FIRECLASS

Catalog Fire Detection

Product Catalog Issue 7 2024

The power behind **your mission**

Johnson Controls

FireClass is a revolutionary new class of commercial fire detection products

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.

Introducing a new class of fire detection

Comprehensive Range

FireClass provides a broad range of detection solutions. FireClass Essential conventional fire detection panel is the entry product in the FireClass panel range featuring 2 zone and 4 zone variants.

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 FC500 panels and FC MAE software to monitor various locations via IP to the FC600 range of 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 up to 8 loop FC700 panels using innovative touchscreen display technology leveraging same hardware base with FC600 panel range.

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 as removed for first fix, while 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

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3 Johnson Controls
Rua Robert Bosch, 568
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4 Johnson Controls
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07-01
Singapore 554911

Why FireClass?

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

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.

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 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.

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

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 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 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.

The full local and remote monitoring and control function of the FC501 allows remote real time visualisation of control panel loop and zone status from any location in the world, with multiple sites being monitored from one location.

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.

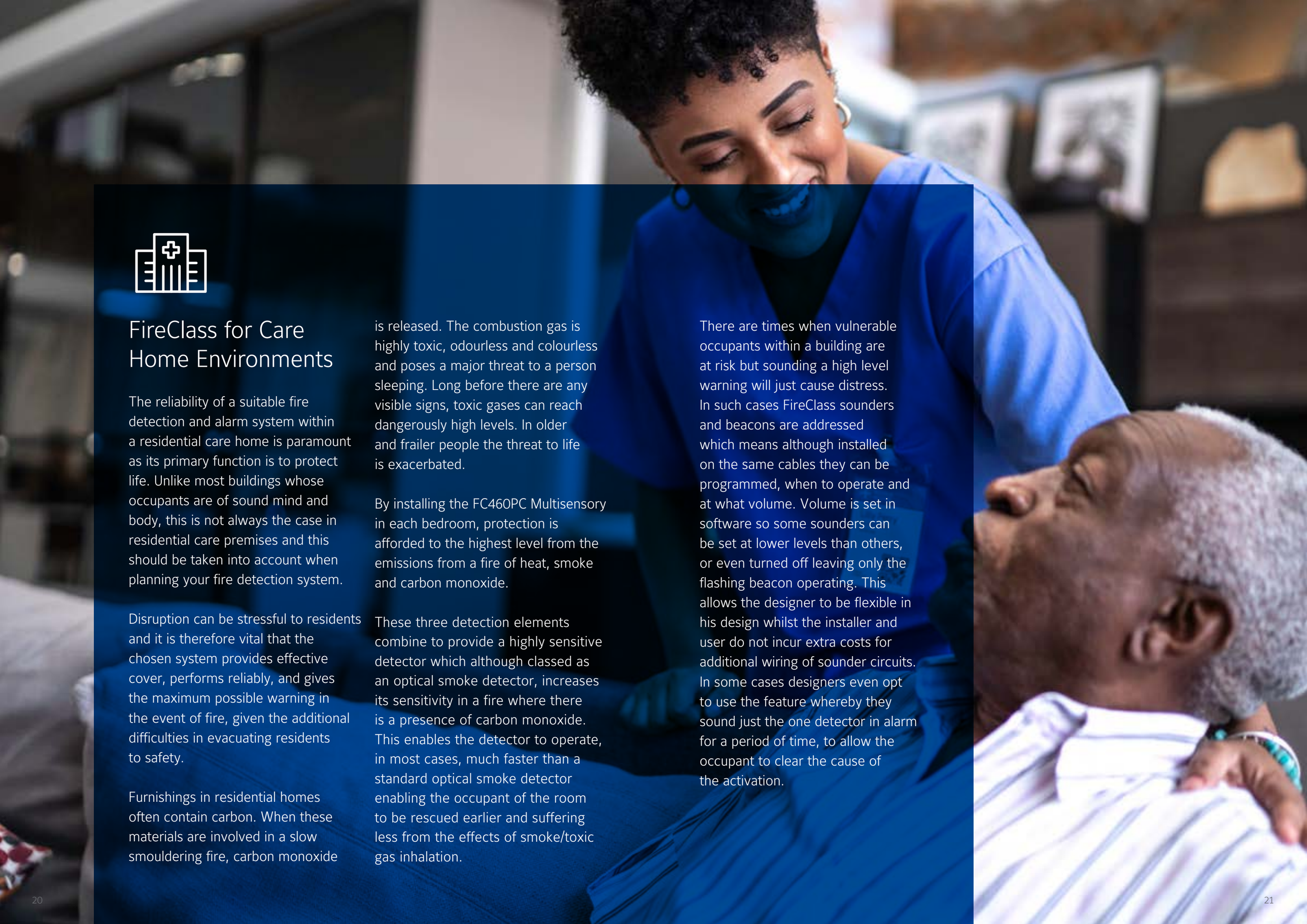
FireClass for Hotels

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 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 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.

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 FC410BDM 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.

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.

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.

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.

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.

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

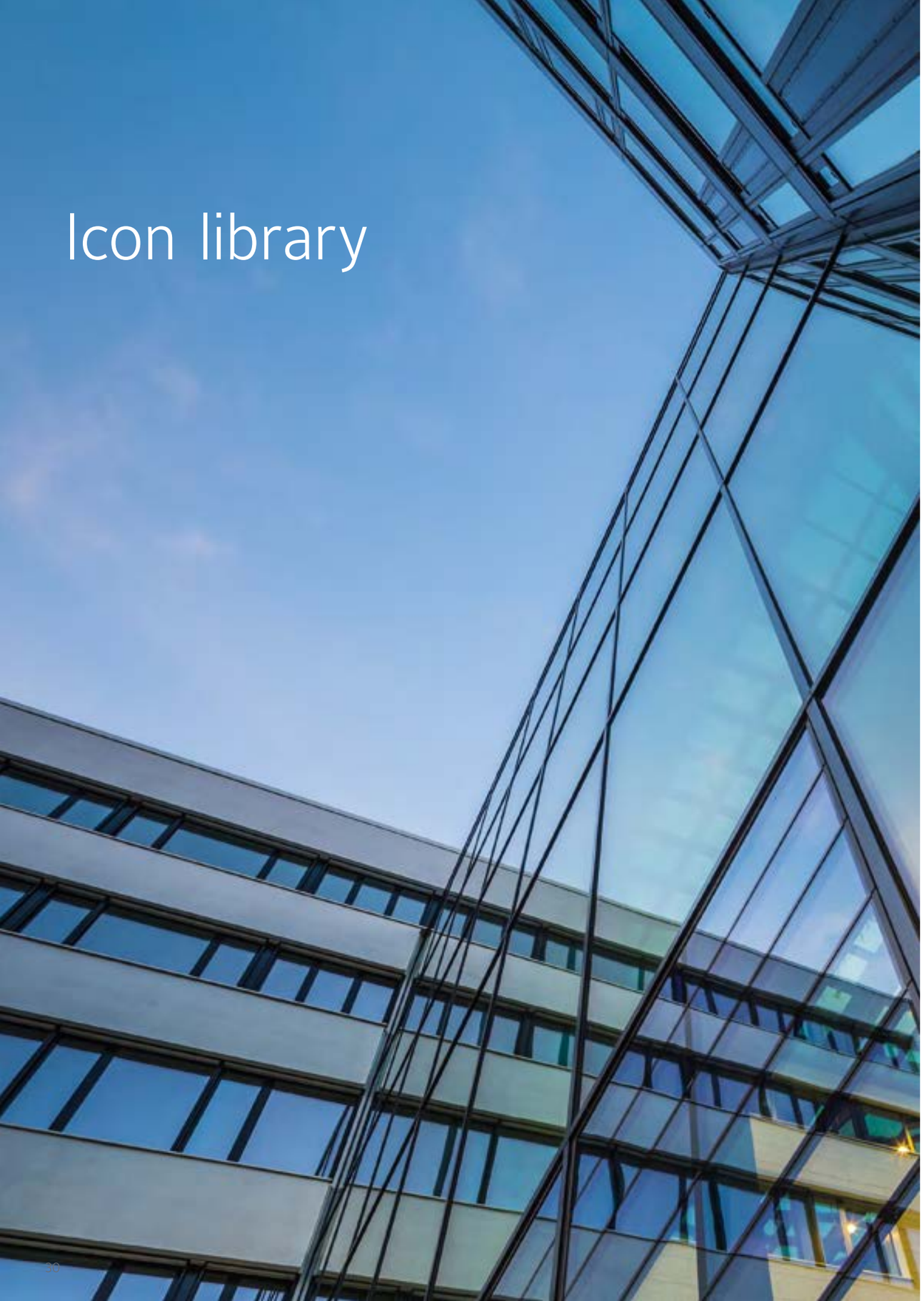
Johnson Controls Security Products

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.

tyco | American Dynamics
tyco | Bentel
tyco | CEM Systems
tyco | DSC
tyco | Exacq Cloud
tyco | Exacq
tyco | Illustra
tyco | Kantech
tyco | Visonic
tyco | Software House



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, FC503, FC506) 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

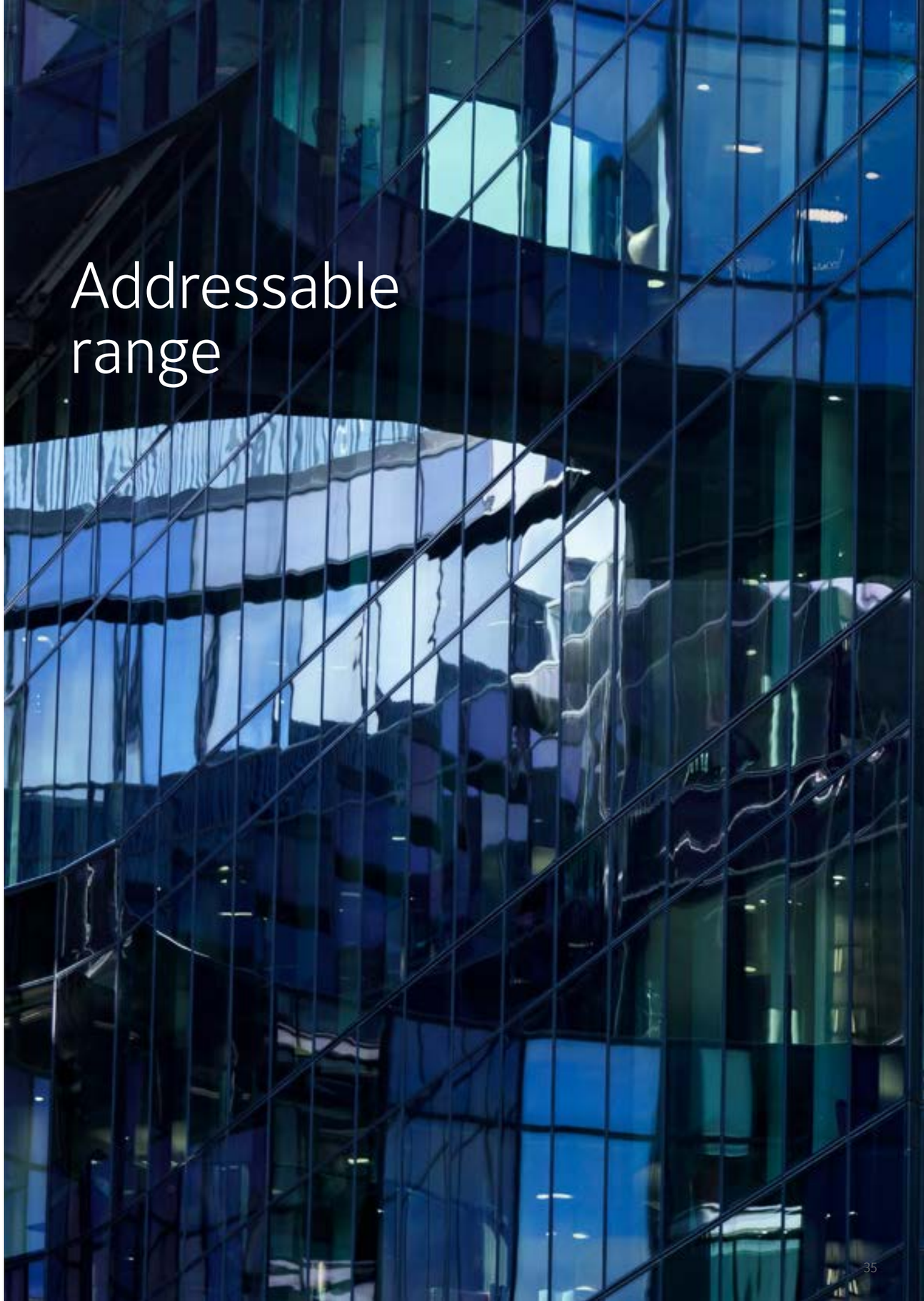
There is a comprehensive range of call points for use with FireClass addressable systems, using the robust and reliable FireClass open protocol. All the call points are designed to enable an alarm signal to be given by a plastic resettable element, which means that the call point can be easily reset 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 2700mm.



FireClass FC501

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

FireClass FC503/FC506

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

FC600 Panels

- Colour LCD display with 32 zonal LEDs.
- Simple to operate user interface.
- Flexible loop configurations with up to 1A current to increase use of loop power and address capacity.

FC700

- Highly featured two or eight loop digital addressable fire alarm system
- 8.4" TFT colour touch screen multilingual user interface
- Flexible single or dual hardware loop configurations
- Up to 1,000 devices per panel

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.

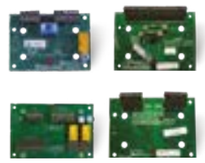
FireClass FC460 Detection

- 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.

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.



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.

Call Points

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

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 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

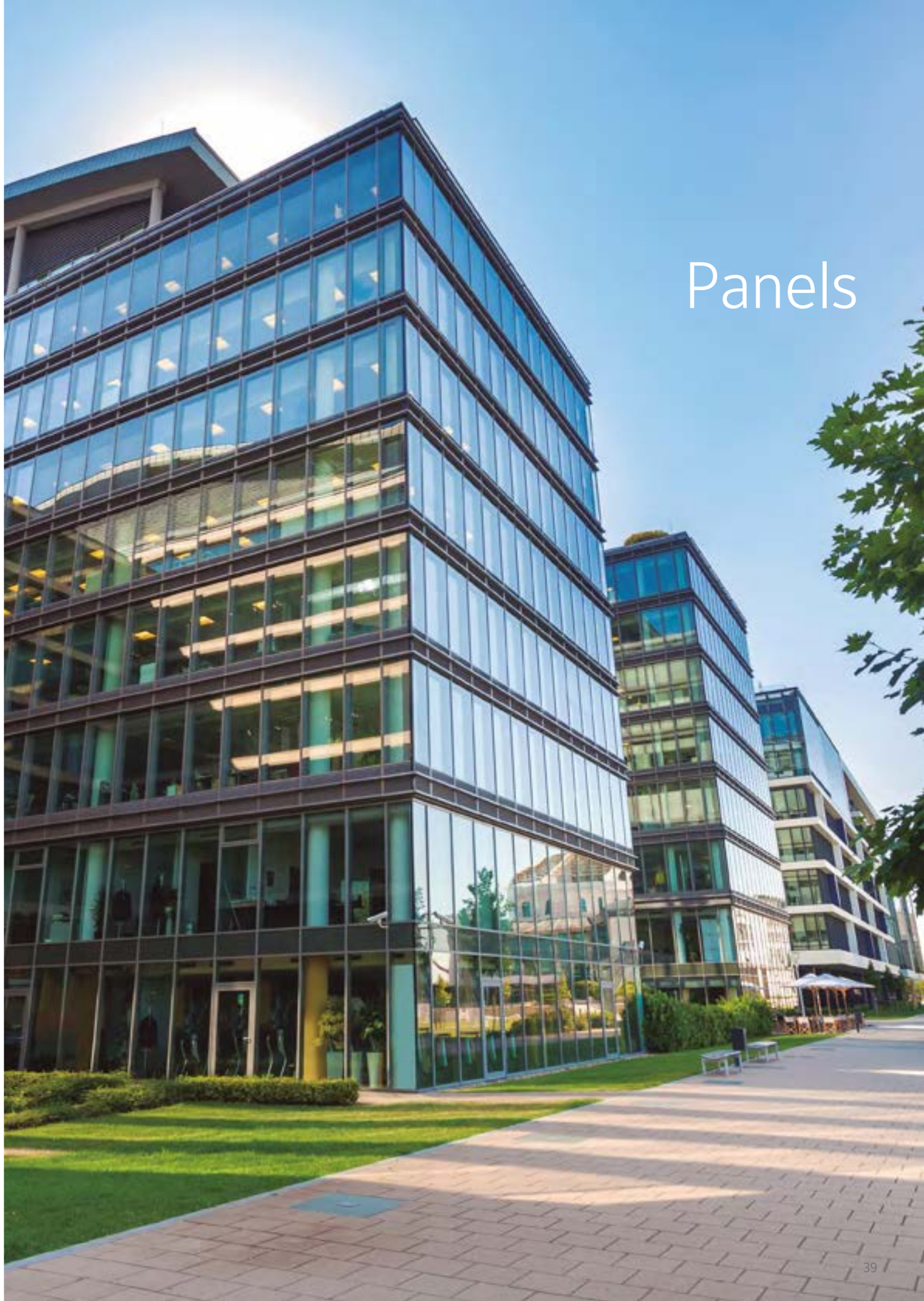
FireClass provides an open protocol solution widely available throughout the market via trade and distribution specialists ensuring freedom of choice for installers and end users. Easy to use programming software is available to installers and end users, with the majority of service functions available 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.



FC500 Panels

FC501

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.

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.

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
57.200.727	FC500 Repeater

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
57.200.727	FC500 Repeater

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
57.200.727	FC500 Repeater

FC500 Panels

FireClass FC503 and FC506 Addressable Panels

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

FC500 Panels 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

FC500 Panels 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-FC501Spare 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

FC600 Panels

FC602S Panels

The FC602S is a compact two-loop FireClass networkable panel with a shallow housing. It can have two standard-power loops or one high-power loop with each panel having a maximum of 250 addresses

The panel features a colour LCD display with 32 zonal LEDs, and has a maximum capacity of 17Ah batteries. The FC602S panel is also available as a Scandinavian variant with fireman's keyswitch.

General Features

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

Product Order Codes	
557.200.650	FC602S 1-2 Loop FireClass Panel Shallow
557.200.652	FC602S 1-2 Loop FireClass Panel Shallow Scandinavian

FC604S Panels

The FC604S is a four loop FireClass networkable panel with a shallow housing.

This panel can have four standard-power loops or two high-power loops with each panel having a maximum of 500 addresses. It features a colour LCD display with 32 zonal LEDs, and has a maximum capacity of 17 Ah batteries. The FC604S panel is also available as a Scandinavian variant with fireman's keyswitch.

General Features

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

Product Order Codes	
557.200.651	FC604S 2-4 Loop FireClass Panel Shallow
557.200.653	FC604S 2-4 Loop FireClass Panel Shallow Scandinavian

FC600 Panels

FC600 AC and DC Repeaters

FC32AR 32 zone AC Repeater

The FC600 range of repeaters include both AC and DC powered models, featuring a colour LCD display with 32 LED zonal display.

Both repeaters are also available as a Scandinavian variant with fireman's keyswitch.

General Features

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

FC32AR 32 zone AC Repeater Scandinavian

FC32DR 32 zone DC Repeater

FC32DR 32 zone DC Repeater Scandinavian

Product Order Codes	
557.200.654	FC32AR 32 zone AC Repeater
557.200.655	FC32DR 32 zone DC Repeater
557.200.656	FC32AR 32 zone AC Repeater Scandinavian
557.200.657	FC32DR 32 zone DC Repeater Scandinavian

FC600 range - Product Order Codes for accessories and housings

Order codes for accessories and housings	
557.200.658	FCXB-S ancillary housing Scandinavian
557.200.960	FC-ANC ancillary housing
557.200.963	FC-ANC-E empty ancillary housing
557.202.872	P-DHL Document Holder for Ancillary panels
557.202.844	PNI800 - Network Interface slot card
557.202.081	FOM800 Fibre optic module for use with PNI800
557.202.100	FB800 15WAY fuse board

Order codes for spares	
508.031.750	BAQ140T24 Switching power supply and battery charger - Max. 5,5A @ 27,6 VDC
508.031.753	BAW75T24 Switching power supply and battery charger - Max. 2,7A @ 27,6 VDC
557.200.661	Spare FC-FI-1 FireClass Field Interface (1-2 Loop)
557.200.961	Spare FC-FI FireClass Field Interface (2-4 Loop)
557.200.663	Spare Display FC-CUI PCBA
557.200.664	Spare Display FC-CUI-S PCBA Scandinavian
557.200.665	Spare FC-CUI-R Repeater Display PCBA
557.200.666	Spare FC-CUI-RS Repeater Display PCBA Scandinavian

Order codes for mechanical parts	
557.200.752	Semi flush fire alarm panel bezel stainless steel 480 x 410 mm
557.200.757	Semi flush fire alarm panel steel bezel painted 480 x 410 mm
557.202.807	P-EXP panel expansion kit
557.202.921	Mounting plate for panels
PS-12170	12V 17 A/H SLA BATTERY

Order codes for CUI and zonal display inserts	
557.202.924	Blank CUI inserts - 2x A4 sheet with 6 pcs each

FC700 Panels

FireClass FC702 Addressable Panel

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
557.200.950	FC702D - One HP or two SP Loop FireClass Panel deep housing
557.200.954	FC1DS Fully Functional Repeater
557.200.955	FC1D2 Display Only Repeater
557.200.957	FCZ4DS FireClass40ZoneDisplay
557.200.958	FCZ8DS FireClass80ZoneDisplay
557.200.960	FC-ANC Ancillary Housing
557.200.961	FC-FI FireClass Field Interface
557.200.962	FireClass RFID cards, 5 units
557.200.963	FC-ANC-E Empty Ancillary Housing
557.200.965	FC Language inserts Dutch, 4pcs
557.200.967	FC Inserts with Icons, 4pcs
557.200.971	FireClass Zonal Display Inserts
557.202.081	FOM800 - Fibre optic module for use with PNI800
557.202.806	CWJB - Cavity Wall Two Gang Junction Box
557.202.844	PNI800 - Network Interface slot card
557.202.859	POS800-S: fibre optic switch single mode
557.202.860	PCS800: FireClass Ethernet switch
557.202.862	POS800-M: fibre optic switch multimode

FireClass FC708 Addressable Panel

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
557.200.952	FC718D - Two HP or four SP loop, expandable to eight loop, FireClass Panel
557.200.954	FC1DS Fully Functional Repeater
557.200.955	FC1D2 Display Only Repeater
557.200.957	FCZ4DS FireClass40ZoneDisplay
557.200.958	FCZ8DS FireClass80ZoneDisplay
557.200.960	FC-ANC Ancillary Housing
557.200.961	FC-FI FireClass Field Interface
557.200.962	FireClass RFID cards, 5 units
557.200.963	FC-ANC-E Empty Ancillary Housing
557.200.965	FC Language inserts Dutch, 4pcs
557.200.967	FC Inserts with Icons, 4pcs
557.200.971	FireClass Zonal Display Inserts
557.202.081	FOM800 - Fibre optic module for use with PNI800
557.202.806	CWJB - Cavity Wall Two Gang Junction Box
557.202.842	PLX800 - Two HP or four SP loop expansion slot card
557.202.844	PNI800 - Network Interface slot card
557.202.859	POS800-S: fibre optic switch single mode
557.202.860	PCS800: FireClass Ethernet switch
557.202.862	POS800-M: fibre optic switch multimode

FC600 and FC700 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 capabilties 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

Multi Purpose Interface Module

The MPM801 NexGen Multi-Purpose Interface Module is used to interface between the controller and the expansion modules through the Remote Bus. The MPM801 module is compatible with the legacy MPM800 module, except that the MPM801 module does not include the LCD or the keyboard interface. The MPM801 module provides remote connection over the new X-Bus for zonal displays such as the FCZ4DS, and FCZ8DS. The X-Bus also supports the ANN820, ANN840, and the ANN880.

Product Order Codes	
557.202.875	MPM801

20 Way Status Command Module

The COM821 is a standard user interface module that can be driven from an OCM800 or a MPM800/MPM801. The COM821 module provides 20 programmable digital input and output points for fire panels. The COM821 module is mechanically designed to fit into FC-ANC-E ancillary housings.

Features:
- 20 momentary push button switches
- 20 separate programmable indicating LEDs (yellow)
- Editable inserts for labelling button switches

Product Order Codes	
557.202.876	COM821

FCZ4DS FireClass 40 Zone Display

The FCZ4DS is a zonal LED display for FC600/FC700 systems. For every zone, an alarm or fault can be displayed by a red/yellow LED. The LEDs can be assigned to any of the zones of the panel. Up to 3 FCZ4DS can be connected to a fire detection and alarm panel.

Product Order Codes	
557.200.957	FCZ4DS FireClass 40 Zone Display

FC600 and FC700 Panel Accessories

FCZ8DS FireClass 80 Zone Display

The FCZ8DS is a zonal LED display for FC600/FC700 systems. For every zone an alarm can be displayed by a red LED. The FCZ8DS contains 80 LEDs that can be assigned to any of the zones of the panel. Up to 3 FCZ8DS can be connected to a fire detection and alarm panel so that the status of all 240 software zones of the panel can be displayed.

Product Order Codes	
557.200.958	FCZ8DS FireClass 80 Zone Display

Fuse Board

The FB800 fuse board provides terminations for 15 fused 500mA 24Vd coutput 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

FC-EAS Evacuation Alert System Panel

FC-EAS Evacuation Alert System Panel

The FireClass FC-EAS Evacuation Alert System is an addressable panel that uses FC600 technology. It can have four standard power loops or two high-power loops, and each panel can have a maximum of 500 addresses. This provides the flexibility to allocate all available power, and 250 addresses, to the high-power loop, or to share resources across two shared power loops. The panel has a shallow housing that can accommodate batteries with a maximum capacity of up to 17Ah.

The user interface has two rows of toggle switches, LEDs, and floor labels that support up to 16 floors for each panel. It also features a small status module with three status LEDs. The entire system can be extended by networking with the FC-EAS-BB Evacuation Alert System Black Box panel or additional FC-EAS Evacuation Alert System panels. The FC-EAS-BB Evacuation Alert System Black Box panel offers the same functionality as a full FC-EAS Evacuation Alert System panel and has a plain door with a small status module only. To meet the requirements stipulated by BS8629, the FC-EAS panel can be enclosed inside an EACIE enclosure for Evacuation Alert System panel from Gerda.

General Features

- BS8629 compliant Evacuation Alert System.
- Build on FC600 technology, using EN54 approved components.
- EACIE Enclosure available.
- Black box solution available.
- Complete range of supported devices and accessories.
- Fully compliant with BS8629
- Two rows of toggle switches, LEDs and floor labels
- Simple to operate user interface
- Flexible loop configurations with up to 1A current to increase use of loop power and address capacity
- Comprehensive point management
- 10000 event log
- Broad special cause-and-effect programming
- Extensive range of supported VID and VAD devices
- Automatic battery test
- Compact housing
- Black box solution
- EACIE enclosure for Evacuation Alert System panel from Gerda
- Easy print labels to mark individual floors

Product Order Codes	
557.200.668	FC-EAS FireClass Evacuation Alert System panel
557.200.669	FC-EAS-BB FireClass Evacuation Alert System Black Box panel
557.202.926	EACIE Enclosure for Evacuation Alert System panel
Ordering codes for spares	
557.202.927	ESM Module A PCBA with 8x1 SW 8x2 LEDs
557.202.928	ESM Module B PCBA with 3 LEDs
Battery Box Options	
508.032.036	Cabinet for spare 38 Ah batteries
557.202.869	PRO-RCK cable assembly

Graphics Software

FireClass Graphics Software

FireClass Graphics is a new client/server emergency management system and fire detection graphical user interface designed for use with the FC600 and FC700 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	
557.202.721	FCG-001 Single panel including dongle and software
557.202.722	FCG-002 1-4 panels including dongle and software TLI800EN and Power supply
557.202.723	FCG-003 1-10 panels including dongle and software TLI800EN and Power supply
557.202.724	FCG-004 1-24 panels including dongle and software TLI800EN and Power supply
557.202.725	FCG-005 Additional client licenses
508.070.002	FCG Additional Panel Licence 2-4 Panels
508.070.003	FCG Additional Panel Licence 5-10 Panels
508.070.004	FCG Additional Panel Licence 11-24 Panels
508.070.006	FCG Additional Panel Licence 25-50 Panels
508.070.007	FCG Additional Panel Licence 51-99 Panels
508.070.005	FCG Additional Client licence (work station over TCP/IP)

SafeLINC Digital Solutions

SafeLINC

General Features

- Monitor systems from anywhere
- Improve service efficiency
- Streamline inspection, maintenance and commissioning
- Use with IOS, Android, Safari and Google Chrome

SafeLINC is a real-time, life safety information solution that connects customers to their FireClass fire panels via the cloud. By providing remote access to vital alarm and event information, SafeLINC helps customers to manage emergencies more effectively, keep systems in top working order and better protect people and property.

For maximum installation flexibility, CSG is available for mounting on an external enclosure or internal to the panel. It connects to the fire alarm control unit via ethernet or serial connection and to the cloud using the customer's LAN or with the cellular module. One CSG is required per networked system.

Note: The internal CSG is not EN54-21 approved.

The web-based user interface securely connects to the cloud platform to receive and display real-time event data. Users can view and manage all workspaces they are responsible for in one location. From the user interface, workspace owners can control access rights, account users, mobile devices and set notification and language preferences. Users can also view, search and filter current and historical event data using Chrome or Safari web-browsers.

Using the SafeLINC mobile app, push notifications provide alerts when the status of a fire panel changes and the ability to view real-time event information from anywhere means a user can monitor their systems remotely and always be aware of the status of their fire systems. Users can also access current and historical event data from the app.

An optional cellular module is also available, allowing customers to connect their gateway to the internet wirelessly if ethernet is not available, or as a backup if an issue causes the ethernet connection to be lost. The 4G module includes an antenna kit to receive a wireless signal and there are 3 extension kits available in 4.57m, 7.62m and 15.24m allowing users to place the antenna further away from the module to optimise the signal coverage.

(Note – SIM card must be purchased separately from a local supplier in accordance with a user's needs)

SafeLINC Connected Service Gateway

SafeLINC Connected Service Gateway

SafeLINC for FireClass uses a Connected Services Gateway (CSG) to allow customers to connect their FireClass panels to the cloud via ethernet or optional cell module.

The SafeLINC desktop and mobile app have been designed to make it easy to set up and manage new users. Customers can choose which events they receive notifications for and how, giving them the flexibility to receive notifications and check systems from work, at home and even on the road.

General Features

- Easily monitor and manage multiple sites from one location
- View and search current and historical event log data
- Filter logs by event type and search by date
- Manage notification settings to only alert you with necessary information
- Meets the latest in GDPR and cyber security standards
- EU hosted servers
- Compatible with FC32, FC64, FC240, FC501, FC503, FC506, FC600 and FC700 panels
- Compatible with IOS, Android, Google Chrome and Safari

Product Order Codes	
557.202.132	FireClass Connected Service Gateway w/Enclosure
557.202.141	FC GW no enclosure / internal
557.202.146	FC GW no enclosure, FC500 mounting

Technical Data	
Specification	**Rating**
Electrical Data	
Voltage DC	24 V
Current DC	160 mA
Environmental	
Temperature	-5°C to 40°C, ± 2°C
Relative humidity	93%, ±2% or 3%
Weight	-

SafeLINC Cellular Module

SafeLINC Cellular Module

The optional cellular module can be used in cases where access to a LAN connection is not possible, or as a backup connection to give customers added piece of mind in the event of an issues arising with the network. The module is connected to the PCBA of FireClass Connected Service Gateway within the same housing. It includes an antenna kit for receiving a cellular signal.

A SIM card will need to be purchased separately.

General Features

- Includes antenna kit
- 4g data signal
- Can be used without a LAN connection or as a backup

Product Order Codes	
557.202.145	4G Module and Antenna Kit
557.202.142	15ft Antenna Extension Kit
557.202.143	25ft Antenna Extension Kit
557.202.144	50ft Antenna Extension Kit

Technical Data	
Specification	**Rating**
Electrical Data	
Voltage DC	24 V
Current DC	160 mA
Environmental	
Temperature	-5°C to 40°C, ± 2°C
Relative humidity	93%, ±2% or 3%
Size	62 mm x 82 mm
Weight	-
Antenna type	1/4 wave helical
Gain	3.0 dBi
Polarization	Linear vertical
Frequency range	698-2700 MHz
Azimuth beam width	Omnidirectional
Antenna length/diameter	13.1 in. (333 mm)
Connector type	RP-SMA Male

Detectors

FC460 Series Detectors

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.
- Color 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

Complimenting 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

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

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	
516.460.502	FC460P

Detector Bases

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.

Product Order Codes	
517.050.043	4B-I Isolator Base

Detector Bases

Deck Head Mounting

Where the detectors are mounted in humid and environmentally challenging situations such as marine or offshore installations, the4B•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

Isolator Base

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

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*

CTA-AP CTA Adaptor Plate

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

*Kit part contains SKU 056 and 057

Callpoints

Addressable CallPoint with Isolator

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

MCP Flush Terminal Tray

Flush Terminal Tray

Product Order Codes	
551.003	MCP Flush Terminal Tray

Addressable Fire Alarm Device Series

Addressable Fire Alarm Device Series VADs

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 Codes	
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 Codes	
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 Codes	
576.440.009(*)	FC445AVR Addressable Wall Sounder VAD IP Red

Addressable wall sounders

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 Codes	
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 Codes	
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 Codes	
576.440.005	FC445SR Addressable Wall Sounder IP

Addressable sounder VAD bases

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

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 Codes	
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 Codes	
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

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 Fire Alarm Device Series

FC442AVB Open Class Base Sounder Beacon

The FC442AVB is an addressable open class VAD sounder beacon specifically for use with FireClass addressable detectors. The base incorporates a fire alarm sounder, carrying its own address which can be monitored and controlled from the fire alarm control panel independently of the detector. Both power and communications for the sounder and detector are provided by the FireClass digital loop.

General Features

- A compact and discrete solution.
- One point of installation for detector, sounder and visual indicator.
- Reflective Sound Monitoring (RSM).
- Light is electronically monitored by the control panel.
- Automatic self-test.
- Independent addressable control of the sounder and beacon.
- Built-in line isolator.
- Select the tone, volume and flash rate.
- 15 selectable tones.
- Realistic conventional bell tone.
- 4 selectable volumes.
- 2 selectable flash rates.
- VADs and sounders are synchronised over the entire loop.
- Replace legacy FC430LPBSB.

Product Order Codes	
576.440.015	FC442AVB Addressable OC Base Sounder Beacon
557.080.001	B-CAP Blanking Cap for Sounder/ VID/VAD Bases
557.080.002	A-CON Conduit Adaptor for Sounder/VID/VAD Bases

Notes

Notes

Loop modules

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

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

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

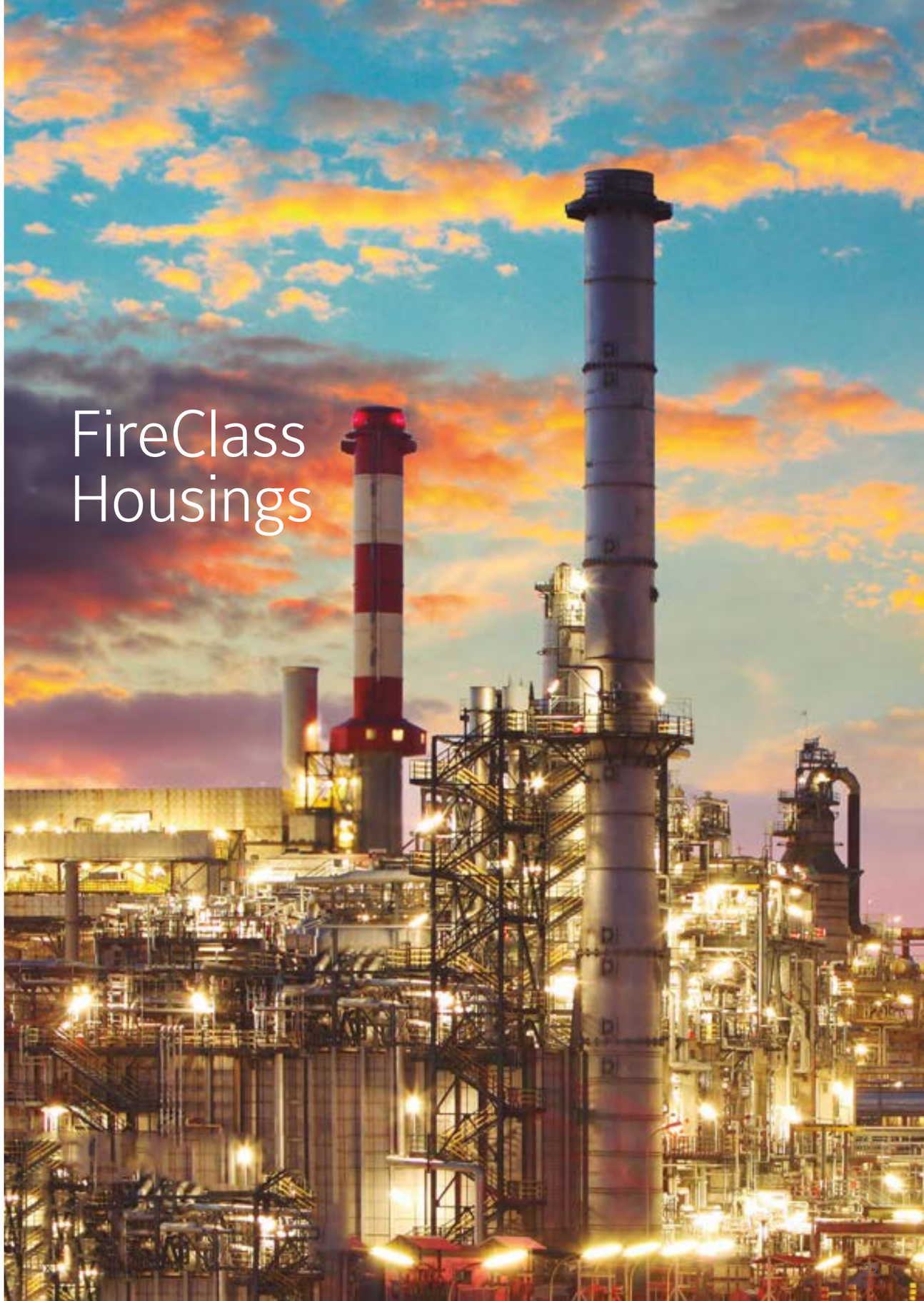
The FC410LI Line Isolator Module is designed to be used on the FireClass addressable controller loop. It monitors the line condition and when detecting a short circuit will isolate the affected section whilst allowing the rest of the loop to function normally. The purpose of the FC410LI Line Isolator 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	
555.800.763	FC410SIO

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 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]
557.200.658	FCXB-S Ancillary Housing Scandinavian
557.202.872	P-DHL Document Holder for Ancillary panels
557.200.960	FC-ANC Ancillary Housing
557.200.963	FC-ANC-E Empty Ancillary Housing

Accessories for Control Panels and Repeaters

CWJB Cavity Wall Two Gang Junction Box

Cavity Wall Two Gang Junction Box for use with FC1DS, FC1D2, FCZ4DS and FCZ8DS

Product Order Codes	
557.202.806	CWJB Cavity Wall Two Gang Junction Box

Ancillary Loop Modules Housing

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

Ancillary Module Housing

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

Product Order Codes	
557.201.401	FC470MDGB IP65

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

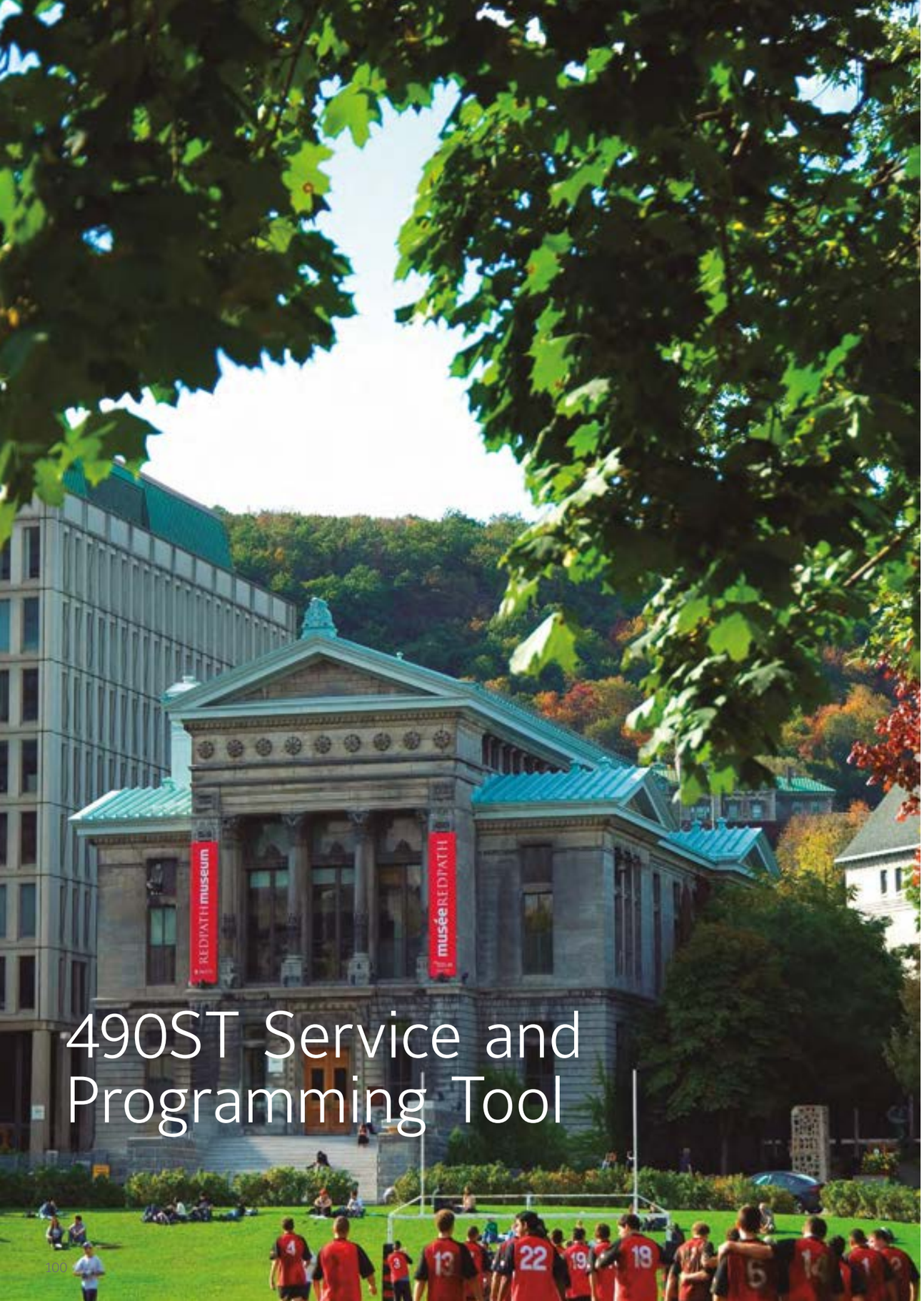
Loop modules

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

490ST Service and Programming Tool

Service and Programming Tool

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 and Accessories

VESDA LaserFOCUS Smoke Detector VLF-250 and VLF-500

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.

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 250m² (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 500m² (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.

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, VNIIPO, AFNOR, ActivFire, CE, EMC and CPD, EN 54-20 Class A/B/C

FAAST FLeXTM

General Features

- Single & Dual channel variants with area coverage up to 1,600m² (17,200 sq. ft) for single channel and 2,000m² (21,527 sq. ft) for dual channel.
- Double knock capability (Dual Channel) for coincident detection.
- Pipe length up to 270m (886ft) for single channel and 420m (1378ft) for dual channel allowing extended coverage and convenient detector mounting.
- Class A, B, C performance allowing:
  - 1 channel: 5, 15, 32 holes respectively.
  - 2 channels: 8, 28, 56 holes respectively.
- An ultrasonic flow sensing element per chamber for accurate and reliable flow detection.
- A metallic mesh filter per chamber for optics protection and improved detector longevity.
- Two configuration modes:
  - Out-of-box with built in user-friendly configuration and control mechanism for speedy commissioning.
  - Extended for enhanced user experience.
- Quiet operation (30db) with adjustable fan speed to suit various environments.
- Suitable for cold storage environments with -40°C (-40°F) operating temperature.
- Bluetooth interface with mobile device App for extended configuration options and rapid diagnostics.
- Password protected access for secured detector operation, diagnostics, and maintenance.
- IP40 rating for protection against ingress of foreign bodies.
- Onboard event log up to 2,100 events for user actions and smoke trends.

FAAST FLEX offers a highly flexible and cost-effective ASD solution for a wide range of applications such as small to medium warehouses, cold storage, elevator shafts, ceiling and underfloor voids, transformer and electrical rooms, rest rooms and the like. FAAST FLEX provides consistent detection with minimum nuisance alarms to reduce operational costs enabled by improved detection chamber design.

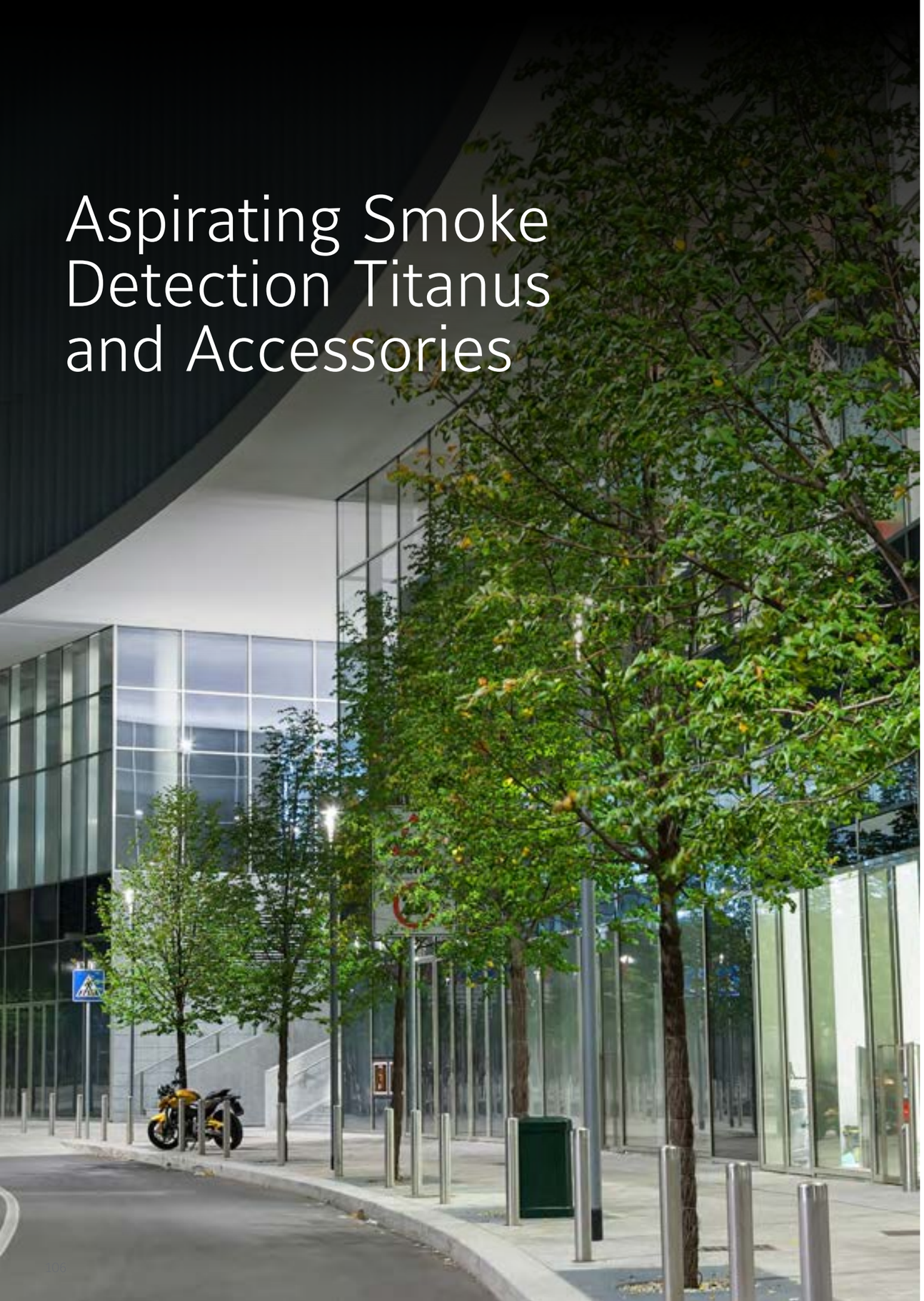
FAAST FLEX allows a high degree of flexibility through pre-engineered pipe network designs, and true out-of-the-box operation with a built-in user-friendly configuration and control mechanism. It can be configured and commissioned using a 10-line dip-switch arrangement without the need for a special tool.

Through its Bluetooth interface and associated smartphone applications, FAAST FLEX offers extended configuration options and rapid diagnostics.

Product Order Codes	
FLX-010	FAAST FLEX 1-pipe Stand-alone
FLX-020	FAAST FLEX 2-pipe Stand-alone
Optional SKU's	
FLX-SP-01	FAAST FLEX Sensing Module
FLX-SP-02	FAAST FLEX Metal Filter (pack of 6)
FLX-SP-03-EN	FAAST FLEX Front Cover (EN)
FLX-SP-05-EN	FAAST FLEX Internal Cover Set (EN)

Technical Data	
Mechanical Data	
Dimensions mm (W x H x D)	280mm X 205mm X 80.5mm
Weight	1.7Kg
Display Panel	LED
Electrical Data	
Supply Voltage	24Vdc (18 - 30Vdc)
Maximum Power Consumption	Single Channel Model: 400mA @24Vdc Dual Channel Model: 450mA @24Vdc
Relays	3 per channel, Action, Alarm and Fault 2A @30V
General Purpose Input	Reset, Disable, External Fault
Out-of-Box Configuration	DIP Switches
Detector SensitivityRange	0.05%obs/m to 6.56%obs/m (0.164%obs/ft – 21.5%obs/ft)
Ambient Conditions	
Operating Temperature	-40 °C to 55 °C
Sampled Air Temperature	-40 °C to 55 °C
Humidity	10-93% RH
Ingress Protection Rating	IP40

Aspirating Smoke Detection Titanus and Accessories



Air Sampling Unit and Accessories

TITANUS MICRO·SENS®

TITANUS MICRO·SENS®, is designed for small to medium-sized areas up to 400m² in size. This economical air sampling smoke detector is ideal for use in hotel rooms, offices, and prison cells. The optional ROOM·IDENT feature can localise fires within up to five rooms. It can be configured to use a single primary alarm or a two-stage system (pre-alarm and main alarm).

Thanks to PIPE.GUARD, HPLS light technology and LOGIC·SENS, this air sampling smoke detection system is both highly sensitive and secure against false alarms.

General Features

- Max. main alarm sensitivity 0.1% obsc./m.
- Coverage up to 400m².
- Up to 50m pipe length and up to 8 aspirating sampling ports.
- Operating temperature: -20°C bis +60°C.
- Optional bar graph smoke level display.
- Dry contacts for connection to any fire panel.
- Optional Ethernet (TCP/IP)/SNMP/data logger.
- Also available as TITANUS MICRO·SENS® cold storage and ROOM·IDENT version.

Product Order Codes		Description
AD-05-4300	DM-TM-50	Micro Sens Standard 0,50% /m sensitivity, 1 Alarm
AD-05-4000	DM-TM-10	Micro Sens Standard 0,10% /m sensitivity, 1 Alarm
AD-10-1400	FW-TM	Front Film 1 alarms f. DM-TM-x0
AD-05-4320	DM-TM-B-50	Micro Sens Standard 0,50% /m sensitivity, 1 Alarm, with bargraph
AD-05-4020	DM-TM-B-10	Micro Sens Standard 0,10% /m sensitivity, 1 Alarm, with bargraph
AD-10-1420	FW-TM-B	Front Film 1 alarms f. DM-TM-B-x0
AD-05-4531	DM-TMV-50	Micro Sens Standard 0,50% /m sensitivity, 2 Alarms
AD-05-4521	DM-TMV-10	Micro Sens Standard 0,10% /m sensitivity, 2 Alarms
AD-10-1440	FW-TMV	Front Film 2 alarms f. DM-TMV-x0
AD-05-3500	HB-TM	Micro Sens Device Basis, necessary. for each Micro Sens

Technical Data	
Mechanical Data	
Dimensions mm (W x H x D)	140 x 222 x 70
Pipe length (max.)	50m
Number of sampling points (max.)	8*
Pipe inlets	1
Area of coverage (max.)	400m²
Number of Alarm Thresholds per detector module	1
Ambient Conditions	
Temperature range	−20°C to +60°C
Temperature range, deep freeze variant	−40°C to +60°C
Rel. humidity (non-condensing)	10 up to 95%
IP Rating	IP 54
Electrical Data	
Quiescent current, starting current (1 detector module)	105 mA**, 150 mA**
Alarm current with bar graph and without bar graph	140 mA**, 110 mA**
Approvals	EN 54-20, EN 54-17

* via special project planning: 12 sampling points
** at 9 V standard fan voltage

Air Sampling Unit and Accessories

TITANUS®FUSION

General Features

- Max. fire alarm sensitivity 0.015% obsc. /m.
- System coverage up to 2 x 1,600 m².
- Operating temperature: from -30°C up to 60°C depending on version.
- Up to 2 x 160m pipe length and depending on detector types up to 1 x 100 or 2 x 72 sampling ports.
- Free slots for integration of additional modules such as bus modules.
- Pre-alarm optional via 2nd detector module.
- Sound pressure level from 23dB(A) for SILENT version.

TITANUS®FUSION, is an affordable high-end air sampling smoke detector that combines decades of experience in early fire detection with innovative engineering. The smoke detection system offers a great deal of planning flexibility: it can reliably monitor a wide range of areas of up to 3,200m² in size and can detect even the tiniest quantities of smoke particles early on.

TITANUS®FUSION is a modular ASD and consist of the basic device (1), one or two detector modules (2) and an adhesive front film sheet (3) which can be selected from the below combinations.

Product Order Codes		Description
AD-05-1140	TF-1	Basic Device FUSION, 1 alarm per detector Type DM-TF-xx-L
AD-05-1145	TF-1-SL	Basic Device FUSION SILENT, 1 alarm per detector Type DM-TF-xx-L
AD-10-5610	DM-TF-50-L	Detector Module FUSION & FUSION SILENT 0,5% /m (0.15% /ft)
AD-10-5605	DM-TF-10-L	Detector Module FUSION & FUSION SILENT 0,1% /m (0.03% /ft)
AD-10-5600	DM-TF-01-L	Detector Module FUSION & FUSION SILENT 0,01% /m (0.005% /ft)
AD-10-5625	DM-TF-50-Lp	Titanus FUSION supplementary Detector Module without airflow monitoring 0,5% /m (0.15% /ft)
AD-10-5620	DM-TF-10-Lp	Titanus FUSION supplementary Detector Module without airflow monitoring 0,1% /m (0.03% /ft)
AD-10-1260	FW-TF-1	Front Film TF-1 for 1 detector, Wagner Logo
AD-10-1262	FW-TF-2	Front Film TF-2 for 2 detectors, Wagner Logo

Technical Data	
Mechanical Data	
Dimensions mm (W x H x D)	140 x 222 x 70
Pipe length (max.)	2 x 160m
Number of sampling points (max.)	1 x 100; 2 x 63 (SL: 2 x 72*)
Pipe inlets	2
Area of coverage (max.)	2 x 1,600m²
Number of Alarm Thresholds per detector module	1
Ambient Conditions	
Temperature range	−30°C to +60°C
Temperature range, silent variant	0°C to +60°C
Rel. humidity (non-condensing)	10 up to 95%
IP Rating (Optional)	IP 20 (IP 52)
Electrical Data	
Supply voltage	24 V DC (14 ..30 V DC)
Quiescent current, starting current (1 detector module)**	200 mA, 300 mA
Quiescent current, starting current (2 detector modules)**	220 mA, 320 mA
Alarm current with and without reset circuit board (1 detector module)**	20 mA, 210 mA
Alarm current with rand without reset circuit board (2 detector modules)**	20 mA, 240 mA
Approvals	EN 54-20, EN 54-17

*Fan controller FC-3 necessary, otherwise 63 ports
** at 6.9 V standard fan voltage

TITANUS PRO·SENS®

General Features

- Max. fire alarm sensitivity 0.015% obsc./m.
- System coverage up to 2 x 3,000m².
- Up to 2 x 300m pipe length and depending on detector types up to 1 x 100 or 2 x 72 holes.
- Operating temperature: from -20°C up to 60°C and -40°C depending on version.
- Free slots for integration of additional modules such as bus modules.
- Optional Ethernet (TCP/IP)/SNMP/data logger.
- Sound pressure level from 23 dB(A) for SILENT version.

TITANUS PRO·SENS® and PRO·SENS®/Net air sampling smoke detector is designed to monitor large areas. Thanks to a combination of innovative High Power Light Source (HPLS) technology and patented LOGIC·SENS fire pattern recognition, the TITANUS PRO·SENS® provides maximum sensitivity and security against false alarms even in difficult environmental conditions.

TITANUS PRO·SENS® is a modular ASD and consist of the basic device (1), one or two detector modules (2) and an adhesive front film sheet (3) which can be selected from the below combinations.

Product Order Codes		Description
AD-05-0457	TP-1/a	Basic Device Pro Sens, 1 alarm per detector (Type DM-TP-xx-L)
AD-05-0458	TP-1-SL	Basic Device Pro Sens SILENT, 1 alarm per detector (Type DM-TP-xx-L)
AD-10-5130	DM-TP-50-L	Detector Module ProSens & SILENT 0,5% /m (0.15% /ft)
AD-10-5100	DM-TP-10-L	Detector Module ProSens & SILENT 0,1% /m (0.03% /ft)
AD-10-5115	DM-TP-01-L	Detector Module ProSens & SILENT 0,01% /m (0.005% /ft)
AD-05-0467	TP-1-F/a	Basic Device Pro Sens FREEZE, 1 alarm per detector (Type DM-TP-xx-L-F)
AD-10-5200	DM-TP-50-L-F	Detector Module ProSens FREEZE 0,5% /m (0.15% /ft)
AD-10-5190	DM-TP-10-L-F	Detector Module ProSens FREEZE 0,1% /m (0.03% /ft)
AD-10-5195	DM-TP-01-L-F	Detector Module ProSens FREEZE 0,01% /m (0.005% /ft)
AD-10-1035	FW-TP-1	Front Film TP-1 1 detector, 1 alarm
AD-10-1037	FW-TP-2	Front Film TP-2 2 detectors, each 1 alarm

Technical Data	
Mechanical Data	
Dimensions mm (W x H x D)	200 x 292 x 113
Pipe length (max.)	2 x 300m
Number of sampling points (max.)	1 x 100; 2 x 63 (SL: 2 x 72**)
Pipe inlets	2
Area of coverage (max.)	2 x 3.000m²
Number of Alarm Thresholds per detector module	1
Ambient Conditions	
Temperature range	−20°C to +60°C
Temperature range, deep freeze variant	−40°C to +60°C
Rel. humidity (non-condensing)	10 up to 95%
IP Rating	IP 20 (IP 52)
Electrical Data	
Supply voltage	24 V DC (14 ..30 V DC)
Quiescent current, starting current (1 detector module)*	200 mA, 300 mA
Quiescent current, starting current (2 detector modules)*	220 mA, 320 mA
Alarm current with and without reset circuit board (1 detector module)*	20 mA, 210 mA
Alarm current with rand without reset circuit board (2 detector modules)*	20 mA, 240 mA
Approvals	EN 54-20, EN 54-17

* at 6.9 V standard fan voltage
** when using the fan board FC-3

Air Sampling Unit and Accessories

PRO·SENS®/Net

PRO·SENS®/Net is a modular ASD and consist of the basic device (1), one or two detector modules (2) and an adhesive front film sheet (3) which can be selected from the below combinations.

Product Order Codes		Description
AD-05-0462	TP-4	Basic Device Pro Sens/net, 2 alarms per detector (Type DM-TT-xx-L)
AD-05-0665	TP-5	Basic Device Pro Sens/net, 3 alarms per detector, (Type DM-TT-xx-L)
AD-05-0459	TP-4-SL	Basic Device Pro Sens/net SILENT, 2 alarms per detector (Type DM-TT-xx-L)
AD-05-0667	TP-5-SL	Basic Device Pro Sens/net SILENT, 3 alarms per detector (Type DM-TT-xx-L)
AD-05-0463	TP-4-F/a	Basic Device Pro Sens/net FREEZE, 2 alarms per detector (Type DM-TT-xx-L-F)
AD-05-0669	TP-5-F/a	Basic Device Pro Sens/net FREEZE, 3 alarms per detector (Type DM-TT-xx-L-F)
AD-10-1076	FW-TP-4	Front Film TP-4 1 detector, 2 alarms
AD-10-1077	FW-TP-5	Front Film TP-5 2 detectors, each 2 alarms
AD-10-1165	FW-TP-7	Front Film TP-7 1 detector, 3 alarms
AD-10-1167	FW-TP-8	Front Film TP-8 2 detectors, each 3 alarms
AD-10-5250	DM-TT-50-L	Detector Module TT Pro Sens/net & SILENT 0,5% /m (0.15% /ft)
AD-10-5210	DM-TT-10-L	Detector Module TT Pro Sens/net & SILENT 0,1% /m (0.03% /ft)
AD-10-5230	DM-TT-01-L	Detector Module TT Pro Sens/net & SILENT 0,01% /m (0.005% /ft)
AD-10-5320	DM-TT-50-L-F	Detector Module TT Pro Sens /net FREEZE 0,5% /m (0.15% /ft)
AD-10-5310	DM-TT-10-L-F	Detector Module TT Pro Sens /net FREEZE 0,1% /m (0.03% /ft)
AD-10-5315	DM-TT-01-L-F	Detector Module TT Pro Sens /net FREEZE 0,01% /m (0.005% /ft)

Technical Data	
Mechanical Data	
Dimensions mm (W x H x D)	200 x 292 x 113
Pipe length (max.)	2 x 300m
Number of sampling points (max.)	1 x 100; 2 x 63 (SL: 2 x 72**)
Pipe inlets	2
Area of coverage (max.)	2 x 3.000m²
Number of alarm thresholds per detector module	TP-4: 2, TP-5: 3
Ambient Conditions	
Temperature range	−20°C to +60°C
Temperature range, deep freeze variant	−40°C to +60°C
Rel. humidity (non-condensing)	10 up to 95%
IP Rating (Optional)	IP 20 (IP 52)
Electrical Data	
Supply voltage	24 V DC (14 ... 30 V DC)
Quiescent current, starting current (1 detector module) *	210 mA, 390 mA
Quiescent current, starting current (2 detector modules) *	240 mA, 400 mA
Alarm current with and without reset circuit board (1 detector module)*	20 mA, 220 mA
Alarm current with rand without reset circuit board (2 detector modules)*	20 mA, 250 mA
Approvals	EN 54-20, EN 54-17

* at 6.9 V standard fan voltage
** when using the fan board FC-3

TITANUS TOP·SENS®

The TITANUS TOP·SENS® has all the features of the PRO·SENS®, plus a network card slot to allow network capability via Ethernet / SNMP connection. This premium product includes a bar graph to display smoke density levels in the event of fire.

General Features

- Max. fire alarm sensitivity 0.015 % obsc./m
- System coverage up to 2 x 3,000m²
- Up to 2 x 300m pipe length and depending on version up to 2 x 72 holes
- Operating temperature: from -20°C up to 60°C and -40°C depending on version
- Display of info-alarm, pre-alarm and main alarm as well as bar graph display of smoke level
- Free slots for integration of additional modules such as bus modules
- Optional Ethernet/SNMP/data logger
- Sound pressure level from 23 dB(A) for SILENT version

Thanks to a combination of highly sensitive HPLS optical technology and LOGIC.SENS fire pattern recognition, the TITANUS TOP·SENS® combines maximum sensitivity and maximum security against false alarms in rooms as large as 5,760m². A second detector module can be used to create a dual detector dependency setup, or to monitor a second area independently. Each detector module can be configured with up to three alarm levels. An additional connection socket makes parallel display possible.

TITANUS TOP·SENS® is a modular ASD and consist of the basic device (1), one or two detector modules (2) and an adhesive front film sheet (3) which can be selected from the below combinations.

*) at 6.9 V standard fan voltage
**) when using the fan board FC-3

Product Order Codes		Description
AD-05-1220	TT-1/a	Basic Device Top Sens, 3 alarms, bargraph per detector (Type DM-TT-xx-L)
AD-05-1240	TT-1-SL	Basic Device TT SILENT, 3 alarms, bargraph per detector (Type DM-TT-xx-L)
AD-05-1350	TT-1-F/a	Basic Device TT FREEZE, 3 alarms, bargraph per detector (Type DM-TT-xx-L)
AD-10-1205	FW-TT-1	Front Film TT-1 for 1 detector
AD-10-1210	FW-TT-2	Front Film TT-2 for 2 detectors
AD-10-5250	DM-TT-50-L	Detector Module TT Pro Sens/net & SILENT 0,5% /m (0.15% /ft)
AD-10-5210	DM-TT-10-L	Detector Module TT Pro Sens/net & SILENT 0,1% /m (0.03% /ft)
AD-10-5230	DM-TT-01-L	Detector Module TT Pro Sens/net & SILENT 0,01% /m (0.005% /ft)
AD-10-5320	DM-TT-50-L-F	Detector Module TT Pro Sens /net FREEZE 0,5% /m (0.15% /ft)
AD-10-5310	DM-TT-10-L-F	Detector Module TT Pro Sens /net FREEZE 0,1% /m (0.03% /ft)
AD-10-5315	DM-TT-01-L-F	Detector Module TT Pro Sens /net FREEZE0,01% /m (0.005% /ft)

Technical Data	
Mechanical Data	
Dimensions mm (W x H x D)	200 x 292 x 113
Pipe length (max.)	2 x 300m
Number of sampling points (max.)	1 x 100; 2 x 63 (SL: 2 x 72**)
Pipe inlets	2
Area of coverage (max.)	2 x 3.000m²
Number of alarm thresholds per detector module	3
Ambient Conditions	
Dimensions mm (W x H x D)	200 x 292 x 113
Pipe length (max.)	2 x 300 m
Number of sampling points (max.)	1 x 100; 2 x 63 (SL: 2 x 72**)
Pipe inlets	2
Electrical Data	
Supply voltage	24 V DC (14 ... 30 V DC)
Quiescent current, starting current (1 detector module) *	200 mA, 300 mA
Quiescent current, starting current (2 detector modules) *	230 mA, 330 mA
Alarm current with and without reset circuit board (1 detector module)*	20 mA, 230 mA
Alarm current with rand without reset circuit board (2 detector modules)*	20 mA, 290 mA
Approvals	EN 54-20, EN 54-17

Air Sampling Unit and Accessories

Accessories for TITANUS MICROSENS® ASD system

TITANUS MICROSENS® ASD fire detection system can be further enhanced by adding modules to remotely indicate fire alarms and to enable web & data-based applications for the customer.

Product Code	Model	Description	Picture
AD-05-2000	DJ-TM	Response indicator, addressable	
09-20-6680	RU-1	Relay module RU-1 (5 Relay for Room Ident)	
09-20-6681	RU-2	Relay module RU-2 (Relay for Pre-Alarm output)	
09-20-6140	NU-2	Network card Micro Sens	
09-20-6400	NU-2-D	Network card Micro Sens + Datalogger	
09-20-6405	NU-2-DO	Micro Sens Datalogger only	
AD-05-3580	SP-TM-5	Air Filter for TITANUS Micro Sens (spare)	

Network adapter for TITANUS PROSENS /NET & TOPSENS® ASD system

PRO·SENS®/Net & TOP·SENS® aspirating smoke detection system has the capability to be connected to web servers and data loggers. Thus, enabling web and data-based applications for the customer.

Product Code	Model	Description	Picture
09-20-6440	NU-5	Network card TITANUS Top Sens f. TP/Net NU-5 networking only	
09-20-6445	NU-5-D	Network card TITANUS Top Sens + Datalogger f. TP/Net NU-5-D networking and datalogging	
09-20-6450	NU-5-DO	Data logger only f. TITANUS TopSens & TP/Net NU-5-DO data logger only	
09-20-6455	NU-5-D-F	Network card TITANUS Top Sens + Datalogger f. TP/Net "FREEZE" NU-5-D-F networking and datalogging	
09-20-6460	NU-5-DO-F	Data logger only f. TITANUS TopSens & TP/net "FREEZE" NU-5-DO-F data logger only	
09-20-6405	NU-2-DO	Micro Sens Datalogger only	

Special Accessories for Pipe System

Accessories to make the piping system reliable and robust.

Product Code	Model	Description	Picture
01-10-9330	AF-BR	Marking tape for Aspiration-Reducing	
01-10-9390	AF-2.0	Aspiration-Reducing film sheet 2,0mm	
01-10-9395	AF-2.5	Aspiration-Reducing film sheet 2,5mm	
01-10-9400	AF-3.0	Aspiration-Reducing film sheet 3,0mm	
01-10-9410	AF-3.2	Aspiration-Reducing film sheet 3,2mm	
01-10-9420	AF-3.4	Aspiration-Reducing film sheet 3,4mm	
01-10-9430	AF-3.6	Aspiration-Reducing film sheet 3,6mm	

Accessories to make the piping system reliable and robust.

Product Code	Model	Description	Picture
01-10-9440	AF-3.8	Aspiration-Reducing film sheet 3,8mm	
01-10-9450	AF-4.0	Aspiration-Reducing film sheet 4,0mm	
01-10-9460	AF-4.2	Aspiration-Reducing film sheet 4,2mm	
01-10-9470	AF-4.4	Aspiration-Reducing film sheet 4,4mm	
01-10-9480	AF-4.6	Aspiration-Reducing film sheet 4,6mm	
01-10-9490	AF-5.0	Aspiration-Reducing film sheet 5,0mm	
01-10-9500	AF-5.2	Aspiration-Reducing film sheet 5,2mm	

Special Accessories for Pipe System

Accessories to make the piping system reliable and robust.

Product Code	Model	Description	Picture
01-10-9510	AF-5.6	Aspiration-Reducing film sheet 5,6mm	
01-10-9520	AF-6.0	Aspiration-Reducing film sheet 6,0mm	
01-10-9530	AF-6.8	Aspiration-Reducing film sheet 6,8mm	
01-10-9540	AF-7.0	Aspiration-Reducing film sheet 7,0mm	
01-10-9750	AK-C	Plastic Clip for Air Flow Reducers Deep Freeze	
01-10-9580	AK-2.0	Air flow reducer for deep freeze storage area 2,0mm	
01-10-9590	AK-2.5	Air flow reducer for deep freeze storage area 2,5mm	
01-10-9600	AK-3.0	Air flow reducer for deep freeze storage area 3,0mm	
01-10-9610	AK-3.2	Air flow reducer for deep freeze storage area 3,2mm	

Accessories to make the piping system reliable and robust.

Product Code	Model	Description	Picture
01-10-9620	AK-3.4	Air flow reducer for deep freeze storage area 3,4mm	
01-10-9630	AK-3.6	Air flow reducer for deep freeze storage area 3,6mm	
01-10-9640	AK-3.8	Air flow reducer for deep freeze storage area 3,8mm	
01-10-9650	AK-4.0	Air flow reducer for deep freeze storage area 4,0mm	
01-10-9660	AK-4.2	Air flow reducer for deep freeze storage area 4,2mm	
01-10-9670	AK-4.4	Air flow reducer for deep freeze storage area 4,4mm	
01-10-9680	AK-4.6	Air flow reducer for deep freeze storage area 4,6mm	
01-10-9690	AK-5.0	Air flow reducer for deep freeze storage area 5,0mm	
01-10-9700	AK-5.2	Air flow reducer for deep freeze storage area 5,2mm	
01-10-9710	AK-5.6	Air flow reducer for deep freeze storage area 5,6mm	
01-10-9720	AK-6.0	Air flow reducer for deep freeze storage area 6,0mm	
01-10-9730	AK-6.8	Air flow reducer for deep freeze storage area 6,8mm	
01-10-9740	AK-7.0	Air flow reducer for deep freeze storage area 7,0mm	

Special Accessories for Pipe System

Accessories to make the piping system reliable and robust.

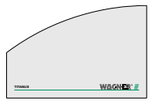
Product Code	Model	Description	Picture
01-10-9360	AS-12x9	Air sampling hose 12 x 9mm Air sampling hose for ceiling lead-through.	
01-10-9370	ABS-DF	Ceiling lead-through to install an air sampling point at a suspended ceiling.	
AD-10-0647	KA-1	Condensate Trap For sampling, precipitation of condensate of the pipe system.	
01-10-9380	RSV-R25	PVC Non-Return Valve To clean the pipe system during a blow-through process.	
W2-10-1360	AR-10.0	Air flow reducer Air flow reducer with a 10mm opening.	
01-10-9290	ABSR-2518PG	Pipe piece with PG16 internal thread, hal-free Fitting to contribute the AR-10.0.	
01-10-8020	PA-PVC	PVC test adapter Test device for quick functional checks.	
01-10-8030	PA-ABS	ABS test adapter Test device for quick function control.	
01-10-9245	PA-Y-P	PVC pipe adapter	
01-10-9255	PA-Y-A	ABS pipe adapter	

Special accessories for testing and servicing the TITANUS® family of aspirating smoke detectors (ASD) system.

Product Code	Model	Description	Picture
AD-05-0566	DIAG 3/b	Diagnostic Tool. To readout service information's and fault clearance.	
AD-05-0590	CT-1	Smoke pen. To test the smoke detection systems.	
AD-05-0597	SP-CT-1	Smoke sticks for smoke pen (6pcs.) (Sufficient for approx. 2 hours smoke production).	
AD-05-0595	AK-CT-1	Bracket for Smoke pen Fixing Type: CT-1 at telescopic rods or lengthening's.	
95-10-0500	PYS 100	Pyrolysis system. Response tester for highly sensitive aspirating smoke det.	
95-10-0230	TW-VE-E90	Test coil for pyrolysis system. PYS 100 Standardized test coil for pyrolysis system.	
BM-50-0010	Pure-AX 9	Smoke cartridges for testing smoke detectors and for checking air flow conditions.	
AD-10-1960	LF-AD/a	Air Filter Standard 15µm. Filters dirt and dust particles of the air.	
AD-10-0330	LF-AD-E	Filter element f. LF-AD (/a) spare 15µm Exchange filter for air filter Type LF-AD(/a).	
AD-10-1975	LF-AD-k	Air Filter Standard Titanus FUSION Filters dirt and dust particles of the air.	
AD-10-0336	LF-AD-E-k	Filter element for LF-AD-k replacement 30µm Exchange filter pad for air filter Type LF-AD-k.	

Special Accessories for Pipe System

Special accessories for testing and servicing the TITANUS® family of aspirating smoke detectors (ASD) system.

Product Code	Model	Description	Picture
AD-10-1963	LF-AD-1/a	Air filter for TITANUS 10µm. Filters dirt and dust particles of the air.	
AD-10-0335	LF-AD E_ Sonder	Filter element for air filter LF-AD-1 (/a) replacement 10µm. Exchange filter for air filter Type LF-AD-1(/a)	
AD-10-1966	LF-AD-2/a	Air filter for TITANUS 5µm. Filters fine dirt and dust particles of the air.	
AD-10-0332	LF-AD-E-2	Filter element for LF-AD-2 (/a) replacement 5µm. Exchange filter for air filter Type LF-AD-2(/a)	
AD-05-5200	AB-1	Additional housing for TITANUS accessories.	
AD-10-1500	FW-AB-1	Front film sheet TITANUS MICRO·SENS For additional housing Type AB-1.	
AD-10-1980	SD-1/a	Sound Absorber Sound absorber for connection to the air return.	
AD-05-0492	KT-HS-1	Installation kit for additional modules Mounting plate for the installation of e.g. reset-moduls.	

Power supplies and accessories

Power Supply Units are uniquely designed to complement the style and appearance of TITANUS® family

Product Code	Model	Description	Picture
SV-10-0160	BNL-3-12-H	Battery-backed power supply in a wall-mounted housing. Prepared to accommodate 2 rechargeable batteries.	
SV-10-0165	BNL-3-24-H	Battery-backed power supply in a wall-mounted housing. Prepared to accommodate 2 rechargeable batteries.	
SV-10-0170	BNL-6-24-H	Battery-backed power supply in a wall-mounted housing. Prepared to accommodate 2 rechargeable batteries.	
SV-10-0185	Type AkkuTEC 2412	Battery-backed power supply in a wall-mounted housing. Prepared to accommodate 2 rechargeable batteries.	
SV-10-0460	BNL-6-38-R	Battery-backed power supply in a 482.6mm (19") frame. Design according to EN54-4 / A2	
SV-10-0470	BNL-8-65-R	Battery-backed power supply in a 482.6mm (19") frame. Design according to EN54-4 / A2.	
SV-10-0480	BNL-12-65-R	Battery-backed power supply in a 482.6mm (19") frame. Design according to EN54-4 / A2.	
SV-10-0410	Type FU-1	Fuse module. Up to 5 consumers can be connected. Fine fuses 5 x 1A.	
SV-10-0415	Type FU-2	Fuse module. Up to 3 consumers can be connected. Fine fuses 3 x 4A.	
SV-10-0420	Type FU-3	Fuse module. Up to 5 consumers can be connected. Fine fuses 5 x 4A.	
SV-10-0430	Type FU-4	Fuse module. Max 10 consumers can be connected. Fine fuses 10 x 1A.	

Aspirating Smoke Detection Pipes & Fittings

Aspirating Smoke Detection Pipes & Fittings

Pipe 25mm Diameter

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

Product Order Codes	
JC008-25	Red
JCG008-25	Grey

Socket 25mm

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

Product Order Codes	
JC005-25	Red
JCG005-25	Grey

Socket Union 25mm

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

Product Order Codes	
JC003-25	Red
JCG003-25	Grey

Bend 25mm

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

Product Order Codes	
JC001-25	Red
JCG001-25	Grey

Aspirating Smoke Detection Pipes & Fittings

Elbow 25mm

45 degree elbow. Order in multiples of 5.

Product Order Codes	
JC002-25	Red
JCG005-1	Grey

End Cap 25mm

End cap 25mm. Order in multiples of 5.

Product Order Codes	
JC007-25	Red
JCG007-25	Grey

Equal Tee 25mm

Equal Tee 25mm. Order in multiples of 5.

Product Order Codes	
JC006-25	Red
JCG006-25	Grey

Pipe Clip 25mm

Pipe Clip 25mm. Order in multiples of 10.

Product Order Codes	
JC004-25	Red
JCG004-25	Grey

Socket Adaptor 25mm to 3/4"

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

Product Order Codes	
JC005-1	Red
JCG005-1	Grey

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

Aspirating Smoke Detection Pipes & Fittings

Capillary Tube 10mm

45 degree elbow. Order in multiples of 5.

Product Order Codes
JC018-R

Sampling Point Label (1Reel)

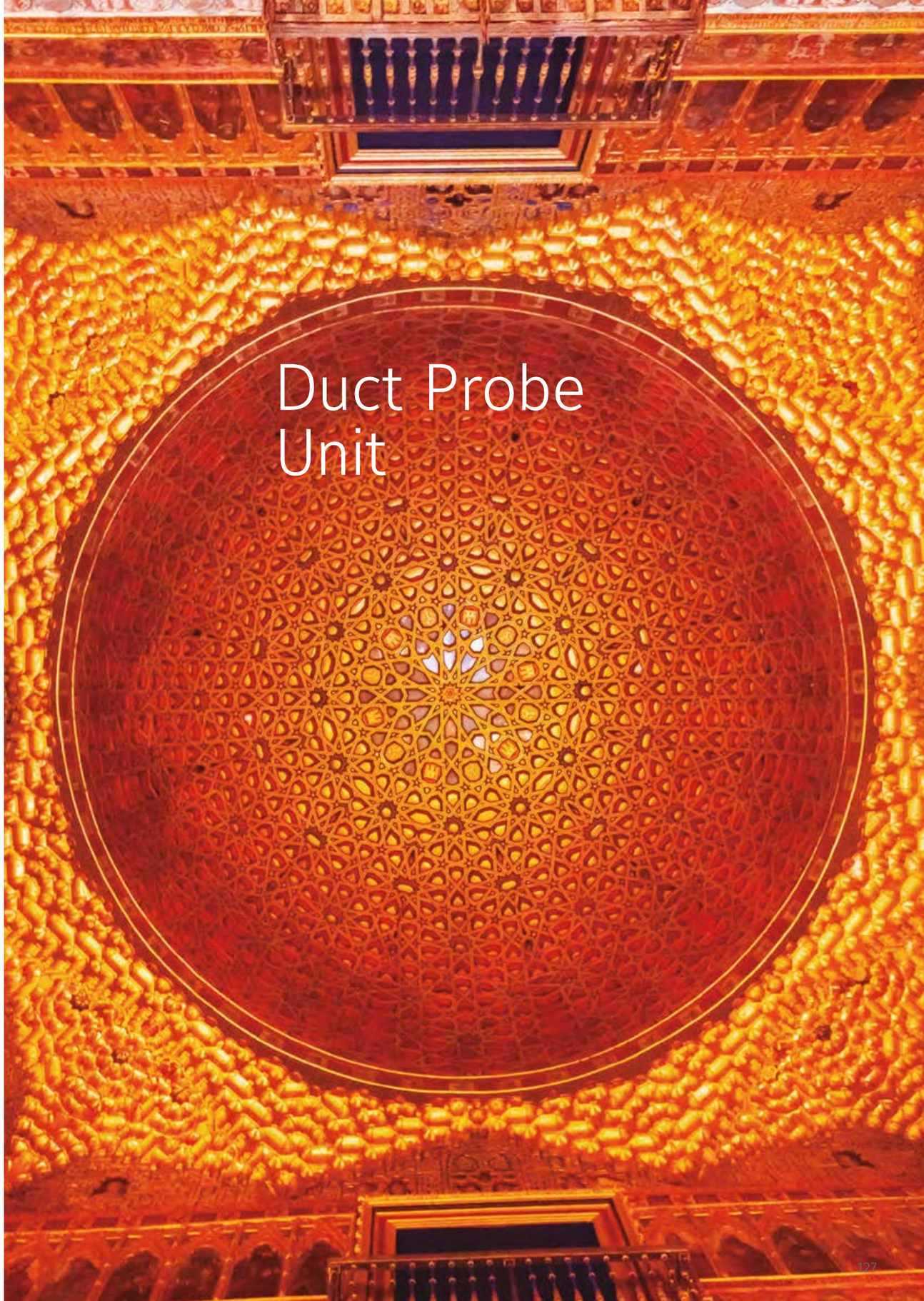
End cap 25mm. Order in multiples of 5.

Product Order Codes
JC010

Pipe Clip 25mm

Equal Tee 25mm. Order in multiples of 5.

Product Order Codes
JC004-25



Duct Probe Unit

DPK6 Duct Probe

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 1,5m/s to 20m/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 2700mm.

Product Order Codes	
517.025.056	DPK6 Duct Probe with with built-in base
517.025.058	DPK6-60 - Duct Probe Tube 60cm
517.025.059	DPK6-150 - Duct Probe Tube 150cm
517.025.060	DPK6-280 - Duct Probe Tube 280cm
517.025.061	DPK6-MB - Duct Pobe Mounting bracket
517.025.055	DPKF – Filter (pack of 10)

Beam Smoke Detectors

Beam Smoke Detectors

Auto Aligning Optical Beam Smoke Detectors

The FIRERAY 5000 motorised, auto aligning infrared optical beam smoke detector can now be installed with up to two detector heads per system, thus saving on installation time and costs. This innovative system has been designed from the ground up to include pioneering technology that fully addresses the needs of the installer and user, both now and in the future.

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 2 detectors per system controller.
- Each detector configurable from 8m to 100m.
- Integral LASER.
- Auto-align fast automatic beam alignment.
- Auto-optimise building movement and contamination compensation.
- Worldwide approvals including EN54:12 and UL268.
- Controller dimensions (W x H x D): 202 x 230 x 81mm.
- Detector dimensions (W x H x D): 134 x 135 x 134mm.

Product Order Codes	
516.015.020	FIRERAY 5000

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.

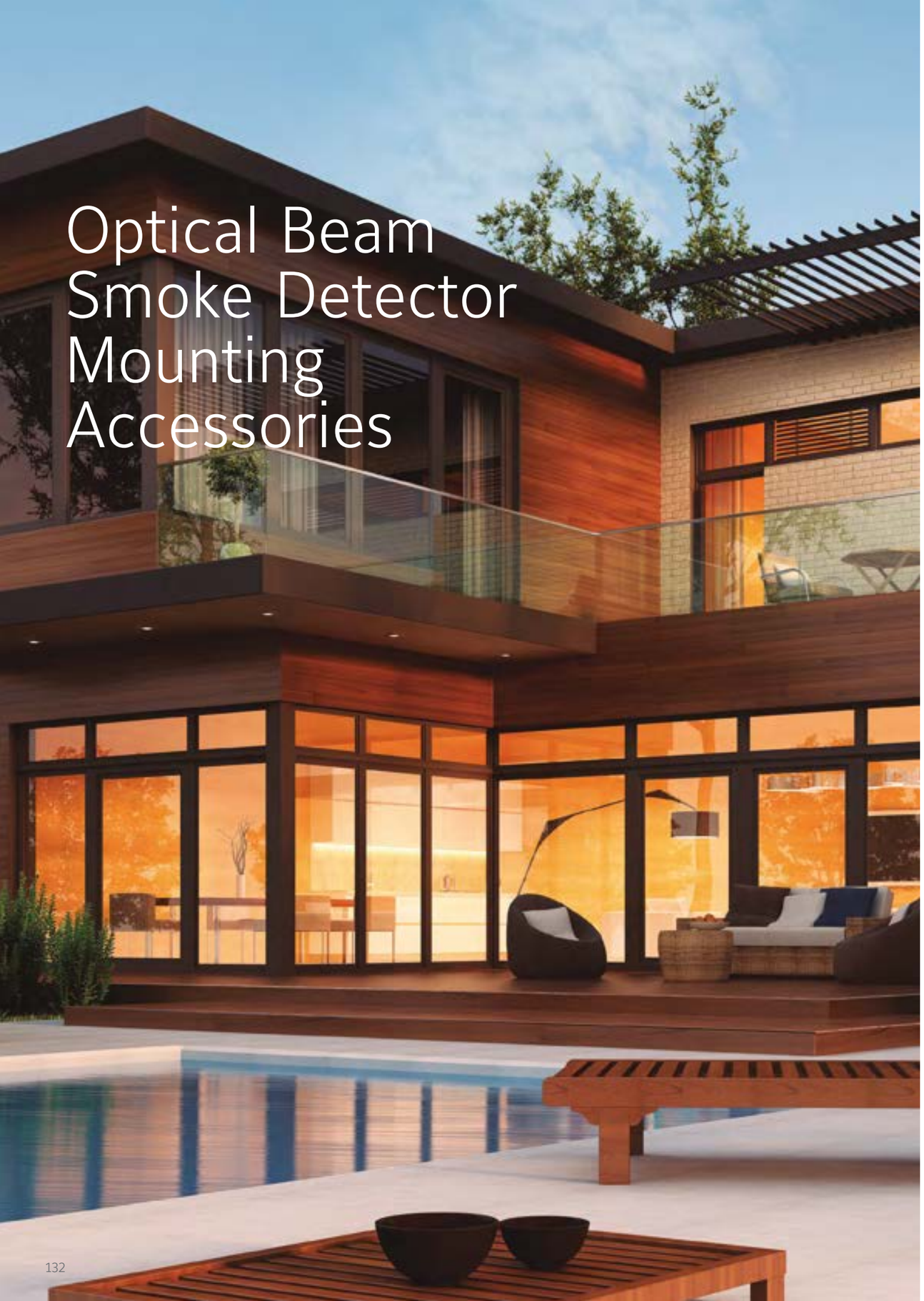
Product Order Codes
516.015.007

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.

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 Range Overview

Comprehensive Range

The FireClass conventional range offers the user a choice of control panels widely known and used throughout the world, ranging from the new Essential panel up to the expandable J408-8 8 zone panel. The new Essential panels are EN approved, low cost conventional panels that are available in both 2 zone and 4 zone variants. The panels can support up to 128 devices with a maximum of 32 devices on each zone. The panels are approved to EN 54-2, EN 54-4, and listed as part of the EN 54-13 system. The J408-8 panel can be fitted with one or two optional extinguishment modules and is 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, to providing 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. Our panel range is 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.

Enviable 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.

FireClass Essential

- Low cost EN54-2, EN54-4 approved panel.
- Listed as part of the EN54-13 system certificate.
- Available in 2 zone and 4 zone versions.
- Modern and aesthetic design

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.

J408

- Low cost EN54 and EN12094-1, approved panel.
- Available in 8 zone version.
- Integrated extinguishing module.
- 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.

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.

Remote Indicator

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

FireClass 700 Series Detection

- Comprehensive range of conventional fire detectors.
- Built-in micro-processor offering improved algorithms and drift compensation.
- Designed to be able to act as a drop in replacement for 600 series detectors.
- 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.

Conventional Range

FireClass Essential

FireClass Essential Panels are EN-approved, low cost conventional panels that are available in both 2 Zone and 4 Zone variants. The panels can support up to 128 devices with a maximum of 32 devices on each zone. The panels are approved to EN 54-2, EN 54-4, and listed as part of the EN 54-13 system certificate.

Product Order Codes	
508.032.730	FireClass Essential 2 Zone Panel
508.032.731	FireClass Essential 4 Zone Panel
508.032.732	FireClass Essential 4 Zone Panel Main System Board
508.032.733	FireClass Essential 2 Zone Panel Main System Board
PS-1230	12 V, 3.4 Ah Battery
508.031.752	BAW50T24 Switched-Mode PSU/Battery Charger Max 1.8 A at 27.6 VDC

General Features

- Low cost EN54-2, EN54-4 approved panel
- Listed as part of the EN54-13 system certificate
- Available in 2 zone and 4 zone versions
- Modern and aesthetic design
- Modern and aesthetic design
- Surface mountable
- Option to set delays for outputs during alarm
- Buttons for silence, resound, and reset
- Two open collector outputs
- Disable feature for sounders and zones
- Volt-free fire and fault relays
- Test feature for installation
- Two auxiliary inputs: alert input and class change input
- Support for all FireClass 600 and 700 series conventional detectors, conventional sounders, and VADs
- Support for third party devices
- Fully compliant with EN 54-2, EN 54-4, and is listed as part of the EN 54-13 system certificate

Prescient III Gas Releasing

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.

Product Order Codes	
508.033.751	FireClass Prescient III Gas Panel

Spares & Accessories Product Order Codes	
2605183	Motherboard for Prescient III
2000682	Lock and barrel for Prescient III

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.

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.
- 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 Features

- Fully approved.
- Integrated extinguishment module EN12094-1 approved.
- Up to 32 devices can be connected to each zone.
- Gas zone compatible with 4 – 20mA 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 restore 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.

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.

Product Order Codes	
557.201.524.E	J408-8 8 zone conventional fire panel English
508.031.723.E	J408-8 8 zone conventional fire panel Italian
557.201.534.E	J408-8 8 zone conventional fire panel Portuguese
557.201.537.E	J408-8 8 zone conventional fire panel Spanish

J400 Series Accessories

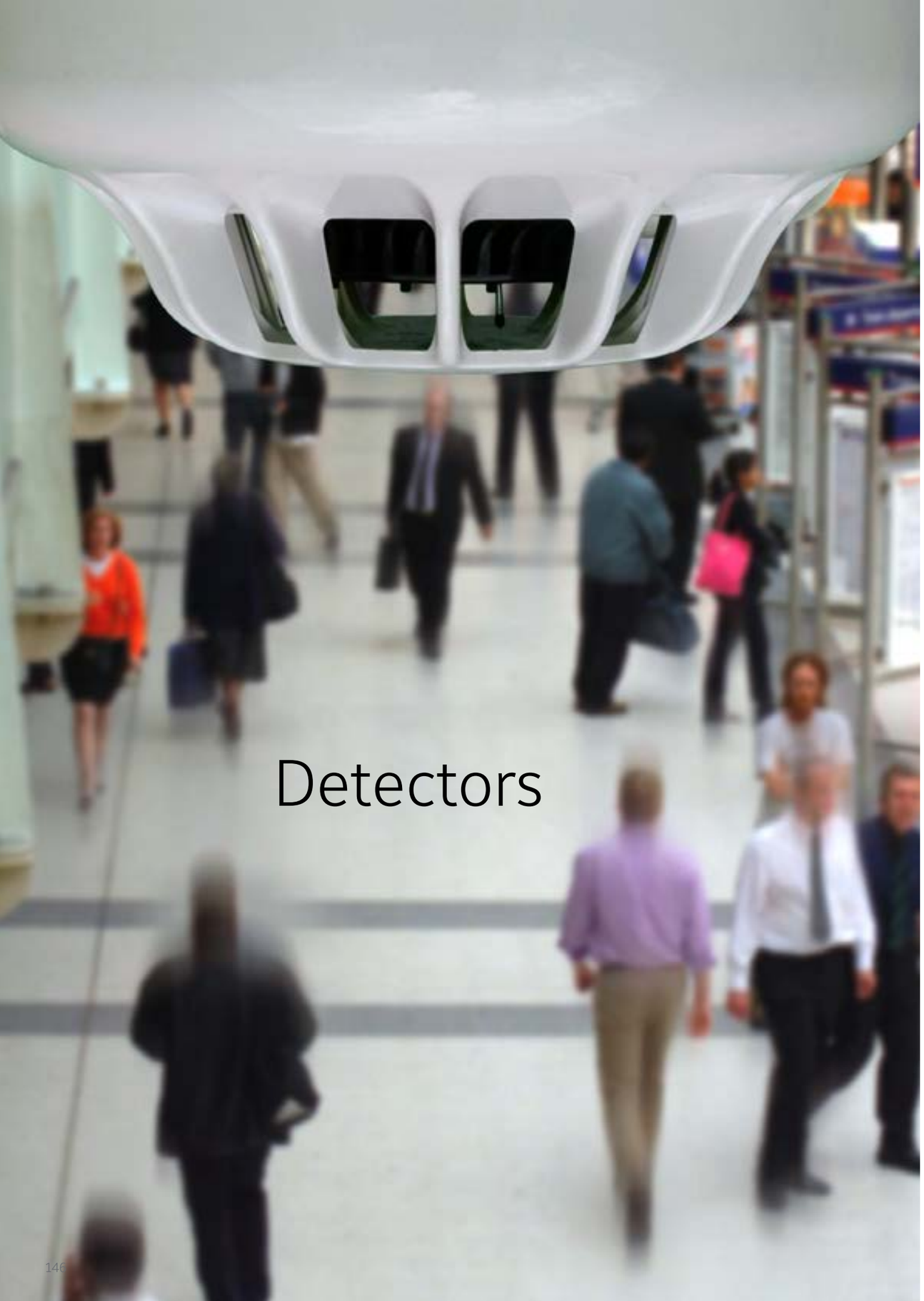
J400 Series Accessories

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



Detectors

700 Series Detectors

The 700 Series of detectors are microprocessor-based conventional detectors and have been designed to act as a drop-in replacement for, and are backwards compatible with, the equivalent legacy 600 Series.

These intelligent, conventional detectors come with built-in drift compensation in the P and PH variants. Once the drift compensation limit has been reached, i.e. the detector has become too dirty to operate at the nominal sensitivity, the detector will automatically adjust the sensitivity to allow it to continue operating.

Each detector comes with its own built-in micro-processor offering advanced algorithms, resulting in the same detection performance and false-alarm rejection as the latest Gen6 detectors.

The PH detector is approved to EN54-29, a multi-sensor standard for smoke and heat. This is the first conventional detector from Johnson Controls to be approved to this non-harmonised standard.

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 700 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

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

700 Series Detectors

Optical Smoke Detector

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

Product Order Codes	
516.900.001	701P

High Performance Optical Detector

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

The micro-processor inside the detector allows for threshold compensation, meaning the detector will adjust sensitivity levels to compensate for dust and dirt levels in the chamber, resulting in fewer unwanted alarms and an extended detector life. The 701PH is approved to EN54-29, a multi-sensor standard for smoke and heat.

Product Order Codes	
516.900.002	701PH

Heat Detector - Rate of Rise

701H rate-of-rise heat detector detects abnormally high rates of rising temperature. The micro-processor inside the detector offers advanced algorithms resulting in improved false-alarm rejection rates. Can be used in areas where smoke detectors are unsuitable due to environmental conditions such as kitchens, locker rooms and canteens.

Product Order Codes	
516.900.003	701H

Heat Detector - Fixed Temperature

The 702H and 703H heat detectors detect abnormally high static temperatures of 60°c and 90°c, respectively. They can be used in areas where smoke detectors are unsuitable due to environmental conditions such as kitchens, locker rooms and canteens.

Product Order Codes	
516.900.004	702H - Heat detector, Fixed, 60°C
516.900.005	703H - Heat detector, Fixed, 90°C

Multi Sensor CO and Heat Detector

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

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

Detector Bases

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 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

Diode Base

The 4B-D Conventional Diode Base is a standard 4 inch base fitted with a continuity diode, for use with all 600 series and 700 series 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 700 series Low Profile 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

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

Detector Bases

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

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

Protective Cage

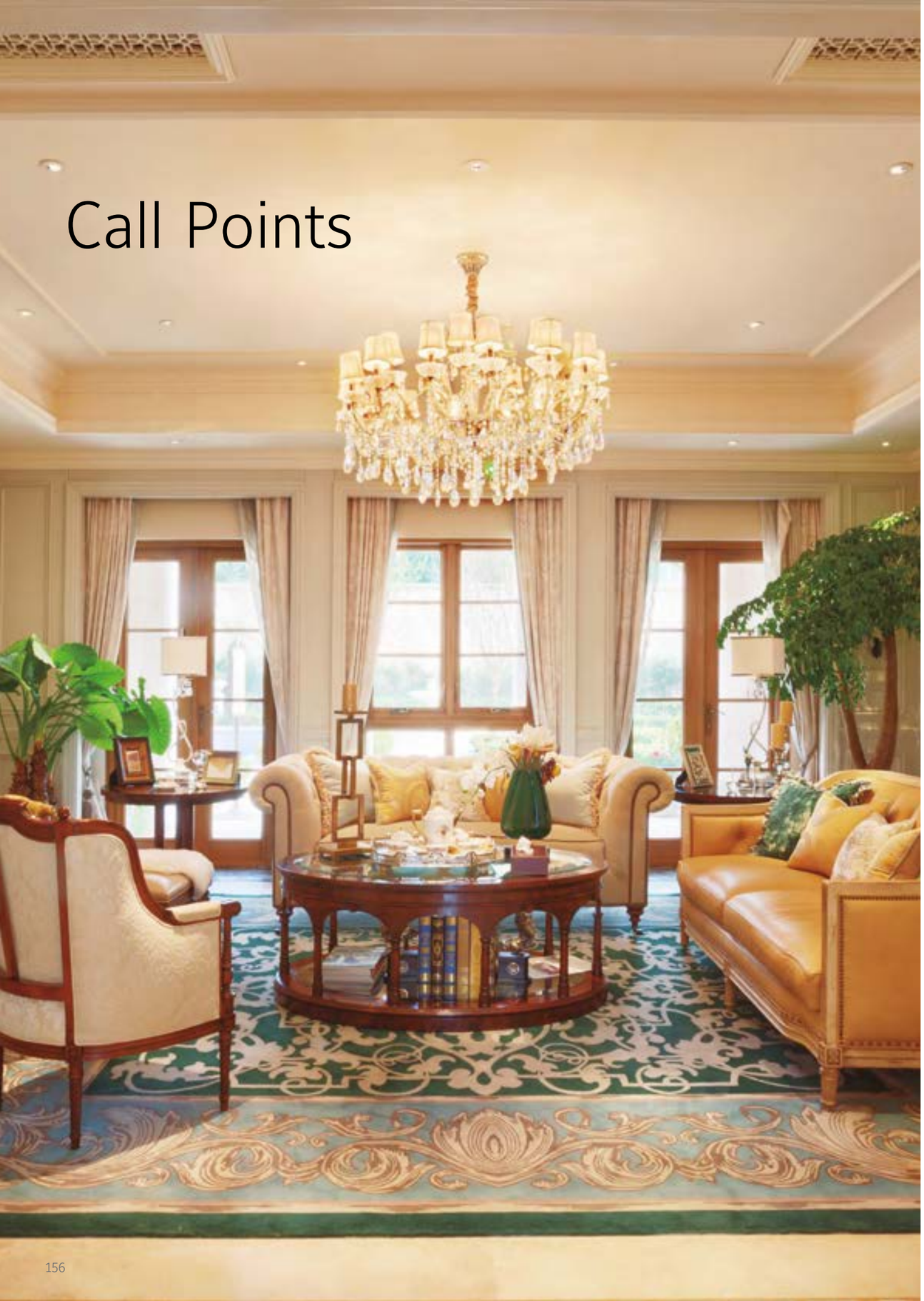
White powder coated steel protective cage for Series FC400 Detectors fitted with a sounder base. Dimensions: 120mm dia x 80mm deep.

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

Manual Call Points

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
2501013	Conventional Manual Call Point with Glass (with back box)
515.001.021	Back Box 10-115 - Back Box SR2-T SUS528W

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

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

Manual Call Points

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 and test key.

Product Order Codes	
2501176	Conventional Weatherproof Manual Call Point
515.001.021	Back-Box

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

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

Sounders/Beacons/Relay Bases

MC600 Functional Relay Base

The 600 Series 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

- 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

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.

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, whist using minimum current.

General Features

- Conforms with EN 54-23 (meets the required illumination 0.4lux/m^2 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
812005FULL-0107X	Solista LX Wall RdBeacon deep

Sounders/Beacons/Relay Bases

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	
812020FULL-0121x	Solista LX ceiling beacon

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.

General Features

- Ultra low current consumption.
- RoLP and RoLP Maxi sounder options.
- Up to 7.5m coverage volume (switchable to 2.5m).
- 0.5 or 1Hz flash rate.

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

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

Sounders/Beacons/Relay Bases

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

*This product on its own does not ensure an installation is Intrinsically Safe.
It should be installed using an appropriate barrier, by a suitably trained person and according to guidelines. If you are unsure, please seek advice.

Notes

Remote Indicators

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

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

Product Order Codes	
540.003.006	601RIL

Power Supply Units and Batteries

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	
557.200.732	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.

General Features

- 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 4.3Kg (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.

General 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.

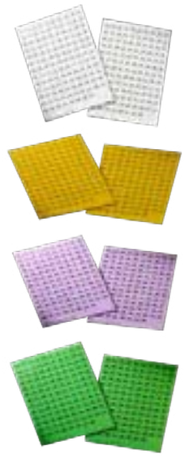
Labels are provided on sheets of 250 in eight colours to enable quick identification between different loops.

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 and 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 100mm 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

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 50mm (H x W x D).

Product Order Codes	
557.202.720	Fire Document Box FireClass

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

General Features

- 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

General Features

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

Product Order Codes	
517.001.262	Solo CO detector tester

Solo330 Smoke/CO Aerosol Dispenser

General Features

- Lightweight and simple to use.
- Universal design suits wide range of detectors.
- Spring loaded solution for suspended ceilings.
- For use with Solo Smoke and CO Canisters.
- Designed for use with Solo Dispenser.

Product Order Codes
517.001.255

Testifire Smoke/Heat Tester

General Features

- Battery powered
- No cables, trailing leads or hanging wires.
- Suits fixed temperature, rate of rise and combination detectors up to 194°F/90°C.
- 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

Detector Test Equipment

Scorpion Point Head Unity

The Scorpion Head Unit is permanently installed alongside the smoke detector.

General Features

- Smoke tailored for functional testing of point type smoke detectors.
- Adjustable smoke time to suit requirements of system under test.
- Clearing function enables rapid reset and reduces repeat alarms.
- Scorp 2011 available for testing aspirating smoke detection systems.

Product Order Codes	
517.001.270	Scorpion Point Head Unit

Scorpion ASD Head Unit

The Scorpion Head Unit is permanently mounted adjacent to a sampling point on an ASD system pipe – typically at the end of the run. Just one head unit is required for each pipe run – regardless of the number of sampling points.

Hard-to-access smoke detectors are common in most buildings, Scorpion has therefore been adopted across a wide range of sites – in particular:

- Universities
- Hospitals
- Retail
- Banking
- Airports
- Warehouses
- Military bases

General Features

- Smoke tailored for function testing of ASD Systems.
- Adjustable smoke time to suit requirements of system under test.
- Suitable for Light Scatter, Particle Counting and Cloud Chamber technologies.
- Transport time function allows monitoring of on-going ASD system performance.

Product Order Codes	
517.001.271	Scorpion ASD Head Unit

Scorpion Portable Controller

The Scorpion 7000 portable controller can be used in conjunction with a SCORP25 Access Point to activate individual Scorpion Head Units connected to Smoke Detectors or ASD systems.

General Features

- Activates installed scorpion system.
- Connects to SCORP25 Access Point.
- Easy to use, store and transport.
- Portable – allows use over multiple sites.
- Powered via Solo 770 Battery Baton.

Product Order Codes	
517.001.272	Scorpion Portable Controller

Solo Universal Removal Tool

General Features

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

Product Order Codes
517.001.240

Solo108 Two Section Pole

Two section telescopic pole extends from 1.2 to 2.2 metres.

Product Order Codes	
517.001.275	Solo 108 Two Section Pole

Telescopic Access Pole

Extends from 1.26m to 4.5m. Optimum strength to weight ratio. Certified non-conductivity. Extension pole adds 1.13m and can also be used as a standalone product.

Product Order Codes	
517.001.226	Solo101 Extension pole, 1.13m
517.001.230	Solo100 telescopic extension pole

Adaptor Tube

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

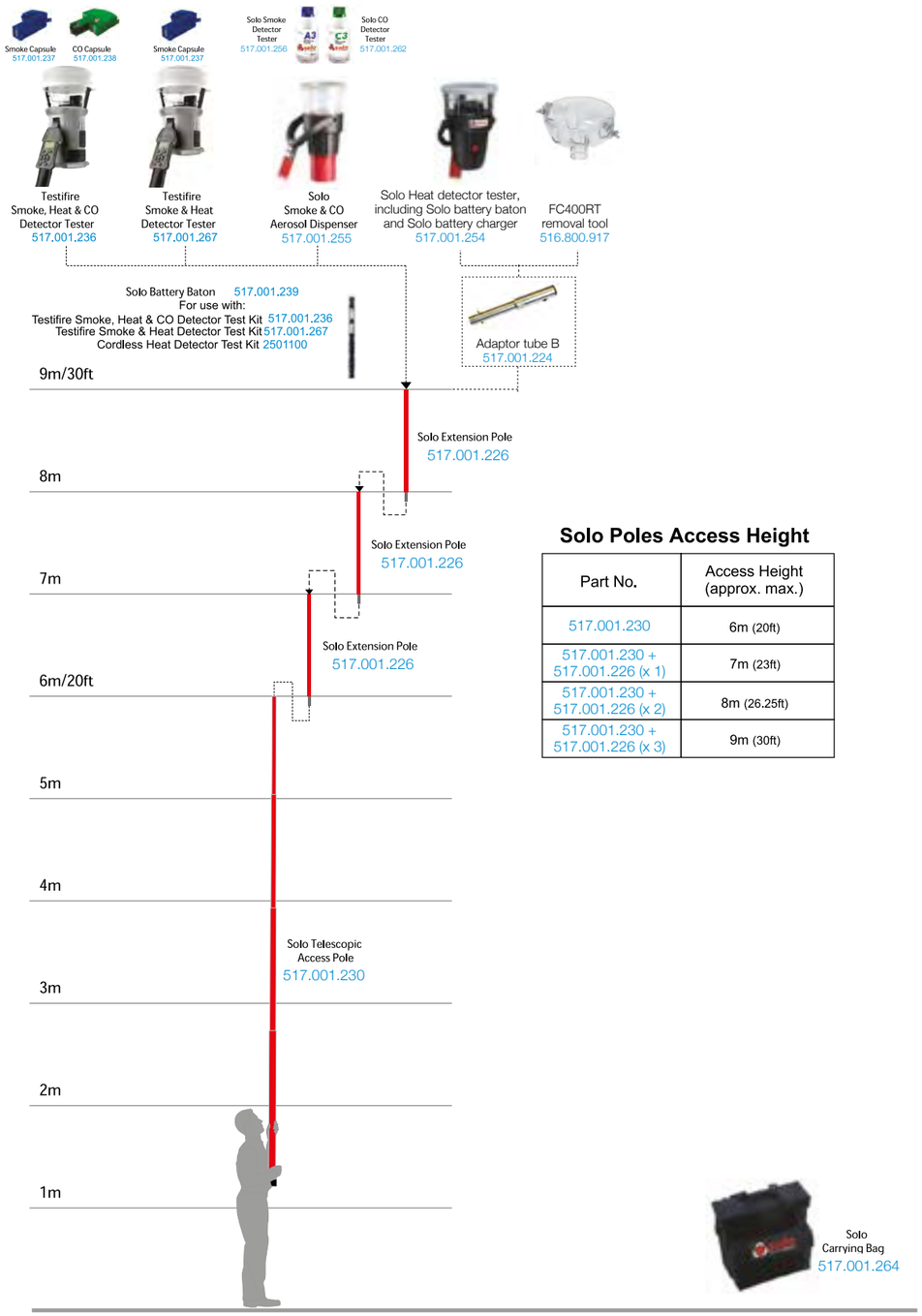
Product Order Codes	
517.001.224	SOLO704

Detector Removal Tool

Compatible with FC400 and FC460 Series detectors.

Product Order Codes	
516.800.917	800RT

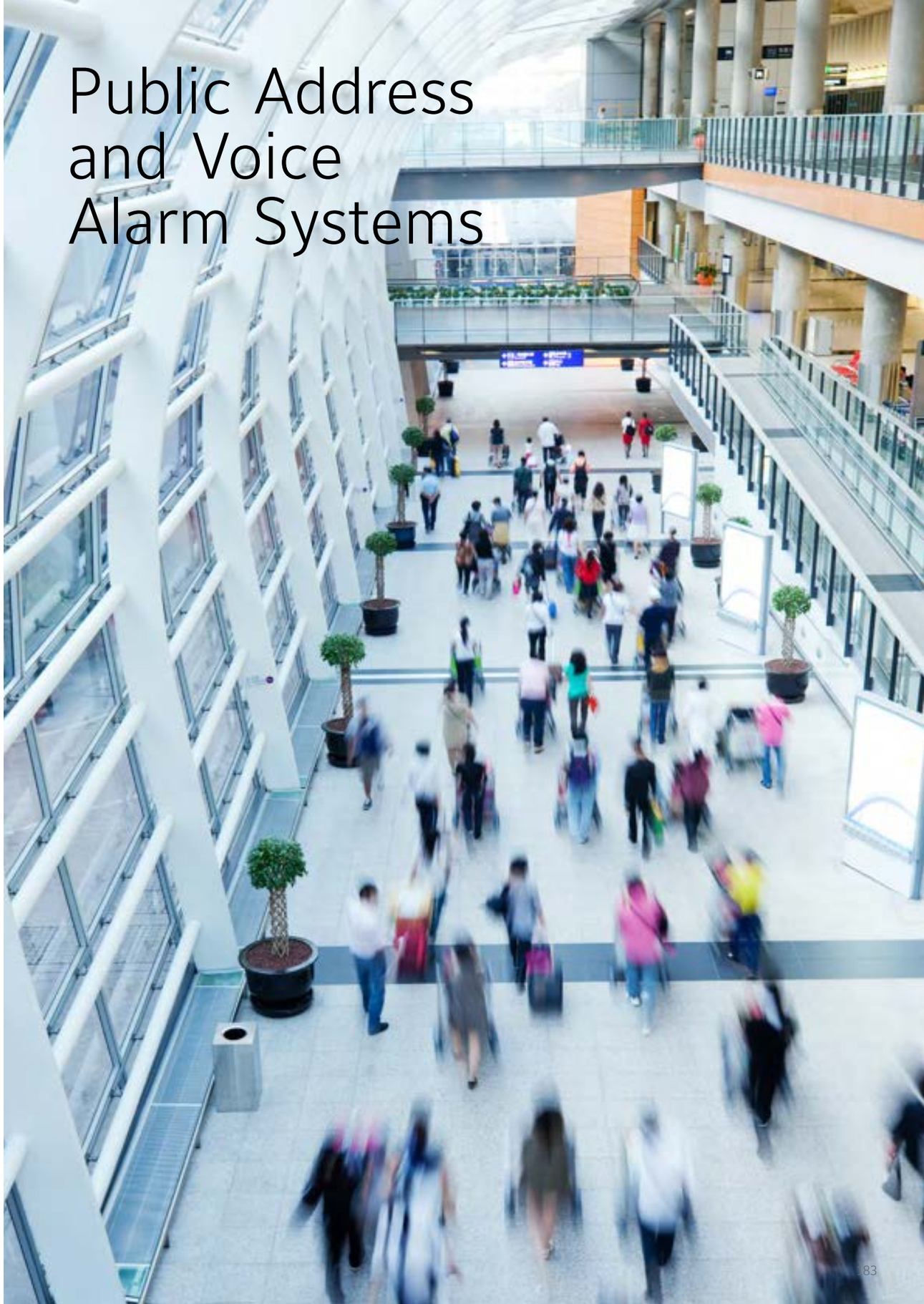
Detector Test Equipment



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)

Public Address and Voice Alarm Systems



Public Address and Voice Alarm Systems

NEO System

General Features

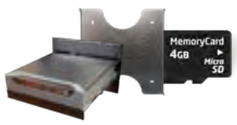
- Compact EN 54-16 certified PA/VA system.
- 5 audio inputs.
- 8 class D amplifiers with two configurations for 100V/70V lines.
- 8 class D amplifiers of 120W per channel, or 4 class D amplifiers of 250W per channel.
- Audio Matrix 7 x 8 (digital up to 39 x 2014).

NEO System Accessories

General Features

- 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



General Features

- 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.

ONE System Accessories

General Features

- Battery charger.
- Rack and wall mounting cabinets.

PA/VA System Accessories

General Features

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

Speakers

General Features

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

NEO System

The NEO 8060 is a compact EN 54-16 certified PA/VA system that ensures a fast, safe and controlled emergency evacuation.

NEO represents a cost-effective voice evacuation and public address system due to its cutting-edge features, touch screen and excellent audio quality and flexibility including: 8 class D amplifiers, 5 audio inputs, 7 x 8 audio matrix (39 x 1024 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 and time, UDP command, a GPIO or button from MPS microphone.

General Features

- 5 audio inputs
- 8 class D amplifiers with two configurations for 100V/70V lines
- 8 class D amplifiers of 120W per channel, or 4 class D amplifiers of 250W per channel.
- Audio Matrix 7 x 8 (digital up to 39 x 2014).
- 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 Codes	
590.001.001	NEO8060 Public Address and Voice Alarm System

NEO Extension Controllers

NEO4250

The NEO Extension 4250 is an extension controller and a 4 x 250W amplifier or 2 x 500W amplifier for the compact EN 54-16 NEO PA/VA 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 4 x 500W amplifier or 2 x 1000W amplifier for the compact EN 54-16 NEO PA/VA 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 PA/VA system. This extension unit scales the NEO system with 8 more zones as it includes 8 class D power amplifier channels of 250W at 100V or 70V.

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 PA/VA system. This extension unit includes 4 x 500W class D power amplifier channels or 2 x 100W 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 2 x 2 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 120Ah 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

RCD-21R Player CD/USB

The RCD-21R is an all-in-one multi-source audio player that includes CD player, FM/AM radio and USB interface. It is cost effective equipment that can provide professional level audio performance.

General Features

- CD player, FM/AM radio and USB Interface.
- Independent CD/USB and FM/AM outputs.
- Supports CD, CDR, CDRW, MP3 and WMA.
- Supports USB 1.1 and USB 2.0.

Product Order Codes	
590.001.015	AT-25

ONE System Accessories

ONE500 – Compact Public Address and Voice Alarm System

The ONE PA/VA system is certified according to the requirements of EN 54-16 and EN54-4, ensuring a safe and controlled emergency evacuation. Its high performance, versatility and audio quality make it a powerful and affordable music and voice distribution system for all types of installations.

It includes 2 amplification channels with 200Wrms (500W 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 Codes	
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 550mm.
- 19" 3U rack (including ONE-500 unit).
- Locking latches/handles.
- For 19" racks from 500 to 900mm deep.

Product Order Codes	
590.002.002	ONERMA
590.002.004	

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

ONE500 LOOP

The ONE500-Loop is an expansion card that allows users to connect up to 10x ONE500 with a total of 60 zones. The expansion card ONE500-LOOP has a redundant communication which allows the systems to be supervised and managed according to EN54 standards.

General Features

- Expandable up to 10xONE-500.
- Expandable up to 60 Zones.
- Redundant Loop communication.
- Supervised/Managed System.
- Easy to install.

Product Order Codes	
590.002.009	ONE500 LOOP Module x10 Ones

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 PA/VA 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.
- Power directly from system thorough the UTP cable.
- High performance durable microphone capsule.

Product Order Codes	
590.010.002	MPS-8Z

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.

Technical Data	
Mechanical Data	
Operating Conditions	-5ºC to +45ºC / 23ºF to 113ºF 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 200mm / 3.4˜ x 2.9˜ x 7.9˜
Accessories	Fixation elements, MPS-8Z connection and label for button identification

Product Order Codes	
590.010.003	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	
590.010.002	MPS-8Z

PAVA System Accessories

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

Product Order Codes	
590.010.007	RACK4ALT

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. 180º 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

PAVA System Accessories

12U Rack Cabinet

Rack-Alt Series cabinets are available in 19" formats in order to meet any need in voice and data installations. These are multi-purpose racks since they can be used for audio equipment, patch panels and electric equipment installations.

General Features

- Steel frames for structure assembly.
- Wiring entrance in top and base.
- Steel supports for profile mounting and shifting.
- 4 19" moveable profiles.
- Accessible side panels.
- Top with side, front and rear vent slots.
- 4mm grey Parsol glass front door in a metallic frame with lock and vent slots.
- Back door with lock.
- Levelling feet or wheels.
- Capacity up to 400kg.

Product Order Codes	
590.011.001	RACK-12ALT – 12U Rack Cabinet

24U Rack Cabinet

Rack-Alt Series cabinets are available in 19" formats in order to meet any need in voice and data installations. These are multi-purpose racks since they can be used for audio equipment, patch panels and electric equipment installations. RACK-24ALT model has a depth of 800mm and a capacity of 24U of 19'' each.

General Features

- Steel frames for structure assembly.
- Wiring entrance in top and base.
- Steel supports for profile mounting and shifting.
- Four 19'' moveable profiles.
- Accessible side panels.
- Top with side, front and rear vent slots.
- 4mm grey parsol glass front door in a metallic frame with lock and vent slots.
- Back door with lock.
- Levelling feet or wheels.
- Capacity up to 800kg (static).

Product Order Codes	
590.011.002	RACK-24ALT – 24U Rack Cabinet

42U Rack Cabinet

Rack-Alt Series cabinets are available in 19" formats in order to meet any need in voice and data installations. These are multi-purpose racks since they can be used for audio equipment, patch panels and electric equipment installations. RACK-42ALT model has a depth of 800mm and a capacity of 42U of 19'' each.

General Features

- Steel frames for structure assembly.
- Wiring entrance in top and base.
- Steel supports for profile mounting and shifting.
- Four 19'' moveable profiles.
- Accessible side panels.
- Top with side, front and rear vent slots.
- 4mm grey parsol glass front door in a metallic frame with lock and vent slots.
- Back door with lock.
- Levelling feet or wheels.
- Capacity up to 400kg (static).

Product Order Codes	
590.011.003	RACK-42ALT – 42U Rack Cabinet

PAVA System Accessories

Racking, Wiring and Mount of 12U, 24U & 42U

Racking, wiring and mounting of 12U, 24U & 42U Rack in factory includes:

- Black blind panel 1U for 19" rack, DIN rail 200cm, treated European pallet, caged nuts, washers, screws and auxiliary material, assembly labor, labeling, packing and palletizing.
- **For each NEO and NEO Extension equipment:** FTP RJ45 CAT6A 100cm hose, UTP RJ45 CAT5E 50 cm hose, 19" rack bracket, IEC black hose to Schuko 3 x 0.75mm, 4 x Schuko 19" rack bracket, cage nuts, washers, screws and auxiliary material.
- **For each battery charger:** Emergency power wiring for you NEO series equipment, IEC black hose to Schuko 3 x 0.75mm, emergency power monitor signals hose, 12V battery wiring unit, 19" rack battery tray, 1U black blind panel for 19" rack, 4 x Schuko 19" rack strip, cage nuts, washers, screws and auxiliary material.
- **For each ZES22:** FTP RJ45 CAT6A 100cm hose, 19" rack bracket, cage nuts, washers, screws and auxiliary material.

Product Order Codes	
590.011.001	RACK-12ALT – 12U Rack Cabinet
590.011.004	Racking, Wiring and Mount of 12U
590.011.005	Racking, Wiring and Mount of 24U
590.011.006	Racking, Wiring and Mount of 42U

Day Service of Commi and Config. REMOTELY (8 hr)

Subject to conditions: system devices must be powered, connected by network and well assembled; Loudspeaker lines must be stamped and verified.

Product Order Codes	
590.011.007	Day Service of Commi and Config. REMOTELY (8 hr)

Factory Testing and Commissioning

Product Order Codes	
590.011.008	Factory Testing and Commissioning

Johnson Controls Speakers

CH32-TN 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

CH-42TN 5" Ceiling Speaker

The CH-42TN 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	CH-42TN

Johnson Controls Speakers

DS-60TN 5" Wall Mount Speaker

The DS-60TN 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	DS-60TN

PCP-20TN 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	PCP-20TN

PCM-20TN 5" IP65 Anti-Vandal Cylindrical Projector

The PCM-20TN 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	PCM-20TN

PAVA Speakers

PS30TN IP66 Horn loudspeaker

PS-30TN is a high performance voice alarm horn loudspeaker certified according to EN54-24 standards. Its broad frequency range, low distortion, and high volume ensure the delivery of intelligible voice and high quality sound. It is made of ABS and, for increased fire protection, the loudspeaker is equipped with built in ceramic connector blocks and a thermal fuse. The power taps are 15W/10W/5W @100V or low impedance 8 Ohms.

With its wide operating range of temperature and humidity, it is suitable for use in extreme outdoor applications. The stylish low-profile and light grey colour design allows it to blend easily with the interior of most applications such as train stations, harbours, factories, campuses and stadiums.

General Features

- EN54-24 certified: 0359-CPR-00456.
- Intelligible voice and superior sound reproduction.
- Ergonomic, low profile and stylish design, blends easily into any outdoor application.
- High-strength UV resistive UL94V0 ABS housing.
- Easily mounted on the wall or column with the U-type bracket provided.
- High sensitivity: 105dB (1W, 1m).

Product Order Codes	
590.004.006	PS30TN IP66 Horn loudspeaker

PAVA Speakers

CH-62TN: 6.5″ 30 W Ceiling Speaker

High-quality and high-performance 30 W 2-way coaxial loudspeaker. EN 54-24 certified to sound and voice reproduction. Its broad frequency range, low distortion, and high sound pressure level ensure the delivery of intelligible voice and excellent sound.

General Features

- EN54-24 certified ceiling speaker
- High power and voice quality
- Fireproof metal dome
- Excellent for music and speech
- Easy installation through included springs for hard or slim ceilings
- Speaker Diameter 6.5″
- Max Power 45W

Product Order Codes	
LDACH62TNS01	CH-62TN: 6.5" 30 W Ceiling Speaker

VTX15-TN: IP54 2x2.5″ Column Speaker 15W

The VTX-15TN is part of the directive column loudspeakers range of high quality certified according to EN 54-24 fire alarm standards. It offers 15 W and has 2 drivers. Thanks to its minimalist design based on straight and pure lines are a perfect combination in any space, both outdoors and indoors.

General Features

- High quality column loudspeaker
- Made of resistant aluminium
- Protected against fire. EN54-24 certified.
- Excellent sound and voice reproduction.
- Easy mounted
- Speaker Diameter 2x2.5″
- Max Power 22.5W

Product Order Codes	
LDAVTX15TNS01	VTX15-TN: IP54 2x2.5" Column Speaker 15W

VTX60-TN: IP54 8X2.5″ Column Speaker 60W

The VTX-60TN is part of LDA's high-performance directional column speakers range, certified according to EN 54-24 fire alarm standards. It offers 60 W and has 8 drivers. Equipped with line transformer for 70/100V, isolation fuse and ceramic connector. Includes adjustable bracket for wall mounting.

General Features

- High-quality directive column loudspeaker
- Made of resistant aluminium
- Protected against fire. EN54-24 certified.
- Excellent for music and voice reproduction
- Easy installation
- Speaker Diameter 8x2.5″
- Max Power 90W

Product Order Codes	
LDAVTX60TNS01	VTX60-TN: IP54 8X2.5" Column Speaker 60W

VTX90-TN: IP54 12X2.5″ Column Speaker 90W

The VTX-90TN is part of the LDA high-performance directional column speakers range, certified according to EN 54-24 fire alarm standards. It offers 90 W and has 12 drivers. Its high directivity, achieved by acoustic engineering applied to the layout of its loudspeakers, allows the sound beam to be directed toward the audience area, helping to achieve high levels of intelligibility in acoustically challenging enclosures.

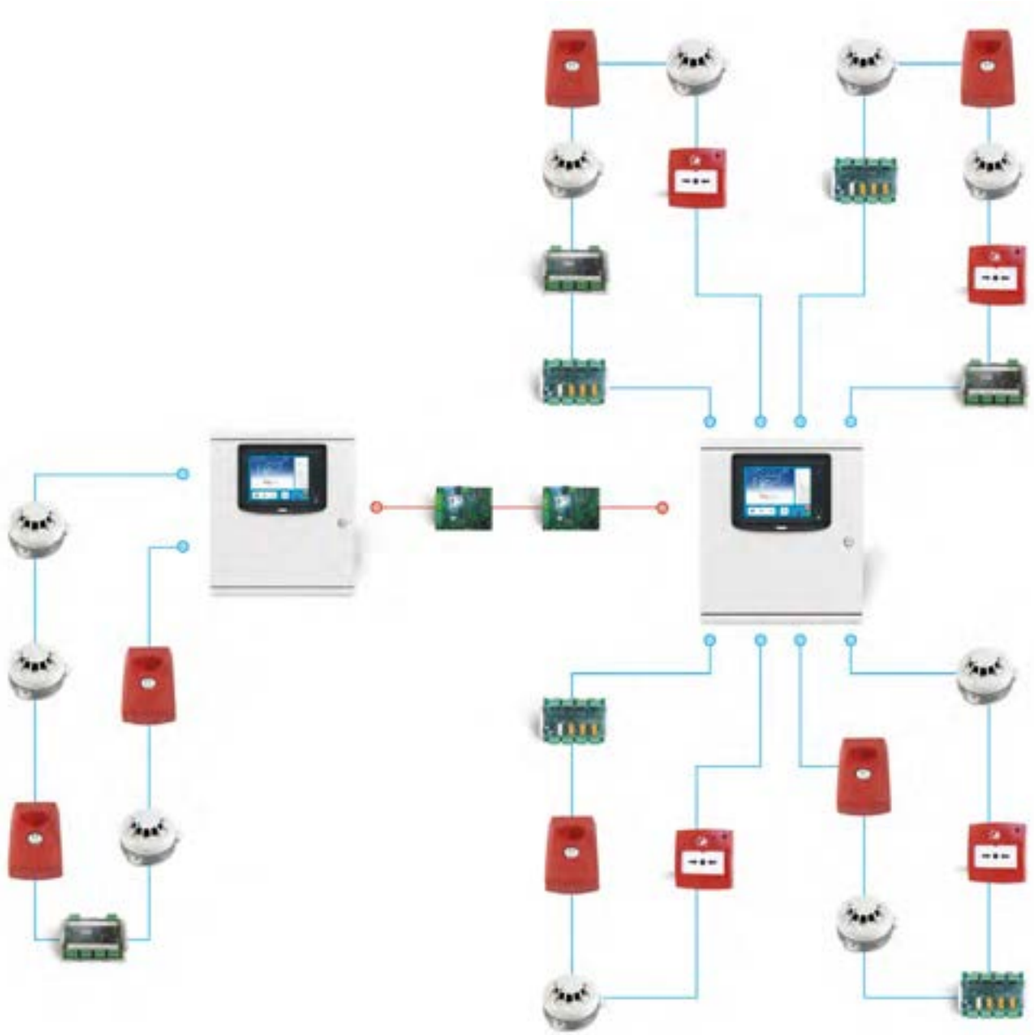
General Features

- High-quality directive column loudspeaker
- Made of resistant aluminium
- Protected against fire. EN54-24 certified.
- Excellent sound and voice reproduction
- Easy mounted
- Speaker Diameter 12x2.5″
- Max Power 135W

Product Order Codes	
LDAVTX90TNS01	VTX90-TN: IP54 12X2.5" Column Speaker 90W

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.

Notes

FIRECLASS

About Johnson Controls

At Johnson Controls (NYSE:JCI), we transform the environments where people live, work, learn and play. As the global leader in smart, healthy and sustainable buildings, our mission is to reimagine the performance of buildings to serve people, places and the planet.

Building on a proud history of nearly 140 years of innovation, we deliver the blueprint of the future for industries such as healthcare, schools, data centers, airports, stadiums, manufacturing and beyond through OpenBlue, our comprehensive digital offering.

Today, with a global team of 100,000 experts in more than 150 countries, Johnson Controls offers the world's largest portfolio of building technology and software as well as service solutions from some of the most trusted names in the industry.

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