-24	Relay Boxed 24vDC Coil 5A Contacts

Door Release Button

Door Release Button (white) supplied with surface mount backbox (black) for manual release of door magnets or door release units.

519.001.008	Door Release Button

Relay boxed 240VAC Coil 25A contacts

Metal boxed heavy duty alarm relay with 25 A mains rated DPCO contacts. Available with a 240 VAC 12 mA rated coil. Suitable for heavy duty switching applications.

567.007.008	Relay Boxed 240VAC Coil 25A Contacts

Fire Resistant Cable

DÄTWYLER Lifeline cable is suitable for fire alarms and emergency lighting where BS6387 and BS7629 standards are acceptable and meets the installation and performance requirements of:

- BS5839 Pt.1 for use in fire alarms
- BS5266 for use with emergency lighting
- IEC331 fire resistance

Lifeline is LPCB approved to BS6387 CAT CWZ and BASEC approved to BS7629.
Lifeline is low smoke, zero halogen, has an integral aluminium backed mylar tape screen with tinned drain wire and requires no special terminations, tools or ferrules for installation.

Technical Information

The following DÄTWYLER Lifeline cables are held in stock at Tyco Fire Protection Products Letchworth warehouse, together with suitable P clips and glands. Cables are priced per metre but must be ordered in units of 100 metre. P clips and glands are priced each but must be ordered in packs.

	DÄTWYLER Lifeline Cable			
Product Code	No. Cores	Core Size	Colour	Clips
599.048.020	2 + earth	1 mm	Red	P34 R
599.048.022	2 + earth	1.5 mm	Red	P34 R
599.048.034	4 + earth	1.5 mm	Red	P40 R

Technical data:

Construction	
Conductor:	Bare copper, solid or stranded to BS6360
Insulation:	Special double layer insulation according to BS7655, E15
Inner Covering:	High temperature resistant glass fibre tape
Screening:	Al-Laminated tape with tinned copper drain wire, solid to BS6360
Outer Sheath:	Flame retardant polyolefin compound according to BS 7655, LTS3
Technical Properties	
Rated Voltage	300/500 V
Test Voltage	2000 V, 50Hz core/core 2000 V, 50Hz core/screen
Operating Temp:	-15°C to +90°C
Core Colours	2 cores + earth: red, black 4 cores + earth: red,yellow,blue,black
Sheath Colour	Red or white
General Properties:	Zero Halogen, no corrosive gases–IEC 60754-2, BS6425 part 1 Reduced fire propagation–IEC 60332-3, BS 4066 part 3 Minimum smoke emission–IEC 61034, BS7622
Approvals:	BASEC

Fire Resistant Cable

No. of Cores x Cross Section (n x mm2)	Copper Content (Kg/Km)	Total Weight (Kg/Km)	Outer Diameter (approx. mm)	Calorific Potential (KWh/m)
2 x 1.0	19	75	7.4	0.16
2 x 1.5	29	97	8.2	0.18

Batteries

PS-1270	12 Volt 7.0 Ampere Hour Rechargeable Sealed Lead Acid Battery
PS-12650	12 Volt 65.0 Ampere Hour Rechargeable Sealed Lead Acid Battery
PS-12380	12 Volt 38.0 Ampere Hour Rechargeable Sealed Lead Acid Battery
PS-12170	12 Volt 17.0 Ampere Hour Rechargeable Sealed Lead Acid Battery
PS-12260	12 Volt 26.0 Ampere Hour Rechargeable Sealed Lead Acid Battery
516.016.305	ICAM IAS802 Aspirated Smoke Dual Detector Dual Fault Monitor

Product Codes	Voltage (V)	Ah at 20h rate	Length (mm)	Width (mm)	Height (mm)	Height including terminals
PS-1270	12	7.0	151	65	94	98
PS-12650	12	65.0	348	167	178	178
PS-12380	12	38.0	197	165	170	170
PS-12170	12	10.0	181	76	167	167
PS-12260	12	26.0	166	176	112	125

PA/VA Systems NEO System & Accessories

NEO System

- Compact EN 54-16 certified PA/VA system
- 5 audio inputs
- 8 class D amplifiers with two configurations for 100V/70 V lines
- 8 class D amplifiers of 120 W per channel
- Audio Matrix 7x8 (digital up to 39x2014)

NEO System Accessories

- Wide range of accessories including batteries, chargers, power supplies and controllers
- NEO Control Software for total control and supervision of the entire system

ONE System

- Certified according to the requirements of EN 54-16 and EN54-4
- Wall and rack design
- 2 integrated amplifiers with a combined output of 500W
- 7 local sources
- Auto-setup
- Battery charger
- Rack and wall mounting cabinets
- Wide range of accessories which can be used for both the NEO and ONE system

Speakers

- Full range of speakers for different requirements
- Compliant with EN54 part 24
- Indoor and outdoor models

NEO System

The NEO 8060 is a compact EN 54-16 certified PA/VA system that ensures a fast, safe and controlled emergency evacuation. NEO represents a cost-effective voice evacuation and public address system due to its cutting-edge features, touch screen and excellent audio quality and flexibility including: 8 class D amplifiers, 5 audio inputs, 7x8 audio matrix (39x1024 digital). With the NEO Configurator software (included), it is possible to configure the equipment remotely and create events to perform actions in the system triggered by conditions of: input level, date & time, UDP command, a GPIO or button from MPS microphone.

590.001.001	NEO8060	Public Address and Voice Alarm System

Features

- 5 audio inputs
- 8 class D amplifiers with two configurations for 100V/70 V lines
- 8 class D amplifiers of 120 W per channel.
- Audio Matrix 7x8 (digital up to 39x2014).
- 8 pre-amp outputs for external PA amplifiers connection.
- Up to 8 multi-zone microphones, MPS-8Z, or VAP-1 panels connected with CAT5 UTP cable.
- DSP: 7-band input/output parametric equalizer, loudness, sound enhancer, independent volume control per each I/O channel and audio filters.
- Triple Ethernet port: for Digital Audio Cobranet, remote control and supervision, and for expanding the system with NEO Extensions in daisy-chain mode with Flexnet technology (up to 1024 zones).
- 4.3'' touch screen with access control.
- 4 GB of internal memory for pre-recorded messages.
- Integrated emergency microphone.
- Control for up to 32 attenuators AT6.
- Integrated frontal loudspeaker for monitoring.
- 22 GPIO ports (8 supervised for integration with fire alarm control panel).

Technical data:

Mechanical Data	
Dimensions (W x H x D)	483 mm x 88 mm x 455 mm / 19" x 3.46" x 18"
Colour:	Front: Fe, Grey RAL 7016 Back: Fe, Black RAL 9005
Weight	13.5 kg / 29.76 lb
Electrical Data	
Power supply:	550 W max / 100 W at 1/8 output power
Power consumption:	550 W max / 100 W at 1/8 output power
Ambient Conditions	
Operating Temp:	-5 ºC to +45 ºC / 23 ºF to 113 ºF
Relative Humidity:	95% (non-condensing)

Accessories

- 2 x rack mounting, male Euroblock connectors, installation screws, 4 x rubber foot, 1 x power cable 2 m / 6.56 ft (EU Type), 1 x Ethernet cable 2 m / 6.56 ft

NEO4250

The NEO Extension 4250 is an extension controller and a 4x250W amplifier or 2x500W amplifier for the compact EN 54-16 NEO PA/VA system.

590.001.002	NEO4250E	Extension Controller + 4x250w Amplifier

Features

- 4 class D amplifiers of 250W or 2 amplifiers of 500W for 100V/70V lines
- 4 pre-amp outputs for external PA amplifiers connection
- DSP: 7-band input/output Parametric Equalizer, loudness, sound enhancer, independent volume control per each output channel and audio filters
- Triple Ethernet port: for Digital Audio Cobranet, remote control and supervision, and for escalating the system with NEO-Extensions in daisy-chain mode with Flexnet technology (up to 1024 zones)
- Control for up to 16 attenuators AT6
- 6 supervised contact relays for integration with Fire Alarm Control Panel

Technical data:

Mechanical Data	
Dimensions (W x H x D)	483mm x 88mm x 455mm / 19" x 3.46" x 18"
Colour:	Front: Fe, Grey RAL 7016 Back: Fe, Black RAL 9005
	Case: Al, Black RAL 9005
Weight	9.8 Kg / 21,61lb
Electrical Data	
Power supply:	110-120V / 220-240V~ 50/60Hz.
Power consumption:	900W max / 400W at 1/8 output power/ 40W Standby
Ambient Conditions	
Operating Temp:	-5°C to +45 °C / 23 °F to 113 °F
Relative Humidity:	5% to 95% (non-condensing)

Accessories

- 2 x Rack mounting, Male Euroblock connectors, installation screws, 4 x Rubber foot, 1 x Power cable 2m / 6,56ft (EU Type), 1 x Ethernet Cable 2m / 6,56ft.

NEO4500E

The NEO Extension 4500 is an extension controller and a 4x500W amplifier or 2x1000W amplifier for the compact EN 54-16 NEO PA/VA system.

590.001.003	NEO4500E	Extension Controller + 4x500w Amplifier

Features

- 4 class D amplifiers of 500W or 2 amplifiers of 1000W for 100V/70V lines
- 4 pre-amp outputs for external PA amplifiers connection
- DSP: 7-band input/output Parametric Equalizer, loudness, sound enhancer, independent volume control per each output channel and audio filters
- Triple Ethernet port: for Digital Audio Cobranet, remote control and supervision, and for escalating the system with NEO-Extensions in daisy-chain mode with Flexnet technology (up to 1024 zones)
- Control for up to 16 attenuators AT6
- 6 supervised contact relays for integration with Fire Alarm Control Panel

Technical data:

Mechanical Data	
Dimensions (W x H x D)	483mm x 88mm x 455mm / 19" x 3.46" x 18"
Colour:	Front: Fe, Grey RAL 7016
	Back: Fe, Black RAL 9005 Case: Al, Black RAL
Weight:	9.8 Kg / 21,61lb
Electrical Data	
Power supply:	110-120V / 220-240V~ 50/60Hz.
Power consumption:	900W max / 400W at 1/8 output power/ 40W Standby
Ambient Conditions	
Operating Temp:	-5°C to +45 °C / 23 °F to 113 °F
Relative Humidity:	5% to 95% (No condensation)

Accessories

- 2 x Rack mounting, Male Euroblock connectors, installation screws, 4 x Rubber foot, 1 x Power cable 2m / 6,56ft (EU Type), 1 x Ethernet Cable 2m / 6,56ft.

NEO8250

The NEO Extension 8250 is an extension unit for the EN 54-16 NEO PA/VA system. This extension unit scales the NEO system with 8 more zones as it includes 8 class D power amplifier channels of 250W at 100V or 70V.

590.001.004	NEO8250E	Extension Controller + 8 x 250W Amplifier

Features

- 8 class D amplifiers of 250W for 70 or 100V lines
- 8 pre-amp outputs for external PA amplifiers connection
- DSP: 7-band input/output Parametric Equalizer, loudness, sound enhancer, independent volume control per each output channel and audio filters
- Triple Ethernet port: for Digital Audio Cobranet, remote control and supervision, and for escalating the system with NEO-Extensions in redundant daisy-chain mode with Flexnet technology (up to 1024 zones)
- Control for up to 32 attenuators AT6
- Integrated frontal loudspeaker for monitoring
- 12 supervised contact relays for integration with Fire Alarm Control Panel

Technical data:

Mechanical Data	
Dimensions (W x H x D)	483mm x 88mm x 455mm / 19" x 3.46" x 18"
Colour:	Front: Fe, Grey RAL 7016 Back: Fe, Black RAL 9005
	Case: Al, Black RAL 9005
Weight:	15 Kg / 33.07 lb
Electrical Data	
Power supply:	110-120V / 220-240V~ 50/60Hz.
Power consumption:	900W max / 200W at 1/8 output power/ 40W Standby
Ambient Conditions	
Operating Temp:	-5°C to +45 °C / 23 °F to 113 °F
Relative Humidity:	5% to 95% (No condensation)

Accessories

- 2 x Rack mounting, Male Euroblock connectors, installation screws, 4 x Rubber foot, 1 x Power cable 2m / 6,56ft (EU Type), 1 x Ethernet Cable 2m / 6,56ft.

NEO4500LE

The NEO Extension 4500LE is an extension unit for the EN 54-16 NEO PA/VA system. This extension unit includes 4x500W class D power amplifier channels or 2x100W class D power amplifier channels at 100V/70V lines.

590.001.005	NEO4500LE	Extension Controller + 4x500W @ 4Ω Amplifier

Features

- 4 class D amplifiers of 500W at 4 Ohms.
- 4 pre-amp outputs for external PA amplifiers connection
- DSP: 7-band input/output Parametric Equalizer, loudness, sound enhancer, independent volume control per each output channel and audio filters
- Triple Ethernet port: for Digital Audio Cobranet, remote control and supervision, and for escalating the system with NEO-Extensions in daisy-chain mode with Flexnet technology (up to 1024 zones)
- Control for up to 16 attenuators AT6.
- 6 supervised contact relays for integration with Fire Alarm Control Panel

Technical data:

Mechanical Data	
Dimensions (W x H x D)	483mm x 88mm x 455mm / 19" x 3.46" x 18"
Colour:	Front: Fe, Grey RAL 7016 Back: Fe, Black RAL 9005
	Case: Al, Black RAL 9005
Weight:	9.8 Kg / 21.61 lb
Electrical Data	
Power supply:	110-120V / 220-240V~ 50/60Hz.
Power consumption:	900W max / 400W at 1/8 output power/ 40W Standby
Ambient Conditions	
Operating Temp:	-5°C to +45 °C / 23 °F to 113 °F
Relative Humidity:	5% to 95% (No condensation)

Accessories

- 2 x Rack mounting, Male Euroblock connectors, installation screws, 4 x Rubber foot, 1 x Power cable 2m / 6,56ft (EU Type), 1 x Ethernet Cable 2m / 6,56ft.

ZES22 – Audio Over Ethernet Converter

The ZES-22 digital audio processor is a Digital Audio Matrix that offers advanced features for any type of audio installation. It has 4 flexible audio ports that can be configured as inputs or outputs. Audio input comes via Ethernet through the COBRANET® protocol and includes a redundant Ethernet interface, offering the possibility to design distributed audio systems. This digital audio matrix allows optical fibre adapters for sending and receiving data through large distances.

590.001.006	ZES22 – Audio Over Ethernet Converter

Features

- Local audio Matrix of 2x2 I/O (optional configuration in factory)
- Audio transfer by COBRANET® protocol 48Khz/24bits
- High performance DSP
- Analogical gain for each channel in order to improve the signal/noise ratio
- Remote and local configuration
- Remote and local supervision
- Graphic interface for remote configuration. Easy operation (GUI)
- Phantom power supply for microphones

Technical data:

Mechanical Data	
Dimensions (W x H x D)	218*155*42mm
Colour:	
Weight:	1Kg
Electrical Data	
Power supply:	110-120V, 50/60Hz.

MS40 – Battery Charger

Battery charger for voice evacuation systems, EN54-4 compliant. Designed for charging lead-acid batteries and at the same time, it provides power supply for auxiliary applications. Includes 2 charger outputs with a maximum power of 960W. It supports 1 NEO8060 with 2 x 45 Ah 12V Batteries (batteries not included).

590.001.007	MS40 – Battery Charger

MS150 – Battery Charger

Battery charger for voice evacuation systems, EN54-4 compliant. Designed for charging lead-acid batteries and at the same time, it provides power supply for auxiliary applications. Includes 6 charger outputs with a maximum power of 3600W. It supports up to 3 NEO Extension units with 2 x 120 Ah 12V Batteries (batteries not included).

590.001.008	MS150 – Battery Charger

BTL12-45-45Ah 12V Battery

45Ah 12V battery for use with 960W battery charger slats on 24V 6A M40.

590.001.009	BTL12-45-45Ah 12V Battery

BTL12-120-120Ah 12V Battery

120Ah 12V battery for use with 3600W battery charger slats on 24V 12A MS 150.

590.001.010	BTL12-120-120Ah 12V Battery

VCC-64PSK – Communication and Power Supply Adapter, RJ-45

The VCC-64 PSK communication and power adapter allows VCC-64 devices to be installed in the system, using a single CAT5 cable for the entire device bus.

590.001.012	VCC-64PSK – Communication and Power Supply Adapter

Technical data:

Mechanical Data	
Weight:	600 gr
Input	
Input power:	Port Jack connector
Input serial port:	RS-485
Input communication and power:	CAT 5B
Installation length:	Max 800m (2 devices) / Min 100m (10 devices)

Features
- It allows to connect up to 10 units together
- Only it is necessary one CAT 5 cable for the whole devices

VCC64 – Channel and Volume Controller

The VCC-64 allows up to 64 programmable channels and volume control (0-9). Usually installed in local zones and connected via bus to the system, it offers source selection, volume control and lock function.

590.001.013	VCC64 – Channel and Volume Controller

Technical data:

Mechanical Data	
Dimensions (W x H x D)	86*56*40 mm
Colour:	ABS Material, White
Weight:	110g
Electrical Data	
Power supply:	12V DC
Power consumption :	1.2W max (100mA)
Ambient Conditions	
Operating Temp:	-5°C to +55 °C
Relative Humidity:	15% to 80% (No condensation)

Features
- Source selection (1-64)
- Volume setting for the zone (0-9) – 10 steps per change
- Automatic lock function
- It shows the identifier of the music source routed to the zone
- It shows the volume level assigned to the zone
- Lock activated indicator
- Connection of devices by bus mode

AT-6.0 – Constant Impedance Rotary Attenuator

Constant impedance attenuator with 5 6dB attenuation stages

590.001.014	AT-6.0 – Constant Impedance Rotary Attenuator

Features
- Maximum power 12W@100V and 6W@70V,
- Control input for emergency system
- For installation in universal built-in box

AT-25 – Constant Impedance Rotary Attenuator

Constant impedance attenuator with 5 6dB attenuation stages

590.001.015	AT-25 – Constant Impedance Rotary Attenuator

Features
- Maximum power 50W@100V and 25W@70V
- Control input for emergency system
- For installation in surface-mount box or in panel

AT-150 – Constant Impedance Rotary Attenuator

Constant impedance attenuator with 5 6dB attenuation stages

590.001.017	AT-150	Player CD/USB

Features

- Maximum power 150W @100V.
- Control input for emergency system
- For installation in universal built-in box

RCD21 Player CD/USB

he RCD-21R is an all-in-one multi-source audio player that includes CD player, FM / AM radio, and USB interface. It is cost effective equipment that can provide professional level audio performance.

590.001.017	RCD21 Player CD/USB

Features

- CD player, FM / AM radio and USB interface
- Independent CD / USB and FM / AM outputs
- Supports CD, CDR, CDRW, MP3 and WMA
- Supports USB 1.1 and USB 2.0

Technical data:

Mechanical Data	
Dimensions (W x H x D)	484mm x 44mm x 260mm
Colour:	Front: Fe, Gray RAL 7016 Back: Fe, Black RAL 9005 Case: Fe, Black RAL 9005
Net Weight:	3.2 Kg / 7 lb
Electrical Data	
Power supply	110–240V~ 50/60Hz.
Power consumption	< 13W
Ambient Conditions	
Operating condition	-5 ºC to +45 ºC / 23 ºF to 113 ºF
Relative humidity	5% to 95% (no condensation)

NEOCTRLSW – NEO Control Software

This software allows total control and supervision of the entire system through Ethernet network, an easy and intuitive installation and with no configuration required. It allows a centralized control of the system, volume control, source routing, pre-recorded messages broadcasting, management of emergency functions and system profiles. It allows setting installation floor plans as GUI interface. Single-user license.

590.005.001	NEOCTRLSW	NEO Control Software

Features

- Central and secure control of the NEO system
- Routing of quality audio
- Easy to install and configure
- Volume control
- Total system supervision (failure, evac mode, etc) by zones
- Allows to add installation drawing plans
- Synchronised with the NEO system
- Without the need to configure databases
- Exclusive for NEO systems (NEO 8060 and NEO Extensions units)
- One NEO system can accept up to 5 connections from NEO Control

12U Rack Cabinet

Rack-Alt Series cabinets are available in 19" formats in order to meet any need in voice and data installations.
These are multipurpose racks since they can be used for audio equipment, patch panels and electric equipments installations.
RACK-12ALT model has a depth of 450 mm and a capacity of 12U of 19'' each.

590.011.001	RACK-12ALT	12U Rack Cabinet

Features

- Steel frames for structure assembly.
- Wiring entrance in top and base
- Steel supports for profile mounting and shifting
- 4 19" moveable profiles.
- Accessible side panels
- Top with side, front and rear vent slots.
- 4mm grey Parsol glass front door in a metallic frame
- with lock and vent slots.
- Back door with lock
- Levelling feet or wheels
- Capacity up to 400 kg

Technical data:

Mechanical Data	
Dimensions (W x H x D)	600 x 635 x 450 mm
Weight	45Kg
Material	Steel
Color	Ral 7016
Capacity:	Capacity Up to 19" 12U

24U Rack Cabinet

Rack-Alt Series cabinets are available in 19" formats in order to meet any need in voice and data installations.
These are multipurpose racks since they can be used for audio equipment, patch panels and electric equipment installations.
RACK-24ALT model has a depth of 800 mm and a capacity of 24U of 19'' each.

590.011.002	RACK-24ALT	24U Rack Cabinet

Technical data:

Mechanical Data	
Dimensions (W x H x D)	600 x 800 x 1255 mm
Weight	77Kg
Material	SPCC cold laminated 1,2, 1,4 and 2mm, safety glass 4mm
Color	RAL9004
Capacity:	Up to 24U of 19''

Features

- Steel frames for structure assembly
- Wiring entrance in top and base
- Steel supports for profile mounting and shifting
- Four 19'' moveable profiles
- Accessible side panels
- Top with side, front and rear vent slots
- 4mm grey parsol glass front door in a metallic frame with lock and vent slots
- Back door with lock
- Levelling feet or wheels
- Capacity up to 800 kg (static)

42U Rack Cabinet

Racck-Alt Series cabinets are available in 19" formats in order to meet any need in voice and data installations.
These are multipurpose racks since they can be used for audio equipment, patch panels and electric equipment installations.
RACK-42ALT model has a depth of 800 mm and a capacity of 42U of 19'' each.

590.011.003	RACK-42ALT	42U Rack Cabinet

Technical data:

Mechanical Data	
Dimensions (W x H x D)	600 x 1983 x 800 mm
Weight	90Kg
Material	Steel
Color	Ral 7016
Capacity:	Up to 42U of 19''

Features

- Steel frames for structure assembly
- Wiring entrance in top and base
- Steel supports for profile mounting and shifting
- Four 19'' moveable profiles
- Accessible side panels
- Top with side, front and rear vent slots
- 4mm grey parsol glass front door in a metallic frame with lock and vent slots
- Back door with lock
- Levelling feet or wheels
- Capacity up to 400 kg (static)

Racking, Wiring and Mount of 12U, 24U & 42U

590.011.004	Racking, Wiring and Mount of 12U
590.011.005	Racking, Wiring and Mount of 24U
590.011.006	Racking, Wiring and Mount of 42U

Racking, wiring and mounting of 12U, 24U & 42U Rack in factory includes:
- Black blind panel 1U for 19" rack, DIN rail 200 cm, treated European pallet, caged nuts, washers, screws and auxiliary material, assembly labor, labeling, packing and palletizing.
- For each NEO and NEO Extension equipment: FTP RJ45 CAT6A 100 cm hose, UTP RJ45 CAT5E 50 cm hose, 19" rack bracket, IEC black hose to Schuko 3x0.75mm, 4xSchuko 19" rack bracket, cage nuts, washers, screws and auxiliary material.
- For each battery charger: Emergency power wiring for you NEO series equipment, IEC black hose to Schuko 3x0.75mm, emergency power monitor signals hose, 12V battery wiring unit, 19" rack battery tray, 1U black blind panel for 19" rack, 4xSchuko 19" rack strip, cage nuts, washers, screws and auxiliary material.
- For each ZES22: FTP RJ45 CAT6A 100 cm hose, 19" rack bracket, cage nuts, washers, screws and auxiliary material.

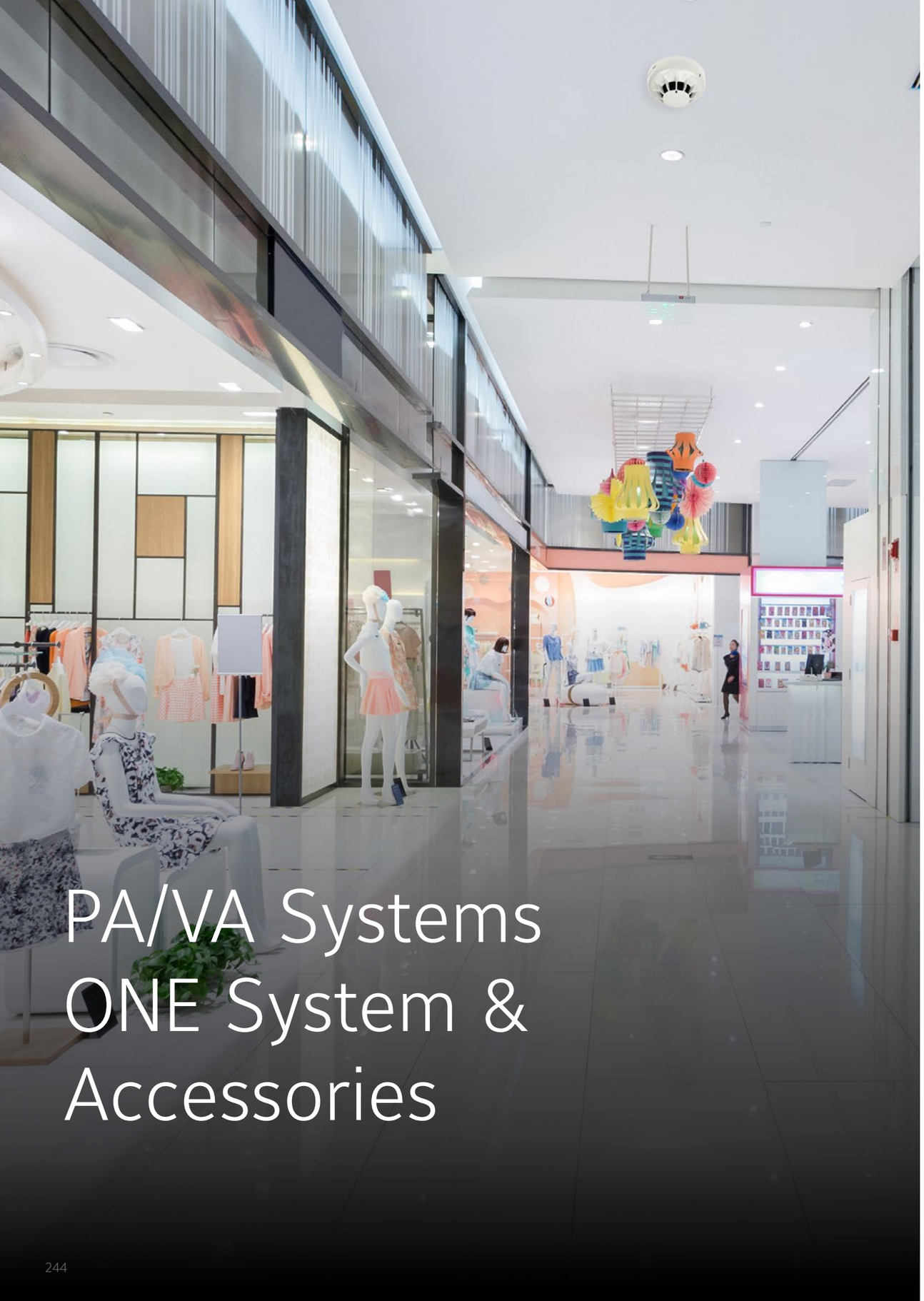
Day Service of Commi & Config. REMOTELY (8 hr)

590.011.007	Day Service of Commi & Config. REMOTELY (8 hr)

- Subject to conditions: system devices must be powered, connected by network and well assembled; Loudspeaker lines must be stamped and verified.

Factory Testing and Commissioning

590.011.008	Factory Testing and Commissioning



PA/VA Systems ONE System & Accessories

ONE System & Accessories

ONE500 – Compact Public Address and Voice Alarm System

The ONE PA/VA system is certified according to the requirements of EN 54-16 and EN54-4, ensuring a safe and controlled emergency evacuation. Its high performance, versatility and audio quality make it a powerful and affordable music and voice distribution system for all types of installations.
It includes 2 amplification channels with 200 Wrms (500 W music/voice as per EN60065) to distribute between 6 zones. Line supervision without return cable (EOL devices not included). DSP processor. 6 control zones. Possibility of wall installation, rack and desk. Integrated battery charger and housing EN 54-4 certified (OPTIONAL: To be activated with used card). Integration interface with fire alarm panel. EVAC and ALERT pre-recorded messages. All integrated, no need for external applications. 4 pre-AMP outputs. 3 audio inputs with priority and mixed audio input. 6 override outputs.

590.002.001	ONE500	Compact Public Address and Voice Alarm System

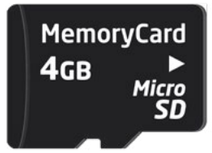
Features

- Wall and rack design
- 2 integrated amplifiers with a combined output of 500W
- 7 local sources
- Auto-setup
- Manual configuration from LCD screen
- USB backup and restore

Technical data:

Mechanical Data	
Dimensions (W x H x D)	453mm x 88mm x 455mm / 18.2" x 3.46" x 18"
Colour:	RAL7016 and RAL9005
Weight:	7.5 Kg / 15.76 lb
Electrical Data	
Power supply:	100–240V~ 50/60Hz
Power consumption:	350W max / 100W at 1/8 output power
Ambient Conditions	
Operating Temp:	-5 ºC to +45 ºC / 23 ºF to 113 ºF

ONE-BC1 – USD Card For Activation of Battery Charger



Battery charger update and activation card EN54-4 for ONE-500. Once activated, the card becomes a key for the charger to work permanently.

590.002.002	ONE-BC1	USD Card

Features

- Activates EN 54-4 certified function, Emergency Power System (EPS)
- Permanent installation with access control in ONE-500 unit

ONE-WMA – Wall Mounting Kit

Wall mounting bracket for ONE-500 made of high strength galvanized steel. Quick installation, assembly and disassembly of the ONE unit. Includes accessories and installation hardware.

590.002.003	ONE-BC1	Wall-Mounting Kit

Technical data:

Material:	Galvanized Fe 1,5 mm / 0,15"
Colour:	Grey
Dimensions (W x H x D):	416 x 432 x 25 mm / 16.4" x 17" x 1"

ONERMA – Rack-mounting Kit for 19" Rack Cabinet

Installation support in 3U 19" rack for removable ONE-500. Allows quick installation, assembly and disassembly of the ONE unit, includes accessories and installation hardware.

590.002.004	ONERMANEO	Rack-Mounting Kit for 19" Rack Cabinet

Technical data:

Material:	Fe
Colour:	RAL 9005 Black
Dimensions (W x H x D):	19" 3U rack. Extendible rack depth from 500 to 900 mm / 19,7" – 35,4"

Features

- Removable mounting up to 550 mm
- 19" 3U rack (including ONE-500 unit)
- Locking latches / handles
- For 19" racks from 500 to 900 mm deep

ONERMA2–Rack Fixed Mounting Kit for 19" Rack Cabinet

Installation support in 2U 19" rack for ONE-500 fixed.

590.002.005	ONERMA2	Rack Fixed Mounting Kit for 19" Rack Cabinet

Technical data:

Electrical Data	
Power supply:	5V DC , 200mA.
Frequency response:	200– 15000 Hz (+/–2dB).
Audio output:	750mV 600 balanced

Features

- Fixed mounting for 19" rack
- 19" 2U rack (including ONE-500 unit)

10 x ONE Network Card

The ONE500-LOOP is an expansion card that allows to connect up to 10 x ONE500 with a total of 60 zones.
The expansion card ONE500-LOOP has a redundant communication, that allows the systems to be supervised and managed according EN54 Standard.

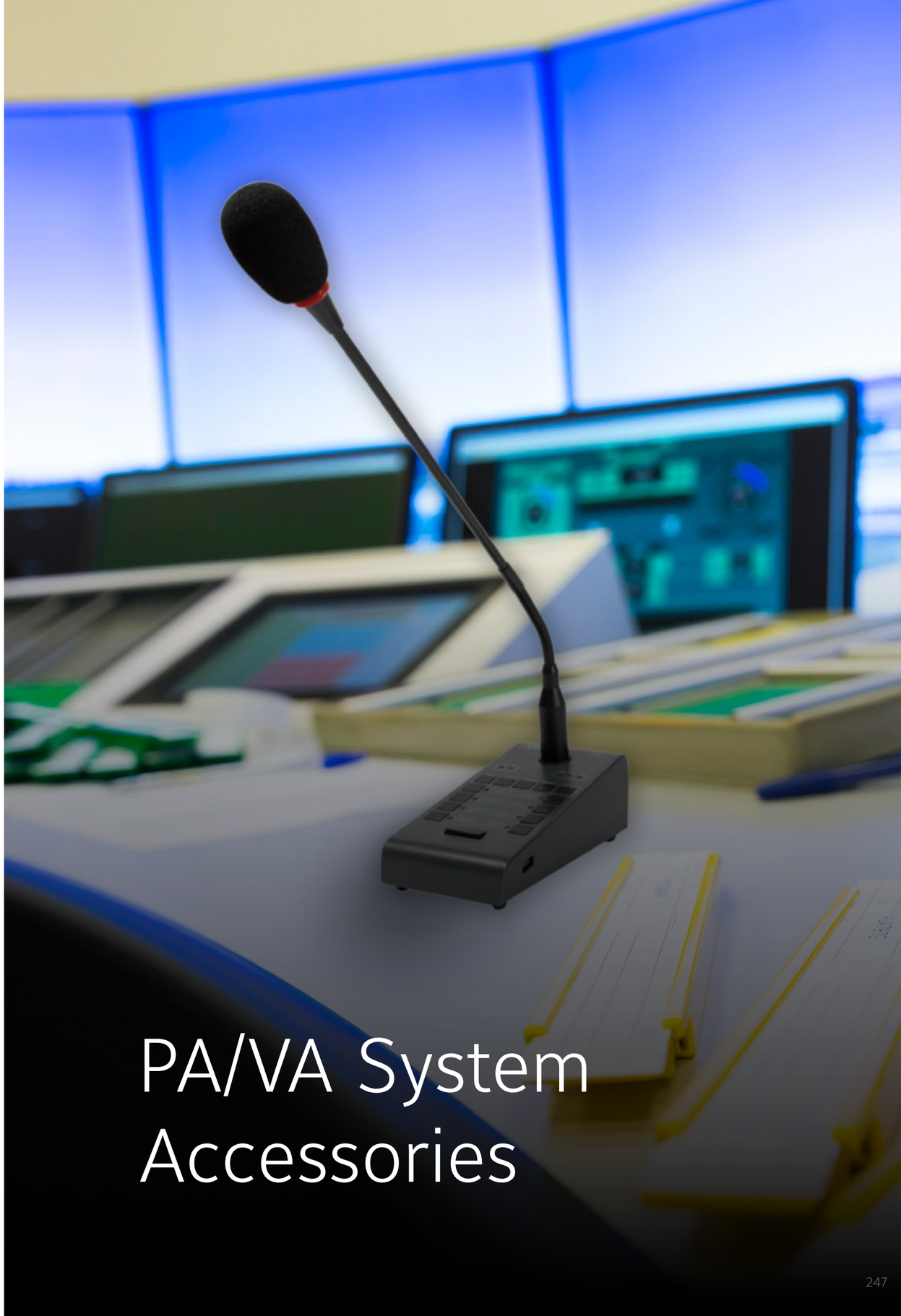
590.002.008	ONE500-LOOP	10 x ONE Network Card

Technical data:

Mechanical Data	
Dimensions (W x H x D)	120 x 20 x 100 mm
Weight	150gr
Electrical Data	
Capacity:	Up 10 x ONE500 and 60 Zones
Communication:	RS485
Cable wiring:	Up to 200m to each Node, max loop length 800m

Features

- Expandable up to 10xONE-500
- Expandable up to 60 Zones
- Redundant Loop communication
- Supervised/Managed System
- Easy to install



PA/VA System Accessories

A1 – Paging Microphone

The A1 is a high performance desktop microphone for professional Public Address installations. It has lighting indicators in order to show active state, line busy or Permission-to-speak-granted.
Thanks to its internal microcontroller, it is able to work under different systems and with different operational modes: on/off button, push to talk button, RS-485 communication or TTL through 2 wires, advise-tone to initiate/cut communication and TTL control level selection.

590.010.001	A1	Paging Microphone

Technical data:

Mechanical Data	
Dimensions (W x H x D)	125 x 45 x 125 mm (width x height x depth)
Electrical Data	
Power supply:	5V DC , 200mA.
Frequency response:	200- 15000 Hz (+/-2dB).
Audio output:	750mV 600 balanced

Features
- High performances dynamic capsule
- Local power supply
- Audio gain setting
- Configurable contact relay for auxiliary system
- Busy line and conceded-word indicators.
- Lighting indicator placed in the goose-neck
- Suitable for EN 60849 PA/VA systems like SONORA

MPS-8Z – Multi-zone Paging Microphone

The MPS series of paging stations is designed to provide the system with high-quality public address and performance microphones. The MPS-8Z microphone desk allows the user to give live voice announcements and messages to up to 64 public address zones of a NEO system.

590.010.002	MPS-8Z	Multi-Zone Paging Microphone

Technical data:

Mechanical Data	
Dimensions without gooseneck (W x H x D)	453mm x 88mm x 455mm / 18.2" x 3.46" x 18"
Finish:	Fe, Grey RAL 7016
Weight:	0.93 Kg
Electrical Data	
Power supply:	5V dc, Type A/B MiniUSB connector
Power consumption:	1A
Ambient Conditions	
Operating Temp:	-5 ºC to +45 ºC / 23 ºF to 113 ºF
Relative Humidity:	5% to 95% (no condensation)

Features
- 8-zone programmable buttons.
- System event activator
- Recall function
- Auto-lock function
- LED indications for zone selection
- LED indicators of the system's state (EMG, FLT or LINK)
- LED Indicators of busy and conceded word
- Power directly from system thorough the UTP cable

MPS-8K – Expansion Unit

Expansion unit for the paging microphone MPS-8Z. It adds 8 extra programmable buttons that can be assigned to different zones by the NEO configurator software. It includes transparent cover for zone's names indication. Up to 8 MPS-8K units per MPS-8Z microphone.

590.010.003	MPS-8K	Expansion Unit

Technical data:

Mechanical Data	
Dimensions (W x H x D)	86 x 75 x 200 mm / 3.4" x 2.9" x 7.9"
Colour:	Grey RAL 7016 and Black RAL 9005

Features
- 8 zones programmable buttons
- Can connect up to 7 units to an MPS-8Z microphone

Accessories
- Fixation elements, MPS-8Z connection and label for button identification.

VAP1 – Voice Alarm Panel

The Voice Alarm Panel is an external remote control that incorporates an emergency microphone and provides direct access to voice evacuation functionalities of the NEO system. It allows the user to give multiple live voice evacuation notices and to issue alert and evacuation messages to up to 56 selection memories of PA zones in a NEO system.

590.010.004	VAP1	Voice Alarm Panel

Features
- Up to 56 group memories of up to 8 zones per memory (448 zones of the system).
- Prior notice tone
- Volume adjustment
- Power supply indicator
- Emergency condition general indicator
- Fault condition general indicator
- Link with system fault indicator
- Power supply fault indicator
- Emergency microphone fault indicator
- Remote control indicator
- Emergency controls, Reset, Acknowledge, Test, Alarm message, Evacuation message
- Side port to connect up to 7 expansion keyboards

VAP-8K – Expansion Unit

Expansion unit for the fireman's panel, VAP-1. It adds 8 extra programmable buttons that can be assigned to different zones by the NEO Configurator software. It includes transparent cover for zone's names indication. Up to 7 VAP-8K units per VAP-1 panel.

590.010.005	VAP-8K	Expansion Unit

VAP-1EC – Blank Block for Voice Alarm Panel

Using VAP in its 4U and 6U racks. Below ONE500 when installed on the wall

590.010.006	VAP-1EC	Blank Block for Voice Alarm Panel

Technical data:

Mechanical Data	
Dimensions:	86 x 132 x 42 mm

Features

- Using VAP-1 in its 4U and 6U racks.
- Below ONE500 when installed on the wall.

RACK4ALT – 4U Wall-Mounted Rack Cabinet

It includes a glass door, perfect for the Voice Alarm Panel, VAP-1, and its expansion units, VAP-8K. It includes all blank panels and accessories required.

590.010.007	RACK4ALT	4U Wall-Mounted Rack Cabinet

Technical data:

Mechanical Data	
Dimensions (W x H x D)	601 x 282 x 151 mm
Finish:	Black powder paint RAL9005
Weight:	6.1 Kg

Features

- Full structure with 19" rack guides and adjustable front panel in 6 depth levels
- Access door made of metal and glass, with lock and key. 180º opening style
- Wiring hole on top or bottom panel
- Fully assembled

Accessories

- 2 keys, caged nuts and screws for rack mounting

RACK6ALT – 6U Wall-Mounted Rack Cabinet

It includes a glass door, perfect for the Voice Alarm Panel, VAP-1, and its expansion units, VAP-8K. It includes all blank panels and accessories required.

590.010.008	RACK6ALT	6U Wall-Mounted Rack Cabinet

Technical data:

Mechanical Data	
Dimensions (W x H x D)	601 x 372 x 152 mm
Finish:	Black powder paint RAL9005
Weight:	9 Kg

Features

- Full structure with 19" rack guides and adjustable front panel in 6 depth levels
- Access door made of metal and glass, with lock and key. 180º opening style
- Wiring hole on top or bottom panel
- Fully assembled

Accessories

- 2 keys, caged nuts and screws for rack mounting

TFL2 – End Of Line Device

The end of line device allows the system to obtain greater precision in the supervision of loudspeaker lines. End of line devices improve the detection of problems in open-circuit loudspeaker lines, but they cannot detect the place where the failure has occurred.

590.010.009	TFL2	End Of Line Device

Technical data:

Mechanical Data	
Dimensions (W x H x D)	66.3mm x 20mm x 50mm / 2.61in x 0.73in x 1.97in
Input:	100V or 70V PA line input, Max. consumption 15mA, 2 Pin Euroblock type
Weight:	35gr / 1,24oz

Features

- Supervision of 70V or 100V speaker lines
- Easy connection and installation, surface mountable
- Several devices can be connected to the same speaker line
- Small dimensions
- Low consumption
- Higher accuracy on impedance measurements
- Supervision until the last speaker, even in low load speaker lines
- No return cables
- 400R/200R configurable load for 19kHz tone
- Compatible with ONE and NEO systems with the latest firmware version

Accessories

- Male Euroblock connector

Johnson Controls Speakers

JCI Speakers

CH32TN – 3″ Ceiling Speaker

The Johnson Controls EN54-24 ceiling speaker with metal housing and 3″ for 70/100V lines of high quality for speech and background music. Thanks to the reduced dimensions, it can be installed in limited depth false ceilings.
The CH-32TN speaker comes with a fire dome. It is equipped with ceramic terminals and an isolation fuse to avoid that any damage in the unit could cause a general failure in the speaker line which is connected. These characteristic allow us to maintain the integrity and intelligibility of the system in case of evacuation.

590.003.001	CH-32TN	3'' Ceiling Loudspeaker

Features

- EN54-24 certified ceiling speaker
- Fire Dome
- Excellent for music and speech
- Easy installation through included springs

Technical data:

Mechanical Data	
Dimensions (W x H x D)	Φ 105m x 90mm
Diameter of speaker:	3″
Weight:	1.29 Kg
Colour:	White (RAL 9016) and red (RAL 3000)
IP protection grade:	IP44

CH-42TN–6'' Ceiling Loudspeaker

The Johnson Controls EN54-24 ceiling speaker with metal housing and 6″ for 70/100V lines of high quality for speech and background music. Thanks to the reduced dimensions, it can be installed in limited depth false ceilings.
The CH-42TN speaker comes with a fire dome. It is equipped with ce-ramic terminals and an isolation fuse to avoid that any damage in the unit could cause a general failure in the speaker line which is connected. These characteristics allow us to maintain the integrity and in-telligibility of the system in case of evacuation.

590.003.003	CH-42TN	6'' Ceiling Loudspeaker

Features

- EN54-24 certified ceiling speaker
- Fire Dome
- Excellent for music and speech
- Easy installation through included springs

Technical data:

Mechanical Data	
Dimensions (W x H x D)	Φ 200mm x 90mm
Diameter of speaker:	5″
Weight:	1.29 Kg
Colour:	White (RAL 9016) and red (RAL 3000)
IP protection grade:	IP44

DS-60TN1–5'' Surface Loudspeaker

The Johnson Controls EN 54-24 surface speaker with metal housing and 5'' for 70/100V lines both for music and high quality voice applica-tions. It is designed for surface installation, both for ceilings and walls.
The DS-60TN1 surface speaker includes a metal cabinet that protects it from fire and vandalism. It incorporates a ceramic terminal and insula-tion fuse so any possible damage to the unit does not cause a general failure of the speaker circuit to which it is connected. These features en-sure the integrity and intelligibility of the system to be maintained in the event of evacuation.

590.003.005	DS-60TN1	5'' Surface Loudspeaker

Technical data:

Mechanical Data	
Dimensions (W x H x D)	170 mm x 170 mm x 63 mm
Speaker size:	5''
Weight:	1.56 kg
Colour:	White (RAL9016)
Ambient Conditions	
Operating Temp:	-25ºC to +55ºC
Relative Humidity:	< 95 %

Features
- Surface Speaker for Voice Evacuation
- Metal cabinet
- Protected against fire. EN 54-24 certified
- Ideal for music and voice messages
- Easy installation

PCP-20TN–5'' ABS Acoustic projector

The Johnson Controls EN 54-24 acoustic projector with ABS metal housing and 5" for 70 / 100V lines of high quality for speech and background music. Includes anti-vandal and weather protection features
Thanks to the design of its fire protected ABS V0 cabinet, this projector speaker is ideal for installation in areas where the durability of the elements is a factor to be considered. It incorporates a ceramic terminal and insulation fuse so that possible damage to the unit does not cause a general failure of the speaker circuit to which it is connected.
The PCP-20TN includes a steel U-bracket, with adjustable inclination and easy installation, having the same color as the speaker itself.

590.003.006	PCP-20TN	5'' ABS Acoustic Projector

Technical data:

Mechanical Data	
Dimensions (W x H x D)	Φ 138 mm x 205 mm
Speaker size:	5"
Weight:	1.96 Kg
Colour:	White (RAL9003)
IP protection grade:	IP65
Ambient Conditions	
Operating Temp:	-25ºC to +55ºC

Features
- Surface Speaker for Voice Evacuation
- ABS casing, Protected against fire
- Excellent for music and voice playback
- Easy installation

PCM-20TN–5'' Metal Acoustic Projector

The Johnson Controls EN 54-24 acoustic projector with metal housing and 5" for 70 / 100V lines of high quality for speech and background music. Includes anti-vandal and weather protection features.
Thanks to its 3mm thick aluminum casing and its steel grille, it is fire rated and it is optimal for installation in areas where the durability of the elements is a factor to be considered. It incorporates a ceramic terminal and insulation fuse so that possible damage to the unit does not cause a general failure of the speaker circuit to which it is connected.
The Johnson Controls EN 54-24 acoustic projector with metal housing and 5" for 70 / 100V lines of high quality for speech and background music. Includes anti-vandal and weather protection features

590.003.007	PCM-20TN	5'' Metal Acoustic Projector

Technical data:

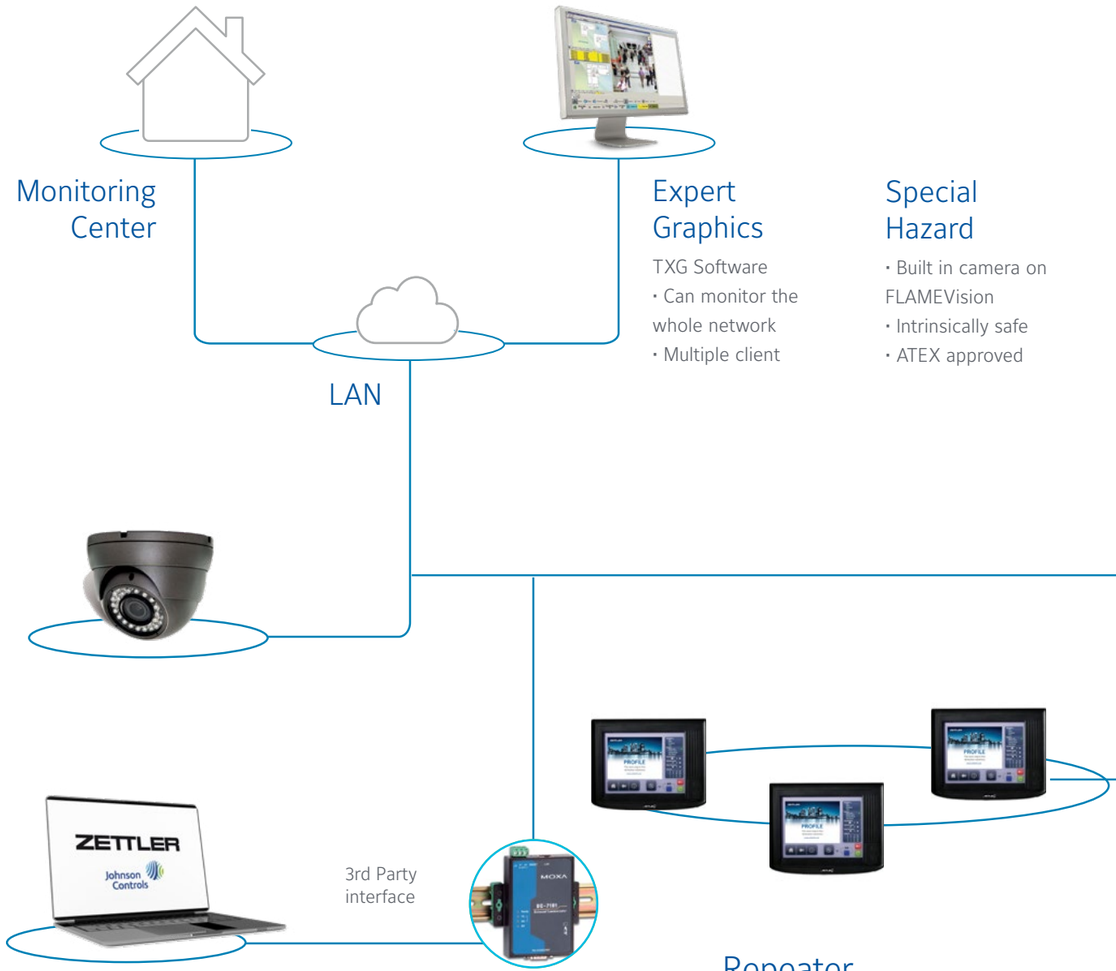
Mechanical Data	
Dimensions (W x H x D)	Φ 138 mm x 205 mm
Speaker size:	5"
Weight:	2.65 Kg
Colour:	White (RAL9003)
IP protection grade:	IP65
Ambient Conditions	
Operating Temp:	-25ºC to +55ºC

Features
- Surface Speaker for Voice Evacuation
- Metal cabinet, Protected against fire
- Excellent for music and voice playback
- Easy installation

ZETTLER System Diagram

Responsive Solutions

ZETTLER technology is renowned for its revolutionary capabilities, by understanding customer needs and usability; ZETTLER systems include advances such as remote access, connected services and integration with building management systems to help anticipate customer needs.
ZETTLER systems are scalable, robust, and optimized for a greater long-term return on investment.



Expert Graphics

TXG Software
- Can monitor the whole network
- Multiple client

Special Hazard

- Built in camera on FLAMEVision
- Intrinsically safe
- ATEX approved

Special Detection

The ZETTLER system can integrate easily with other special detection devices such as Linear Heat, Beam, Air Sampling technologies

Fire Alarm Devices

- Low current consumption
- Self test (RSM and RLM)
- 20ms pulse light for higher VAD effectiveness

Gen 6 Detectors

- Multiple approvals
- Single, double and triple technology
- Unrivalled sensitivity and false alarm resilience
- FastLogic algorithm
- Longer lifecycle

Repeater

- Aesthetically pleasing
- Connected over IP
- Fibre optic connection option
- 2 wire repeaters available (different wiring layout)

PROFILE Flexible

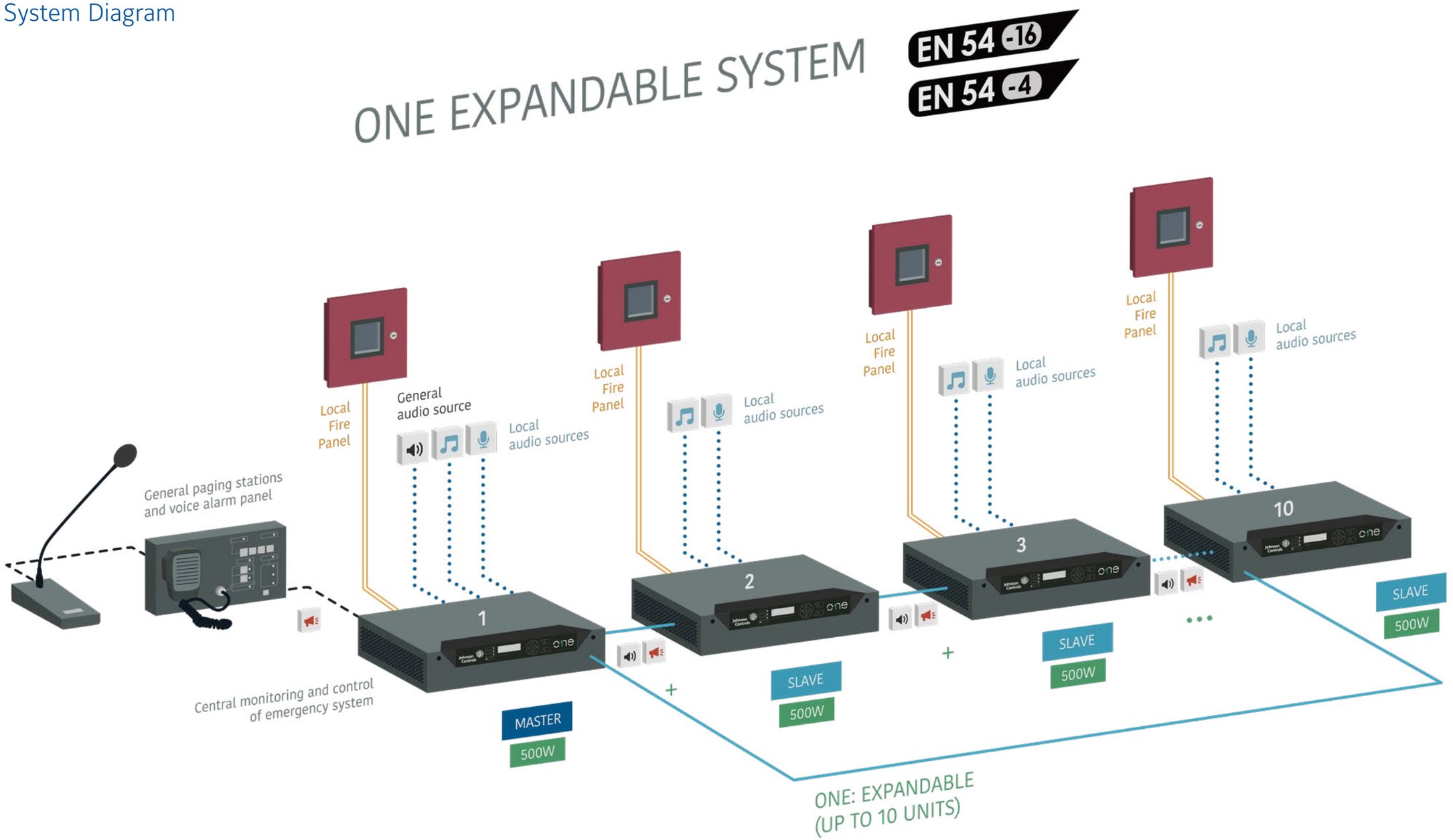
- Modular, up to 32 loops
- 1 Ampere loops
- Ergonomic user interface
- Robust and Reliable
- Multiple approvals
- Futureproof
- Easy to maintain

Network

- Up to 99 panels network
- Fibre Optic option for long distance
- EN54-13 approved
- EN54-2 approval over the network, to use distributed panels
- Black box panels available for reduced cost
- 3rd party integration

* Note: Simplified connection drawings. TLI800 network cards are not shown.

PA/VA System Diagram



LDA ACSI® paging station bus (UTP cable) | Speakers line 100V | Analogue audio | Fire alarm local zones and Fire alarm general / reset

Connection for up to 10 equipment with double communication link. Up to 60 zones and speaker lines. EVAC and ALERT local messages + Autonomous emergency power supply for each ONE unit.

General audio source | Local audio source (background music) | Local audio source with priority | General paging stations and voice alarm panel

ZETTLER

About Johnson Controls

At Johnson Controls, we transform the environments where people live, work, learn and play. From optimizing building performance to improving safety and enhancing comfort, we drive the outcomes that matter most. We deliver our promise in industries such ashealthcare, education, data centers and manufacturing. With a global team of 100,000 experts in more than 150 countries and over 135 years of innovation, we are the power behind our customers' mission. Our leading portfolio of building technology and solutions includes some of the most trusted names in the industry, such as Tyco®, YORK®, Metasys®, Ruskin®, Titus®, Frick®, Penn®, Sabroe®, Simplex®, Ansul® and Grinnell®.

For more information, visit **www.johnsoncontrols.com** or follow **@johnsoncontrols** on Twitter.

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The power behind **your mission**

Johnson Controls