



Fire Detection. Product Catalogue. Issue 4 2020.

The power behind **your mission**



FireClass is a revolutionary new class of commercial fire detection products.

FireClass consists of a comprehensive range of fully approved quality products designed and manufactured in Europe.

FireClass is designed to appeal to both the end user and installer with the latest fire detection technology packaged in an easy to install, out-of-the-box, digital open-protocol solution.

A new class of fire detection designed to meet all of your needs from a single supplier.

Introducing a new class of fire detection



Comprehensive Range

FireClass provides a broad range of detection solutions. FireClass conventional fire detection products range from the low cost J408-2 2 zone panel to the expandable 24 zone J424 panel.

These are complemented by an enviable range of conventional fire detectors

and accessories focused on providing comprehensive protection and minimum false alarms.

FireClass addressable fire detection products range from the easily installed out-of-the-box FC501 and FC MAE software to monitor various locations via

IP to the 4 Loop FireClass 64 and FireClass 240 networked digital protocol fire panels with optional FireClass Graphics.

FireClass Addressable uses a powerful and robust digital protocol for high reliability and flexibility in installation.



FireClass - A New Class of Fire Detection

Fully Approved

In order to ensure peace of mind for both the installer and end user, FireClass products are third party approved and certified to relevant European standards. FireClass approvals go beyond the minimum requirements including EN54 approval of the FireClass network, EN54-13 system approval, EN54 detector approval in all detection modes and the Prescient III Extinguishing Panel having EN54-2, EN54-4, EN54-13 and EN12094-1 approval.



Digital Open Protocol

FireClass provides a digital protocol solution widely available throughout the market via trade and distribution specialists ensuring freedom of choice for installers and end users.

Developed originally for the harsh marine environment FireClass uses a robust digital protocol that supports various wiring configurations to simplify installation and retrofit applications often problematic for competitors' protocols.

Easy to Install

Ease of installation and engineering underpins the concept of FireClass. It runs through all the products. For example panel installation is simplified by allowing electronics to be easily removed for first fix, whilst simple user friendly configuration software and fault finding tools speed up commissioning.

Field device installation is simplified through the flexibility of the FireClass digital protocol and other features such as the ceiling tile adaptor that can significantly speed up detector installation.

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 FIRECLASS

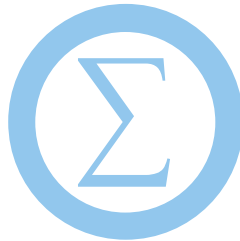
Locations



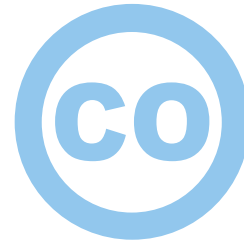
Why FireClass?



FireClass is a digital fire detection technology built on over 50 years of dedication and performance from Johnson Controls



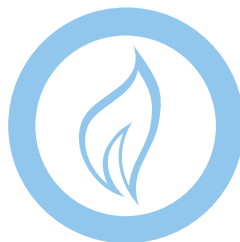
The panel's core technology uses a digital fail safe algorithm to talk to each device and determine if that device is functioning as it should. The system can then promptly and precisely alert facilities management personnel, based either on-site or remotely, to any breakdowns or maintenance issues.



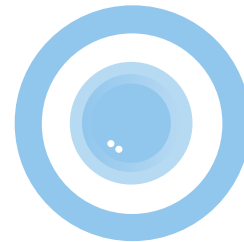
FireClass provides an extended 10 year lifespan on the CO sensitivity element. This device is primarily used to protect occupants whilst they sleep.



Widely chosen as the fire detection product of choice, FireClass addressable control panels take today's computer performances and adapt them to become one of the most effective and sophisticated fire alarm panels on the market.



FireClass encompasses three main levels of detection including optical smoke detection, heat detection and detection of CO levels. Depending on the application; these can be adjusted to various levels of sensitivity in order to sense a fire and reduce false alarms.



The Triple Sensor Detectors can sense all signatures of fire including heat, smoke and CO. The system analyses all three channels of data and rapidly analyses, using sophisticated algorithms to provide an accurate confirmation of a real fire.

FireClass Scenarios

Commercial

The FireClass range comprises a complete fire detection solution for all commercial environments. Bringing sophisticated fire detection technology into these public spaces, used by millions each day, will ensure a safe and secure environment.

FireClass systems provide an unbeatable level of accuracy and ease of use for building personnel, installers and firefighters. At the first sign of danger, the FireClass system triggers a pre-programmed coordinated alarm, people are led out of the danger area via both audio and visual messages, and extinguishing systems are activated if required.

Our detectors can be found in almost every commercial environment including office complexes, hotels and shopping centres, schools and hospitals around the world.



FireClass Scenarios

FireClass for Residential and Work Environments

Keeping your home, business, loved ones and property safe is of paramount importance. For ultimate safety and adaptability FireClass products can be installed to protect any environment.

The FC501 Panel saves installation time and cost, and provides an out-of-the-box solution which does not require configuration. It's easy to set up with a little training and has full local and remote monitoring control.



FireClass Scenarios

FireClass for Office and Corporate Environments

In corporate office buildings false alarms can be an expensive and time consuming blight on business and the fire and rescue services. The FireClass range features a number of enhanced fire detection technologies designed to improve the management of false alarms and reduce their impact. These include, the Triple Sensing Detectors (sensitive to Heat, CO and Optical smoke detection) FireClass Graphics fire alarm management system and a selection of manual call points with covers.



FireClass Scenarios

FireClass for Retail Environments

Retailers large and small face the constant challenge of loss prevention, whether the risk is vandalism or arson, customer or staff theft, fraud or robbery. Protecting a business against fire and smoke damage, but most importantly, safeguarding the welfare of employees and customers, should be of primary concern in the overall running costs of any business.

Industry statistics tell us that commercial fires cost more than £2 billion to the UK economy in 2013 and 60% of private businesses never recover from a fire.

Johnson Controls is committed to helping customers achieve their commercial and industrial safety and security goals so that they may maintain and improve business productivity.

FireClass FC501 offers the ideal solution for retail premises; from large and multi-site to smaller, single shops. Retailers often alter or modify their internal shop architecture and some shop alterations are often carried out with conservative time frames in order to minimise off-trading. FC501 provides triple loop inputs, spurs and radials. It can be wired in many ways to achieve the desired result for a suitable fire detection system as it has the flexibility to match requirements in any shop size, whilst being able to adapt to new layouts as easily and quickly as possible. The FC501 also has the added advantage of integrating IP based cameras into the Graphics package, to allow remote confirmation of alarms.



FireClass Scenarios

FireClass for Hotels

Hotels often offer a complex challenge with varying room sizes, restaurants, leisure facilities and public areas all under one roof. The reliability of the system is paramount as its primary function is to protect life. FireClass systems provide the most effective cover, performance you can count on with minimum disruption to the operation of the building and its occupants.

Most hotel bedrooms have en-suite facilities containing bath and shower. Both of these can generate substantial amounts of steam which is known to trigger some smoke detectors. This disruption could be extreme and result in an unnecessary full evacuation. Various sensitivities are available to truly tailor the system to the building owner's needs. Guests can be inconvenienced if sleeping, eating in the restaurant, relaxing in the bar, or in a meeting or conference in one of the hotel's meeting rooms. Not to mention the financial penalties when guests refuse to pay or take their business elsewhere for the next visit.

The FC460PC Multisensory uses sophisticated technology to ensure that the steam escaping from the en-suite facility will not trigger an alarm. However the sensor is still highly sensitive to the products of combustion generated by a smouldering fire and will raise an alarm even before a normal sensitivity smoke detector, due to its ability to sense the combustion gas; carbon monoxide, produced by the fire.



FireClass Scenarios


FireClass for Care Home Environments

The reliability of a suitable fire detection and alarm system within a residential care home is paramount as its primary function is to protect life. Unlike most buildings whose occupants are of sound mind and body, this is not always the case in residential care premises and this should be taken into account when planning your fire detection system.

Disruption can be stressful to residents and it is therefore vital that the chosen system provides effective cover, performs reliably, and gives the maximum possible warning in the event of fire, given the additional difficulties in evacuating residents to safety.

Furnishings in residential homes often contain carbon. When these materials are involved in a slow smouldering fire, carbon monoxide is released. The combustion gas is highly toxic, odourless and colourless and poses a major threat to a person sleeping. Long before there are any visible signs, toxic gases can reach dangerously high levels. In older and frailer people the threat to life is exacerbated.

By installing the FC460PC Multisensory in each bedroom, protection is afforded to the highest level from the emissions from a fire of heat, smoke and carbon monoxide.



These three detection elements combine to provide a highly sensitive detector which although classed as an optical smoke detector, increases its sensitivity in a fire where there is a presence of carbon monoxide. This enables the detector to operate, in most cases, much faster than a standard optical smoke detector enabling the occupant of the room to be rescued earlier and suffering less from the effects of smoke/ toxic gas inhalation.

There are times when vulnerable occupants within a building are at risk but sounding a high level warning will just cause distress. In such cases FireClass sounders and beacons are addressed which means although installed on the same cables they can be programmed, when to operate and at what volume. Volume is set in software so some sounders can be set at lower levels than others, or even turned off leaving only the flashing beacon operating. This allows the designer to be flexible in his design whilst the installer and user do not incur extra costs for additional wiring of sounder circuits. In some cases designers even opt to use the feature whereby they sound just the one detector in alarm for a period of time, to allow the occupant to clear the cause of the activation.

FireClass Scenarios


FireClass for Manufacturing and Warehouse Environments

Warehouses and manufacturing spaces can vary enormously in size and process, some being fully automated and some having multiple occupants at different times of the day.

Distribution warehouses can be difficult places in which to work as they may require specialist platforms for working at height and could present on-going problems for maintenance and repair.

Equipment used and access to escape routes are also major factors when planning and designing an effective fire detection system. Alternatives to the standard point detection systems are smoke beams, and aspirating systems within storage racking, providing the solution for a sensitive yet stable fire detection solution.

The FC460 addressable multisensory detectors are ideal for this environment. They can be programmed in such a way that at certain times of the day, when the building is fully occupied and the risk of fire going undetected is low, the smoke elements can be turned to low sensitivity and then turned back up to their normal sensitivity during unoccupied periods.

A worker wearing a yellow hard hat, safety glasses, and a high-visibility yellow vest over a dark blue shirt is looking down at a device in his hands. The background is a blurred industrial setting with yellow and blue structural elements.

The FC460 addressable point detectors also have added protection applied to printed circuits and vital components to enable them to survive in environments that are more difficult. Threshold compensation overcomes the effects of dirt and dust and prolongs the life of the detector reducing lifetime costs. You can also read the contamination level of each sensing element for each device in the FireClass range at any time you wish.

The Fire Ray 5000 smoke beam and FC410 beam detector module allows direct connection to the addressable loop, saving wiring and associated costs. The beam detector is motorised so if the beam alignment shifts due to building movement, it realigns itself automatically.

The ICAM AS 460 and 461 single or dual air sampling systems combines the best of the FireClass 460 PH multisensory with proven air sampling techniques. This form of detection is ideal within racking where plastic pipes are all that exist and can easily be protected against the risk of mechanical damage.



FireClass a Solution Focused Approach

The FireClass product range has been consistently developed with the views and needs of customers and end users in mind. All our products are specifically focused on providing the most effective and efficient system for the environment and for those responsible for installing and maintaining the system. Below are some examples.

Customer Requirement:

Often on a construction site, such as a newly built office block, fire detection installation contractors are requested to provide a first fix installation to all detectors but they are not able to return to the site for several months to complete the installation due to the installation of the ceiling.

Solution:

On a recent installation with Fire Detection and Suppression, Bristol, for installation of all detectors FireClass recommended that our customer use the Ceiling Tile Adaptor Kit (517.050.060), this way the engineers were able to not only first fix devices but they were also able to install and commission all smoke detectors and complete programming and testing in one visit.

The engineers clipped their standard bases to the ceiling tile adaptor back box then installed the detectors. They were then able to connect the devices to the loop and test each device.

On this project, the engineers were able to leave the ceiling tile adaptor bezel and clamp, which had been installed by the ceiling tile contractor, in positions marked on the installation drawings. This was done by drilling a 127mm hole in each tile and then pushing the bezel and clamp into the hole. The contractors were then able to pull through each detector as they installed the ceiling tiles.

Upon return to site the fire alarm engineers simply re-tested the system and handed over to the client to manage. No additional visits were required to second fix detectors, therefore offering a cost saving to the end user.

Outcome:

FireClass was able to save the end user costly re-visits for continued testing and commissioning of the system. This enabled our customer to win further work with this client and other clients as they had the time available to send their engineers to site.

Customer Requirement:

When dealing with a monitoring gas extinguishing system for instance in a server room with addressable fire detection in all areas, customers often require the system to be controlled by a central panel located in the engineers' maintenance office.

Solution:

Within the FireClass range, we offer an addressable panel which uses addressable smoke and multi sensors in the server rooms. This could be used to distinguish a fire condition in each server room giving full details and enabling Quad Input/Output units (555.800.771) to be programmed to operate a Prescient III gas extinguishing panel to operate the gas suppression required in the correct area.

The system also uses addressable detection for all areas outside of the server rooms and effectively reports back to the same panel. Using a four loop panel provided the capacity to have up to 1000 addresses, consequently leaving the end user enough space on the loop for future expansion.

These signals were all then reported back to a FireClass Graphics system (FCG-001) where, with the full flexibility of a computer, the end user was able to monitor all activations from site on a graphical representation of the area where the incident occurred. The user friendly software also enabled the end user to customize how they wanted to see the screen and all relevant buttons for controlling the fire alarm panel.

Outcome:

Using FireClass the customer was able to provide a building solution, using an addressable fire alarm panel and devices together with gas extinguishing panels and a full graphical interface to control the system and mimic the status at all times.





Total Solutions from Johnson Controls

A global company with a strong local presence Johnson Controls' mission is to advance safety by finding smarter ways to save lives, improve businesses and protect where people live and work.

Our global presence, local knowledge, diversified product ranges and investment in research and development mean we can offer a complete solution from design, manufacture and installation to outstanding after sales support and training.

Part of our strength lies in our brand portfolio and complete solution offering. Johnson Controls offers products with some of the world's most trusted and recognized fire suppression, detection and mechanical products.

Individually, each represents the highest levels of research, development and proven performance, with ISO 9001-2000 quality registrations and major international performance standards and approvals. Together, they add up to the most encompassing source of protection a customer will find.

Fire Detection

With over 50 years of experience designing fire detection technology, Johnson Controls offers a solution for every environment from simple conventional systems to complex integrated systems for hazardous industrial installations. Their team of expert engineers and designers are continuously researching fire detection technology to develop innovative and more enhanced systems to improve the fire safety and protection.

This expertise and heritage has been responsible for innovative solutions over the years, including the first carbon monoxide fire detection technology for commercial environments and triple sensing technology.





Special Hazards

For today's businesses, survival depends on the management of critical assets like never before. With more than 600 years of combined experience in special hazard fire suppression, Johnson Controls sets the standard for the suppression and detection of fire in industrial, commercial, and other special hazards – offering a solution which considers all the risks of the hazard.



Dedication to Innovation.

Each year, Johnson Controls invests millions of dollars and countless hours in the development of new technologies to safeguard lives, property and the environment. Our innovations are based on customer needs, the outcome of a thorough understanding of their unique industries and the challenges and opportunities they face.

Supported by our advanced research and development facilities, and modernized manufacturing platforms throughout the world, the solutions we provide deliver measurable value, performance and sustainability to our customers.

For more information on complete solution offerings from Johnson Controls please visit www.johnsoncontrols.com



Water Fire Suppression

More than 30 million specialised sprinklers are installed to protect environments and people throughout the world every year. Each year Johnson Controls is investing in new innovative technology to ensure our solutions meet the needs of our customers and offer the smartest protection for every environment.

Johnson Controls Security Products

tyco | American Dynamics

tyco | Bentel

tyco | CEM Systems

tyco | DSC

tyco | Exacq Cloud

tyco | Exacq

tyco | Illustra

tyco | Kantech

tyco | Visonic

tyco | Software House

Multiple Discipline Systems Integration

Tyco, a Johnson Controls company, is a unified group of World-leading access control, video and intrusion brands. These brands - American Dynamics, Bentel, CEM Systems, DSC, Elpas, Exacq, Kantech, Software House, Sur-Gard and Visonic - have more combined years of experience in the security industry than any other group in the world. Our security integration platforms, built by our developers from across all product disciplines, allow our customers to see more, do more, and save more. Our solutions today are designed to be compatible with the technology of tomorrow.

In more than 40 offices with more than 2,000 employees around the world, we support our global, local, and regional customers to the highest level with sales, technical support and customer service before, during, and after the sale. Our world-class channel of dealers, integrators and distributors are trained to help customers with any complex problem in virtually any industry - retail, residential, gaming, transportation, healthcare, finance, education, government, POG to name but a few.





Icon Library



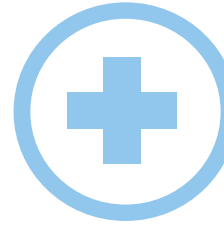
Retail



Education



Data Center



Hospital



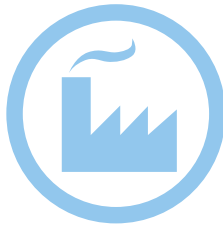
Restaurant



Office



Hotel



Factory/
Warehouse



Fire in Dusty
Environment



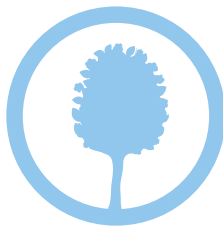
Small/ Medium
Building Size



Medium/ Big
Building Size



Extinguishing
Feature



Outdoor
Feature



Easy to Install
Feature



Fast Burning
Flame



Slow Burning
Flame



Best in Class from FireClass

Reflective Monitoring and Self Test



Regular testing of fire detection systems is necessary but is often disruptive especially in buildings such as hospitals or hotels. The new range of fire alarm devices from FireClass are, smart enough to test themselves without disruption when required.

Reflective Light Monitoring (RLM) is used to perform a full self-test of all VADs. Reflective Sound Monitoring (RSM) enables a full-self test of sounding devices. RSM and RLM measure and test sound and light output. These are not based on electronic measurements or simulations, but on real output.

This method of testing is highly accurate and reassures the end user by providing a high level of confidence in the performance of the system.

These self-tests can be triggered from the panel user interface at any time.

FC460PH Multi Sensor Detector



- Combined optical and heat sensor smoke detector.
- Most flexible detector in FireClass range - can be adapted to provide protection to a range of environments.
- Detects a wide range of fires including low smoke and low heat.
- Operates in various modes and sensitivities to heat and smoke.
- Modes can be fully controlled and programmed via the panel.
- Software can be configured into two device address points to allow the panel to treat the device as two individual devices should the need arise.

The FC460PH is the most flexible detector in the FireClass range. With its ability to detect a wide range of fires, from a flaming to a smouldering fire, the combined optical and heat sensor smoke detector is the preferred choice for a range of fire detection applications.

These include businesses in the light industrial, retail and office environments. The smoke detector operates in a number of approved modes and sensitivities that can be dynamically selected to suit different environmental conditions. Incorporating the FireClass digital detection algorithms, a market leader providing fire security peace of mind for its users, the smoke detector is fully approved, including EN54 AND CPD.

The multi sensor has six general modes along with several sensitivity settings. The panel can switch between any two of these modes and sensitivities by method of day/night time points, manual operation of the panel's day/night button or also via device input. Alternatively the device can be simply left in one mode permanently.

The six modes are:

- 1- High Performance Optical and 60°C Fixed Temp. (Default Mode)
- 2- High Performance Optical.
- 3- Standard Optical Smoke only .
- 4- Heat Only – Rate of Rise.
- 5- Heat Only – 60°C Fixed Temp.
- 6- Standard Optical + 60°C Fixed Temp. (As well as Normal, Low and High sensitivity settings for all optical based modes)

FC460PH Multi Sensor Detector



The High Performance Optical Mode (HPO)

The HPO mode is designed to allow the panel to enter an alarm state more readily than it would from a standard optical detector. For instance if there is less smoke than normal being produced when a fire is burning, or if there is a sudden, intense fire caused by ignition of a mixture of air and a dispersed flammable substance; the HPO mode will use an algorithm to effectively increase the sensitivity of the smoke sensing element as the temperature rises dramatically.

Basic High Performance Optical Mode

This mode is a smoke detection mode only, it does not allow the panel to alarm on detecting heat at all, it purely uses the heat level sensed to adjust the sensitivity to smoke in its environment.

High Performance Optical Mode with Fixed Heat

This mode provides a safety backstop; if the ambient temperature reaches or exceeds 60°C the panel will alarm due to heat as well as smoke regardless of smoke levels.

The choice of modes makes the FC460PH a versatile device which can suit many applications and can also be the best option when it proves difficult to determine what type of device would best suit a situation.

For example in a difficult to access area such as a lift shaft or high ceilings or locked rooms, controlled areas, HMO type apartments where accessing and changing the physical device could be problematic.

The modes of this device (and indeed the majority of the other FireClass loop devices) are fully controlled from the panel hence there is no need to revisit the physical device to change it or its settings. As with all FireClass loop devices they are software addressed thus reducing problems otherwise associated with hardware addressing methods/wear and tear.

Finally, the device can even be split (by means of configuration software) into 2 device address points to allow the panel to treat the device as though it were 2 individual devices should the need arise.

Multi Account Engine



FireClass Console Multi Account Engine (FC MAE) is the newest FireClass software that allows users to monitor multiple FireClass systems spread across the world.

It can:

- Manage up to 32 FC500 series panels (FC501, FC510, FC520) connected via Ethernet through the FC500IP3 module.
- Show real time status of the panels.
- Alert the operator once an event occurs in one of the monitored systems.



Best in Class from FireClass

Addressable Call Points



There is a comprehensive range of call points for use with FireClass addressable systems, using the robust and reliable FireClass open protocol. All the call points are designed to enable an alarm signal to be given by a plastic resettable element, which means that the call point can be easily reset after it has been activated. Addressable call points have:

- Compact, modern styling.
- EN54-11 Certification.
- Integral short circuit isolator.
- Dual colour LED indication.
- Test key for fast testing.
- Optional transparent hinged cover.
- IP67 Ingress protection models for external applications.

DPK6 – Duct Probe Unit



The DPK6 duct probe unit has been developed to detect smoke in ventilation ducts and offer significant benefits in terms of performance and installation. Features of the DPK6 are:

- Designed to comply with EN54 part 27.
- One-pipe air sampling system.
- Patented Venturi pipe and duct housing.
- Test hole on cover.
- Simple installation.
- Sensitive flow indicator.
- Simple service and maintenance.
- Range of aluminum probe tubes are available for ducts up to 2700 mm.

Addressable Range



ADDRESSABLE



FireClass 501

- Low cost entry level digital panel.
- Auto learn and auto addressing with Intelli-Zone feature
- Full out-of-the-box functionality.
- Versatile easy to install addressable alternative to conventional.



FireClass 32, 64 and 240

- Digital addressable panels offering 32, 64 or 240 zones.
- Up to 1000 devices per panel.
- Dedicated EN54 approved network.
- Up to 24000 devices per network.



FireClass FC460 Detection

- Provides the best in class environmental and detection performance with the capability of detecting all fire types.
- Range includes an Optical/Heat Multisensor and Optical/Heat/CO triple multi sensor.
- Automatic self testing of each sensor element.
- 360 degree alarm, fault and isolated LED on each detector.
- Six EN54 approved modes for the Optical/Heat multi sensor.
- Optical/Heat multi sensor can use different modes in day/night settings.
- All optical modes have three EN54 approved sensitivities.
- Lower lifetime cost offering an extended service life.



FireClass 500

- 1 or 2 loops panels.
- Auto learn technology.
- Up to 250 devices per loop.
- Easy to configure.
- User friendly graphical maps.



FireClass Graphics Software

- Graphical emergency management systems.
- Client/server system, allowing several workstations to operate over a network.
- Software for remote monitoring over TCP/IP.
- Multiple site management over IP from a single workstation.



Detector Bases and Accessories

- Range of standard bases, isolator bases, sounder bases and sounder/beacon bases.
- Addressable functional bases can be programmed via a download to adjust volume, tone selection and flash rate complemented by the time saver ceiling adaptor allowing fast and easy installation.



Call Points

- The most recognisable indoor and outdoor callpoint.
- Built in isolator.
- Number of accessories available.



Addressable Modules

- Wide range of input, output and multi function modules to suit all applications.
- Universal detector module to connect two conventional circuits.
- Self powered high voltage relay that can switch mains voltage directly from a module of the FireClass loop.
- A choice of quad input/output modules designed for a variety of interfacing applications.



Sounders and Beacons

- Comprehensive range of visual alarm and visual indication devices as well as sounders and sounder bases
- Wide selection of sounds to match new and existing applications.
- Sounder and beacon elements operated separately by the FireClass panel to facilitate most evacuation strategies.
- Volume, tone and flash rate can be configured by software individually or globally.

Addressable Range Overview



Comprehensive Addressable Range

The FireClass Addressable range of panels offer the customer very easy to install and configure out-of-the-box, stand-alone panels with up to 6 in two loops supporting up to 500 addressable devices. In addition, the range includes panels from a 1 loop panel up to a 4 loop panel with up to 250 addresses per loop, from 32 to 240 zones per panel and up to 7 fully functional repeaters per panel with 24 panels networked together. FireClass also offers a full range of low false alarm multi sensor detectors and an extensive array of field devices.

Fully Approved

In order to ensure peace of mind for both the installer and end user, FireClass products are third party approved and certified to relevant European standards. FireClass approvals go beyond the minimum requirements including EN54 approval of the FireClass network, EN54 detector approval in all detection modes and EN54-13 system approval for the networkable panels and a wide range of loop devices.

Freedom of Choice

FireClass provides an open protocol solution widely available throughout the market via trade and distribution specialists ensuring freedom of choice for installers and end users. Easy to use programming software is available to installers and end users, with the majority of service functions available through the panel user controls. Device configuration and text changes now also available through the panel user controls.

Robust Digital Protocol

Developed originally for the harsh marine environment FireClass uses a robust digital protocol that has been proven to withstand poor, damp and damaged cables for over 20 years. The resilient digital protocol works on most existing cables and allows for flexible installations when T's are required. The loop can be made from spurs for a simple upgrade of conventional systems and allows up to 250 addresses per loop with 500mA for broad applications.

Resistance to False Alarm

The range includes a high quality optical smoke detector together with various multi sensor devices. The ultimate in false alarm resilience is provided by the triple sensing detector, combining optical, heat and carbon monoxide sensing technologies. Day/ Night detection modes also allow for false alarm reduction when the building is occupied.

Panels



Panels

ADDRESSABLE



Panels

FC501



General Features

- 3 in 1 loop panel.
- Up to 400mA current dynamically shared across 3 loop circuits.
- Up to 128 Addresses / 32 Zones.
- Easy to programme.
- Out-of-the-box, fully programmable via keypad.
- Auto Addressing.
- Auto Mapping with Intelli-Zone feature.
- On screen help function.
- USB port dual role Host/Device to upload/download language file, firmware, configuration, vocal messages, etc.
- Walk test function.
- Loop break location.
- 4000 Event Log.
- On board PSTN communicator.
- Optional IP board.
- Up to 4 repeaters.
- Fast and simple system configuration via software, also offline.
- Battery/wiring calculation and customizable cables database.
- Remote real time visualization of control panel loop & zone status, etc via IP.



- Easy Remote user interface with control buttons (reset, silence, evacuate).
- Multilevel map based on a tree structure.
- Capability to print zone label sheet for front panel customization.

General Information

FC501 is a FireClass addressable solution for small systems brought to you by Johnson Controls.

Conceived to be extremely easy to install and use, the FC501 is an out-of-the-box panel which offers the simplicity of a conventional system and the benefits of the FireClass addressable digital technology.

Auto Addressing, Intelli-Zone, On screen help function, USB interface to upload the configuration and the easiness to configure the panel via integrated keypad are only some of the features that allow the installation and configuration of the FC501 in just a few simple steps.

This 3 in 1 loop panel enables 3 circuits of devices to be connected to this single loop panel providing greater flexibility and simplifying the wiring process. Once the loop devices are wired the system can be auto addressed by a single click. The devices are automatically assigned to 3 zones, according to the physical loop they are connected to, the system is ready to protect the site. The FireClass FC501 control panel supports up to 4 repeaters of the newly introduced FC500 FireClass Repeater.

If the system configuration needs to be modified and the devices re-addressed or the zones re-programmed, the powerful Intelli-Zone feature significantly reduces the configuration time allowing the installer to perform test and programming at once.

The configuration software is extraordinarily user friendly and provides a very easy to use graphic interface that displays all devices connected to the different zones. A battery and wire calculation tool is included in the software to help the installer design the system. A free graphic maps software, based on a multilevel maps tree structure allows a remote real time visualization of any loop, zone and point status and the simple remote user interface with control buttons (reset, silence, evacuate), allow users to manage the system from any location in the world.

The FireClass FC501 control panel supports a total of 128 devices, including the double and triple technology detectors and a multitude of modules and sounders, benefiting one of the widest ranges available in the market.

Triple Circuit Single Loop Panel - 2,7A PSU English



Triple Circuit single loop panel, supporting up to 128 loop devices.
The overlay contains text strings in English.
2,7A power supply unit.

Product Order Codes

557.200.718 FC501-H



Triple Circuit Single Loop Panel - 1,5A PSU, Icons



Triple Circuit single loop panel, supporting up to 128 loop devices.
The overlay has icons, this makes the panel suitable for all markets.
1,5A power supply unit.

Product Order Codes

557.200.719 FC501-L



Triple Circuit Single Loop Panel - 2,7A PSU, Icons



Triple Circuit single loop panel, supporting up to 128 loop devices.
The overlay has icons, this makes the panel suitable for all markets.
2,7A power supply unit.

Product Order Codes

557.200.720 FC501-HK





Panels

FireClass FC503 and FC506 Addressable Panels



General Information

The FC503 and the FC506 are the newest FireClass addressable panel solution for a wide range of applications and requirements. Conceived to be extremely easy to install and use, both of the new panels are an "out of the box" solution which offer the simplicity of a conventional system and the benefits of the FireClass addressable digital technology.

Auto Addressing, Intelli-Zone, Online Help function, USB interface to upload the configuration and the easiness to configure the panel via integrated keypad are only some of the features that allow the installation and configuration of the panels in just a few simple steps.

The FC503 panel has 3 in 1 loops that can support up to 250 addressable devices and 128 zones while the FC506 panel has 6 in 2 loops that can support up to 500 addressable devices and 256 zones.

The ability to network (via RS485) up to 8 repeaters and up to 7 panels in a master-slave network means that a single system can monitor up to 3500 sensors / devices. The availability of the EN54 certified FC500IP communication module and integrated PSTN module allow sites to be easily and effectively monitored, even from remote locations.

A free graphic maps software, based on a multilevel maps tree structure allows a remote real time visualization of any loop, zone and point status and the simple remote user interface with control buttons (reset, silence, evacuate), allow users to manage the system from any location in the world.

General Features

- Up to 1A current dynamically shared across the loop circuits
- Auto mapping with Intelli-Zone feature
- Online Help function
- USB interface dual role Host/Device
- Multi users and multi installers (Up to 2 installers, 8 users)
- Walk test function
- 4000 Event Log
- Loop break location
- On board PSTN communicator
- GSM/GPRS as external module
- Up to 8 repeaters and up to 7 FC500 Series panel clients
- Event transmission through PSTN and IP
- Automatic drift compensation



Product Order Codes

557.200.725	FC503: 3 Loop Panel 250 Points
557.200.726	FC506: 6 Loop Panel 500 Points
557.200.727	FC500 FireClass Repeater

Panel Accessories

IP Module



The FC500IP v3 is an IP Module which is used to connect control units in the FireClass 500 range to a LAN. With a public IP address, it is also possible to manage and monitor the control unit from anywhere in the world, as long as you have access to the Internet.

The new version 3 is able to communicate events up to 3 receivers using SIA protocol.

General Features

- Connects the FireClass 500 to the LAN.
- Remote maintenance and programming via the IP address.
- Configuration DHCP or manual.
- 128-bit AES Encryption.
- Can be installed inside the FireClass 500 panel enclosure.
- Send events to alarm receivers using SIA protocol.

Product Order Codes

508.031.743 FC500IP3



Multifunctional Interface



FC500MFI is a multi functional interface between FireClass 500 control panel and a simple fire brigade or a remote control board that can be placed at up to 1 km distance from the FireClass 500 control panel. Moreover a serial printer, able to print out all events occurring in the system, can be connected to each FC500MFI as well.

General Features

- Simplified connection to fireman's interface or remote control panel.
- Interface for serial printer.
- Up to 4 FC500MFI per system connected through the bus RS485.

Product Order Codes

508.031.742 FC500MFI



Panel Accessories

FC500 Panels Monitoring Software



FireClass Console Multi Account Engine (FC MAE) allows users to monitor multiple FireClass systems spread across the world from a single workstation.

It manages up to 32 FC500 series panels (FC501, FC503, FC506) connected via Ethernet through the FC500IP3 module, showing their real time status and alerting the operator once an event occurs in one of the monitored systems

General Features

- Remote management via Ethernet.
- Monitors up to 32 FC500 Series panels (FC501, FC503, FC506).
- Pop-up and audio notification on new events.
- Traffic light style indicators for panels status.
- Overall system status indicator.
- Integrated with FireClass Console and FireClass 500 Console software.
- Quick link to the FireClass graphic maps.
- Single log file for the whole monitored system.
- Data encryption by AES128.

Product Order Codes

557.202.726 FC-MAE



USB 5m Cable Type A <=> Type A



Allows connection of a FC501 panel to a PC.

Product Order Codes

508.032.037 USB 5m cable type A <=> type A

Cabinet for Spare 38Ah Batteries



Extended Battery Cabinet housing up to two 12 V, 38 Ah batteries providing extended battery backup time for the system.

Product Order Codes

508.032.036 FC500BX

FireClass FC500 Spares

Product Order Codes

508.032.040	B078 Motherboard for FC501
508.032.042	DISP-FC501 Spare Display for FC501/FC503/FC506
508.032.044	Spare Motherboard for FC-503 3 Loop FireClass Panel
508.032.045	Spare Motherboard for FC-506 6 Loop FireClass Panel



Panels

FireClass 32 One Loop Addressable Panel



General Information

The FireClass 32 digital addressable panel has been designed to work with FireClass protocol devices. The panel is powerful, user friendly and designed and manufactured to a high standard and certified to CPD and EN54, Parts 2 & 4.

The panel operation provides considerable processing ability enabling highly definable cause and effect programming either local to the panel or network wide and also between our FireClass64 and 32 range of panels.

This panel is ideally suited to installations which require powerful and comprehensive sounder and control/shutdown functions or can be used as a standalone system for monitoring site wide inputs or outputs.

The panel is programmed to operate to specific site requirements by means of a powerful yet easy to use software tool which can be programmed at a basic level at the panel or with our FireClass software editor.

General Features



- 250 addresses available on panel.
- 640 Character Display.
- Permanently character display system status.
- 32 Zonal LED's.
- Displays temperature, CO level and smoke level of each detector.
- 3000 event log.
- Special Cause/Effect programming.
- Manual and Automatic walk test and reporting functions.
- Automatic battery test.
- Detector service functions.
- Front panel controls enabling text and configuration changes.
- Up to 24 panels networkable.
- Choice of five fully functional repeaters with a maximum capacity of seven per panel.
- Standard integration protocols available (BACnet).

Product Order Codes

- 557.200.701.IT** FC32 Single Loop 32 zone panel Italian
557.200.701.SP FC32 Single Loop 32 zone panel Spanish

FireClass 64 Two or Four Loop Addressable Panel



General Information

The FireClass 64 digital addressable panel has been designed to work with FireClass protocol devices. The panel is powerful, user friendly and designed and manufactured to a high standard and certified to CPD and EN54, Parts 2 & 4. The panel operation provides considerable processing ability enabling highly definable cause and effect programming either local to the panel or network wide and also between our FireClass32 and 64 range of panels.

This panel is ideally suited to installations which require powerful and comprehensive sounder and control/shutdown functions or can be used as a standalone system for monitoring site wide inputs or outputs. The panel is programmed to operate to specific site requirements by means of a powerful yet easy to use software tool which can be programmed at a basic level at the panel or with our FireClass software editor.



General Features

- Up to 1000 addresses available on panel
- 640 character display
- Permanently displays system status
- 64 Zonal LED's
- Displays temperature, CO level and smoke level at point in alarm
- 3000 event log
- Special Cause/Effect programming
- Manual and Automatic walk test and reporting functions
- Automatic battery test
- Detector service functions
- Front panel controls enabling text and configuration changes
- Up to 24 panels networkable
- Choice of up to 5 fully functional Repeaters with a maximum of 7 per panel
- Standard integration protocols available (BACnet)

Product Order Codes

557.200.702.IT	FireClass 64—2 Two Loop 64 Zone Panel Italian	557.200.707.SP	FireClass 64RA Repeater Panel 64 Zone 230Vac Spanish
557.200.703.IT	FireClass 64—4 Four Loop 64 Zone Panel Italian	557.200.710.IT	FireClass 64RD Repeater Panel 64 Zone 24Vdc Italian
557.200.702.SP	FireClass 64—2 Two Loop 64 Zone Panel Spanish	557.200.710.SP	FireClass 64RD Repeater Panel 64 Zone 24Vdc Spanish
557.200.703.SP	FireClass 64—4 Four Loop 64 Zone Panel Spanish		
557.200.707.IT	FireClass 64RA Repeater Panel 64 Zone 230Vac Italian		



FireClass 240 Two or Four Loop

FireClass 240 Two or Four Loop Addressable Panel



General Information

The FireClass 240 digital addressable panel has been designed to work with FireClass protocol devices. The panel is powerful, user friendly and designed and manufactured to a high standard and certified to CPD and EN54, Parts 2 & 4. The panel operation provides considerable processing ability enabling highly definable cause and effect programming either local to the panel or network wide and also between our FireClass32 and 64 range of panels.

This panel is ideally suited to installations which require powerful and comprehensive sounder and control/shutdown functions or can be used as a standalone system for monitoring site wide inputs or outputs. The panel is programmed to operate to specific site requirements by means of a powerful yet easy to use software tool which can be at a basic level at the panel or with our FireClass software editor.



General Features

- 1000 addresses available on panel.
- 640 character display.
- Permanently displays system status.
- Displays temperature, CO level and smoke level of each detector.
- 3000 event log.
- Special Cause/Effect programming.
- Manual and Automatic walk test and reporting functions.
- Automatic battery test.
- Detector service functions.
- Front panel controls enabling text and configuration changes.
- Up to 24 panels networkable.
- Up to 7 fully functional repeaters available.
- Standard integration protocols available (BACnet).

Product Order Codes

- 557.200.704.IT** FireClass 240—2 Two Loop 240 Zone Panel Italian
- 557.200.705.IT** FireClass 240—4 Four Loop 240 Zone Panel Italian
- 557.200.704.SP** FireClass 240—2 Two Loop 240 Zone Panel Spanish
- 557.200.705.SP** FireClass 240—4 Four Loop 240 Zone Panel Spanish

Addressable AC Repeaters



General Information

The FireClass range of repeaters are designed for use with the FireClass 32, 64 and 240 panel ranges.

There is a dedicated AC model available for the FireClass 32 panel and both AC and DC versions available for the FireClass 64 and FireClass 240 systems.

The DC repeater is supplied in a compact and stylish housing ideal for use where space is limited or aesthetics are important.

The repeater has an identical backlit LCD display as per the main panel and complements the system by offering full user control.

Up to 7 repeaters can be connected to the repeater terminals via the remote bus.

Product Order Codes

557.200.706.IT	FireClass 32RA Repeater Panel 32 Zone 230V Italian
557.200.706.SP	FireClass 32RA Repeater Panel 32 Zone 230V Spanish
557.200.708.IT	FireClass 240RA Repeater Panel 230Vac - No Zonal LED Display Italian
557.200.708.SP	FireClass 240RA Repeater Panel 230Vac - No Zonal LED Display Spanish
557.200.711.IT	FireClass 240RD Repeater Panel 24Vdc - No Zonal LED Display Italian
557.200.711.SP	FireClass 240RD Repeater Panel 24Vdc - No Zonal LED Display Spanish



FireClass 700 Two or Four Loop

FireClass FC702 Addressable Panel



General Information

The two loop addressable panel from FireClass is a highly featured digital addressable fire alarm system with an advanced TFT colour touch-screen user interface that is ergonomically engineered specifically for fire alarm control. Operation of the touch screen is possible with or without gloves and provides easy-to-use, intuitive user controls including keyless log-on using RFID cards.

The FC702S is housed in a compact shallow enclosure whilst the FC702D has a deep housing to accommodate larger batteries for extended standby periods. Each panel can support 250 addresses in total and panels can be seamlessly networked together making it suitable for a range of applications.



General 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 tags
- Flexible single or dual hardware loop configurations
- Compact shallow housing or deep housing

Product Order Codes

557.200.949	FC702S - One HP or two SP Loop FireClass Panel shallow housing	557.200.961	FC-FI FireClass Field Interface
557.200.950	FC702D - One HP or two SP Loop FireClass Panel deep housing	557.200.962	FireClass RFID cards, 5 units
557.202.844	PNI800 - Network Interface slot card	557.200.963	FC-ANC-E Empty Ancillary Housing
557.202.081	FOM800 - Fibre optic module for use with PNI800	557.200.965	FC Language inserts Dutch, 4pcs
557.200.954	FC1DS Fully Functional Repeater	557.200.966	FC Language inserts Turkish, 4pcs
557.200.955	FC1D2 Display Only Repeater	557.200.967	FC Inserts with Icons, 4pcs
557.200.957	FCZ4DS FireClass40ZoneDisplay	557.200.971	FireClass Zonal Display Inserts
557.200.958	FCZ8DS FireClass80ZoneDisplay		
557.200.960	FC-ANC Ancillary Housing		

FireClass FC708 Addressable Panel



General Information

The eight loop addressable panel from FireClass is a highly featured digital addressable fire alarm system with an advanced TFT colour touch-screen user interface that is ergonomically engineered specifically for fire alarm control. Operation of the touch screen is possible with or without gloves and provides easy-to-use, intuitive user controls including keyless log-on using RFID cards.

FC708D & FC718D fire alarm panels can each support 1000 addresses in total and panels can be seamlessly networked together making it 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.



General 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 tags
- Flexible single or dual hardware loop configurations
- Compact shallow housing or deep housing

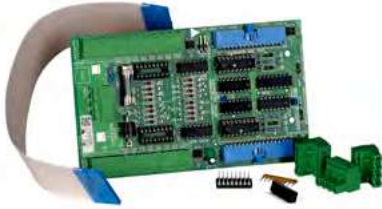
Product Order Codes

557.200.951	FC708D - Two HP or four SP loop, expandable to eight loop, FireClass Panel	557.200.961	FC-FI FireClass Field Interface
557.200.952	FC718D - Two HP or four SP loop, expandable to eight loop, FireClass Panel	557.200.962	FireClass RFID cards, 5 units
557.202.842	PLX800 - Two HP or four SP loop expansion slot card	557.200.963	FC-ANC-E Empty Ancillary Housing
557.202.844	PNI800 - Network Interface slot card	557.200.965	FC Language inserts Dutch, 4pcs
557.202.081	FOM800 - Fibre optic module for use with PNI800	557.200.966	FC Language inserts Turkish, 4pcs
557.200.954	FC1DS Fully Functional Repeater	557.200.967	FC Inserts with Icons, 4pcs
557.200.955	FC1D2 Display Only Repeater	557.200.971	FireClass Zonal Display Inserts
557.200.957	FCZ4DS FireClass40ZoneDisplay		
557.200.958	FCZ8DS FireClass80ZoneDisplay		
557.200.960	FC-ANC Ancillary Housing		



Panel Accessories

16 Way Universal I/O Expansion Board



The XIOM is a 16 way universal input/output expansion board. The I/O on the XIOM can be set in banks of 8 to operate as follows:

General Features

- LED driver outputs (10mA source).
- Relay Driver Outputs (100mA sink).
- Voltage Monitor Input (8 • 30VdcNormal).
- Volt Free Contact inputs.

Product Order Codes

557.180.016 XIOM

Input/Output Expansion Board



The IOB800 input/output expansion module is an LPCB approved board that provides 8 opto isolated digital inputs and 8 x 24Vdc relay outputs for providing I/O expansion capabilities to the FireClass control panels for interfacing to other fire protection systems and signalling devices. The IOB800 can be driven from either the control panel or from the remote bus.

Product Order Codes

557.202.006 IOB800

Loop Expansion module



The XLM800 Loop Expansion module is used to provide an additional two loops for the FC64 and FC240 addressable control panels, enabling the panels to support a maximum of 4 loops, each with up to 250 addresses. These units are fitted as standard to the FC64-4 and FC240-4 panels.

Product Order Codes

557.202.007 XLM800

Multi Purpose Interface Module

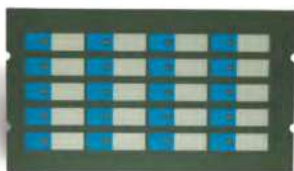


The MPM800 is used to provide various expansion capabilities via the remote bus (RBUS).

Product Order Codes

557.202.012 MPM800

20 Way Status Command Module



The COM820 status command module provides 20 programmable inputs and 20 programmable outputs. Each function includes a command button and yellow status LED with removable legends.

The functionality is programmed in the FireClass control panel with the typical applications being:

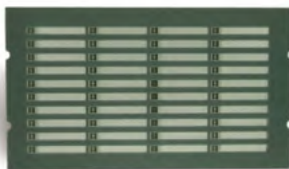
- Manual/off/auto/isolate functions for evacuation or plant control.
- Selective isolate and evacuate functions for fireman's control.
- Selective plant shutdown and override functions.
- Selective system delay and timer functions.

The COM820 can be driven from either the control panel or from the remote bus.

Product Order Codes

557.202.020 COM820

40 Way Fire/Fault LED Zone Indicator



The ANN840 LED annunciation module, provides 40 dual LED indications (red/yellow) that can be programmed to signal alarm and fault states. A slide in/out legend allows the user to customise the indicator labels.

The ANN840 can be driven from either the control panel or from the remote bus.

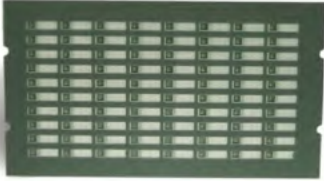
Product Order Codes

557.202.021 ANN840



Panel Accessories

80 Way fire LED Zone Indicator



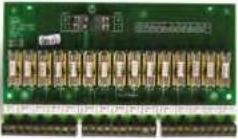
The ANN80 LED annunciation module provides 80 red LED indications that can be programmed to signal various states.

The ANN80 can be driven from either the control panel or from the remote bus.

Product Order Codes

557.202.022 ANN80

Fuse Board



The FB800 fuse board provides terminations for 15 fused 500mA 24Vd output spurs from a single 24Vdc input.

Product Order Codes

557.202.100 FB800

BACnet Interface



BACnet can be provided from a stand-alone FireClass panel or from an FireClass network via the BACnet converter.

The BACnet converter is a mini RISC-based embedded computer which converts fire data to the BACnet communications protocol. The converter needs special firmware that is simply uploaded from a PC.

Product Order Codes

557.202.082 BACnet UC-8112-ME-T-LX

557.202.083 RJ12 PVC Cable Male-Male 3M

Network Card EN54 Approved

Network Interface Module



The use of the FireClass Network allows the fragmentation of a number of fire controllers to be drawn into a network system.

The FireClass 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 FireClass Digital addressable fire systems controllers.

Product Order Codes

557.202.080 TLI800EN



Network Interface Module with PSU



Product image pictures
TLI800EN without PSU

The use of the FireClass Network allows the fragmentation of a number of fire controllers to be drawn into a network system.

The FireClass 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 FireClass Digital addressable fire systems controllers.

Provided boxed complete with PSU.

Product Order Codes

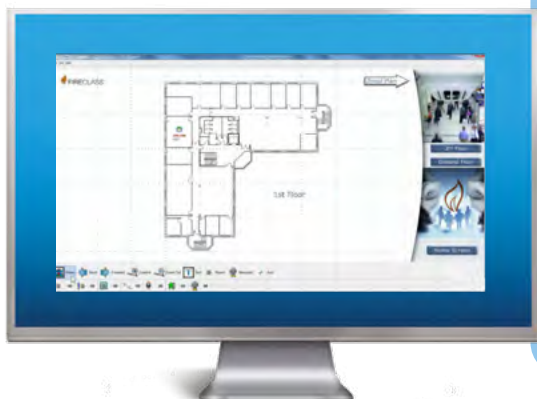
557.200.039 TLI800EN with PSU



Graphics Software



FireClass Graphics Software



General Information

FireClass Graphics is a new client/server emergency management system and fire detection graphical user interface designed for use with the FC32, 64 and 240 control panels.

FireClass Graphics is a Windows-based graphical interface with a high resolution colour display and provides annunciation and status of the complete FireClass detection system using the latest FireClass digital technology and helps monitor and manage an emergency in the event a fire is detected.

General Features

- Real Time visualization of control panel, loop and zone status
- Multi-level maps based on tree structure
- Access device data from any page of the map
- Supports standard PC image file (i.e. gif, jpg, bmp)



Panels License Including Dongle, Software, TLI800EN and PSU



These pieces of fire detection equipment from FireClass come with the FireClass Graphics fire management software which is compatible for between one and four fire alarm panels, the network card TLI800EN, which links all fire controllers together and a power supply unit.

Product Order Codes

508.070.001	FCG Soft. Licence-1 Panel
508.070.002	FCG Soft. Licence 2-4 Panel
508.070.003	FCG Soft. Licence 5-10 Panel
508.070.004	FCG Soft. Licence 11-24 Panel
508.070.005	FCG Additional Client licence
557.202.721	FCG-001
557.202.722	FCG-002
557.202.723	FCG-003
557.202.724	FCG-004
557.202.725	FCG-005

Panel Bezels and Spares



Product Order Codes

557.200.752	Semi Flush Bezel Stainless Steel 480x410mm, FC64-4, FC240-4
557.200.753	Semi Flush Bezel Stainless Steel 370x254mm, FC64RD, FC240RD
557.200.754	Fully Flush Bezel Stainless Steel 370x325mm, FC32, FC32RA
557.200.755	Fully Flush Bezel Stainless Steel 480x410mm, FC64-2, FC240-2, FC64RA, FC240RA
557.200.756	Fully Flush Bezel Stainless Steel 370x254mm, FC64RD, FC240RD
557.202.000	Motherboard for Fireclass FC32 panel
557.202.001	Motherboard for Fireclass FC64 and FC240 panel
508.032.718	Display board FC32 panel and repeater
508.032.719	Display board FC64 panels and repeaters
508.032.720	Display board FC240 panel and repeater
2000682	Lock and barrel for FC addressable panels
2000857	Bag with installation accessories (Fixing Kit) for Fireclass FC32/64/240 panels ¹
2000859	Bag with installation accessories (Fixing Kit) Fireclass FC64 AC Repeater ²
2000955	Bag with installation accessories (Fixing Kit) Fireclass FC64 AC Repeater ³
557.202.611	PMM805, 5 V PSU [5V regulated supply - DC repeater]
557.202.612	PMM840, 40 V PSU [40V regulated loop supply – loop 3 and 4 expansion]
557.202.608	PMM800 Power Monitor Module
557.180.052	Serial printer driver kit
557.180.053	Isolated RS485 IC [for U16]
557.202.118	Download cable for FireClass panels and FireClass express

¹ 2000857 - Pack Includes:

10k Resistor 0.25 watt
 2k Resistor 0.25 watt
 2k7 Resistor 0.25w
 2 Way connector
 4 Way horizontal connector
 3 Way 90 deg plug-in sock
 Insulated jumper socket
 Red lead 180mm M6 ring term
 Black lead 350mm M6 ring term
 Blue lead 150mm M6 ring term
 Bentel 5 w t/BLK cover
 Hazard sym 12x12 black on YELL
 FireClass Quickstart Man ENG
 Cable ties 142x3.6
 FireClass range CD-ROM

² 2000859 - Pack Includes:

100 Ohm resistor 0.25 watt
 120 Ohm res 0.25 watt
 Red lead 180mm M6 ring term
 Black lead 350mm M6 ring term
 Blue lead 150mm M6 ring term
 Bentel 5 w t/BLK cover
 Hazard sym 12x12 black on YELL
 Cable ties 142x3.6
 FireClass range CD-ROM

³ 2000955 - Pack Includes:

120 Ohm res 0.25 watt
 Wrench & attachment to drg.
 FireClass range CD-ROM

Detectors



FC460 Series Detectors



General Information

The FC460 range of detectors use the FireClass digital protocol to provide robust and reliable communications to the control panel. A wide range of cable types can be used and the open topology capability of the system makes it ideal for the upgrade of older systems whilst reusing the cables to reduce cost.

FireClass FC460 detectors provide the best in class environmental and detection performance with the capability of detecting all fire types. The range includes an Optical/Heat Multisensor and Optical/Heat/CO Triple Multisensor.

Automatic self testing of each sensor element offers reassurance of operation at all times and the 360° alarm, isolated and fault LED on each detector provides instant line of sight. Fourteen EN54 approved modes/sensitivities for the Optical/Heat Multisensor help to provide one of the best and most versatile detectors on the market.

General Features

- Multiple fire detection modes.
- FireClass detection algorithms.
- CO fire detection technology.
- Up to 250 detectors per loop.
- Optional bi-directional line isolation.
- Remote detector verification & temperature read out.
- Highly featured service tool.
- Programmable alarm LED with 360° viewing angle.
- Optional detector locking pin.
- Variety of sounder and relay detector base.
- Internationally approved.
- Colour variant - RAL9016 Traffic White*



*RAL9016 Traffic White is the target colour. Shade may alter slightly moulding process.



Detectors

Combined Optical and Heat Detector



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.

Product Order Codes

516.460.501

FC460PH



Optical Detector



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

Product Order Codes

516.460.502

FC460P



Heat Detector



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

Product Order Codes

516.460.503

FC460H



Smoke, Heat and CO Detector



General Features

For life protection and when the environmental conditions are challenging, the multisensor smoke, heat and CO detector provides the ultimate in detector performance. It uses the three sensor elements in concert to accurately determine the presence of fire with false alarm rejection properties that make it the ideal choice for hotel bedrooms where steam from bathrooms is a common source of false alarms.

Product Order Codes

516.460.504 FC460PC



CO and Heat Detector



General Features

The FC400CH is designed to transmit digital signals representing the status of the carbon monoxide and heat elements of the detector. For use with the FireClass 500 panel.

Not compatible with FC32, FC64 and FC240.

Product Order Codes

516.800.701 FC400CH



Detector Bases



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.

General Features

- Aesthetically discreet.
- Superior performance and reliability.
- Designed for rapid installation.
- Remote LED connection.

Product Order Codes

517.050.041 4B



Isolator Base



The 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 FC460 series detectors and provides protection against short circuit faults on the digital addressable loop.

General Features

- Drives a remote indicator.
- Detector locking pin provided with every base.
- Snap fits to the Time Saver Ceiling Tile Adaptor.
- Temporary park position.

Product Order Codes

517.050.043 4B-I





Detector Bases

Deck Head Mounting



Where the detectors are mounted in humid and environmentally challenging situations 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. Can be screwed, bolted / welded to the deck head. Supplied with 1 terminal. If more are required, use the optional base accessory.

General Features

- 4 x 20mm gland entries.
- Fits ALL 5" bases.
- IP55 with supplied gasket.

Product Order Codes

517.050.051 4B-DHM



Euro Mount



The euro-mounting base provides a matching back box, which allows the 5" bases to be ceiling mounted with conduit entries for standard 18 and 21mm conduit.

General Features

- 2 x 18mm conduit entries.
- 2 x 21mm conduit entries.
- Fits all 4" bases.
- Accepts up to 8 accessory terminals.
- Base Accessory terminal kit (pack of 10) part number 517.050.612.

Product Order Codes

517.050.052 4B-EM



Remote Indicators



Remote Indicators

ADDRESSABLE

Remote Indicators

Remote LED Indicator



The 801RIL 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.

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.

Product Order Codes

516.800.908 801RIL

Remote LED Indicator



The 801HL 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.

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.

Product Order Codes

516.800.909 801HL

Ceiling Tile Adapter Kit



The Time Saver Ceiling Tile Adaptor is used with the 4B 4" detector base 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. Requires a 127mm diameter hole. The CTA adaptor plate allows this to be used with other devices such as the FC430SB.

General Features

- Cuts installation time by 30%.
- Commission the system before the suspended ceiling is installed.
- Suitable for ceiling tiles from 1mm.
- Made from flame retardant material.
- No additional back-box is required.
- Time saver is designed for use with a new snap-fit 4" detector base
- Adaptor available for use with the AV base & other devices.

Product Order Codes

517.050.056	CTA-BB CTA Back Box
517.050.057	CTA-BC CTA Bezel and Clamp
517.050.060	CTA Kit*

* Kit part contains SKU 056 and 057



CTA-AP CTA Adaptor Plate



General Features

The CTA adaptor plate allows the Ceiling Tile Adaptor to be used with other devices.

Product Order Codes

517.050.058	CTA-AP CTA Adaptor Plate
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Callpoints



Addressable CallPoint with Isolator



General Information

A comprehensive range of call points for use with FireClass addressable systems, using the robust and reliable FireClass open protocol. All the callpoints are designed to enable an alarm signal to be given by a plastic resettable element, which means that the call point can be easily reset after it has been activated. Any change in the status of the switch is immediately communicated to the FireClass Control and Indicating Equipment (CIE). All call points have an integral short-circuit isolator for monitoring the addressable loop wiring.

The integral LED indicator is normally off. When the frangible element is broken, an alarm is registered and the LED will illuminate red. If a section of the loop wiring adjacent to the call point is shorted, the built-in short-circuit isolator trips, isolating the shorted section and the LED is illuminated yellow. The status remains until the short is removed. If required, an optional transparent hinged cover may be installed to guard against accidental operation. Both indoor and outdoor versions are available.

General Features

- Integral short circuit isolator.
- Dual colour LED indication.
- EN54-11 certification.
- Compact, modern styling.
- Test key for fast testing.
- IP67 ingress protection models for external applications.

Addressable Indoor Callpoint with Isolator



FC420CP-I Addressable Indoor Callpoint is designed to monitor and signal the condition of a switch contact that is operated by activating the deformable plastic element. A short circuit isolator is embedded.

Product Order Codes

514.800.805 **FC420CP-I Indoor Callpoint with isolator - no Back Box**

Callpoints

Addressable Outdoor Callpoint with Isolator



FC421CP-I Addressable Break Glass Callpoint is designed to monitor and signal the condition of a switch contact that is operated by activating the deformable plastic element. The FC421CP-I is fitted into a standard weatherproof callpoint housing. IP67 protection degree.

A short circuit isolator is embedded.

Product Order Codes

514.800.806

FC421CP-I Outdoor Callpoint with Isolator



Mount Back Box



Mount Back Box for FC420CP-I with terminals.

Product Order Codes

10-115

FC420CPB

Standard Back box for Manual Call Point



Standard red surface mounting Back Box for FC420CP-I.

Product Order Codes

515.001.021

Standard Back box for manual call point

Spare Glasses for Manual Call Point (Pack of 5)

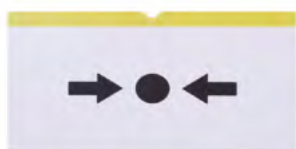


EN54 Part 11 Spare Glass for MCP and CP series Callpoints (Pack of 5).

Product Order Codes

515.001.119 Spare Glasses for Manual Call Point

Deformable FC400 MCP Element



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

Product Order Codes

515.001.127 Deformable FC400 MCP element

Manual Call Point Plastic Hinged Cover



Callpoint hinged cover for use with MCP call points models (Colour -Clear).

Product Order Codes

515.001.128 Plastic Hinged Cover

Spare Manual Call Point Keys (Pack of 10)



Test key for all MCP and CP style call points.

Product Order Codes

515.001.045 Spare Manual Call Point Keys

Addressable Fire Alarm Device Series



Addressable Fire Alarm Device Series VADs



General Information

The FC440AV 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.

General features

- Compact and unobtrusive sounder solution
- Reflective Sound Monitoring (RSM)
- Reflective Light Monitoring (RLM)
- 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.
- 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

Notes:

Loop quantities should be verified with the loop calculator available in the FireClass Console and FireClass Designer software. For more information on the coverage volume please download our brochure and application guide at www.fireclass.co.uk

(*) Products not compatible with FC510/FC520 panels

(**) Self-test available only for FC32/64/240

Addressable Fire Alarm Device Series

Addressable Wall Sounder Visual Alarm Device



The FC440AVW is a white indoor loop powered addressable sounder and visual alarm device of the wall category.

Product Order Code

576.440.007(*)

FC440AVW Addressable Wall Sounder VAD White

Addressable Wall Sounder Visual Alarm Device



The FC440AVR is a red indoor loop powered addressable sounder and visual alarm device of the wall category.

Product Order Code

576.440.008(*)

FC440AVR Addressable Wall Sounder VAD Red

Addressable Wall Sounder Visual Alarm Device IP



The FC445AVR 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).

Product Order Code

576.440.009(*)

FC445AVR Addressable Wall Sounder VAD IP Red

Addressable wall sounders



General Information

The FC440S 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.

General features

- A compact and unobtrusive sounder solution
- Reflective Sound Monitoring (RSM)
- 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

Notes:

Loop quantities should be verified with the loop calculator available in the FireClass Console and FireClass Designer software. For more information on the coverage volume please download our brochure and application guide at www.fireclass.co.uk

(*) Products not compatible with FC510/FC520 panels

(**) Self-test available only for FC32/64/240

Addressable Fire Alarm Device Series

Addressable Wall Sounder White



The FC440SW is a white indoor loop powered addressable sounder of the wall category.

Product Order Code

576.440.003 FC440SW Addressable Wall Sounder White

Addressable Wall Sounder Red



The FC440SR is a red, indoor, loop powered, addressable wall sounder.

Product Order Code

576.440.004 FC440SR Addressable Wall Sounder Red

Addressable Wall Sounder IP



The FC445SR is a red, outdoor, loop powered, addressable wall sounder. This IP rated version is suitable either outdoor or harsh environment applications.

Product Order Code

576.440.005 FC445SR Addressable Wall Sounder IP

Addressable sounder VAD bases



General Information

The FC440AVB and FC441AVB are addressable sounder bases with a visual alarm device specifically for use with the FireClass addressable detectors. The bases are available as fire alarm sounders with visual alarm device (VAD) 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 digital loop. This helps to reduce installation costs as no additional wiring is required.

General 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)
- 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

Notes:

Loop quantities should be verified with the loop calculator available in the FireClass Console and FireClass Designer software. For more information on the coverage volume please download our brochure and application guide at www.fireclass.co.uk

(*) Products not compatible with FC510/FC520 panels

(**) Self-test available only for FC32/64/240

Addressable Fire Alarm Device Series

Addressable sounder Visual Alarm Bases



The FC440AVB and FC441AVB are addressable sounder bases with a visual alarm device specifically for use with the FireClass addressable detectors.

Product Order Codes

576.440.006 FC440AVB Addressable Base Sounder VAD Standard Power
576.440.014 FC441AVB Addressable Base Sounder VAD High Power

Addressable sounder base and addressable sounder VID base



General Information

The FC440SB is an addressable sounder base specifically for use with the FireClass 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 digital loop. This helps to reduce installation costs as no additional wiring is required. Additionally, the FC440AIB houses an addressable LED beacon to provide a visual indicator otherwise known as a VID.

General 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
- 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

Addressable Sounder Base



The FC440SB is an addressable sounder base specifically for use with the FireClass addressable detectors.

Product Order Code

576.440.002 FC440SB Addressable Base Sounder

Addressable Sounder Base VID



The FC440AIB is an addressable sounder base that houses an addressable LED beacon to provide a visual indicator otherwise known as a VID.

Product Order Code

576.440.010 FC440AIB Addressable Base Sounder VID

VID and VAD 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
557.080.007	S-BOXR Shallow Surface Back Box for Indoor Wall Sounder/VAD/VID Red
557.080.008	S-BOXW Shallow Surface Back Box for Indoor Wall Sounder/VAD/VID White
557.080.010	A-BOX Flush Back Box Adaptor for Indoor Wall Sounder/VAD/VID
557.080.011	D-BOXR Deep Surface Back Box for Indoor Wall Sounder/VAD/VID Red
557.080.012	D-BOXW Deep Surface Back Box for Indoor Wall Sounder/VAD/VID White

Notes:

Loop quantities should be verified with the loop calculator available in the FireClass Console and FireClass Designer software.
For more information on the coverage volume please download our brochure and application guide at www.fireclass.co.uk
(*) Products not compatible with FC510/FC520 panels
(**) Self-test available only for FC32/64/240

Addressable Fire Alarm Device Series

Detector activated sounder base



General Information

The FC440DSB is a detector base specifically for use with the FireClass addressable detectors. The base incorporates a fire alarm sounder that is activated directly by the detector.

General features

- A compact and discrete solution
- One point of installation for detector and sounder with no additional wiring
- Low power with up to 250 sounders on a single loop. Provides uncompromised system design solutions
- Simple to select the tone and volume using switches. No special training or tools needed
- 9 selectable tones
- 4 selectable volumes
- A locking pin supplied with the base which prevents the unauthorized removal of the detector
- Replaces FC430SB and it is compatible with FireClass addressable detectors



Product Order Codes

576.440.001 FC440DSB FireClass Detector Base Sounder

Addressable wall sounder VAD and sounder VAD base



General Information

Those two models are equivalent respectively of FC445AVR and FC440AVB but they are compatible with FC510 and FC520 panels and should be used only with those panels. The panel display will show device type of the previous FC410LPBS and FC430LPBSB.

General features

- A compact and unobtrusive sounder solution
- Shorter Light Pulse for faster response
- FC445CAV is outdoor versions with 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 for FC445CAV
- 15 selectable tones for FC440AVB
- Realistic Conventional Bell Tone
- 2 selectable volumes for FC445CAV
- 4 selectable volumes for FC440CAVB
- 2 selectable flash rates
- Select the tone volume and flash rate using panel configuration software



Product Order Codes

- | | |
|--------------------|--|
| 576.440.016 | FC440CAVB FireClass Addressable Base Sounder Beacon VAD BC |
| 576.440.017 | FC445CAV FireClass Addressable Wall Sounder Beacon VAD BC |

Notes:

Loop quantities should be verified with the loop calculator available in the FireClass Console and FireClass Designer software.
For more information on the coverage volume please download our brochure and application guide at www.fireclass.co.uk
(* Products not compatible with FC510/FC520 panels
(**) Self-test available only for FC32/64/240

Loop modules



Mini Input Module



The FC410MIM Mini Input module is designed to monitor fire contacts, such as extinguishing system control, ventilation control, fire door control etc. The module provides one identifiable detection spur which is capable of monitoring multiple normally open contacts or a single normally closed contact.

The FC410MIM can be mounted in any electrical enclosure with sufficient depth to accommodate FC410MIM and the contacts monitored by the IN+ and IN- terminals, ie, no field wiring. The remote LED (if required, not supplied) must be located within the same electrical enclosure.

Product Order Codes

555.800.701 FC410MIM

Contact Input Module



The FC410CIM Addressable Contact Input Module is designed to monitor fire contacts such as extinguishing system control, ventilation control, fire door control etc. The FC410CIM can be configured as:

Two spur circuits monitoring multiple normally open contacts, with short circuit giving a fault output.

Two spur circuits monitoring single normally closed contacts, with short circuit giving a fault output.

Product Order Codes

555.800.702 FC410CIM

Gas & Detection Module Indoor



The FC410DDM provides the ability to connect and interface 2 conventional zones, to the FireClass fire alarm controller.

The FC410DDM monitors the status of the detectors and the wiring to the detectors and signals detector and wiring status back to the controller.

The conventional detector circuits can be configured as one Class A circuit (loop) or two Class B spur circuits. The FC410DDM can be either loop powered or driven from a local 24Vdc supply.

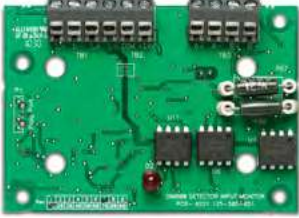
It also provides the ability to connect 2 gas detectors (supported by FC500 series panels only).

Product Order Codes

577.800.706 FC410DDM

Loop modules

Detector Input Module



The Addressable FC410DIM provides the ability to connect and Interface one zone of conventional detectors (non-addressable) to the Fire Alarm Controller. The FC410DIM monitors the status of detectors and wiring to detectors and signals detector and wiring status back to the Controller. The FC410DIM requires a 24Vdc power supply.

Product Order Codes

555.800.712 FC410DIM

Beam Detector Interface Module



The FC410BDM Beam Detector Interface Module is designed to power and interface one FIRERAY 50/100/3000/5000 Beam Detector to the FireClass Digital Addressable Loop.

The FC410BDM monitors the Fire and Fault contacts and also monitors for open and short circuits on the connections between the interface and the beam detector. For remote siting of the FIRERAY detector an optional BTM800 Terminal Module can be used.

Product Order Codes

555.800.766 FC410BDM



Beam Detector Module



In many cases it will be necessary to site the FC410BDM Beam Detector Module some distance from the beam detector itself. To minimize and simplify wiring in such cases an optional unit, the BTM800 beam termination module is available.

The BTM800 is also housed in a standard double gang ancillary cover and has all the connections and components required to minimize installation time.

Product Order Codes

555.800.067 BTM800



Relay Interface Module



The FC410RIM Relay Interface Module provides one volt-free relay changeover contact on a latching relay. The relay is controlled by a command sent from the FireClass fire controller via the addressable loop.

The relay state (activated, deactivated or stuck) is returned to the controller as confirmation.

Product Order Codes

568.800.703 FC410RIM

Sounder Notification Module



The FC410SNM Sounder Notification Module is designed to provide an output, in response to a command signaled from a controller, to activate a number of polarized and suppressed sounders. The sounders are powered from an independent power supply and the module is capable of passing up to a maximum of 2A (e.g., 24V dc 50mA company sounders or a mixture of different current rated sounders not exceeding a maximum current of 2A).

Product Order Codes

577.800.705 FC410SNM

Sounder Booster Module



The SB520 sounder booster module enables the FC410SNM to drive circuits with higher currents whilst maintaining the reverse polarity integrity line monitoring. It is non-addressable and requires a local 24 V DC supply to drive a single circuit of polarized and suppressed sounders.

Product Order Codes

577.001.023 SB520

Loop Modules

High Voltage Relay Interface



The HVR800 High Voltage Relay Interface is a non-addressable multi-voltage relay module (operating from 24V DC, 24V AC, 120V AC and 240V AC). The encapsulated HVR800 provides a 10 amp volt-free contact that can be used to extend the contact ratings of FC410RIM Addressable Relay Module applications.

A maximum of four HVR800s can be individually driven and controlled by an FC410MIO Small Addressable Multi-Input/Output module if all HVR800s are powered by 120V AC or 240V AC. For ac operation, no external DC power supply unit is required to operate the relay. When used to switch 24V DC, the HVR800 must be provided with an external 24V DC supply which should be switched through the clean relay contacts of an FC410MIO or FC410RIM.

Product Order Codes

568.800.004	HVR800
568.800.034	HVR800 in isolated D800 housing

Single Input/Output Module



The FC410SIO Single Input/Output Module is designed to provide a monitored open collector input and a volt free relay changeover output. FC410SIO can switch up to 2 A @ 24 VDC.

Product Order Codes

555.800.763	FC410SIO
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Multi I/O Module



The FC410MIO Multi I/O Module has three inputs and two outputs from latching relays. The inputs can monitor fire contacts such as extinguishing system control, ventilation control, fire door control etc. The two relays outputs provide volt-free relay changeover contacts.

Product Order Codes

555.800.765	FC410MIO
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Quad Monitored Output Module



The FC410QMO comprises of four monitored relay outputs that are suitable for 24Vdc sounders. The outputs are monitored for short and open circuit faults.

Product Order Codes

555.800.770 FC410QMO

Quad Input/Output Module



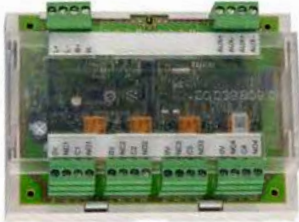
The FC410QIO Quad Input/Output Module is designed to provide four monitored digital inputs and four potential free relay changeover outputs. The outputs can be connected to an Auxiliary Voltage source and its voltage can be monitored. The FC410QIO has an integral FireClass loop isolator. When a section of the loop adjacent is shorted, the isolator trips, isolating the shorted section, then the yellow LED illuminates. This status remains until the short is removed. The FC410QIO must be fitted in a control enclosure or any distributor enclosure. The FC410QIO will be preferably mounted via a DIN rail. Alternatively, it can be directly fixed on the rear side of the enclosure. The digital input monitoring and isolator functions are both configurable. Furthermore, all outputs can be connected to the HVR800 which allows switching to high power galvanic isolated loads.

Product Order Codes

555.800.771 FC410QIO

Ancillary Loop Modules Housing

Quad Relay Module



The FC410QRM Quad Relay Module is designed to provide 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. The FC410QRM has an integral FireClass loop isolator. When a section of the loop adjacent is shorted, the isolator trips, isolating the shorted section, and illuminating a yellow LED. This status remains until the short is removed.

The FC410QRM must be fitted in a control enclosure or any distributor enclosure. The FC410QRM will preferably be mounted via a DIN rail. Alternatively, it can be directly fixed on the rear side of the enclosure. Furthermore, all outputs are configurable to the HVR - mode (High Voltage Relay), which allows connection of up to four HVR800 modules for switching e.g. 240V loads galvanic isolated.

Product Order Codes

555.800.773 FC410QRM

Line Isolator Module



The FC410LI Line Isolator Module is designed to be used on the FireClass addressable controller loop. It monitors the line condition and when detecting a short circuit will isolate the affected section whilst allowing the rest of the loop to function normally. The purpose of the FC410LI Line Isolator Module is to ensure that, on a looped addressable system, no short circuit fault can disable more detection devices than would be lost on a conventional non-addressable fire circuit.

Product Order Codes

545.800.704 FC410LI

Door Control Module



When activated, either by a fire signal or by a fault or isolation within the fire door zone, the FC410TSM 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.

Product Order Codes

555.800.769 FC410TSM

FireClass Housings





FireClass Housings

FireClass Housings



FireClass ANC Ancillary Housing are metal enclosures that can fit FireClass addressable panel expansions and loop ancillary modules. They are available in different sizes, with blank doors and with one or two cutouts.

Product Order Codes

557.202.701	FireClass ANC 1 Ancillary / Document Housing [Blank door]
557.202.702	FireClass ANC 2 Ancillary / Document Housing [Blank door]
557.202.703	FireClass ANC 3 Ancillary / Document Housing [Blank door]
557.202.704	FireClass ANC1-D Ancillary / Document Housing [1 x cut out door]
557.202.705	FireClass ANC 2 -D Ancillary / Document Housing [2 x cut out door]
557.202.706	FireClass ANC 3 -D Ancillary / Document Housing [2 x cut out door]

IP66 Enclosure with DIN Rail for QUAD Modules



A polystyrene/polycarbonate IP66 rated housing prefitted with a DIN rail for mounting either 1 x Quad Input/Output Module (FC410QIO), or 1 x Quad Monitored Output Module (FC410QMO) or 1 x Quad Relay Output Module (FC410QRM) complete with a transparent front cover.

Product Order Codes

557.201.410	IP66 Enclosure with DIN Rail for QUAD Modules
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Ancillary Module Housing



FC470MDGB IP65 ancillary housing 140W x 120H x 70D mm incorporates window to view module LED.

Product Order Codes

557.201.401	FC470MDGB IP65
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Ancillary Loop Modules Housing

Ancillary Cover for Use with Modules



Ancillary cover for use with FC410 series modules. Will fit onto a MK style double gang back box.

Product Order Codes

517.035.007 FC470CV

White D/Gang B/Box

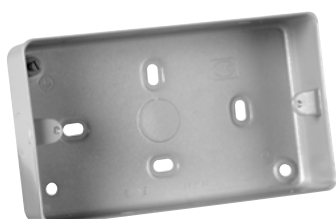


FC470DGB White plastic surface mount MK backbox for use with 800 Series addressable ancillaries using 517.035.007 cover.

Product Order Codes

517.035.010 FC470DGB

B Metal D/Gang B/Box



FC470MDGB Metal surface mount MK backbox for use with FC410 Series addressable ancillaries using 517.035.007 cover.

Product Order Codes

517.035.011 FC470MDGB

Ancillary Loop Modules Housing

Dry Line B/Box



FC470DLB Dry lining flush mount (for plasterboard etc) MK backbox for use with FC410 Series addressable ancillaries using 517.035.007 cover.

Product Order Codes

517.035.015 FC470DLB

DIN Rail Mounting Kit for FC410MIO



Used to mount a FC410MIO module on a DIN rail.

Product Order Codes

557.201.303 DIN Rail Mounting Kit

Steel D/Gang B/Box



FC470FMB steel flush mount MK backbox for use with FC410 Series addressable ancillaries using 517.035.007 cover.

Product Order Codes

517.035.014 FC470FMB

Loop modules

DIN Rail Mounting Bracket



DIN rail mounting bracket enables any module which can be mounted to a FC470CV ancillary cover to be DIN rail mounted using this bracket.

Clip-on PCB mounting pillars are included. Will fit standard 35 mm DIN Rail bracket.

Product Order Codes

547.004.002 DIN Rail Bracket to Mount Ancillary Modules to 35mm DIN Rail.

490ST Service and Programming Tool



Service and Programming Tool



General Information

The FireClass Addressable Ancillary Smoke Detector Programmer Address Loop Service Tool FC490ST is a powerful and flexible loop service tool for assistance in smoke detector and ancillaries' installation, commissioning, diagnostics and service of FireClass fire detection systems.

The addressable detector programming tool allows all the addressable smoke detector and ancillaries to be interrogated, tested and programmed. Suitable for desktop or single handed operation the FireClass Addressable Service Tool FC490ST tool is battery operated using standard rechargeable batteries.

General Features

- Read/Write the detector/ancillary address.
- Display temperature/CO levels and smoke obscuration.
- Programming of the LED.
- Testing the detector remote LED and control outputs.
- Perform the detector self verification test function.
- Display detector contamination level.
- Controlling ancillary outputs.
- Reading ancillary status.
- Power management options.

Product Order Codes

516.460.490	Hand held Service and Programming Tool
517.050.015	Volume Adjustment Tool
516.800.922	Auxiliary programming cable FC490ST
516.800.923	Service accessory kit – FC branded.
516.800.924	Spare pin for FC490ST programming cable (10 pcs)

Air Sampling Unit and Accessories



Air Sampling Unit



General Information

The ICAM 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 detectors in office environments.

The ICAM system actively draws air from the protected area through sampling holes in a pipe network. Sampled air is then filtered before being analyzed by up to two FC460 Series detectors.

The ICAM system is available in two configurations:
IAS460 twin inlet pipe configuration, which can be fitted with two detectors for monitoring one or two pipe runs.

IAS461 single inlet pipe configuration, which can be fitted with one detector.
The system utilizes 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.

General Features

- Ideal for areas where access is restricted, harsh environments and areas where a point detector would be damaged.
- Powerful fan.
- Up to two 100m pipe runs available.
- Pipes can be individually monitored for air flow with LED bar graph.
- FireClass loop and 24Vdc connections.
- Fault monitored via the FireClass loop.
- IP65 enclosure.
- Field serviceable air filters.
- Uses standard 25mm VESDA pipe and fittings.

Note: Detector not included.

Product Order Codes

- 516.016.402** ICAM IAS460 Aspirated Smoke Dual
Detector common fault monitor
- 516.016.401** ICAM IAS461 Aspirated Smoke Single Detector common fault monitor
- 516.016.303** ICAM Course Filter (Per Pack of 10)

Air Sampling Unit and Accessories

VESDA LaserFOCUS Smoke Detector VLF-250 and VLF-500



General Information

The VESDA VLF-250 incorporates VESDA early warning laser based aspirated smoke detection technology. It provides localized fire risk management solutions for small, critical environments. The VESDA LaserFOCUS VLF-250 monitors areas up to 250 m² (2500 sq. ft.) dependant on local codes and standards.

The VESDA VLF-500 detector is a very early warning smoke detector designed to protect small, business-critical environments of less than 500 m² (5,380 sq. ft.)

The detector works by continually drawing air into sampling holes in a pipe network. The air is filtered and passed into a detection chamber where light scattering technology detects the presence of very small amounts of smoke. Detector status information is communicated on the detector display and via relays or optional interface cards.

The patent-pending Ultrasonic Flow Sensing used in the VLF provides a direct reading of the sampling pipe flow rate. The system is immune to air temperature and pressure changes and is unaffected by contamination. The VLF is the first air sampling smoke detector to use ultrasonic flow sensing.

In operation, the unique Smoke Dial display provides the user with an instant understanding of a smoke event, even from a distance. Should a fault occur, the user simply opens the field service door and activates the Instant Fault Finder feature to determine the specific fault condition. This information can then be passed onto their fire service company, ensuring that service technicians arrive onsite fully prepared.

The new VESDA LaserFocus Smoke detector is supplied with the correct fittings and pipes and is accompanied with a Class A Warranty.

General Features

- Out-of-the-Box Installation and Commissioning
- Ultrasonic Airflow Sensing
- Laser-Based Absolute Smoke Detection
- Pre-engineered pipe network designs
- Programmable Alarm Thresholds
- Clean air barrier optics protection
- Instant Recognition Display
- Instant Fault Finder™
- AutoLearn™ Smoke
- AutoLearn™ Flow
- Field Service Access Door
- Multiple Event Logging in separate logs
- Event log – up to 18,000 events
- Offline/online configuration capability



Product Order Codes

516.018.021	VLF-250-01 VESDA Laserfocus with icon/ European decal
516.018.504	Filter Cartridge (Spare)
516.018.023	VLF-500 VESDA Laserfocus (with English overlay)
516.018.024	VLF-500 LaserFocus Eu Decal

Listings / Approvals and Approvals Compliance

UL, ULC, FM, CFE, LPCB, VdS, VNIPO, AFNOR, ActivFire, CE - EMC and CPD, EN 54-20 Class A/B/C

Pipe 25mm Diameter



VESDA aspirating pipes, printed along its length on opposite sides at 450mm intervals. 3 m length pipes. Order in multiples of 10 lengths.

Product Order Codes

Red: JC008-25
Grey: JCG008-25

Socket 25mm



Straight socket for 25mm pipe. Order in multiples of 10.

Product Order Codes

Red: JC005-25
Grey: JCG005-25

Socket Union 25mm



Socket union to facilitate servicing of pipework. Order in multiples of 1.

Product Order Codes

Red: JC003-25
Grey: JCG003-25

Bend 25mm



90 degree Long Radius bend. Order in multiples of 5.

Product Order Codes

Red: JC001-25
Grey: JCG001-25

Air Sampling Unit and Accessories

Elbow 25mm



45 degree elbow. Order in multiples of 5

Product Order Codes

Red: JC002-25

Grey: JCG005-1

End Cap 25mm



End cap 25mm. Order in multiples of 5.

Product Order Codes

Red: JC007-25

Grey: JCG007-25

Equal Tee 25mm



Equal Tee 25mm. Order in multiples of 5.

Product Order Codes

Red: JC006-25

Grey: JCG006-25

Pipe Clip 25mm



Pipe Clip 25mm. Order in multiples of 10.

Product Order Codes

Red: JC004-25

Grey: JCG004-25

Socket Adaptor 25mm to 3/4"



Socket adaptor, imperial to metric, to extend existing systems. Order in multiples of 5.

Product Order Codes

Red: JC005-1
Grey: JCG005-1

Solvent Cement (0.25 L Tin)



Solvent cement.

Product Order Codes

JC011

Capillary Tube Conical Sample Point Assembly



Capillary Tube Conical Sample Point Assembly. 25mm socket adaptor + 2m capillary tube (tube colour - red).

Product Order Codes

JC019C-25

Capillary Tube Flush Sample Point Assembly



Capillary Tube Conical Sample Point Assembly. 25mm socket adaptor + 2m capillary tube (tube colour - red).

Product Order Codes

JC019F-25

Air Sampling Unit and Accessories

Capillary Tube 10mm



Capillary Tube 10mm o/d x 30m length (tube colour - red).

Product Order Codes

JC018-R

Sampling Point Label (1Reel)



Sampling point label. Order in multiples of 100.

Product Order Codes

JC010

Pipe Clip 25mm

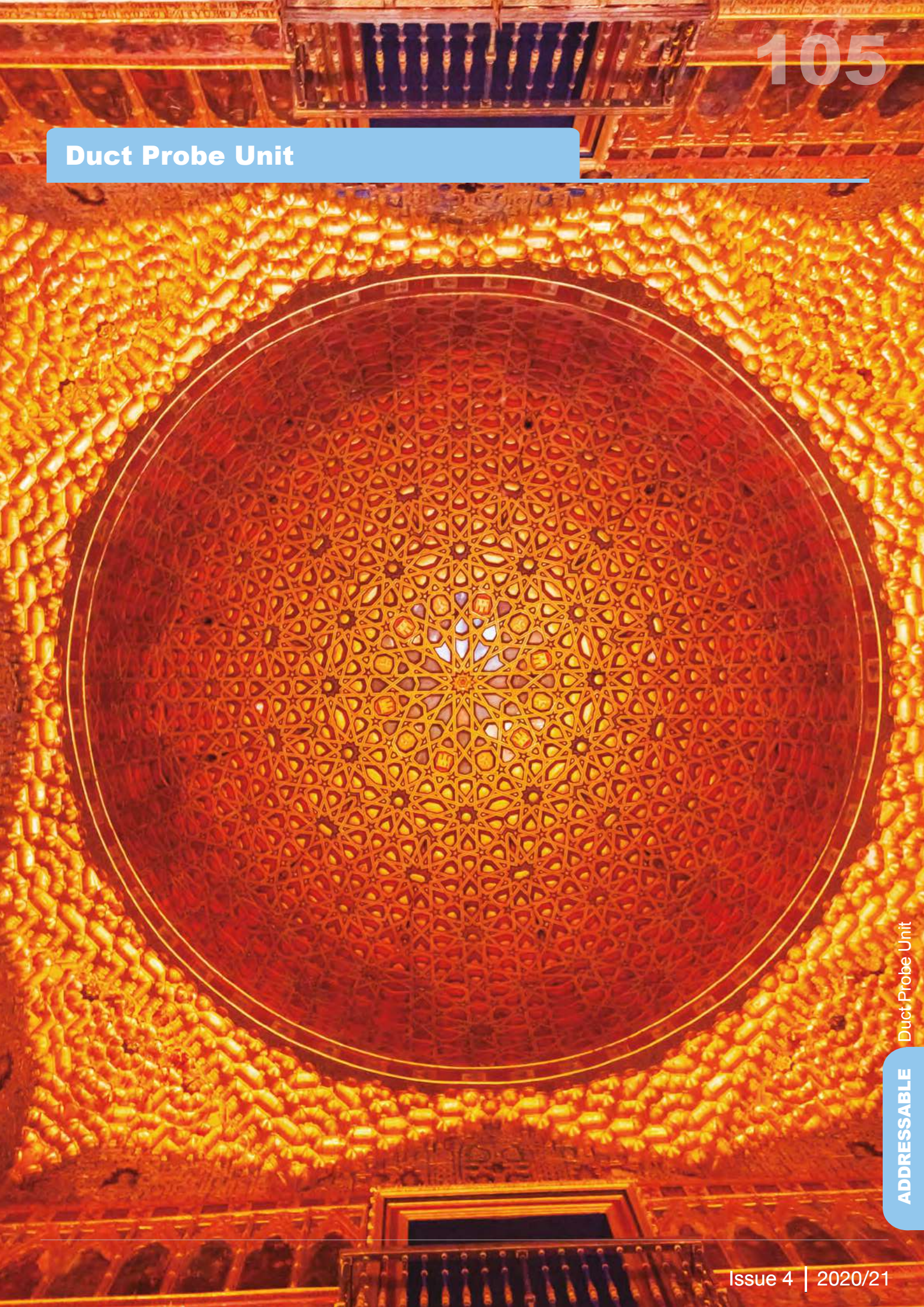


Pipe Clip 25mm. Order in multiples of 10.

Product Order Codes

JC004-25

Duct Probe Unit



Duct Probe Unit

ADDRESSABLE

Duct Probe Unit

DPK6 Duct Probe



General Information

The DPK6 duct probe units have been developed to detect smoke in ventilation ducts and offer significant benefits in terms of performance and installation. For most applications, smoke or combustion products are likely to have travelled some distance ageing the smoke prior to reaching the probe unit. It is therefore normally recommended that an optical smoke detector be fitted, and this is often a requirement of building regulations. The DPK6 duct probe units use FC460PH Multi Sensor Smoke Detectors.

The DPK6 Duct Probe units are not normally mounted directly inside ducts because the airflow only allows the detector to sample air from a small section of the duct and such detectors would rapidly become dirty. Instead, ducting is protected by the use of probe units which gather air from a cross section of the duct and pass it through a smoke detector head.

The system comprises only one single duct probe tube which improves efficiency and reduces installation time. The DPK6 duct smoke detector housing is designed to comply with the stringent demands of new European standard EN 54-27. The system fulfils all the requirements for safe fire detection with airflow speeds from 1,5 m/s to 20 m/s.

For the airflow through the adaptor to be representative of the airflow in the ventilation duct, the detector should be installed at a place where normally flow meters etc. are sited.

Please see the mounting instructions supplied with the product.

General Features

- DPK6 for use with FC460PH with built-in base.
- Designed to comply with EN 54-27.
- One-pipe air sampling system.
- Patented Cap-up Venturi pipe and duct housing.
- Test hole on cover.
- Simple installation.
- Sensitive flow indicator.
- Simple service and maintenance.
- Range of aluminium probe tubes are available for ducts up to 2700 mm.

Product Order Codes

517.025.056	DPK6 Duct Probe with with built-in base
517.025.058	DPK6-60 - Duct Probe Tube 60 cm
517.025.059	DPK6-150 - Duct Probe Tube 150 cm
517.025.060	DPK6-280 - Duct Probe Tube 280 cm
517.025.061	DPK6-MB - Duct Pobe Mounting bracket

Beam Smoke Detectors



ADDRESSABLE
Beam Smoke Detectors

Beam Smoke Detectors

Auto Aligning Optical Beam Smoke Detectors



General Information

The FIRERAY 5000 motorised, auto aligning infrared optical beam smoke detector can now be installed with up to four 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.

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 Auto-Optimise beam alignment system takes over and automatically steers the beam into the optimum position.

Each detector head is independently configurable from 8m through to 100m and has its own individual fire threshold. 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. Up to 3 additional detector heads can be added to the controller to enable larger or more complex areas to be protected (subject to local codes).

General Features

- Motorised auto-aligning.
- Up to 4 detectors per system controller.
- Each detector configurable from 8m to 100m.
- Integral LASER.
- Auto-align fast automatic beam alignment.
- Auto-optimize building movement and contamination compensation.
- Worldwide approvals including EN54:12 and UL268.
- Controller dimensions (WxHxD): 202 x 230 x 81 mm.
- Detector dimensions (WxHxD): 134 x 135 x 134 mm.

Product Order Codes

FIRERAY 5000 516.015.020

FR 5000 Detector Head



Each detector head is independently configurable from 8m through to 100m and has its own individual fire threshold. The System Controller retains one set of Fire and Fault relays that is common to all detectors. that are installed.

Product Order Codes

516.015.021

Reflector



Reflector 100 X 100mm 4 reflectors are required for distances from 50 to 100m.

Product Order Codes

516.015.007

Fireray® One



FIRERAY One Auto Aligning Infrared Optical Beam Smoke Detector
With no specialist tools or knowledge needed for installation and operation, the Fireray One is a standalone beam detector that prioritises ease of installation. 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

Product Order Codes

516.015.023 FIRERAY One Auto Aligning Infrared
Optical Beam Smoke Detector

Optical Beam Smoke Detector Mounting Accessories



Optical Beam Smoke Detector Mounting Accessories

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 when fixing to angled walls or cladding.

Product Order Codes

5000-005

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, the side mounting holes are compatible with Unistrut® racking systems.

Product Order Codes

5000-006

Prism Mounting Plate for 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).

Product Order Codes

5000-007

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).

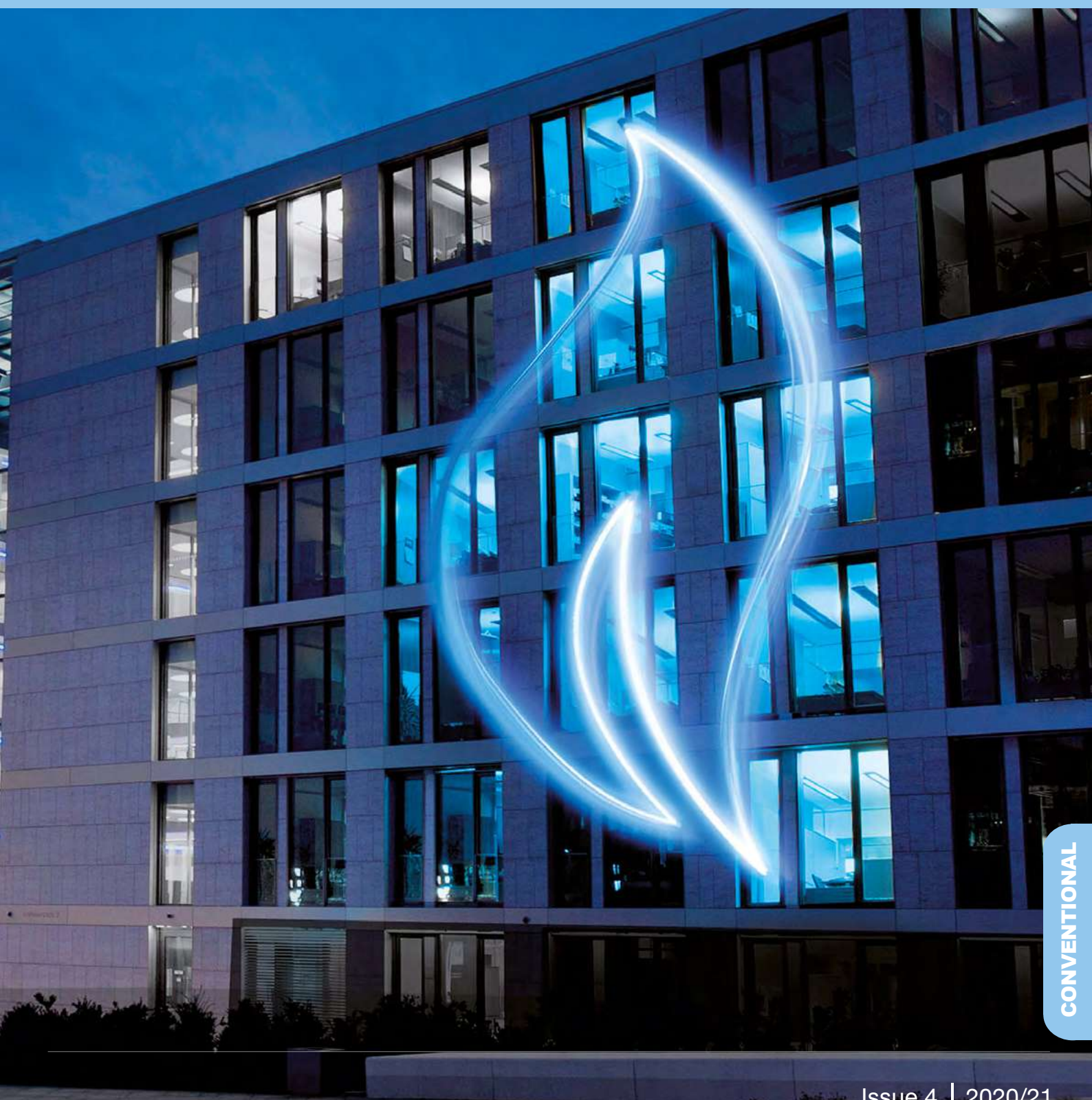
Product Order Codes

5000-008



Conventional Range





CONVENTIONAL





Comprehensive Range

The FireClass conventional range offers the user a choice of control panel widely known and used throughout the world, ranging from the basic J408-2 2 zone panel up to the expandable J424-8 24 zones panel. All panels can be fitted with 1 or 2 optional extinguishment modules and are designed to provide ease of installation by allowing most of the conventional detectors to be connected to each zone.

The conventional control panel range is also complemented by the FireClass Prescient III Extinguishing Panel designed to provide ease of installation by allowing most industry conventional detectors to be connected to each zone.

Easy to Install

All FireClass conventional panels offer a user friendly, out-of-the-box feel.

Both the J408 and J424 are easy to install and can be configured from PC or keypad.

The Prescient III is supplied in a robust metal housing, but still offers a chassis style design so the motherboard and power supply can be removed to allow for installation.

Full Approvals Provide Peace of Mind

In order to ensure peace of mind for both the installer and end user, FireClass products are third party approved and certified to the relevant European Standards. FireClass approvals go beyond the minimum requirements including EN54 and EN12094-1 approval of the J400 Series and the Prescient III Extinguishing Panel having EN54-2, EN54-4 and EN12094-1 approval. EN54 detector approval is also provided for all detectors in the FireClass range.



Enviably Point Detector Range

The FireClass range of conventional detectors can be used in all fire risk situations, from slow smouldering fires using CO technology to the fast flaming fires using the unique High Performance Optical detector, which emulates the characteristics of the ionisation detector, without the need for radioactive components.

High Performance Optical Multisensor is a general purpose detector that can be used as an ionisation detector replacement.

Carbon Monoxide/Heat Multisensor provides a high level of protection in environments where traditional smoke detectors are unsuitable.

Point Infrared Flame Detector provides a low cost solution and early detection of liquid fuel fires.



J408

- Low cost EN54 and EN12094-1 approved panel.
- Available in 2,4 and 8 zone versions.
- Extinguishing module available.
- Optional repeater available.
- Versatile easy to install enclosure.



Prescient III

- EN54 approval for detection capability.
- EN12094-1 approval for gas releasing capability.
- Wide range of control panel status indicator units available in standard and weatherproof enclosures.



Precept EN

- Fully featured range of engineered conventional panels.
- Available in 2,4,8, 16 and 32 zones.
- Up to 5 repeaters per panel connecting a two wire bus.
- Precept offers extensive expansion from relay modules to alarm circuit expansion.



J424-8

- EN54 and EN12094-1 approved.
- Expandable to 24 zones.
- Extinguishing module available.
- Optional repeater available.



Duo CEL

- Low cost EN54 and CPD approved introductory panel.
- Available in 2,4 and 8 zone versions.
- Key activated controls eliminating the need to remember codes.
- Optional repeater available.
- Versatile easy to install enclosure.



Call Points

- The most recognisable indoor and outdoor callpoint.
- Available for both standard and 2 wire installations.
- Supplied with or without back box for easy installation.



Sounders and Cap-up Beacons

- Comprehensive range of sounders and beacons.
- Wide selection of sounds to match new and existing applications.
- Visual alarms available in the sounder/ beacon range.



Remote Indicator

- Commonly used when line of sight is not available to the detector.
- Discreet devices used to reduce the fire search time.



Detector Bases and Accessories

- Detector bases and accessories.
- Range of standard bases, sounder bases and sounder/ beacon bases complemented by the time saver ceiling adaptor allowing fast and easy installation.



Door Release

- Both 24Vdc and 230Vac low cost units available.
- Finishes available in plastic, chrome or brass.
- Essential piece of fire protection equipment for most installations.



FireClass 600 Series Detection

- Comprehensive low cost range of conventional detectors with advanced technology.
- Combined optical/heat detector ideal for ionisation replacement.
- Advanced carbon monoxide detector.
- Solar blind infrared flame detector.



Duo-Cel



General Information

FireClass Duo-Cel brings a high level of functionality in an entry level package suitable for most small installations.

The panel is designed to work seamlessly with the FireClass range of detectors, call points and sounders and has many useful configurable options, inputs and outputs to aid with installation and retrofitting.



General Features

- Fully approved.
- 2,4 & 8 Zone versions available in an aesthetically pleasing design.
- Sturdy, flame retardant, ABS plastic enclosure with controls, zone text insert and indications overlay.
- Easy to install, program and use. Key operated controls access.
- Panels can be surface or semi flush mounted and have 20mm cable gland breakouts.
- Comprehensive LED indications and user/engineer controls.
- Low standby power consumption.
- 4 Sounder circuits 4 & 8 zone, 2 on 2 zone panel. Zonal & Alert sounder options configurable.
- 1.5A switched mode power supply with temperature compensated battery charging.
- Enclosure houses 3.4Ah SLA batteries as standard.
- 8 Zone repeaters available with 24V or mains operation (suitable for 4 & 8 zone panels only).
- Short circuit zone activation option (Global).
- End of Line zone resistor option for retro.

Product Order Codes

508.031.702	Duo-Cel 2 Zone Panel
508.031.703	Duo-Cel 4 Zone Panel
508.031.704	Duo-Cel 8 Zone Panel
508.031.705	Duo-Cel 8 Zone AC Repeater
508.031.706	Duo-Cel 8 Zone DC Repeater

FireClass Spares & Accessories Product Order Codes

2501061	Spare enable key for FireClass Duo-Cel
2605502	Motherboard Fireclass Duo-Cel 2 Zone Panel
2605503	Motherboard Fireclass Duo-Cel 4 Zone Panel
2605504	Motherboard Fireclass Duo-CEL 8 Zone Panel
2605505	Motherboard Fireclass Duo-Cel 8 Zone AC Repeater
2605538	EOL Kit for FireClass Duo-CEL
2605506	Motherboard Fireclass Duo-Cel 8 Zone DC Repeater
2000931	Bag with installation accessories (Fixing Kit) for Fireclass Duo-Cel Panels
2000932	Bag with installation accessories (Fixing Kit) for Fireclass Duo-Cel Repeater

Precept EN 2, 4, 8, 16 & 32 Zone



General Information

The Precept EN range of conventional control panels are powerful yet user friendly. They are designed and manufactured to a high standard and are approved by LPCB to EN54 parts 2 & 4.

These panels are available in 2,4,8,16 & 32 Zone versions along with suitable repeaters for all models.

The 8 - 32 Zone panel models are capable of driving any combination of 8 channel output expansion boards (relays, alarm circuits and open collector 0v outputs) which can be set to be zonally activated or common output modes.

Each panel has extensive configuration options but remains easy to install, programme and operate. This is supported by comprehensive documentation on commissioning, operating and maintenance.

The panels are designed to work with a wide range of manufacturers' detectors and are able to cope with many types of installation (new or retrofit).



General Features

- Fully Approved.
- From 2 to 32 zones (up to 32 detectors per zone).
- Comprehensive end-user facilities (access level 2).
- Designed & built using the latest technology for optimum performance and consistently high quality.
- Extensive configurable facilities for the engineer via DIP switches.
- 4 alarm circuits as standard (4 zone panel and above).
- Up to 5 fully-functional repeaters - 2-wire RS485.
- Range of EN54 compliant power supply modules, designed to meet the specific load requirements of each size panel.
- Zonal one-man test feature and sounder one-man test facility.
- Short circuit to fire setting for use with older type detectors.
- Panel inputs for class change, evacuate, silence alarms, system reset.
- 3 open-collector outputs for evacuate, buzzer active, disablement active.
- Auxiliary supply output - monitored fuse.
- Panel expansion boards for open collector, relay and alarm outputs (for 8 zone panel or higher).
- Optional timer clock/counter module.
- Optional foreign languages text insertable versions available.
- Optional semi-flush and fully flush mounting bezels available.

Product Order Codes

508.032.701	Precept EN 2 Zone Panel
508.032.702	Precept EN 4 Zone Panel
508.032.703	Precept EN 8 Zone Panel
508.032.704	Precept EN 16 Zone Panel
508.032.706	Precept EN 32 Zone Panel

508.032.707	FireClass Precept EN 8 Zone AC Repeater
508.032.708	FireClass Precept EN 16 Zone AC Repeater
508.032.709	FireClass Precept EN 32 Zone AC Repeater
508.032.710	FireClass Precept EN 8 Zone DC Repeater
508.032.711	FireClass Precept EN 16 Zone DC Repeater
508.032.712	FireClass Precept EN 32 Zone DC Repeater

FireClass Precept EN Spares & Accessories



Spares & Accessories Product Order Codes

2605061	C1631 Repeater Interface
2605063	C1633 LED O/C Driver PCB
2605064	C1634 Relay Output PCB
2605065	C1635 Alarm/Mon O/P PCB
2605060	C1630 Output Driver Interface
2605085	Motherboard for FireClass Precept EN 2 Zone Panel
2605086	Motherboard FireClass Precept EN 4 Zone Panel
2605087	Motherboard FireClass Precept EN 8 Zone Panel
2605088	Motherboard FireClass Precept EN 16 Zone Panel
2605089	Motherboard FireClass Precept EN 32 Zone Panel
2605090	Motherboard FireClass Precept EN AC Repeaters
2605091	Motherboard FireClass Precept EN DC Repeater
2000682	Lock and barrel for Precept EN
508.032.713	Displayboard for FireClass Precept EN 2 Zone Panel
508.032.714	Display board FireClass Precept EN 4 Zone Panel
508.032.715	Display board FireClass Precept EN 8 Zone Panel
508.032.716	Display board FireClass Precept EN 16/16L Zone Panel
508.032.717	Display board FireClass Precept EN 32 Zone Panel
2000614	Bag with installation accessories (Fixing Kit) for FireClass Precept EN Panels ¹
2000619	Bag with installation accessories (Fixing Kit) for FireClass Precept EN Repeater ²
557.200.750	Precept EN Panel Bezel Semi Flush Stainless Steel
557.200.751	Precept EN Panel Bezel Fully Flush Stainless Steel

¹ 2000614 - Pack Includes:

10k Resistor 0.25 watt
3k9 Resistor 0.25 watt
22 UF 35v axial capacitor
Fuse 6.3 Amp 20mm
Approved 3.15a fuse sand fil
Red lead 400mm ring term
Black lead 400mm ring term
Blue lead 250mm ring term
Cable ties

² 2000619 - Pack Includes:

Fuse 2amp 20mm
Black lead 250mm
Blue battery lead 640mm
Red battery lead 350mm
Approved 1a0 fuse sand filled
Cable ties 142x3.6

Prescient III Gas Releasing



General Information

The FireClass Prescient III gaseous extinguishant control panel is powerful yet user-friendly and is designed and manufactured to a high standard. The panel features approval to BSEN 12094-1:2003, BSEN 54-2 and 4 and is designed to BS7273 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.

This is supported by comprehensive documentation on commissioning, operating, maintenance and fault finding.

In addition there is a comprehensive range of compatible accessories available to meet most customer requirements.

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.

General Features



- Fully Approved.
- 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.
- Common fire, fault, relay / monitored output facilities.
- 1st stage, 2nd stage, 3rd stage and gas discharged relay / monitored output facilities.
- Reset relay facilities.
- Single or double knock operation.
- Pre-discharge delay adjustable from 0 to 60 seconds with visible countdown timer.
- Discharged indication with or without pressure switch.
- Inhibit silence alarms until gas discharged.
- Option for rapid buzzer pulse when gas imminent.
- One man zone and sounder test.

Product Order Codes

508.033.751 FireClass Prescient III Gas Panel

Spares & Devices Product Order Codes

2605183 Motherboard for Prescient III
2000682 Lock and barrel for Prescient III
2000898 Bag with installation accessories (Fixing Kit) for Prescient III ¹

¹ 2000898 - Pack Includes:

2K2 Resistor 0.25 watt
 10K Resistor 0.25 watt
 4k7 Resistor 0.25 watt
 1k8 Resistor 0.25 watt
 680 Ohm resistor 0.25 watt
 22 uf 35v axial capacitor
 5A approved fuse 5x20mm
 560r 0.25w 1% metal film resist
 Red lead 250mm
 Black lead 250mm
 Blue lead 250mm 0.25 spade / s
 Fuse 6.3 amp 20mm
 Cable ties 142x3.6
 C1565 Actuator suppression BOA

Gas Extinguishing Status Units

Status Lamp Unit



General 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.

Product Order Codes

508.033.752 SLU1

Status Lamp Unit



General 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.

Product Order Codes

508.033.753 SLU2

Status Lamp Unit



General 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.

Product Order Codes

508.033.754 SLU3

Status Lamp Unit



General 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.

Product Order Codes

508.033.755 SLU4



J408



General Information

Designed and made according to EN54 standards, the J408 is a microprocessor based control panel for small to medium applications. It has 8 zones, each supports up to 32 detectors, for a maximum of 256 detectors. Each detection zone has an alarm-repeat output for selective management in the event of fire.

The control panel has supervised, silenceable alarm-outputs for self-powered sirens, piezo electric sirens, fire bells, flashers, telephone diallers, etc. This easy-to-use control panel is protected by a lockable frontplate which allows operational access to authorized personnel only.

The optional Software in Windows™ environment, allows full systems management of events memory, files, reset and all the programmable functions provided by the control panel.

General Features



- Fully Approved.
- Optional extinguishment module EN12094-1 approved.
- Up to 32 devices can be connected to each zone.
- Gas zone compatible with 4 – 20 mA gas detectors.
- One alarm-repeat output for each input zone.
- Manual call point recognition.
- Signals missing detectors.
- 2 supervised, silenceable, bypassable 24 V alarm output for sirens activation.
- Silenceable fault-warning output for the activation of signalling and auxiliary devices.
- Supervised fire output for telephone dialler activation.
- Programmable open collector output.
- Dry contact alarm-relay for the activation of auxiliary devices.
- Day/Night mode.
- Alarm verification time.
- Programmable restoral and reset times.
- Programmable from PC or keypad.
- 50 event log viewed via PC.
- Alarm/fault memory activated until next reset.
- Command for silencing sirens.
- Keypad commands require key or pin code.
- Repeater available.

Product Order Codes

557.201.522 J408-2 2 zone conventional fire panel English
557.201.523 J408-4 4 zone conventional fire panel English
557.201.524 J408-8 8 zone conventional fire panel English
508.031.721 J408-2 2 zone conventional fire panel Italian
508.031.722 J408-4 4 zone conventional fire panel Italian
508.031.723 J408-8 8 zone conventional fire panel Italian
557.201.528 J408-2 2 zone conventional fire panel Israel

557.201.529 J408-4 4 zone conventional fire Israel
557.201.530 J408-8 8 zone conventional fire panel Israel
557.201.532 J408-2 2 zone conventional fire panel Portuguese
557.201.533 J408-4 4 zone conventional fire panel Portuguese
557.201.534 J408-8 8 zone conventional fire panel Portuguese
557.201.539 J408-2 2 zone conventional fire panel Spanish
557.201.540 J408-4 4 zone conventional fire panel Spanish
557.201.537 J408-8 8 zone conventional fire panel Spanish

J424-8



General Information

Designed and made according to EN54 standards, the J424 is a microprocessor based control panel for medium and large applications. It has 8 zones main board and supports two J400-EXP8 expander modules, for a total of 24 zones and 512 detectors.

Each detection zone is equipped with an alarm repeat output for selective alarm management in the event of fire. The control panel has supervised and silenceable alarm outputs for the control of the self-powered sirens, piezoelectric sirens, fire bells, flashers, telephone dialers, etc. This easy-to-use control panel is protected by a lockable front plate which allows operational access to authorized personnel only.

The J424 control panel is also available with a backlit display, which shows all the information regarding the control panel status. The optional software in Windows™ environment, allows full systems management of events memory, files, reset and all the programmable functions provided by the control panel.

General Features



- Fully Approved.
- Optional extinguishment module EN12094•1 approved.
- 8 zones mainboard.
- Supports 2 J400•EXP8 expander modules, total 24 zones.
- Up to 32 devices can be connected to each zone.
- Gas zone compatible with 4 – 20 mA gas detectors.
- One alarm•repeat output for each input zone.
- Manual call point recognition.
- Signals missing detectors.
- 2 supervised, silenceable, bypassable 24 V alarm output for sirens and activation.
- Silenceable fault warning output for the activation of signalling and auxiliary devices.
- Supervised fire output for telephone dialler activation.
- Programmable open•collector output.
- Dry contact alarm•relay for the activation of auxiliary devices.
- Day/Night mode.
- Alarm verification time.
- Programmable restoral and reset times.
- Programmable from PC or keypad.
- 50 event log viewed via PC.
- Alarm/fault memory activated until next reset.
- Command for silencing sirens.
- Keypad commands require key or pin code.
- Repeater available.
- Optional backlit display.

Product Order Codes

557.201.525	J424-8 8 zone conventional fire panel expandable up to 24 English
557.201.531	J424-8 8 zone conventional fire panel expandable up to 24 Israel
557.201.535	J424-8 8 zone conventional fire panel expandable up to 24 Portuguese
557.201.538	J424-8 8 zone conventional fire panel expandable up to 24 Spanish
508.031.724	J424-8 8 zone conventional fire panel expandable up to 24 Italian

J400 Series Accessories



Repeater for J424 and J408-8 Control Panels



General Features

- 4 wire connection to the panel (power supply included).
- Can be connected to J408-8 and J424.
- The repeater panel may be installed up to 1000 m from the control panel.
- Displays all audible and visual signalling.
- Control panel management.
- Dimensions (wxhxd): 280x320x40 mm.
- Weight: 2.260 Kg.

Product Order Codes

- 557.201.526** J400 REP Repeater English
557.201.536 J400 REP Repeater Portuguese
557.201.541 J400 REP Repeater Spanish
508.031.728 J400 REP Repeater Italian

LCD display module for J424 Panels English



General Features

- Backlit LCD display module, two lines with 16 characters per line.
Main text regarding the system's status and equipped with 6 scroll keys.

Product Order Codes

- 557.201.527** J400 LCD English
508.031.727 J400 LCD Italian

J400 Series Accessories

Extinguishment Module for J400 Series



General Features

- Output for electro-valves controlled by logic (AND/OR) between the status of the control panel zones.
- Programmable extinguishment delay.
- Output signals: extinguishment delay, extinguishment and released.
- Input for the forced activation of the extinguishment devices - Input for the pressure switch.
- Fault signalling on pressure-switch supply line.

Product Order Codes

508.031.726 J400-EXT



8 Zone Expander Module for J424 Panels



General Features

- 8 balanced, bypassable fire zones.
- Expand J424-8 to a 16 or 24 zone panel.

Product Order Codes

508.031.725 J400EXP8

J400 Series Spares

Product Order Codes

508.031.725 J400EXP8
557.201.555 B015-2 Motherboard for J408-2
557.201.556 B015-4 Motherboard for J408-4
557.201.557 B016 Motherboard for J408-8 and J424-8

Detectors



Detectors

CONVENTIONAL

600 Series Detectors



General Information

The 600 Series conventional detectors are the result of the evolution of conventional detector design but with extra unique style features enabling improved operation, installation and easy servicing. Included within the 600 Series range is the new conventional enhanced carbon monoxide detector (601CH). The incorporation of a reliable electrochemical CO detection cell and high specification low thermal mass thermistor for accurate temperature detection has enabled the introduction of an enhanced CO detector suitable for fast, reliable fire detection on both slow and fast developing fires.

The traditional detectors or two-status detectors in the 600 Series have two output statuses: standby or alarm.

When used in conjunction with suitable monitoring and signalling equipment, they create an automatic detection system.

Application

As each type of detector responds to a particular "fire characteristic", the relative speed of response of the detector is therefore dependent upon the type of fire being detected.

The range of 600 Series conventional detectors have been designed to provide the earliest possible warning of a fire condition, with a minimum possibility of false/unwanted alarms.



General Features

- EN54 Approved from LPCB.
- Low operational voltage: 10.5 Vdc to 33 Vdc.
- Aesthetically discreet.
- Superior performance and reliability.
- Designed for rapid installation.
- Integrated alarm LED.
- Remote LED connection.
- Wiring polarity independent.
- Compatible with standard mounting base and with relay base.

Optical Smoke Detector



General Features

601P detector is capable of detecting the visible smoke produced by materials which smoulder or burn slowly, i.e. soft furnishings, plastic foam etc.; or 'smoke' produced by overheated but unburnt PVC. These detectors are particularly suitable for general applications and areas where cable overheating may occur e.g. electrical services areas.

Product Order Codes

516.600.001 601P



High Performance Optical Detector



General Features

601PH detector reacts to the whole range of fire products from slow smouldering fires, producing visible particles to open flaming fires producing large numbers of very hot smaller sized aerosols. It combines optical and heat detector technology to detect clear burning fire products which hitherto could only be easily detected by ion-chamber detectors.

For normal ambient conditions, the high performance optical detector behaves as a normal optical detector.

Only when a rapid rise in temperature is detected does the sensitivity of the detector increase and the presence of smoke will confirm a fire condition.

The HPO will not operate on a rate of rise of temperature alone.

Product Order Codes

516.600.002 601PH



Heat Detector - Rate of Rise



General Features

601H-R (rate of rise) detectors detect abnormally high rates of rise of temperature. Can be used in areas where smoke sensors are unsuitable due to environmental conditions (smoke, dust etc.). Such areas include kitchens, locker rooms, canteens, garages, loading bays etc.

Product Order Codes

516.600.003 601H-R



600 Series Detectors

Heat Detector - Fixed Temperature



General Features

611H-F (fixed temperature) detectors detect abnormally high (static) temperatures . Can be used in areas where smoke sensors are unsuitable due to environmental conditions (smoke, dust etc.). Such areas include kitchens, locker rooms, canteens, garages, loading bays etc.

Product Order Codes

516.600.214 611H-F



Multi Sensor CO and Heat Detector



General Features

601CH 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 the positioning of smoke detectors is difficult.

Product Order Codes

516.600.004 601CH



Solar Blind Infra Red Flame Detector



General Features

A detector that is ideal for protecting large open areas without sacrificing speed of response to flaming fires. A unique detector ideal for fast response to flaming fires typically caused by flammable liquids.

Product Order Codes

516.600.006 601F

Detector Bases



Detector Bases

CONVENTIONAL

Detector Bases

General Information

The FireClass range of conventional detector ancillaries have been designed with the needs of the installer in mind. The range includes standard and diode bases, sounder, beacon and relay bases and the unique time saver ceiling tile adaptor.

Many of today's buildings feature a false or suspended ceiling. Installation of fire detectors to this type of ceiling has been seen as both difficult and time consuming with the installation requiring the ceiling to be in place before the detector base and associated second fix can take place.

By using the new Time Saver Ceiling Tile Adaptor this whole installation process has been made much easier. The complete process from wiring connection to detector commissioning can now take place as a single operation and be completed even before the ceiling has been installed.

A choice of functional bases include the 601SB(D) EN54-3 approved low current sounder base with adjustable volume and tone.

They do not require the use of a separate base and fit directly to a standard electrical box or the CTA adaptor plate.

The MC600 relay base provides dual relay contacts for signalling 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.



General Features

- Aesthetically discreet both standard and diode base.
- Superior performance and reliability.
- Designed for rapid installation.
- Remote LED connection
- Sounder base with adjustable volume control & selectable tones.
- Extra low current sounder bases.
- Double pole relay base for local control.
- Time saver ceiling tile adaptor reduces installation time on suspended ceilings by 30%.
- Adaptor plate allows the time saver ceiling tile mount to be used with a wide range of alarm accessories.

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.

General Features

- Aesthetically discreet.
- Superior performance and reliability.
- Designed for rapid installation.
- Remote LED connection.

Product Order Codes

517.050.041 4B



Diode Base



The 4B-D Conventional Diode 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.

General Features

- Compatible with Series 600 LowProfile Detector Range.
- Designed for two wire operation.
- Facility to drive a remote indicator.
- A temporary park position is provided so that the field wiring can be tested with the detector in situ.
- May be fitted directly to a British or European conduit box or directly into the ceiling

Product Order Codes

517.050.045 4B-D



Detector Bases

Deck Head Mounting



Where the detectors are mounted in humid and environmentally challenging situations 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. Can be screwed, bolted / welded to the deck head. Supplied with 1 terminal. If more are required, use the optional base accessory.

General Features

- 4 x 20mm gland entries.
- Fits ALL 5" bases.
- IP55 with supplied gasket.

Product Order Codes

- 517.050.051** 4B-DHM
517.050.612 Terminal Kit (x10)



Euro Mount



The euro-mounting base provides a matching back box, which allows the 5" bases to be ceiling mounted with conduit entries for standard 18 and 21mm conduit.

General Features

- 2 x 18mm conduit entries.
- 2 x 21mm conduit entries.
- Fits all 4" Bases.
- Accepts up to 8 accessory terminals.
- Base Accessory terminal kit (pack of 10) part number 517.050.612.

Product Order Codes

- 517.050.052** 4B-EM
517.050.612 Terminal Kit (x10)



Universal 5" Base With Relay



The 5B is the most common base designed to fix directly to the ceiling or various common backboxes. This base allows a detector to be plugged in directly.

General Features

- Variety of fixing options.
- Remote LED connections.
- Park position and address flag holder.
- Integral breakout locking key.

Product Order Codes

- 508.031.751** MUB-RV

Ceiling Tile Adapter Kit



The Time Saver Ceiling Tile Adaptor is used with the 4B 4" detector base 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. Requires a 127mm diameter hole. The CTA adaptor plate allows this to be used with other devices such as the FC430SB.

General Features

- Cuts installation time by 30%.
- Commission the system before the suspended ceiling is installed.
- Suitable for ceiling tiles from 1mm.
- Made from flame retardant material.
- No additional back-box is required.
- Time saver is designed for use with a new snap-fit 4" detector base.
- Adaptor available for use with the AV base & other devices.

Product Order Codes

517.050.056	CTA-BB CTA Back Box
517.050.057	CTA-BC CTA Bezel and Clamp
517.050.060	CTA Kit*

* Kit part contains SKU 056 and 057



CTA-AP CTA Adaptor Plate



General Features

The CTA adaptor plate allows the Ceiling Tile Adaptor to be used with other devices.

Product Order Codes

517.050.058	CTA-AP CTA Adaptor Plate
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Detector Bases

Protective Cage



White powder coated steel protective cage for Series FC400 Detectors fitted with a sounder base. Dimensions: 120mm dia x 80mm deep

Product Order Codes

517.050.011 Protective Cage

Protective Detector Sounder Base Cage



Robust steel protective cage for Series FC400 detector ranges using the 5" bases. Ideal for schools and sport halls or whenever detectors need protection. Strong coated steel construction with 4 point fitting.

Product Order Codes

517.050.614 Protective Detector Sounder Base Cage

Call Points



Call Points
CONVENTIONAL

Manual Call Points



General Information

A comprehensive range of callpoints for use with FireClass conventional systems. All the callpoints are designed to enable an alarm signal to be given by breaking a glass element with the option of a resettable, deformable element. If required, an optional transparent hinged cover may be installed to guard against accidental operation.

General Features

- Distinctive and recognizable styling.
- Surface or flush mounting.
- Test key facility, speeds maintenance visits.
- Optional transparent hinged cover.
- Optional plastic deformable call point element for food processing areas.
- IP67 waterproof models for external application.
- Colour variant - RAL3001, Red*

Conventional Manual Call Point with Glass



conventional manual alarm call point with integral alarm LED and activation resistor. Operation is by break glass. This call point is semi flush mounted or can be surface mounted using back box 515.001.021 or 10-115, and comes with a test key.

Product Order Codes

2501012 Conventional Manual Call Point with Glass

*RAL3001, Red, is the target colour. Shade may alter slightly during moulding process.

Conventional Manual Call Point with Plastic Element



A conventional manual alarm call point with integral alarm LED and activation resistor. Operation is by resettable deformable element. This call point is semi flush mounted or can be surface mounted using back box 515.001.021 or 10-115, and comes with a test key.

Product Order Codes

2501233 Conventional Manual Call Point with Plastic Element

Conventional Manual Call Point with Plastic Element



A conventional manual alarm call point with integral alarm LED and activation resistor. Operation is by resettable deformable element. Comes complete with a back box and a test key.

Product Order Codes

2501234 Conventional Manual Call Point with Plastic Element
515.001.021 Back-Box Included

Conventional Weatherproof Manual Call Point



A weatherproof manual alarm call point with integral alarm LED and activation resistor making it compatible with the Prescient III Suppression Panel. Operation is by break glass. This call point is surface mounted and comes complete with back box & test key.

Product Order Codes

2501176 Conventional Weatherproof Manual Call Point
515.001.021 Back-Box Included

Manual Call Points

Spare Plastic Element for Manual Call Point



EN54 Part 11 Spare Plastic for Callpoints (Pack of 5).

Product Order Codes

515.001.119 Spare Plastic Element for Manual Call Point

Spare Plastic Element for Manual Call Point



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

Product Order Codes

515.001.127 Spare Plastic Element for Manual Call Point

Manual Call Point Plastic Hinged Cover



Callpoint hinged cover for use with MCP & CP style callpoint models (Colour - Clear).

Product Order Codes

515.001.128 Manual Call Point Plastic Hinged Cover

Spare Manual Call Point Keys (Pack of 10)



Test key for all MCP and CP style callpoints.

Product Order Codes

515.001.045 Spare Manual Call Point Keys (Pack of 10)

Standard Back Box for Manual Call Point

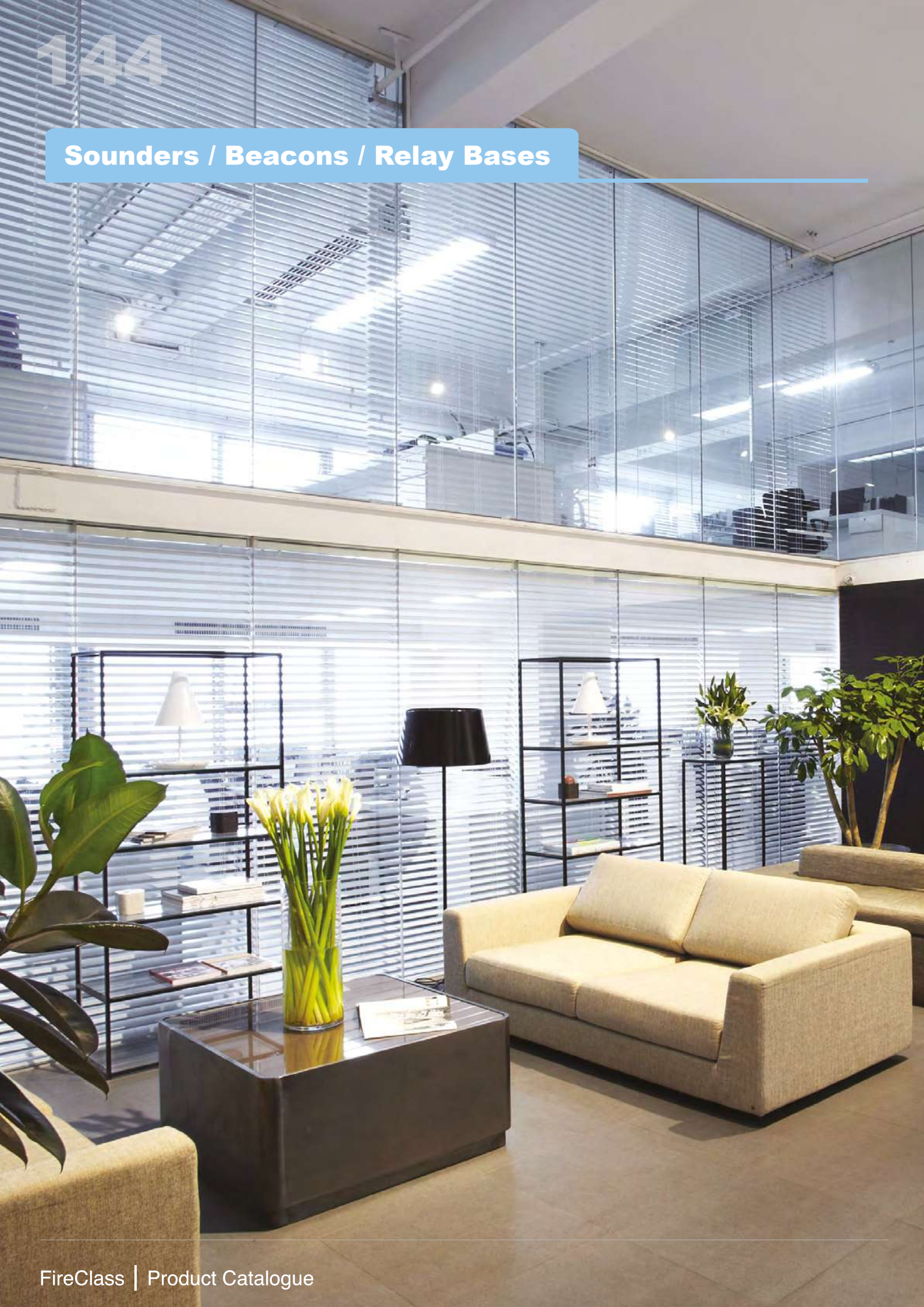


Standard Red surface mounting back box for indoor callpoints.

Product Order Codes

515.001.021 Standard Back box for manual call point

Sounders / Beacons / Relay Bases



Relay Bases



General Information

Functional detector bases use a common moulding which incorporates a double sided circuit board which enables electrical connections to be made on the top and bottom of the functional base. This allows the functional bases to be retrofitted into new and existing universal bases or alternatively the depth and cost of the installed detector can be reduced by using the functional base instead of the universal base.

This feature enables additional sounders to be easily added during commissioning. In addition, changes to the building during its life can be easily adapted to, by retrofitting sounders and relay outputs to existing detection points.

When functional bases are fitted to universal bases, they automatically lock into position. Removal is then achieved using the detector removal tool. This feature ensures that the detector and functional bases are removed separately.

Sounder Base



General 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 (may be installed directly onto a standard base box).

Product Order Codes

577.001.035 601SB

Diode Sounder Base



General 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 base box).

Product Order Codes

577.001.037 601SBD

Relay Bases

Sounder Base White Cap



A plastic cap which fits onto the 601SB / 601SBD / 602SB / 602SBD Sounder Base to enable these bases to operate as a sounder without fitting a detector.

Product Order Codes

557.001.040.Y Sounder Base White Cap

MC600 Functional 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.

General 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.

Product Order Codes

568.001.018 MC600 Functional Relay Base

Sounders / Beacons



General Information

A range of sounders to meet a wide variety of alarm applications where loud, penetrating and distinctive warnings must be given to alert people of fire situations.

In addition, multi tone electronic sounders can give a variety of sounds to signal other conditions e.g. "extinguishing gas release imminent," etc.

General Features

- Wide range of both bells and electronic sounders.
- High sound output characteristics.
- Low current consumption.
- Clean lines, modern styling.
- Easy to install, low installation costs.
- Weatherproof units for outdoor use.
- Distinct sounds are available.
- Motorised and Solenoid bells available.
- Wide range of voltages available.

6" Electronic Bell



Fire bells make up the range of 150mm (6 inch) and 200mm (8 inch) internal and external units. Being of aluminium construction, our bells have a very high volume output matched with extremely low power consumption - just 11mA for the 150mm internal.

Product Order Codes

2601012 6" Electronic Bell



Sounders / Beacons

6" Electronic Weatherproof Bell



The specially designed weatherproof bells have an aluminium back box giving either single or double threaded entry for maximum flexibility in installation. This is supplied as a full fixing kit with gasket and screws.

Product Order Codes

2601015 6" Electronic Weatherproof Bell



8" Electronic Weatherproof Bell



The specially designed weatherproof bells have an aluminium back box giving either single or double threaded entry for maximum flexibility in installation. This is supplied as a full fixing kit with gasket and screws.

Product Order Codes

2601016 8" Electronic Weatherproof Bell



Roshni Electronic Sounder



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 synchronized start for self synchronization without third wire.

Product Order Codes

ROSHRDSR Roshni Electronic Sounder

Banshee Warbler



The Banshee Warbler is a fire alarm sounder which is part of the conventional range of sounders and fire alarms supplied by Tyco, who manufacture the leading fire detection equipment brand, FireClass. The 24v Banshee Excel is a fire alarm sounder which has 32 selectable tones and 3 volume settings. The easy push and twist lockable bayonet mounting makes installing fire sounders such as the Banshee fire alarm sounder, a quick and easy process, saving the installer time and money.

Product Order Codes

576.501.060 Banshee Warbler

Solista LX Wall Beacon Red Body White Flash EN54-23 W-2.4 7.5



The Solista LX Wall product takes its slimline design. 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, whilst using minimum current.

General Features

- Conforms with EN 54-23 (meets the required illumination 0.4lux/m2 over entire room area).
- LED technology for long service life and low current consumption, maximising the number of devices on your alarm circuit.
- Unique optics for light management, with lens design that optimises light dispersal, minimising power wastage.
- Up to 7.5m coverage volume which reduces the number of devices required to cover an area.
- 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 design
- 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 loading
- Locking Bases to prevent easy removal of device.

Product Order Codes

812007FULL-0108x Solista LX wall beacon
812007FULL-0109x Solista LX wall beacon deep base

Sounders / Beacons

Solista LX Ceiling Beacon White Body White Flash Shallow Base EN54-23 C-3-7.5



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.

General Features

- Conforms with EN 54-23 (meets the required illumination 0.4lux/m² over entire room area).
- LED technology for long service life and low current consumption, maximising the number of devices on your alarm circuit.
- Unique optics for light management, with lens design that optimises light dispersal, minimising power wastage.
- Up to 7.5m coverage volume which reduces the number of devices required to cover an area.
- Coverage switch feature - For smaller areas switch down from 7.5m to 5m, reducing power consumption by up to 50%.
- Wide input voltage range leads to flexibility in system design
- 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, thus reducing circuit loading.
- New connection layout creates easier wiring and connection on installation.
- Locking Bases to prevent easy removal of device.

Product Order Codes

Solista LX ceiling beacon

812020FULL-0121x

RoLP LX Wall Beacon Red Body White Flash RoLP Base EN54-23 W-2.4 7.5



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.

Product Order Codes

8500023FULL-0023 RoLP LX wall beacon

Symphoni LX Wall



The Symphoni LX Wall is a durable sounder beacon that is certified to EN 54-23. Boasting impressive performance and a durable design, it ensures reliability and energy efficiency. Its high sound output makes it suitable for open areas or where there is higher than normal background noise.

General Features

- Ultra low current consumption.
- Up to 7.5m coverage volume (switchable to 2.5m).
- 0.5 or 1Hz Flash rate.
- Coverage switch to 2.5m.

Product Order Codes

8500043FULL-0043 Symphoni LX Wall



Symphoni LX WPWall



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

General Features

- Ultra low current consumption.
- Up to 7.5m coverage volume (switchable to 2.5m).
- 0.5 or 1Hz Flash rate.
- Coverage switch to 2.5m.

Product Order Codes

8500048FULL-0048 Symphoni LX WPWall

Sounders / Beacons

H201 Electronic Sounder



The H201 is a sounder indicating device for fire indication systems compliant with standard EN 54-3.

It emits an acoustic signal selectable from the 32 options, and has a trimmer for adjusting the volume.

Product Order Codes

576.501.071 H201 Electronic sounder

HS201 Electronic Sounder / Beacon



The HS201 is a sounder-beacon indicating device for fire indication systems compliant with standard EN 54-3.

It emits an acoustic signal selectable from the 32 options, and has a trimmer for adjusting the volume.

Product Order Codes

576.501.072 HS201 Electronic sounder beacon

Vimpex IS28 MK6 Sounder



The Vimpex IS28 MK6, with its IS and ATEX approvals, is a sounder suitable for use in industrial and explosive atmospheres.

It can be used as a drop-in replacement for the Mark 5. It is approved to the following safety standards:

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

Product Order Codes

576.501.053 Vimpex IS28 MK6 Sounder

Door Release Units

24Vdc White Plastic Door Holder



General Features

- Essential piece of fire protection equipment for most installations.
- Various styles and mounting methods available, including plastic, chrome and brass.
- Integrated release button as standard.

Product Order Codes

2501033 24Vdc White Plastic door Holder

230Vac White Plastic Door Holder



General Features

- Essential piece of fire protection equipment for most installations.
- Various styles and mounting methods available, including plastic, chrome and brass.
- Integrated release button as standard.
- 230Vac low cost units available

Product Order Codes

2501034 230Vac White Plastic door Holder

Remote Indicators



Square Remote Indicator



Designed for fire detection systems requiring local indication of an individual or group of fire detectors in alarm mode, the VRLU indicator utilizes an ultra-bright LED with a wide range of illumination.

The VRLU remote indicator is able to operate with many types of conventional and analogue addressable fire detectors, frequently eliminating the requirement to stock two types of indicator. The VRLU may also be used for other applications requiring a local visual indicator. A purpose-made back box is available as a complete unit.

Product Order Codes

2500226 Square Remote Indicator

Round Remote Indicator



The round Remote Indicator is a light-weight, compact indicator for use in fire protection systems. The remote indicator comprises two parts : the base which is installed onto a wall or soffit and the lid which is fitted to the base with a bayonet lock.

Product Order Codes

2500227 Round Remote Indicator

601RIL



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.

General Features

- Dimensions (WxHxD): 86x86x16 mm.
- 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.

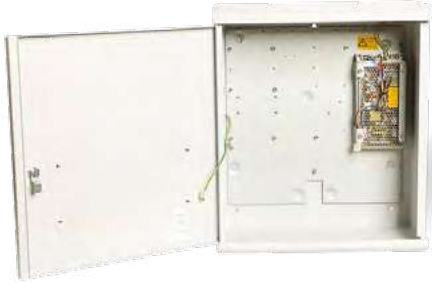
Product Order Codes

540.003.006 601RIL

Power Supply Units and Batteries



PSUA Series



These units are closely based on FireClass control panels. The units comprise these components which are common to FireClass control panels: A metal housing, containing the following components: A PSU, assembled with a PMM800 monitoring board. Also included are sundry items, such as spare fuses, in a separate bag.

Product Order Codes

557.200.731	1.9A Boxed Power Supply Unit.
557.200.732	PSUA17 5A Boxed Power Supply Unit (up to 17Ah batteries).
557.200.733	PSUA38 5A Boxed Power Supply Unit (up to 38Ah batteries).
557.202.707	FC410MIM + fixing kit for FireClass 5A/17Ah and 5A/38Ah PSU.
557.202.708	FC410MIM + fixing kit for FireClass 1.9A/7Ah PSU.

BXM Series



The BXM24/25-U and 50-U are approved by IMQ to EN 54-4:1997 + A1:2002 and EN60950-1:2001. The steel housing contains a 2.5 amp or 5 amp switch mode power supply and monitoring board and has space to accommodate 2 x 12V 17Ah sealed lead acid batteries. The 10 front panel LED's comprehensively indicate the status of the unit.

- Robust metal housing.
- Twin fused outputs.
- Temperature compensated charging.
- Deep discharge protection of batteries.
- Fault relay output.
- Size 383mm wide x 408mm high x 97mm deep.
- Weight 4.3 Kg (excluding batteries).
- Supply voltage 230VAC 50/60Hz.
- Comprehensive LED status indication.

Product Order Codes

508.031.744	BXM24/25-U - Max. 2,5A @ 27,6VDC
508.031.745	BXM24/50-U - Max. 5A @ 27,6VDC
508.031.746	BXM24/25-B - Max. 2,5A @ 27,6VDC. RS485 Bus interface for J408-8 and J424-8
508.031.747	BXM24/50-B - Max. 5A @ 27,6VDC. RS485 Bus interface for J408-8 and J424-8

Power Supply Units and Batteries

Power Supply – Battery Charger BAQ & BAW Series



The BAQ is a power supply unit and battery charger to use with appliances that require a regulated voltage of 27,6 V and a maximum current of 5,5 A. Its power output is protected against overload, short-circuit and accidental inversion of the battery polarity.

Features

- Input Voltage: 230 VAC, -15% /+10%, 50/60Hz.,
110VAC -15%/+10% 60Hz for BAW Models
- Output Voltage: 27,6VDC, •1% / +1%.
- Max. battery size (charge):
BAW50T24 = 2 x 12V - 17Ah max.
BAW75T24 = 2 x 12V - 17Ah max.
BAQ140T24 = 2 x 12V - 17Ah max.
- Operating Temperature: -5° to +40°C.
- Dimensions (W x H x D)
BAW50T24 = 129 x 38 x 98 mm
BAW75T24 = 159 x 38 x 97 mm
BAQ140T24 = 205 x 38 x 98 mm
- Weight: 0.5Kg BAW50T24 and BAW75T24, 0.7Kg BAQ140T24

Product Order Codes

- | | |
|--------------------|---|
| 508.031.752 | BAW50T24 Switching power supply / battery charger -
Max. 1,8A @ 27,6VDC |
| 508.031.753 | BAW75T24 Switching power supply / battery charger -
Max. 2,7A @ 27,6VDC |
| 508.031.750 | BAQ140T24 Switching power supply / battery charger -
Max. 5,5A @ 27,6VDC |

Battery



Product Order Codes

- | | |
|-----------------|----------------------------|
| PS-1221 | 12 Volt 2.1 Ampere Battery |
| PS-1230 | 12 Volt 3 Ampere Battery |
| PS-1270 | 12 Volt 7 Ampere Battery |
| PS-12120 | 12 Volt 12 Ampere Battery |
| PS-12170 | 12 Volt 17 Ampere Battery |
| PS-12260 | 12 Volt 26 Ampere Battery |
| PS-12380 | 12 Volt 38 Ampere Battery |
| PS-12650 | 12 Volt 65 Ampere Battery |
| PS-6100 | 6 Volt 10 Ampere Battery |

Installation Accessories



Installation Accessories

Detector Address Flags (PK100)



The FC460 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 of the 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.

General Features

- Provides clear identification of address.
- Colour coded.
- Flag remains on base

Product Order Codes

516.800.915	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

Call Point & 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.

General Features

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

Product Order Codes

Zone 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

Address Labels

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

Installation Accessories

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.

The UNIVERSAL STOPPER is suitable for all callpoints up to 100 mm square.

General Features

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

Product Order Codes

STI-13010FR	UNIVERSAL STOPPER flush mount
STI-13020FR	UNIVERSAL STOPPER flush mount with sounder
STI-13120FR	UNIVERSAL STOPPER surface mount with sounder
STI-13110FR	Indoor or Outdoor UNIVERSAL STOPPER surface mount
515.001.034	STOPPER II SURFACE - RED
515.001.035	Weatherproof STOPPER II Surface mount - Red
515.001.033	IPO36 Break Seal Kit STI/BS - available in packs of 10

A4 Document Box



An A4 sized box ideal for the safe keeping of important fire system documents and log books. Formed from red powder coated steel with a cam lock. The box is branded FireClass with a white FIRE logo. 2 Keys are provided and all units are keyed alike. Dimensions 300 x 235 x 50 mm (HxWxD)

Product Order Codes

557.202.720	Fire Document Box FireClass
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Installation Accessories

Testifire Smoke/Heat/CO Tester



Testifire is a 3 in 1 tool which represents the next generation of detector testing enabling smoke, heat and CO testing from one device. Latest technology stimuli production and delivery renders the product suitable for testing complex multi sensors to basic single sensor detectors.

Its advanced design allows for single, sequential or simultaneous stimuli generation. This ensures each type of detector can be functionally tested in an efficient manner.

Testifire eliminates the need for pressurised canisters by using replaceable capsules. It addresses global warming concerns associated with aerosols reducing waste and transport bulk.

General Features

- Provides clear identification of address.
- Colour coded.
- Flag remains on base.

Product Order Codes

517.001.276 Testifire smoke, heat & CO tester with batteries and charger

Testifire Smoke Capsule (Pk6)



6 x Replacement CO capsules for use with Testifire.

Product Order Codes

517.001.237

Testifire Smoke Capsule (Pk6)



6 x Replacement CO capsules for use with Testifire.

Product Order Codes

517.001.238

Detector Test Equipment

Spare Battery Baton



NiMH Battery Baton for use with Testifire and Solo Cordless Heat Detector Tester.

Product Order Codes

517.001.273 Solo 770 Battery Baton 3000mAh

Spare Baton Charger



Fast Charger for use with Solo Battery Batons.

Product Order Codes

517.001.274 Solo 727 Battery Charger
(for use with Solo 770 only)

Storage Bag



Product Order Codes

517.001.264 Storage Bag

Testifire Smoke/Heat Tester



Includes: 1 x Testifire Smoke & Heat Detector Tester.
1 x Testifire Smoke Capsule.
2 x Solo Battery Batons.
1 x Solo Battery Charger.

Product Order Codes

517.001.278 Testifire smoke & heat tester with
batteries and charger

Solo Smoke Detector Tester



- Non flammable.
- Fast activation.

Product Order Codes

517.001.279	Solo A10s-001 250ml
517.001.280	Solo A10-001 150ml

Solo CO Detector Tester



- Designed for use with Solo Dispenser.
- Genuine, non-flammable CO stimulus.

Product Order Codes

517.001.262	Solo CO detector tester
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Solo330 Smoke/CO Aerosol Dispenser



- 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.
- Designed for use with Solo Dispenser.

Product Order Codes

517.001.255

Cordless Heat Detector Tester



Battery powered

- No cables, trailing leads or hanging wires.
- Suits fixed temperature, rate of rise and combination detectors up to 194oF / 90 oC.
- Lightweight and simple to use.
- Universal design suits wide range of detectors.
- Transparent cup for clear view of detector LED.
- Designed for use at height, angles or low level.

Includes: 1 x Solo Heat Detector Tester
1 x Solo Battery Charger.
2 x Solo Battery Batons.

Product Order Codes

517.001.277	Solo cordless heat detector tester with batteries and charger
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Detector Test Equipment

Solo Universal Removal Tool



- Universal Solo design suits wide range of detectors.
- Suitable for use at / from angles.

Product Order Codes

517.001.240

Telescopic Extension Pole



Product Order Codes

517.001.230 SOLO100

Extension Pole



A 1.13 metre Solo Extension Pole which can be used on its own or fitted to the Solo.

Product Order Codes

517.001.226 SOLO101

Adaptor Tube



Adaptor for Solo Access Poles to allow fitting 800RT Detector Removal Tool.

Product Order Codes

517.001.224 SOLO704

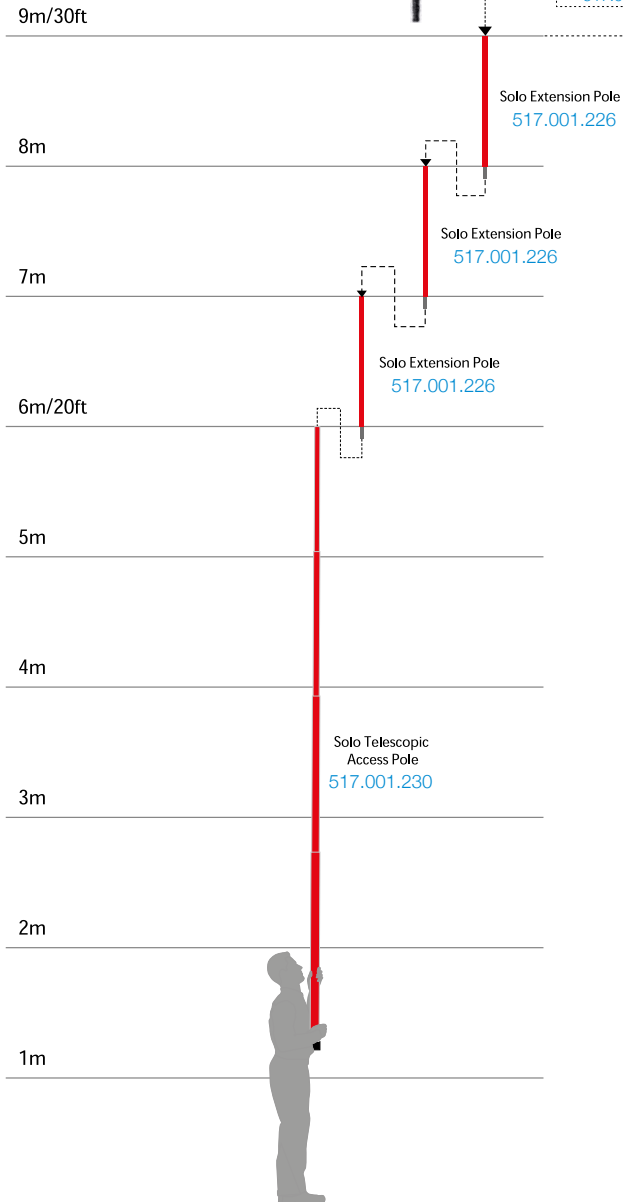
Detector Removal Tool



Compatible with FC400 and FC460 Series detectors.

Product Order Codes

516.800.917 800RT



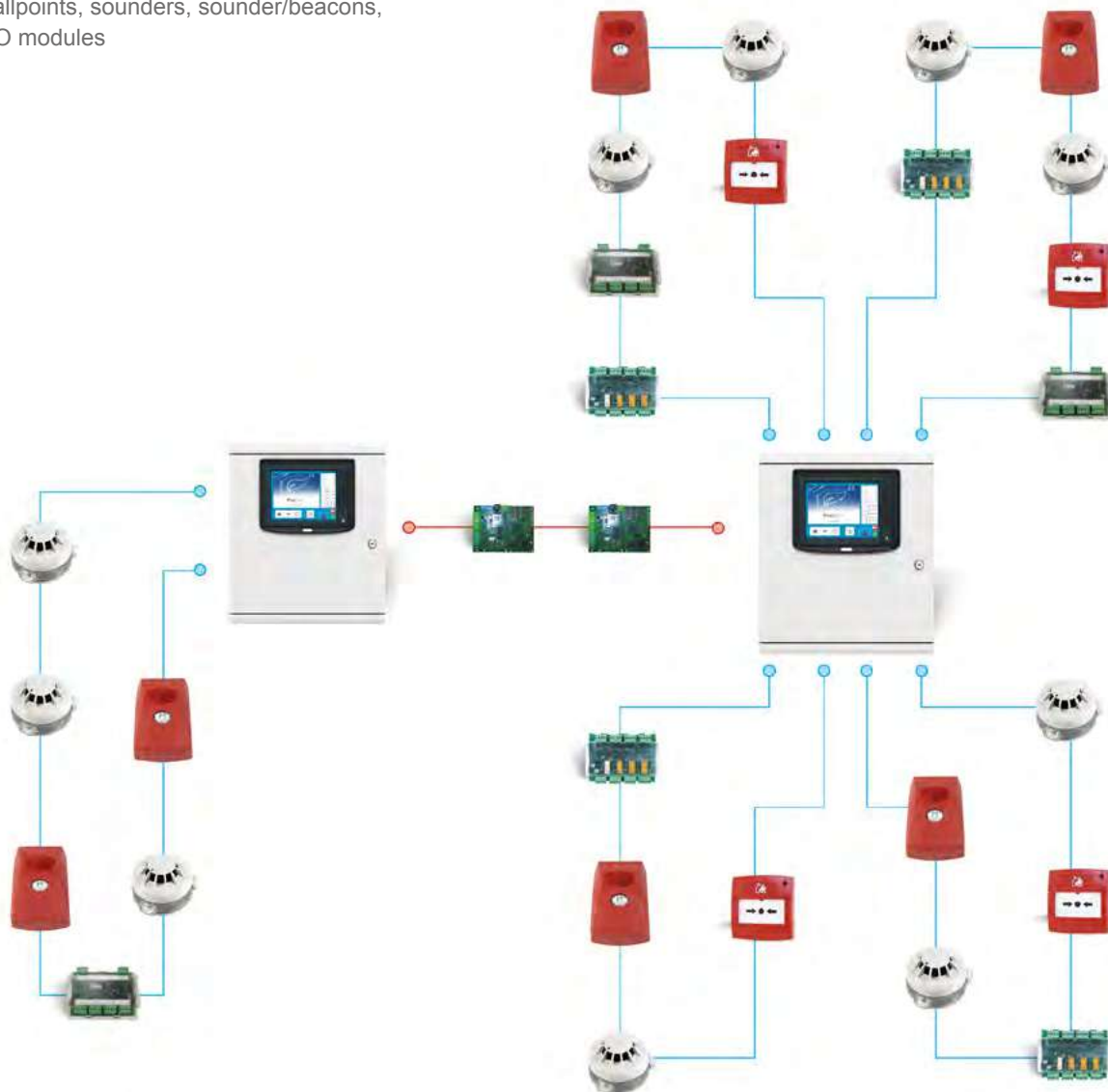
Solo Poles Access Height

Part No.	Access Height (approx. max.)
517.001.230	6m (20ft)
517.001.230 + 517.001.226 (x 1)	7m (23ft)
517.001.230 + 517.001.226 (x 2)	8m (26.25ft)
517.001.230 + 517.001.226 (x 3)	9m (30ft)



FireClass EN54-13 Approved Addressable System

FireClass addressable system composed by a 1 loop panel and a 4 loop panel in a network. In the loops there are detectors, callpoints, sounders, sounder/beacons, I/O modules



Product images shown are sample images only and do not represent the complete product portfolio.



Public Address and Voice Alarm Systems

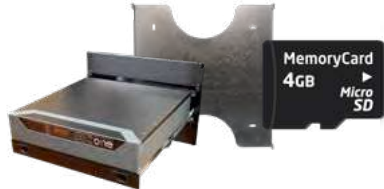


Public Address and Voice Alarm Systems



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, or 4 class D amplifiers of 250 W per channel.
- Audio Matrix 7x8 (digital up to 39x2014).



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



PA/VA System Accessories

- Wide range of accessories which can be used for both the NEO and ONE system



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 Accessories

- Battery charger
- Rack and wall mounting cabinets



Speakers

- Full range of speakers for different requirements
- Compliant with EN54 part 24
- Indoor and outdoor models

NEO SYSTEM



General Information

The NEO 8060 is a compact EN 54-16 certified PAVA 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.



General 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, or 4 class D amplifiers of 250 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).

Product Order Code

590.001.001 NEO8060 Public Address and Voice Alarm System

NEO Extension Controllers

NEO4250



The NEO Extension 4250 is an extension controller and a 4x250W amplifier or 2x500W amplifier for the compact EN 54-16 NEO PAVA system.

General 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.

Product Order Codes

590.001.002 NEO4250E- Extension Controller + 4 x 250W Amplifier

NEO4500E



The NEO Extension 4500 is an extension controller and a 4x500W amplifier or 2x1000W amplifier for the compact EN 54-16 NEO PAVA system.

General 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.

Product Order Codes

590.001.003 NEO4500E - Extension Controller + 4 x 250W Amplifier

NEO8250



The NEO Extension 8250 is an extension unit for the EN 54-16 NEO PAVA 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.

General 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.

Product Order Codes

590.001.004 NEO8250E- Extension Controller + 8 x 250W Amplifier

NEO4500LE



The NEO Extension 4500LE is an extension unit for the EN 54-16 NEO PAVA system. This extension unit includes 4x500W class D power amplifier channels or 2x100W class D power amplifier channels at 100V/70V lines.

General 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.

Product Order Codes

590.001.005 NEO4500LE - Extension Controller + 4 x 500W @ 4Ω Amplifier

NEO System Accessories

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.

General 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.

Product Order Codes

590.001.006 ZES22

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).

Product Order Codes

590.001.007 MS40

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).

Product Order Codes

590.001.008 MS150

BTL12-45 - 45Ah 12V BATTERY



45Ah 12V battery for use with 960W battery charger slats on 24V 6A M40.

Product Order Codes

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.

Product Order Codes

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.

General Features

- It allows to connect up to 10 units together.
- Only it is necessary one CAT 5 cable for the whole devices.

Product Order Codes

590.001.012 VCC-64PSK

NEO System Accessories

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.

General 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

Product Order Codes

590.001.013 VCC-64

AT-6.0 – Constant Impedance Rotary Attenuator With Priority



Constant impedance attenuator with 5 6dB attenuation stages

General Features

- Maximum power 12W@100V and 6W@70V,
- Control input for emergency system
- For installation in universal built-in box.

Product Order Codes

590.001.014 AT-6

AT-25 – Constant Impedance Rotary Attenuator With Priority



Constant impedance attenuator with 5 6dB attenuation stages

General Features

- Maximum power 50W@100V and 25W@70V
- Control input for emergency system
- For installation in surface-mount box or in panel.

Product Order Codes

590.001.015 AT-25

AT-150 – Constant Impedance Rotary Attenuator With Priority



Constant impedance attenuator with 5 6dB attenuation stages

General Features

- Maximum power 150W @100V.
- Control input for emergency system
- For installation in universal built-in box.

Product Order Codes

590.001.016 AT-150

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.

General 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

Product Order Codes

590.005.001 NEOCTRLSW

ONE System Accessories

ONE500 – Compact Public Address and Voice Alarm System



General Information

The ONE PAVA 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.



General 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

Product Order Code

590.002.001 ONE500

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.

General Features

- Activates EN 54-4 certified function, Emergency Power System (EPS).
- Permanent installation with access control in ONE-500 unit.

Product Order Codes

590.002.002 ONE-BC1

ONE-WMA – Wall-mounting Kit for ONE-500



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.

Product Order Codes

590.002.003 ONE-WMA

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.

General 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.

Product Order Codes

590.002.002 ONERMA

ONE System Accessories

ONERMA2 – Rack Fixed Mounting Kit for 19” Rack Cabinet.



Installation support in 2U 19” rack for ONE-500 fixed.

General Features

- Fixed mounting for 19” rack.
- 19” 2U rack (including ONE-500 unit).

Product Order Codes

590.002.005 ONERMA2

PAVA System Accessories

The accessories listed below can be used with both the NEO system and the ONE system.

A1 – Paging Microphone



The A-1 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.

General 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 PAVA systems like SONORA.

Product Order Codes

590.010.001 A1

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.

General 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.

Product Order Codes

590.010.002 MPS-8Z

PAVA System Accessories

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.

General Features

- 8 zones programmable buttons.
- Can connect up to 7 units to an MPS-8Z microphone.

Operating Conditions -5 °C to +45 °C / 23 °F to 113 °F
5% to 95% relative humidity (no condensation)

Colour Grey RAL 7016 and Black RAL 9005

Dimensions (W x H x D) 86 x 75 x 200 mm / 3.4" x 2.9" x 7.9"

Accessories Fixation elements, MPS-8Z connection and label for button identification

Product Order Codes

MPS-8K MPS-8K

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.

General 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

Product Order Codes

590.010.004 VAP1

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.

General Features

- 8 software programmable buttons
- Up to 7 can be connected together
- Busy zone indicators
- Metallic chassis that provides stability and protection against damage.
- Local power supply

Product Order Codes

590.010.005 VAP-8K

VAP-1EC – Blank Block for Voice Alarm Panel



Using VAP in its 4U and 6U racks. Below ONE500 when installed on the wall.

General Features

- Using VAP-1 in its 4U and 6U racks.
- Below ONE500 when installed on the wall.

Product Order Codes

590.010.006 VAP-1EC

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.

General 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. 180° opening style.
- Wiring hole on top or bottom panel.
- Fully assembled.

Product Order Codes

590.010.007 RACK4ALT

PAVA System Accessories

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.

General 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. 180° opening style.
- Wiring hole on top or bottom panel.
- Fully assembled.

Product Order Codes

590.010.008 RACK6ALT

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.

General 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.

Product Order Codes

590.010.009 TFL2

JCI Speakers

Johnson Controls are pleased to announce that the following speakers will soon be available as part of our PAVA range and will be branded with the JCI logo.

CH32TN – 3” Ceiling Speaker



The CH-32TNN ceiling loudspeaker is designed for flush mounting in suspended ceilings and provides an even sound distribution. The loudspeaker has a built-in protection to ensure that, in the event of a fire, damage to the loudspeaker does not result in failure of the loudspeaker circuit. In this way, system integrity is maintained and ensures that loudspeakers in other areas that are connected to the same circuit can still be used to inform people of the situation.

General Features

- The loudspeaker can be easily installed by using the mounting spring attached
- Fire dome is mounted in the speaker using the sliding brackets and wing nuts
- Equipped with thermal fuse and heat-resistant, high-temperature wiring
- The loudspeaker is available with or without capacitor
- Fire dome (590.003.002) isn't included
- Compliant with EN54 part 24

Product Order Codes

590.003.001 CH32TN

CH32TNFD – 3” Fire Dome for Ceiling Speaker*



The 3” fire dome is mounted in the speaker (590.003.001) using the sliding brackets and wing nuts

Product Order Codes

590.003.002 CH32TNFD

CH42TNNFD – 5” Fire Dome for Ceiling Speaker*



The 5” fire dome is mounted in the speaker (590.003.003) using the sliding brackets and wing nuts.

Product Order Codes

590.003.004 CH42TNNFD

JCI Speakers

CH42TNN – 5” Ceiling Speaker*



The CH-42TNN ceiling loudspeaker is designed for flush mounting in suspended ceilings and provides an even sound distribution. The loudspeaker has a built-in protection to ensure that, in the event of a fire, damage to the loudspeaker does not result in failure of the loudspeaker circuit. In this way, system integrity is maintained and ensures that loudspeakers in other areas that are connected to the same circuit can still be used to inform people of the situation.

General Features

- The loudspeaker can be easily installed by using the mounting spring attached
- Fire dome is mounted in the speaker using the sliding brackets and wing nuts
- Equipped with thermal fuse and heat-resistant, high-temperature wiring
- The loudspeaker is available with or without capacitor
- Fire dome (590.003.004) isn't included
- Compliant with EN54 part 24

Product Order Codes

590.003.003 CH42TNN

DS60TN1 – 5” Wall Mount Speaker*



The DS-60TN1 is a high-performance anti-vandal 6W voice alarm cabinet loudspeaker. It provides a broad frequency response range, low distortion and high sound pressure level for accurate and intelligible broadcast of evacuation messages and high quality sound reproduction.

The unit is ideal for sound distribution in various types of commercial buildings. Its low-profile, white color design blends easily with most interiors in locations such as hotels, conference rooms, cinemas, factories and exhibitions.

General Features

- Intelligible voice and superior sound reproduction
- Robust metal enclosure
- Blends with all indoor decoration
- Simple power setting
- Easy installation
- Available with or without capacitor (Part number without "C")
- Compliant with EN54 part 24

Product Order Codes

590.003.005 DS60TN1

PCP20TN – 5” IP65 Anti-Vandal Cylindrical Projector*



The PCP-20TN is a 20W high-performance unidirectional anti-vandal projection loudspeaker. It offers high quality sound reproduction and intelligible broadcast of voice evacuation messages thanks to its high sound pressure level, low distortion and a broad frequency response range.

The unit's high IP rating ensures reliable operation over wide temperature and humidity ranges making it ideal for both indoor and outdoor applications.

General Features

- Weatherproof to allow outdoor use
- Excellent sound reproduction
- Intelligible voice broadcasting
- Compliant with EN54 part 24

Product Order Codes

590.003.006 PCP20TN

PCM20TN1 – 5” IP65 Anti-Vandal Cylindrical Projector *



The PCM-20TN1 is a 20W high-performance bidirectional projection anti-vandal loudspeaker. The unit offers high quality sound reproduction and intelligible broadcast of voice evacuation messages thanks to its high sound pressure level, low distortion and a broad frequency response range. Its high IP rating ensures reliable operations over wide temperature and humidity ranges making it ideal for both indoor and outdoor applications.

General Features

- Weatherproof to allow outdoor use
- Excellent sound reproduction
- Intelligible voice broadcasting
- Complies with EN54-24 standard

Product Order Codes

590.003.007 PCM20TN1



For more information about FireClass fire detection technology visit: www.fireclass.com

About Johnson Controls

Johnson Controls is a global leader creating a safe, comfortable and sustainable world. Our 105,000 employees create intelligent buildings, efficient energy solutions and integrated infrastructure that work seamlessly together to deliver on the promise of smart cities and communities in 150 countries. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat. We are committed to helping our customers win everywhere, every day and creating greater value for all of our stakeholders through our strategic focus on buildings.

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