



**UTC Fire & Security**

A United Technologies Company

# 2X

# Intelligent Addressable Life Safety Systems

A practical overview of product highlights and competitive advantages



# The X Family

Developed to meet your expectation...  
... the intelligent way

The 2X Series life safety control systems are part of the X family.

The X family consists of a range of next generation conventional and addressable fire panels that will support you from small standalone applications such as a small shop or bank, all the way to multiple floor building applications where reliable networking capabilities with central monitoring are required.

The X family will give you all the flexibility to meet your customer's expectations and more. From new projects to expansions to retrofit, everything is possible.

Further in this document we will highlight these benefits as it applies to the 2X. For the 1X Series life safety control systems, a separate sales guide is available.



# 2X

# Life Safety Systems

Designed for building owners

Engineered for life safety system suppliers

UTC Fire & Security 2X Series life safety control systems are bringing the speed and functionality of high-end intelligent processing to small to mid-sized addressable applications. They feature an attractive contemporary design that fits with any decor. Special plastics allows for painting in any color and the easy to remove electronics will support in this matter. The gently lined door with the intuitive dark inset user interface offers a distinctive flair. The main controls are clearly, but discreetly highlighted with the focus on the central located Jog Dial.

With the addressable detection and a full line of easily configured option cards and modules, USB and Ethernet® connectivity, these quick-to-configure systems offer versatility that benefits building owners and life safety system installers alike.

This guide was developed to highlight the strengths of the 2X Series and give those engaged in sales functions an understanding of the many competitive advantages these systems bring to sales calls.

Amongst the strongest selling points the 2X Series offers is the confidence customers can have by dealing with an identity they've known and trusted all their lives. UTC Fire & Security represents a solid foundation for technology and innovations that's been respected for generations. 2X Series life safety systems have been designed for building owners upon this legacy of innovation, and engineered for life safety system installers to exceed the expectations of their customers.



# Engineered for life safety system installers

## Quick installation and easy maintenance gives the 2X Series a competitive edge that's good for your bottom line.

As a life safety system installer, time and money are your primary concerns. You need to know up front what it's going to take to get the system up and running so you can present an accurate and competitive bid to your customer, the building owner. A system that proves difficult to install or that takes more time than anticipated to get a green light from the local authorities, costs you money, risks your business reputation, and can land you in a deep hole with your customer.

2X Series life safety systems are simple to install and quick to service. They work in your favor, keeping installation costs predictable, while contributing to your bottom line – not being a burden on it. With timesaving features not found among competing products, these systems will give you the edge you need to stay ahead of the game every step of the way.

What you do with that edge is your business. You can use it to win more bids and land more jobs, or pocket the savings and call it a day. Both outcomes boost revenue, though moving more systems.

Service and maintenance contracts also represent a significant part of your revenue stream. Frequently the contract is negotiated for a fixed cost over a fixed period, so you want a system that is quick and easy to service. The short and infrequent service calls the 2X Series requires allows you to maintain more systems at more sites with the same number of service technicians and vehicles on the road.

The 2X Series Ethernet programming and diagnostic features are a big advantage in this respect and provide opportunities for boosting service revenue while forging good relationships with your customers. This innovation in system communications permits valuable programming and diagnostic operations to be performed remotely from your office, without the need to send out a service vehicle and technician. In this way the technician that goes to site knows what to expect and what spare parts he needs to take before leaving the office.

## Benefits for your Installers

Quick, easy setup and configuration are vital for your people on the roads. Three programming methods are available. (I) Front panel with help of a wizard or auto configuration if needed. (II) Via USB stick remotely configured by PC. (III) With a PC locally or remotely connected. While the easy to use front panel programming of the 2X Series panel is adequate for most jobs, each method allows the installer to select a programming method that suits the complexity of the tasks at hand. This lets them minimize the amount of time they spend fiddling with the control panel, and focus on getting it up and running in the most efficient way and in the shortest time possible.

- **The wizard\* and auto programming** guides the installer getting the system up and running quickly and efficiently. With a few simple front panel commands, the 2X Series automatically identifies all connected devices, put them into a zone and sets country specific system operation options rapidly. The wizard recognizes and protects the settings of previously installed devices so that its subsequent use can be used for incremental changes to system configuration - this important feature saves time and dramatically simplifies installation and setup.
- **Front panel programming** with the 2X Series intuitive on-board user interface, composed soft keys and Jog Dial together with the easy-to-read graphical LCD display allows the installer to quickly tweak the auto programmed settings to accommodate the needs of typical installations. This method also permits fast incremental changes to point and zone settings for site-specific needs.
- **PC programming** puts the power of a full-featured graphical, drag and drop configuration and diagnostic utility to work so that installers can easily take full advantage of the 2X Series well organized programming engine. With the 2X configuration utility and a laptop PC connected to the control panel, installers can quickly and efficiently set up input / output logic, run through device settings, and configure option cards and loop modules. The PC programming can also be done off-line after which the configuration can be uploaded later on-site into the panel using a USB memory stick. The panel will automatically recognize the new configuration.

Installers also benefit from exclusive device-level fault identification, which takes the guesswork out of troubleshooting. The 2X Series one-person walk test speeds the pace of installation, and its quick-install chassis and easy removable door allows the wall box to be mounted during building construction while the electronics remain safe and out of harm's way. Last but not least using the extensive range of loop-powered sounders will even further save time and cost on installation.

It also offers you the opportunity to provide more responsive service to your customers. Advanced warning of dirty detectors and remote reporting features give your service department the opportunity to anticipate problems before your customer's system operation is affected.

This heads-off nuisance alarms and emergency service calls, and fosters a positive relationship between you and the building owner. A good relationship with the building owner not only bodes well when the service contract comes up for renewal, but also gives you an edge when it's time to install, expand, upgrade, or retrofit life safety systems at other properties owned by the same customer.

## Benefits for your Service Technicians

Timesaving remote programming and diagnostics will keep your service revenues up and your labor costs down. With the onboard Ethernet port, the 2X Series systems can communicate over a standard 10/100 Base T connection locally over a LAN, or even remotely over WAN across the Internet. This valuable 2X Series innovation allows your technician to run diagnostic routines and even make programming changes - all without driving to the system on site.

When a service call is required, your technician can generate and download system reports before heading out the door. These provide important information such as how many detectors are approaching their dirty thresholds, or which specific devices are in an off normal state and require attention. Having this information ahead of time avoids return trips to the shop for parts, and dramatically shortens the length of the maintenance call: something both you and your customer will appreciate.

For those devices approaching their dirty threshold, with the auto calibrated 2000 series detectors you simply replace the optical chamber and your device is like new. No difficulties and time consuming operations trying to clean the detector. No special tools required.

## Time-Saving highlights for Installers...

- Simple system setup and configuration
- Easy-to-configure option cards and modules
- Incremental auto programming with wizard
- Off-line programming and upload via USB memory stick
- Undo last update
- Device-level fault identification
- Loop powered sounders

The simplicity built into 2X Series systems makes adding devices a breeze for your maintenance personnel. The innovative auto-programming feature identifies new devices and preserves the programming for existing ones. This means that incremental programming is no longer a juggling act - the system takes care of the details, shortening the length of the visit so that more sites can be serviced with the same number of technicians and service vehicles.



# Designed for building owners

**2X Series blends seamlessly into the background, providing compliant, trouble-free service long into the future.**

Building owners and facility managers share your interest in saving installation and maintenance costs. But for the owner, the system is a fixture of their building that merits little attention until things go wrong. They fear a system that will be a source of trouble. Amongst their greatest fears is a building constantly being evacuated for no reason. They don't want occupants to be bothered and desensitized to danger by a temperamental alarm system. And they don't want their local authorities on their backs or their fire department imposing fines for unnecessary emergency calls. Revenue and productivity are at stake. The 2X Series systems address these concerns through simple operation and easy service.

It's important to stress with building owners the breakthrough in system efficiency that 2X Series systems represent. Intelligent life safety technology enhances the invisibility of the system from a building owner's perspective. It is more efficient, more reliable, more accurate and more stable than conventional systems. It offers greater flexibility and is less prone to nuisance alarms. But until now this technology was out of range for most small building applications. This had to do with cost and the extensive maintenance required by complex intelligent systems in the past. The 2X Series offers owners of "smaller" buildings a highly efficient means of bringing the advantages of high-end intelligent technology to their properties, helping them manage safer environments with more confidence than ever before, but with the ease of use of a simple conventional system, where practically no training is required.

Quick installation and short service calls for their 2X Series equipment are definite advantages that building owners will appreciate. The fact this technology virtually eliminates nuisance alarms will frequently tip the balance in favor of intelligent technology over conventional systems. The timesaving advantages of the 2X Series over the competition will tip that balance even further.

Detector diagnostics make annual testing simple and quick. Building occupants aren't overrun with technicians, and sensitive building areas remain secure.

The clean and simple design approach is carried right through to the aesthetics of 2X Series control panels. Their attractive appearance means they won't be a blemish on an expensive architectural design. The gently lined and curved door with the combination of the intuitive dark inset user interface and Jog Dial offers a distinctive flair.

## Benefits for Building Owners

Building owners and facility managers want to focus on their buildings, not the life safety system. The worry-free operation of 2X Series systems is a key selling feature for them. The quick setup enjoyed by installers, coupled with the high efficiency gained by service and maintenance personnel make the 2X Series the best choice for building owners today.

Simple and intuitive front panel operation keeps building personnel in control of their 2X Series system. They won't find themselves scrambling for the manual as the system counts down to alarm. And they won't have to call you every time an electrical storm causes a power outage.

The 2X Series also represents life safety intelligence geared expressly for smaller applications that used to be the exclusive domain of conventional systems. With the 2X Series, building owners now have access to technology that a short time ago was beyond the reach of most small building budgets.

These intelligent systems offer the building owner a fast and simple way to upgrade from their cumbersome conventional control panel. In fact, the 2X Series can use the same wiring for the detectors and notification devices like sounders and beacons. Using base sounders will bring this even a step further by saving on wiring and detector bases. In case conventional loops need to remain a zone loop monitor can incorporate them. This means the building owner doesn't have to bear the expense of additional wiring and bases, and keep the disruption it would cause among building occupants to a minimum and expanding the system in the future or an existing system can be done in no time.

Building owners also gain an advantage over conventional systems by being able to identify the specific device or location of the alarm or abnormal condition. The location and point details are displayed right on the panel. This provides fast response for emergency conditions. It also simplifies maintenance by identifying, which individual devices require attention.

With automatic drift compensation, the 2X Series continuously tunes detector sensitivity by adjusting for environmental conditions such as dirt and humidity. These features further reduce the risk of nuisance alarms, avoiding the disruption to building occupants and fire department fines that result.

## Life Simplifying highlights for Building Owners...

- Simple and intuitive front panel control
- Reduced nuisance alarms
- Pinpoints device location
- Identifies detectors requiring cleaning
- Replaceable detector chamber
- Easy maintenance
- Straightforward annual inspections
- Architecturally pleasing design

Sleek, low profile devices complement the overall design appeal of the 2X Series, and make the 2X Series combination an even more attractive choice for building owners.

The inherent reliability of intelligent detection and the proven track record among UTC Fire & Security life safety systems is an assurance to the building owner that their 2X Series control panel will slip quietly into the background and provide fully-compliant trouble-free service for years to come the moment the installer leaves the site.

# 2X

## Applications

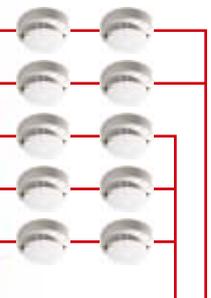
An easy alternative to conventional technology for...

- Schools
- Department Stores
- Dormitories
- Grocery Stores
- Nursing Homes
- Office Buildings
- Assisted Living
- Banks
- Hospitals
- Child Care Centers
- Clinics
- Light Manufacturing
- Strip Malls
- Warehousing
- Restaurants
- Apartment Buildings
- Retail Facilities
- Hotels and Motels
- Cinemas
- Utilities
- Etc.

### Multiple Occupancy



### Multi-story/Multiple buildings

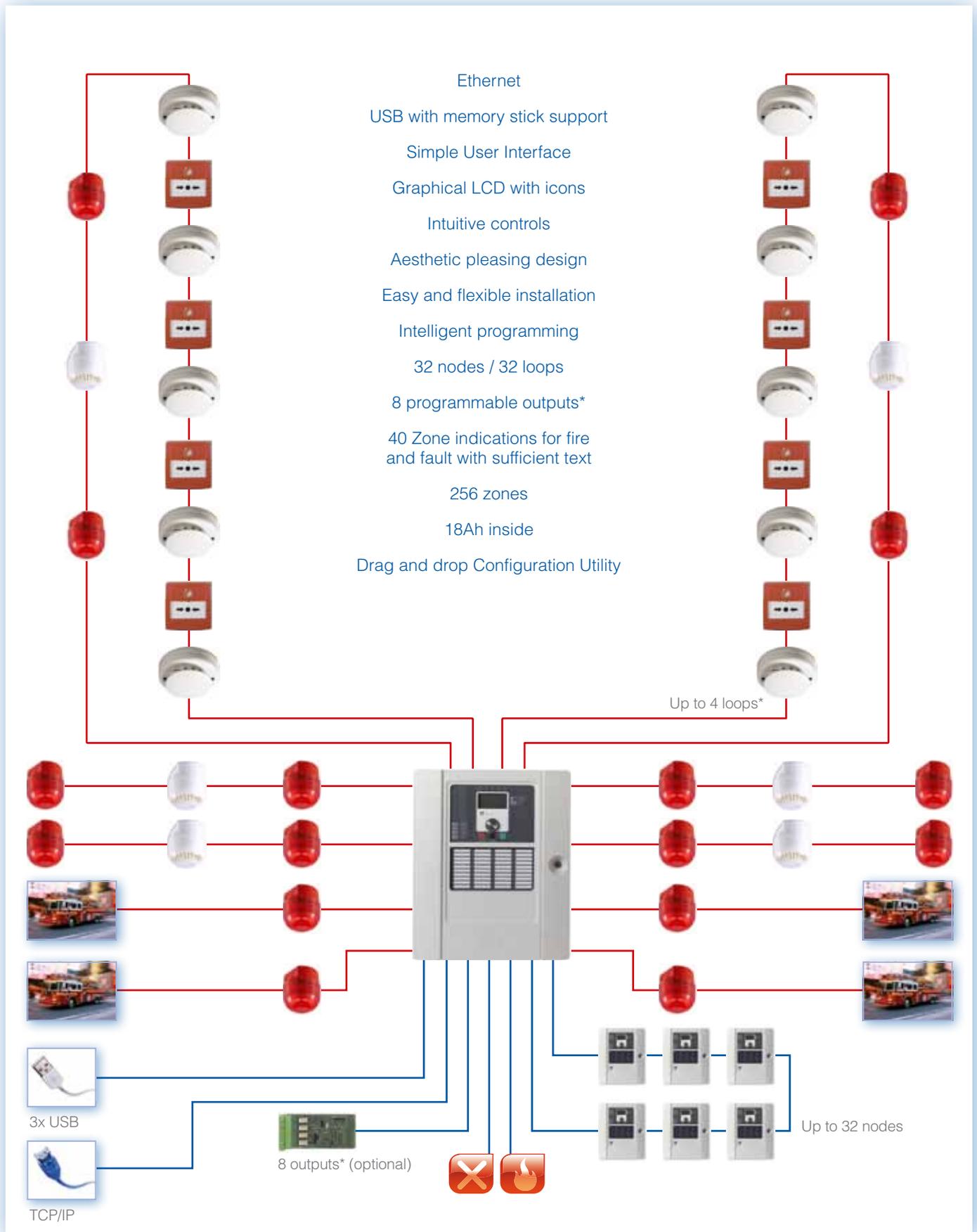


# Selling Point Summary

Available Innovation	Selling Point	Audience
Icons and Symbols	The big and bright graphical LCD shows the events and notification with recognizable icons. Language independent.	Facility managers & Building owners
Aesthetic pleasing design	Blends in without doing any blemish on the interior	
Multi language user interface	If more languages are needed on the fly, they are only away one push on the button	
Main control buttons clearly indicated	Less confusion, less error when fast reaction is required	
32 nodes / 32 loops systems	Large system capacity with lots of room for expansion. Up to 16 floors with a panel on each floor if required.	Installers
Networking with the 1X	Seamless integration of conventional into addressable systems	
Soft buttons & Jog Dial	Simple and fast control over events and the menu	
Ethernet port standard	No special equipment required for central monitoring or programming	
65Ah battery box in matching design*	Still aesthetic pleasing even when more power is required and give up to 72 hours standby time for a fully load system with 30 minutes of alarm	
18Ah batteries inside	Supports huge systems for 24hour standby time with 30 min of alarm or still numerous applications for 72 hours with 30 min of alarm.	
Spirit level build in	The whole system is build such that minimum tool are required	
Sufficient cable entries	No problem getting the wiring inside the panel	
Enough cable dressing solutions	Keep also the inside clean and professional looking	
Up to 6A power supplies*	You need power you get power.	
Pluggable connections	In case components need to be removed your cables can remain on the connectors.	
All optional EN54 requirements	All optional EN54 requirements in the EN54-2 are included and certified with CPD making sure your system is reliable and up to date to the latest standard	
Country specific presets	No mistake for error and give you even quicker setup	
Quick-install component chassis / removable door	Prevents electronics from becoming damaged during building construction	
One-man walk test	Quick verification of system operation	
Earth fault detection	Reducing troubleshooting time on site	
2 + 2 loops*	You want to drive 4 loops, just add-in an extra 2 in the 2 loop panel which gives you the expansion you need	
USB memory stick support	You can download / upload your latest configuration or reports on a memory stick	Service Technicians
Incremental panel wizard* and auto-configuration with undo	For fast upgrade or modifications. You don't like what you did just undo to go back to last configuration	
Printer build inside*	Have always a hard copy of you events and history log	
Ethernet port standard	Generate and download system reports before heading out the door	
Device level fault or warning identification	Check the dirty level of a detector or investigate the fault message from your office	
Replaceable optical chamber	No difficulties and time consuming operations trying to clean the detector. No special tools required. Replace the optical chamber and your detector is as good as new.	

# 2X

## Competitive advantages



# Product summary

## **2X-F1 Addressable Fire Panel with User Interface – 1 loop**

Fixed one loop fire panel that supports up to 128 addressable devices of any type and 2 sounder outputs. USB and Ethernet on board.

## **2X-F2 Addressable Fire Panel with User Interface – 2 loop**

Two loop fire panel (upgradeable to four loops\*) that supports up to 512 addressable devices of any type and up to 8 sounder outputs. USB and Ethernet on board.

## **2X-FR Addressable Fire Panel Repeater with User Interface**

Remote repeater with common controls and global functionality.

2010-2FB Addressable Fire Panel Black Box without User Interface – 2 loop

Two loop fire panel (upgradeable to four loops\*) without user interface and controls that supports up to 512 addressable devices of any type and up to 8 sounder outputs. USB and Ethernet on board. Full metal back box and door.

## **Available Option Cards**

- Loop expansion board (2 extra loops)\*
- Relay board (8 outputs – standard 2 relay + 6 open collector)\*
- Network board (to connect up to 16 addressable panels in a network with a maximum of 32 loops)
- 20-zone LED indicator (Fire + Fault / zone)
- 40-zone LED indicator (Fire + Fault / zone)

## **System Accessories**

- Build-in printer\*
- Translucent protection door\*
- 19" rack mount trim\*
- Flush mount trim\*

## Related literature and sales tool

- Sales Brochure
- Datasheets
- System Builder
- Spec Builder



## Available addressable devices and device accessories

### Detectors (2000 Series)

DP2061N	2000 Series Optical Sensor, Dual LED
DP2061T	2000 Series Analogue Multi-Sensor Optical/Heat
DP2071	2000 Series Optical Analogue Sensor, 7-segment, Remote Output
DT2063	2000 Series Heat Analogue Sensor, LED, Remote Output
DT2073	2000 Series Heat Analogue Sensor, 7-segment, Remote Output
FD2705R	2000 Series Analogue Addressable Reflective Beam Detector - 50 m
FD2710R	2000 Series Analogue Addressable Reflective Beam Detector - 100 m

### IO Units

DM2010	Addressable MCP, RED, 2000 Series, Surface Mount with Glass
DM2010E	Addressable MCP, RED, 2000 Series, Surface Mount with glass, IP67
DM2010G	Addressable MCP, GREEN, 2000 Series, Surface Mount with glass, Evacuation
DM2010Y-3	Addressable MCP, YELLOW, 2000 Series, Surface Mount with Glass and Hinged Cover (Language Group 3)
DM2080BI	2000 Series Addressable Manual Call Point with Isolator - BLUE
DM2080FI	2000 Series Addressable Manual Call Point with Isolator - RED - Fire Brigade (Box of 10)
DM2080GRI	2000 Series Addressable Manual Call Point with Isolator - GREY - Smoke Extraction
DM2080I	2000 Series Addressable Manual Call Point with Isolator - RED
DM2080YI	2000 Series Addressable Manual Call Point with Isolator - YELLOW - Extinguishing
IO2014C	2000 Series Module 4 Inputs (including IO-2BOX)
IO2031C	2000 Series Module I/O 2in/1out (including IO-2BOX)
IO2032C	2000 Series Module I/O 2in/2out (including IO-2BOX)
IO2034C	2000 Series Module I/O 4in/4out (including IO-2BOX)
IU2016	2000 Series Loop Isolator
IU2050	2000 Series Single Input Module
IU2055C	2000 Series 2-wire Zone Monitor Unit (including IO-2BOX)
IU2060	Isolator Module
IU2080C	2000 Series Sounder Module (including IO-2BOX)

### Accessories

AI672	Remote Indicator
AI673	Remote Indicator with Acoustic
DB2002	2000 Series Standard Base 4 Terminals-Analogue
DB2002U	2000 Series 150 mm Base 4 Terminal with Ground
DB2003	2000 Series Base for IU2016 Isolator
DB2004	2000 Series Deep Base for Analogue Addressable Sensors
DB2016	2000 Series Isolator Base
DP2CAP-ICT	2000/700 Series Insect Protection Cap (10 Pack)
IO-2BOX	2000 Series Mounting Box
OR2000	Optical Reflector for Beam Detectors

Available addressable and loop-powered sounders with 32 tones including slow-whoop and DIN tone

### Sounder / Beacons

AS2363	2000 Series Loop Powered Sounder, Multi Tone, Shallow base
AS2364	2000 Series Loop Powered Sounder, Multi Tone, Deep base
AS2363W	2000 Series Loop Powered Sounder, Multi Tone, Shallow base. White
AS2364W	2000 Series Loop Powered Sounder, Multi Tone, Deep base. White
AS2366	2000 Series Loop Powered Sounder/Beacon, Multi Tone, Shallow base
AS2367	2000 Series Loop Powered Sounder/Beacon, Multi Tone, Deep base
AS2366W	2000 Series Loop Powered Sounder/Beacon, Multi Tone, Shallow base, White
AS2367W	2000 Series Loop Powered Sounder/Beacon, Multi Tone, Deep base, White
AS2366WY	2000 Series Loop Powered Sounder/Beacon, Multi Tone, Shallow base, White/Amber
AS2367WY	2000 Series Loop Powered Sounder/Beacon, Multi Tone, Deep base, White/Amber

### Base Sounders\*

DB2368IAS-R	2000 Series Loop Powered Base Sounder, Isolator, Multi Tone, Red
DB2368IAS-W	2000 Series Loop Powered Base Sounder, Isolator, Multi Tone, White

\* Not available from phase 1



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