



# Axis<sup>AX</sup>

High-performance fire system  
that's certified to UL 864





# Harding Technologies is the exclusive distribution partner of Advanced fire products in North America.

Since 1969, Harding has built its reputation as a developer and distributor of leading-edge electronic products for communications, life safety, oil and gas, biomedical, agricultural, and heavy equipment industries.

When you buy your Advanced equipment from Harding, you're accessing versatile fire safety technology, trusted in over 80 countries, backed up by Harding's expertise, customer service and commitment to quality.

The Harding sales, customer service and technical support teams are ready to assist you with specifications for projects, quotations for bills of materials and product applications.

Please call toll-free for advice and support and to find out about becoming a Harding/Advanced distributor: (1) 866-462-7100.

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 Panels certified to  
UL 864 10th Edition



# Advanced fire safety peace of mind

At Advanced, we're committed to creating a safer future. Our wide range of fire safety solutions are trusted for their performance, quality and ease of use, and protect people and property in more than 80 countries across the globe.

Our products are shaped by decades of research and development expertise as well as ongoing investment in new technologies.

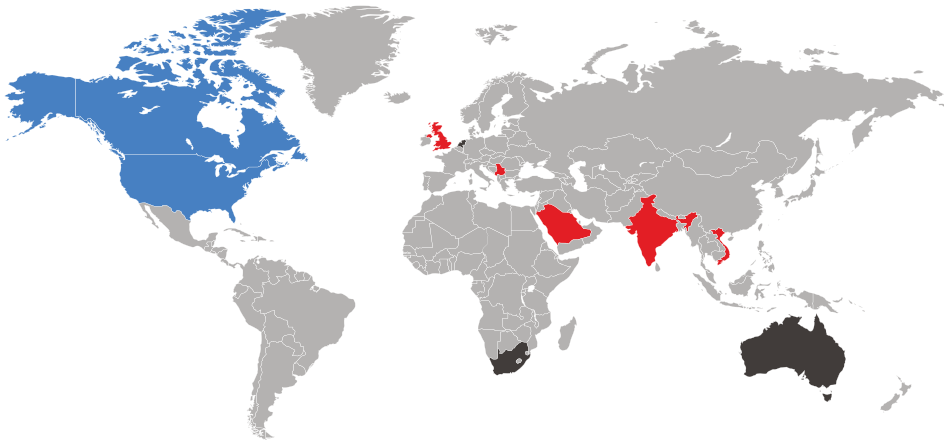
Everything we deliver is rigorously tested and approved to exacting quality standards. You can be confident in your choice of Advanced products for many years to come.



We are dedicated to providing excellent service and have an international network of offices and agents to help you access sales support with ease – wherever you are in the world.

In North America, our exclusive partner is Harding, who offer training, support and advice on our products.

For added reassurance, Advanced is part of the safety sector of Halma plc. This global group of life-saving technology companies has a clear purpose to grow a safer, cleaner, healthier future for everyone, every day.



Sands Pointe, Miami



Trinity Episcopal Church, Rhode Island

Axis<sup>AX</sup> protects...



IPEC, Las Vegas



Coconino High School, Arizona



DoubleTree by Hilton, Boston North Shore



Experts in meeting stringent New York City high-rise requirements



# The High-Performance UL Fire System

Axis<sup>AX</sup>

- is our complete solution for customers demanding a versatile, high-performing fire system that's fully approved to UL 864 10th edition
- combines addressable panels with audio systems, command centers and a versatile and comprehensive range of wired devices including CO detectors to bring you performance, quality and ease of use
- includes intuitive programming, powerful networking, comprehensive cause and effect and unique diagnostic features that put you in complete control of your fire protection and provide that all-important peace of mind
- can be manufactured with either red or grey fire panels to suit your needs
- is a modular system, offering a wide variety of configurations and applications
- is designed to go anywhere you need high quality, reliable and easy-to-use fire detection and control, from mass transportation and industrial complexes to landmark developments, historic buildings and public services.



Panels certified to  
UL 864 10th Edition



Easy to install  
and use

Axis AX is built on Advanced's outstanding pedigree of fire alarm and detection experience to bring you a range of UL 864-approved fire panels that are simple to install, configure and use.

- Easy-fix removable chassis and in-built software make Axis AX fire panels quick and easy to set up
- Powerful networking, extensive configuration options and comprehensive cause and effect put you in complete control
- Intuitive controls and menus, with simple click-and-select programming for simple and easy commissioning
- The panels support intelligent annunciators, I/O drivers and BMS interface for integration with building management systems
- All panels and command centers are manufactured in the UK
- Our highly rated technical support team can help with advice, tips and training.



Versatility  
and choice

We know that sites can expand, and fire protection requirements change and evolve over time. That's why we've designed Axis AX to be scalable and flexible, able to adapt as required with minimal fuss or disruption.

- Standalone control panels in one, two and four SLC formats so you can choose the panel size that meets your requirements and budget
- Command centers in modular format, offering a wide variety of configurations and applications
- Remote annunciators available
- Each 500mA digital signalling line circuit supports up to 126 intelligent devices and unique industry sub-addresses
- Up to 200 zones per panel and 25,000 devices per network.







## Powerful, flexible service reporting

Every Axis AX panel includes an inbuilt easy-to-use, windows-based service tool which saves you time and money by providing easy, instant access to historic and real-time device data, and shows proof of servicing at a glance.

- Demonstrate proof of servicing, download service reports, inspect the device history and keep track of service schedules
- Customizable data filters make it easy to focus on potential trouble spots and ensure they're checked and tested during servicing
- Predict which devices are becoming contaminated so you can clean/replace them before they cause a false alarm
- Customize reports to show the data you need and export it as PDF, Excel or HTML files to prove compliance simply and efficiently.



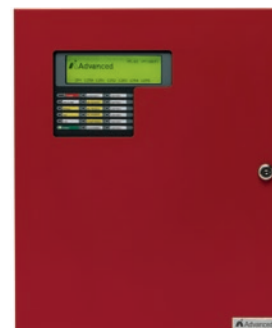
## Packed with premium features

Every Axis AX panel and command center comes with a host of advanced features built in as standard, giving you peace of mind that you won't need to buy expensive add-ons in the future.

- Unique diagnostic features provide readings on the panel from any loop, making it easy to identify and investigate any issues
- Comprehensive network diagnostic tools prevent the loss of critical event information transmitted across the network
- Built-in multimeter measures all voltages and currents across the system, so you can speed up the commissioning process by identifying voltage/current levels in real time
- Standard peripherals include direct USB and RS232 PC connections, and peripheral expansion is built in for added peace of mind
- Modular in construction, with the ability to program your own company logo to appear on the fire panel screen
- 18 built-in LEDs as standard, 6 of which are freely programmable
- Unique auto-test of battery cell integrity
- Easy to synchronize audio and strobes
- Command centers are intuitive and easy for firefighters to operate
- Integrated control of fans and dampers, with unique spreadsheet-style programming matrix
- Built-in false alarm management technology.

# Axis<sup>AX</sup>

## Axis AX – 1-Loop Compact



- Class X (A) or B operation
- 126 addressable intelligent points
- Available in a compact enclosure
- 2 x 2 Amp Class A or Class B programmable NAC circuits
- 3 x on-board relays. 1 trouble, 2 programmable
- System keys for reset, acknowledge, silence, resound and drill
- 3 freely programmable system keys
- 18 on-board LED indicators, 6 of which are freely programmable

## Axis AX – 1, 2 or 4-Loop



- Class X (A) or B operation
- 126, 252 or 504 intelligent addressable points SLC dependent
- 2 x 2 Amp Class A or Class B programmable NAC circuits as standard, expandable to a total of 4 NAC circuits, 7 Amps overall
- 3 x on-board relays. 1 trouble, 2 programmable
- System keys for reset, acknowledge, silence, resound and drill
- 3 freely programmable system keys
- 18 on-board LED indicators, 6 of which are freely programmable
- 5 to 10 Amp system power

## Axis AX – Remote Annunciators



- Class X (A) or B operation network interface
- C version has annunciation and programmable control
- D version annunciation only
- On-board USB programming port
- Peer-to-peer, cross-node operation
- Monitored external trouble input
- Info displayed fully configurable to any combination of fires, troubles, supervisory or other alarms
- Both models include programmable status LEDs
- Model ANN-C provides 3 freely programmable function keys
- Optional tamper-proof and weather-proof enclosures

## Axis AX – with Integrated Audio



- Standalone or networked integrated audio
- Fully scalable – up to 200 intelligent panels
- AV-VB audio booster with synchronized audio
- Remote microphone channel
- Powerful yet simple I/O relationship programming
- AV-VB boosters expand audio wattage (16 per panel)
- Integrated 80 Watt digital audio
- Local internally-mounted microphone and switches

## PENN



Axis AX panels can be customised with a large range of peripheral cards wired directly to the panel, or via the PENN network device, anywhere on the network:

- Integrated and/or networked audio options (see following pages)
- Conventional zone module (8 Class B or 4 Class A) – up to 16 modules per panel
- 4-way high-current relay modules
- Dual NAC expander
- Class X (A) or B operation
- Fibre optic network converter module
- 48-way I/O switch/LED driver
- Panel-mounted printer
- 16-way switch/48 LED module

## Axis AX – Local Operating Consoles

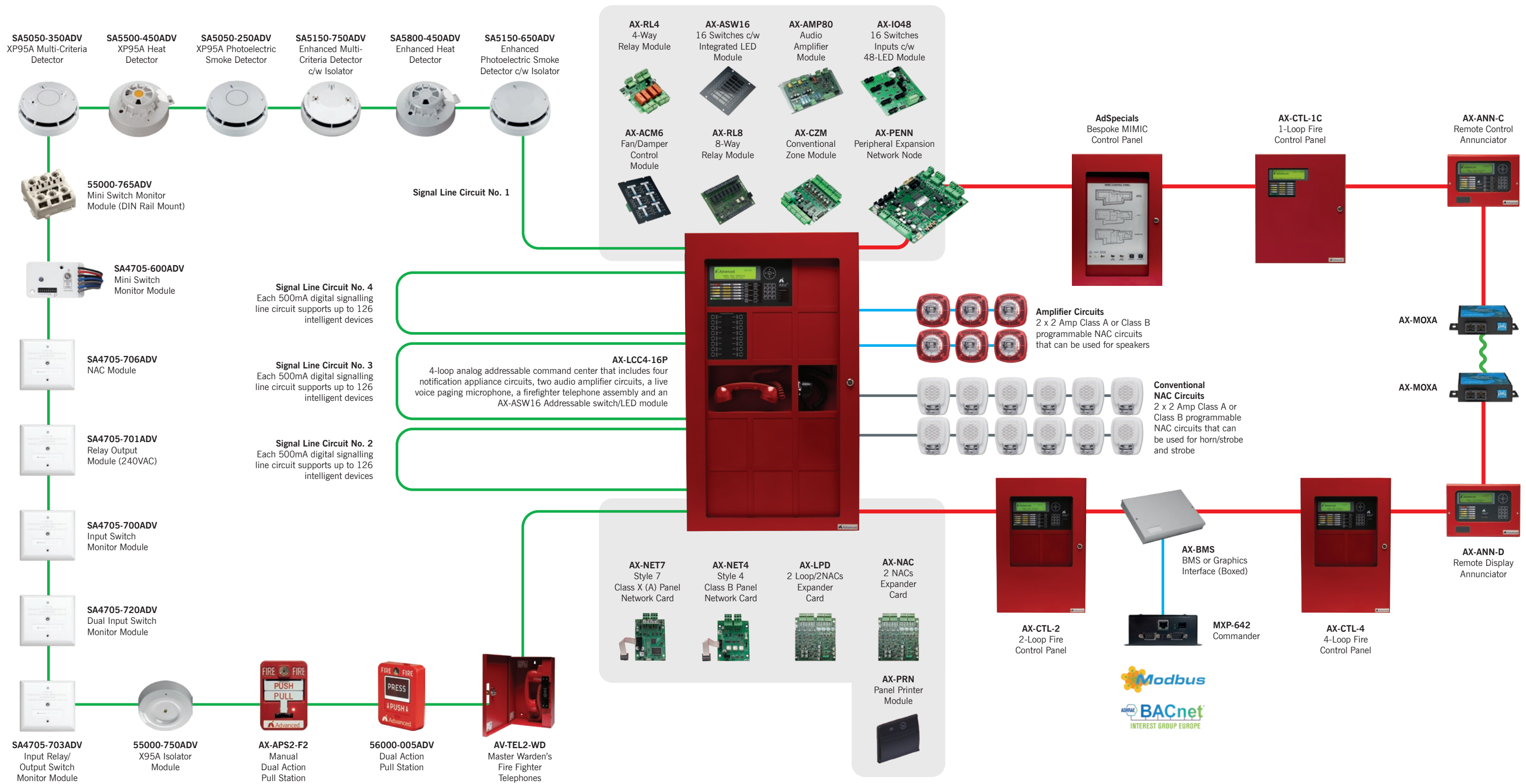


- User-friendly annunciation and control, identical to FACP
- Installation configurable operations and controls
- Class X (A) or B operation
- Programs with standard Advanced PC-Net software
- Supports up to 32 peripheral bus modules
- Multi-channel audio configurations
- Optional printer support



Panels certified to  
UL 864 10th Edition

# Axis<sup>AX</sup> Sample System Diagram



All SA4705 modules have in-built isolators



Integrated Audio and Firefighter Telephones

Axis AX comes ready for complete audio configuration. With the addition of an Advanced audio module (AV-AMP80), any Axis AX control panel or command center becomes fully audio capable.

A variety of firefighter telephones and telephone accessories are compatible with all Axis AX command center panels. Addressable telephones make control, supervision and identification superior to older technological solutions. Command centers come with easy-to-operate LED or LCD telephone switchboard monitoring and control displays.



Audio Booster Panel

- Easy and fast configuration with audio configuration wizard
- Designed to operate as a node on the Axis AX network
- Provides increased digital audio signalling during an emergency situation
- Each amplifier has two independent 40W, 25Vrms outputs
- Each amplifier contains an independent 16 channel digital message/tone generator
- Unique amplifier booster/cascading option
- Superb sound quality
- Simple programming via USB
- Two (2) Class A or B speaker circuits
- External AC power and trouble LEDs
- Internal service diagnostic and status indicators
- Each amplifier may be programmed for 1 to 1 backup
- Powerful CBE logic programming
- All amplifier audio output signals are synchronized across the AX network



Firefighter/Warden Page Telephone

- Magnetic, keylock or glass break door options
- Standard or armored cord phone cable
- Integrated dial, ring, busy and hold tones with connected LED indication

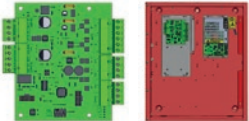


Command Center Firefighter Phone

- Compatible with Axis AX command centers
- Configured with AV-TEL2-RISE Telephone Riser Module
- Easy installation

Zone Splitter

- Fits Axis AX Command Center or Audio Panel
- Used with Audio Module
- 2 input/output options
- 1 input split into 4 outputs (total 30W)



Telephone Riser Module

- Each riser supports up to 250 phones, (two risers max)
- Live analogue audio, no digitisation
- Up to 5 telephones per riser may be active simultaneously
- Easy to configure with DynamixTools telephone wizard
- May be located remotely in separate enclosure or integrated into command center enclosure
- Supports fire warden remote paging feature
- Class A or B configuration

70 Volt Converter Module

- Compatible with Axis AX Audio Booster, Audio Panel, Integrated Audio panels and Command Centers
- Converts single or dual 25 Vrms audio output to 70 Vrms audio signal
- All wiring is fully supervised
- Ideal for retrofit applications



Conventional Firefighter Phone Jack

- A conventional firefighter phone jack for use with portable firefighter handsets
- Interfaces a portable firefighter handset to a master addressable firefighter emergency phone
- Up to 15 AV-CJACKS can be connected to a single master addressable firefighter emergency phone
- Requires AV-TEL2-MWPB module (primary firefighter phone interface PCB) to communicate to the master addressable firefighter emergency phone



Portable Firefighter Phone Handset

- Used with any Axis AX addressable telephone jack
- Tip and sleeve connection
- Built-in noise filter

Command Centers

Axis AX command centers are built on the backbone of our Axis intelligent fire panels to support a wide variety of configurations and applications.

All command centers are supplied in modular format for easy expansion and customisation. Our command centers can be ordered as fully configured. All of our command centers are fully compatible with Axis AX audio and telephone options. The Advanced telephone riser module can be mounted inside the command center or remotely within a separate telephone node for added security.

Axis AX Command Centers



- Order fully factory configured or in modular format for configuration on installation
- 1, 2 or 4 SLC
- 126, 252 or 504 addressable points SLC dependent

2 Cabinet Sizes

- 2 cabinet sizes (3'x3' and 3'x5')

Network Nodes and Accessories:

- AX-BMS module – provides interface to building automation system
- Ad-View graphics
- AX-LOCs – local operating consoles
- Smoke control panel
- Graphic annunciator(s)
- AX-VB distributed audio panels
- Telephone node
- Fiber converters

Features

- PerfectSync synchronization of audio and strobes across entire 200-node network
- DynamixSmoke dedicated/non-dedicated smoke control
- 520Hz audio support
- Failsafe operation if loss of master command center
- Supports multiple true peer-to-peer command center operations
- Intuitive and easy for firefighters to operate
- Supports request/control/deny command center operation
- Audio confirmation LEDs indicate when speaker zones are active
- All call, page evacuate, page alert and page inactive and selective paging features
- Manual activation of any message to any zone or group of zones
- No performance degradation as the number of network nodes expands
- DynamixSmoke smoke control
- Multiple emergency and non-emergency messages
- Integrated telephone annunciation (LED or LCD) and controls
- Software wizard provides default telephone and audio options making set-up easy and fast
- Powerful control-by-event programming with intelligent system test facilities provides superior system diagnostic and test functions
- Built-in network, AC power, aux power, battery and field wiring diagnostics
- Color-coded slide-in labels with large text to identify system functions
- Fire warden page
- PAS, 2-stage, alarm verification and event mode
- Zone and point disable/enable
- 1,000 system zones



Intelligent Detectors

Axis AX Enhanced Range

The new Axis AX range of detectors has been specifically developed to meet the demanding requirements of the latest UL standard. Fully compliant with UL 268 7th Edition, they offer swift and accurate fire detection using Purelight® sensing technology and high immunity to false alarms. The integrated smart isolator provides the exact location of any wiring faults and in-built drift compensation monitors the long-term drift of smoke sensors and automatically adjusts to maintain detector sensitivity. The new range is backwardly compatible with existing Discovery protocol installations.



Enhanced Photoelectric Smoke Detector

- Approved to UL268 7th edition
- Built-in isolator
- Purelight® optical technology for enhanced smoke detection and false alarm management
- Drift compensation
- Base locking mechanism
- In-built self test
- XPERT card addressing
- Backwards compatible



Enhanced Heat Detector

- Approved to UL521
- Electronic temperature sensing
- Alarm flag for fast alarm responding
- Easy installation
- Unaffected by wind or atmospheric pressure
- Ideal for environments that are dirty or smoky under normal circumstances



Enhanced Multi-Criteria Detector (Smoke & Heat)

- Approved to UL268 7th edition
- Built-in isolator
- Purelight® optical technology for enhanced smoke detection and false alarm management
- Drift compensation
- Base locking mechanism
- In-built self test
- XPERT card addressing
- Dual heat sensors

Advanced XP95A Range

For XP95A protocol users, the latest range of detectors is fully compliant with UL 268 7th Edition.

The detectors are simple to install, easy to use and backwardly compatible with existing XP95A installations. They offer complete peace of mind with fast and accurate fire detection, and a high resistance to false alarms.



XP95A Photoelectric Smoke Detector

- Approved to UL268 7th edition
- Purelight® optical technology provides enhanced smoke detection and false alarm management
- Internal drift compensation
- Easy installation
- In-built self test
- XPERT card addressing
- XP95 protocol compatible



XP95A Multi-Criteria Detector (Smoke & Heat)

- Fully approved to the latest UL268 7th edition and FM standards
- Purelight® optical technology provides enhanced smoke detection and false alarm management
- Dual heat sensors for additional fire condition assurance
- Internal drift compensation
- Easy installation
- In-built self test
- XPERT card addressing
- XP95 protocol compatible



XP95A Heat Detector

- Approved to UL521 7th edition
- Reliable fire detection in areas with a wide temperature range from 32°F to 151°F
- Ideal for environments that are dirty or smoky under normal circumstances
- Electronic temperature sensing
- Alarm flag for fast alarm responding
- XPERT card addressing
- XP95 protocol compatible

Compatible Bases



Mounting Bases

The following bases are compatible with both Axis AX Enhanced and XP95A detectors

- AX UL base 4"
- AX UL base 6"



Sounder Bases

High frequency and low frequency sounder bases and CO detector/sounder bases, compatible with AX enhanced and XP95A detectors

Audio Visual, Modules and Pull Stations

Loop-Powered Sounders & Beacons



Enhanced Open Area Sounder/Beacon

- UL464 certified
- 15 pairs of tones
- 7 volume levels
- Visual indicator beacon (red-flash)
- Available in red or white



XP95A Open Area Sounder

- UL464 certified
- Available in red or white
- Two programmable tones and volume settings
- Built-in signal synchronisation
- Individual and group addressing

Pull Stations



Manual Single/Dual Action Pull Station

- Single or dual action
- Low-profile, high-visibility design
- Visual indication of activation including red status LED
- Integrated Form C relay contact
- Surface or semi-flush mountable
- Available in special application colors
- Key lock for reset
- Die-cast metal construction



Dual Action Polycarbonate Pull Station

- Low-profile, high-visibility design
- Visual indication of activation including red status LED
- Internal access without alarm activation
- Lock reset
- Surface or semi-flush mountable
- Captive-screw terminals

Intelligent Modules



Mini Switch Monitor Module

- Built-in isolator
- Visible LEDs
- Loop powered
- Ground fault detection
- Selectable priority to monitor equipment where a fast response is required
- Interrupt facility
- Fits into equipment that has limited space
- Improved design for ease of mounting



Switch Monitor Input/Relay Output Module

- 240V rated volt-free relay output
- Built-in isolator
- Visible LEDs
- Loop powered
- Ground fault detection
- Improved design for ease of mounting



NAC Module

- Built-in isolator
- Visible LEDs
- Loop powered
- Can be used for public address speakers
- Power supply health monitoring
- Reverse polarity detection
- AC/DC monitoring (limited by wire length)
- Improved design for ease of wiring



Switch Monitor Module

- Built-in isolator
- Visible LEDs
- Loop powered
- Ground fault detection
- Selectable priority to monitor equipment where a fast response is required
- Interrupt facility
- Improved design for ease of mounting



Dual Switch Monitor Module

- Built-in isolator
- Visible LEDs
- Loop powered
- Ground fault detection
- Selectable priority to monitor equipment where a fast response is required
- Interrupt facility
- Improved design for ease of mounting



Relay Output Module

- 240V rated volt-free relay output
- Built-in isolator
- Visible LEDs
- Loop powered
- Improved design for ease of wiring



# Advanced Networking

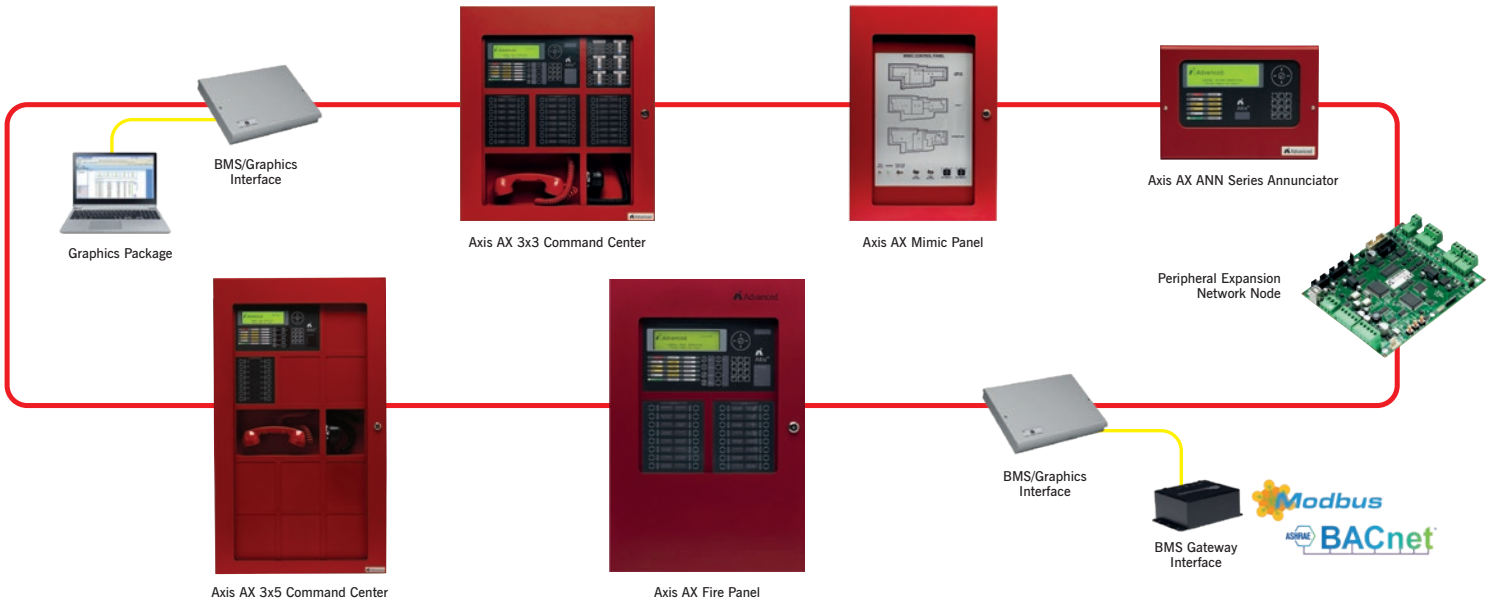
Advanced delivers fast, reliable, peer-to-peer communications from the smallest two-panel network up to a large 200-node network.

Advanced network systems are fully scalable to suit virtually any application including ‘campus’ style and ‘high-rise’ style configurations. Built-in diagnostics and test facilities make installation and ongoing maintenance simple. Performance exceeds multiple international standards.

- Peer-to-peer performance for optimum distributed intelligence
  - Consistent system performance independent of the number of nodes
  - Synchronisation of audio and strobes across entire 200-node network
  - Failsafe operation if loss of master command center
  - Supports multiple true peer-to-peer command center operations
  - Request/control/deny
  - Sectoring feature allows customised operations per node
  - Integrated or isolated high-rise telephone network option
  - Offline test option isolates panels from network during testing without fear of false alarms
- Class X (A) (Style 7) wiring with redundant signal path. Max 200 nodes and 66000ft.

Class X is resistant to an open circuit fault as well as a wire-to-wire short due to isolation of the short allowing uninterrupted network communication. Class A is resistant to an open circuit fault only, though a wire-to-wire short will mean total loss of network.
- Class B (Style 4) wiring without redundant path. Max 32 nodes and 5000ft
  - Fibre cable – 16,404ft max between nodes
  - AX-BMS interfaces to third-party building automation and controls solutions via standard BACnet or Modbus communications
  - AdView graphics provides graphical user interface in single or multiple stations

- One configuration tool is required to program Axis AX panels. Diagnostic features prevent erroneous actions that may be detected prior to on-site installation and test
- Each intelligent audio node contains up to 16 digital messages which are synchronized across the 150-node network
- SLC power technology built into each panel provides tremendous application options
- Nodes may be customised to suit any application, reducing installation costs and maximizing performance. Nodes may (or may not) include SLC, displays, microphones, telephones, amplifiers, power supplies, switch modules, and any AX peripheral device.



Type of network	Class B – no redundant path	Class X (A) – with redundant path
Setup	Class B network card	Class X (A) network card
Maximum cable length	Up to 1.5 km	Up to 1.5 km between nodes
No. of nodes	32	200
No. of zones	Up to 1,000	Up to 1,000
Typical time to communicate first event	1 second	3.5 seconds

## DynamixSmoke

Complete Smoke Control

Approved to UL 864 UUKL requirements

### Integrated Fan and Damper Control

Advanced's Axis AX fire system features **DynamixSmoke**, dedicated and non-dedicated fan and damper control, for fire and life safety. As you'd expect from Advanced it's a high-performance solution that is easy to configure and maintain, even on the most complicated sites.



- ### Features
- Regulatory compliance assured
  - Automatic and manual smoke control options in accordance with NFPA and National Building Code Standards
  - Dedicated smoke control auto/manual controls and LED status indicators
  - Customized FSCS firefighter smoke control (graphic) stations can be located locally or remotely
  - Groundbreaking ease of use
  - Simple spreadsheet-style programming matrix is a step change that makes even the most complex smoke control programming easy
  - System divided into virtual smoke control compartments in software for automatic fan and damper control (cbe)
  - Uses standard I/O modules for fan and damper interfacing. Software auto-configures outputs for run/stop and open/close, with feedback inputs if required
  - All options configurable from one dedicated menu with the ConfigTool
  - Interlocking feature to prevent over pressurization of ducts
  - Post-fire purge options with configurable priorities
  - Auto stairwell pressurization option
  - Key switch enable/disable option
  - Manual controls can be configured for one-to-one operation, or grouped one-to-multiple fans or dampers
  - Duct probe option – will override auto settings if smoke detected
  - Dedicated smoke control reset function
  - All manual controls take priority over automatic mode
  - Adjustable feedback delay ensures fans are given time to run or a damper is allowed time to travel before any trouble conditions reported
  - Fully programmable sequential fan restart to avoid power spikes
  - Automatic testing of fans and dampers including scheduled 'holiday' dates
  - Engineering test menu allows HVAC to be controlled using panel menu and provides current operation and status feedback
  - Customizable intelligent graphic annunciators with simple connection and configuration via panel P-BUS/PENN.

Watch the DynamixSmoke video on YouTube: [▶ Advanced Fire](#)





PerfectSync delivers best-in-class synchronization of audio and strobes for fire and life safety applications. PerfectSync achieves a level of integrity and performance not seen before.

### Features

- Synchronization of audio and strobes across entire Axis AX network
- Dynamically adjusts as conditions change
- Prevents confusion during an emergency
- Aids in meeting intelligibility requirements
- No need for special programming or wiring
- Axis AX network capacity
  - 150 nodes (panels) maximum when network incorporates audio
  - 2300 distributed amplifiers
  - Each amplifier contains its own digital message generator
  - Each message generator can support 16 messages
  - 800 built-in NAC circuits
- **Total synchronization**  
All speakers turn on and are fully synchronized even if the same message is played from different amplifiers connected to different panels on a large network. The maximum time to re-activate any speaker output following the first message played does not exceed 5 seconds.

When a fire spreads, any new affected areas or higher priority messages will begin immediately. This may result in some areas of the building being briefly out of sync. With PerfectSync these areas will quickly re-synchronize even on a large network system. Similarly paging operation may result in some areas of the building being temporarily out of sync as any automatic message must recommence from the beginning. With PerfectSync these areas will quickly re-synchronize.

#### • More audio flexibility

Up to 16 digital pre-recorded messages per amplifier. Simple 3-channel audio (evacuate, alert, page) to complex multi-channel notification including individual message prioritization.

Unique audio engineering test feature confirms which amps are active, what message is playing, and can select and play a message in a specific area.

Command center audio control lockout with indication of who's in control.



## Fire and Emergency Telephone System

### Exceptional Clarity for Superior Performance



### Providing robust telephone communication channels ensures maximum safety.

The Advanced fire and emergency telephone system provides:

- **Addressability** – for precise identification of the location of field telephone users.
- **Flexibility** – so it can be configured as a standalone, independent system or completely integrated into the fire system.
- Crystal-clear live voice channels with no delays or echoing.
- Reassurance of communication channel status via dial, ring, busy and hold tones, as well as local LED indication at each addressable handset.

#### Quick and easy to install and configure.

Ideal for installations where local fire departments and emergency/facility personnel need access to fire/emergency telephone communications, e.g. in high and low-rise buildings, hotels, universities, government and military sites.

As an entire telephone system can be installed and configured to operate standalone without panels, Advanced fire and emergency phones are also perfectly suited to any retrofit or non-fire application.



Axis<sup>AX</sup>

Parts List

Product Code	Description
<b>Fire Alarm Control Panels (painted red)</b> <i>Also available in grey by adding -G to product code</i>	
AX-CTL-1C	1-Loop Fire Alarm Control Panel (compact enclosure)
AX-CTL-1L	1-Loop Fire Alarm Control Panel (larger enclosure with 2x2 matrix)
AX-CTL-2	2-Loop Fire Alarm Control Panel (2x2 matrix enclosure)
AX-CTL-4	4-Loop Fire Alarm Control Panel (2x2 matrix enclosure)

<b>Fire Alarm Control Panels with Audio &amp; Microphone (painted red)</b> <i>Also available in grey by adding -G to product code</i>	
AX-CTL-1V	1-Loop Fire Alarm Control Panel c/w Audio & Microphone (2x3 matrix enclosure)
AX-CTL-2V	2-Loop Fire Alarm Control Panel c/w Audio & Microphone (2x3 matrix enclosure)
AX-CTL-4V	4-Loop Fire Alarm Control Panel c/w Audio & Microphone (2x3 matrix enclosure)

<b>Fire Alarm Command Center with Audio, Microphone &amp; Switch Card (painted red)</b> <i>Also available in grey by adding -G to product code</i>	
AX-CC1-16	1-Loop Fire Alarm Command Center c/w Audio, Microphone & Switch Card (standard 3x3 matrix enclosure)
AX-CC2-16	2-Loop Fire Alarm Command Center c/w Audio, Microphone & Switch Card (standard 3x3 matrix enclosure)
AX-CC4-16	4-Loop Fire Alarm Command Center c/w Audio, Microphone & Switch Card (standard 3x3 matrix enclosure)
AX-LCC1-16	1-Loop Fire Alarm Command Center c/w Audio, Microphone & Switch Card (large 3x5 matrix enclosure)
AX-LCC2-16	2-Loop Fire Alarm Command Center c/w Audio, Microphone & Switch Card (large 3x5 matrix enclosure)
AX-LCC4-16	4-Loop Fire Alarm Command Center c/w Audio, Microphone & Switch Card (large 3x5 matrix enclosure)

<b>Fire Alarm Command Center with Telephone, Audio, Microphone &amp; Switch Card (painted red)</b> <i>Also available in grey by adding -G to product code</i>	
AX-CC1-16P	1-Loop Fire Alarm Command Center c/w Telephone, Audio, Microphone & Switch Card (standard 3x3 matrix enclosure)
AX-CC2-16P	2-Loop Fire Alarm Command Center c/w Telephone, Audio, Microphone & Switch Card (standard 3x3 matrix enclosure)
AX-CC4-16P	4-Loop Fire Alarm Command Center c/w Telephone, Audio, Microphone & Switch Card (standard 3x3 matrix enclosure)
AX-LCC1-16P	1-Loop Fire Alarm Command Center c/w Telephone, Audio, Microphone & Switch Card (large 3x5 matrix enclosure)
AX-LCC2-16P	2-Loop Fire Alarm Command Center c/w Telephone, Audio, Microphone & Switch Card (large 3x5 matrix enclosure)
AX-LCC4-16P	4-Loop Fire Alarm Command Center c/w Telephone, Audio, Microphone & Switch Card (large 3x5 matrix enclosure)

Product Code	Description
<b>Data Gathering Panels (painted red)</b>	
AX-DGP	Data Gathering Panel – supports up to 6x AV-AMP80, 6x AX-PSU-6 & AX-PENN modules
AX-DGP-FACP	Fire Alarm Data Gathering Panel – supports up to 3x AV-AMP80, 3x AX-PSU-6 modules & 1x fire alarm control panel incl. display & base card (1-4 loops)

<b>Local Operating Consoles (painted red)</b> <i>Also available in grey by adding -G to product code</i>	
AX-LOC1/ST4	Local Operating Console Type 1 c/w PENN (Style 4/Class B, standard network), Display, Audio, Microphone & Switch Card (deep 2x2 matrix enclosure)
AX-LOC1/ST7	Local Operating Console Type 1 c/w PENN (Style 7/Class X (A), fault-tolerant network), Display, Audio, Microphone & Switch Card (deep 2x2 matrix enclosure)
AX-LOC2/ST4	Local Operating Console Type 2 c/w PENN (Style 4/Class B, standard network) & Display (shallow 2x2 matrix enclosure)
AX-LOC2/ST7	Local Operating Console Type 2 c/w PENN (Style 7/Class X (A), fault-tolerant network) & Display (shallow 2x2 matrix enclosure)
AX-LOC3/ST4	Local Operating Console Type 3 c/w PENN (Style 4/Class B, standard network), Display, Audio, Microphone & Switch Card (deep 2x3 matrix enclosure)
AX-LOC3/ST7	Local Operating Console Type 3 c/w PENN (Style 7/Class X (A), fault-tolerant network), Display, Audio, Microphone & Switch Card (deep 2x3 matrix enclosure)
AX-LOC4/ST4	Local Operating Console Type 4 c/w PENN (Style 4/Class B, standard network) & Display (shallow 2x3 matrix enclosure)
AX-LOC4/ST7	Local Operating Console Type 4 c/w PENN (Style7/Class X (A), fault-tolerant network) & Display (shallow 2x3 matrix enclosure)

<b>Remote Annunciators (painted red)</b> <i>Also available in grey by adding -G to product code</i>	
AX-ANN-C	Remote Control Annunciator (Style 4/Class B, standard network)
AX-ANN-C/ST7	Remote Control Annunciator (Style 7/Class X (A), fault-tolerant network)
AX-ANN-D	Remote Display Annunciator (Style 4/Class B, standard network)
AX-ANN-D/ST7	Remote Display Annunciator (Style 7/Class X (A), fault-tolerant network)

<b>Fire Alarm Control Panel &amp; Command Center Networking</b>	
AX-NET4	Panel Network Card (Style 4/Class B, standard network)
AX-NET7	Panel Network Card (Style 7/Class X (A), fault-tolerant network)
AX-DCI	24V-24V DC:DC Converter/Isolator Module
AX-MOXA	Serial to Fibre Optic Converter Module (multi mode)

Product Code	Description
<b>Peripheral Expansion Networking Interfaces</b>	
AX-PENN/ST4	Peripheral Expansion Network Node Card (Style 4/Class B, standard network)
AX-PENN/ST7	Peripheral Expansion Network Node Card (Style 7/Class X (A), fault-tolerant network)

<b>Fire Alarm Control Panel &amp; Command Center Peripheral Modules</b> <i>*Also available in grey by adding -G to product code</i>	
AX-SEB2	Serial Expansion Card – used with the AX-UCM3
AX-UCM3	Universal Communication Module c/w Mounting Plate, Interface Cable & Fixings
AX-LPD	2-Loop & 2-NAC Plug-In Expansion Module
AX-NAC	2-NAC Plug-In Expansion Module
AX-PSU	5A – Auxiliary Power Supply Module – used with 4-loop panel configurations
AX-CZM	Conventional Zone Monitor Module – 8x Class B or 4x Class A zones
AX-ASW16	16-Way Addressable Switch Card Module, c/w integrated LEDs (red, yellow & green)
AX-IO48*	16 Switch Inputs & 48 LED Driver Outputs – supports up to 5x AX-RL10 modules
AX-LED16RY	32-Zone Addressable LED Module (16x red & 16x yellow LEDs)
AX-LED32R	32-Zone Addressable LED Module (all red LEDs)
AX-LED32Y	32-Zone Addressable LED Module (all yellow LEDs)
AX-ACM6	Fan & Damper Control Module
AX-PRN*	Panel Printer Module
AX-CTY	City Tie – end of line module
AX-KSW	2 Position 90° Key-Switch Assembly – CAT30 key
AX-RL4	4-Way Programmable Relay Output Module
AX-RL8	8-Way Programmable Relay Output Module
AX-RL10	10-Way Programmable Relay Output Module – used with AX-IO48 module
EOL-ASSY-G	Single Gang EOL Module – used with AX-CZM module Note: Standard color is grey

<b>Fire Alarm Control Panel – Standard Modules</b>	
AX-ACB	AC Supply Interface Card – used with control panels & command centers
AX-DSP	Standard Display Module c/w Mounting Plate – used with control panels & command centers
AX-DSP/T	Telephone Extension Display Module c/w Mounting Plate
AX-CTL-1PCB	1-Loop Fire Alarm Control Panel/Command Center Base Card Module
AX-CTL-2PCB	2-Loop Fire Alarm Control Panel/Command Center Base Card Module

Product Code	Description
<b>Fire Alarm Control Panels – Spare Enclosures &amp; Inner/Outer Doors (painted red)</b> <i>Also available in grey by adding -G to product code</i>	
AX-01-BB	Control Panel (CTL), Back Box Enclosure – used with 2x2 or 2x3 matrix inner doors
AX-01-ID1	Control Panel (CTL), Inner Door 2x2 Matrix – used with AX-01-OD1 outer door module
AX-01-OD1	Control Panel (CTL), Outer Door Door – used with 2x2 matrix inner door
AX-01-ID2	Control Panel (CTL), Inner Door 2x3 Matrix – used with AX-01-OD2 outer door module
AX-01-OD2	Control Panel (CTL), Outer Door Door – used with 2x3 matrix inner door

<b>Fire Alarm Command Center – Spare Enclosures &amp; Inner/Outer Doors (painted red)</b> <i>Also available in grey by adding -G to product code</i>	
CCM-01-BB	Command Center Back Box Enclosure – used with standard 3x3 matrix inner doors
CCM-01-ID1	Command Center Inner Door (standard 3x3 matrix) – 1 double and 7 single apertures
CCM-01-ID2	Command Center Inner Door (standard 3x3 matrix) – 2 double and 5 single apertures
CCM-01-ID3	Command Center Inner Door (standard 3x3 matrix) – 9 single apertures
CCM-01-OD	Command Center Outer Door – used with standard 3x3 matrix inner doors
CCM-02-BB	Command Center Back Box Enclosure – used with large 3x5 matrix inner doors
CCM-02-ID1	Command Center Inner Door (large 3x5 matrix) – 1 double and 13 single apertures
CCM-02-ID3	Command Center Inner Door (large 3x5 matrix) – 15 single apertures
CCM-02-ID4	Command Center Inner Door (large 3x5 matrix) – 2 double (row 1 & 3) and 11 single apertures
CCM-02-OD	Command Center Outer Door – used with large 3x5 matrix inner doors

Axis<sup>AX</sup> Parts List

Product Code	Description
	<b>Fire Alarm Control Panel &amp; Command Center Enclosure Component &amp; Modules</b> <i>*Also available in grey by adding -G to product code</i>
AX-SAP*	Single Aperture Blanking Plate
AX-SAP6*	Single Aperture Blanking Plate (pack of 6)
AX-DAP*	Double Aperture Blanking Plate
AX-DAP6*	Double Aperture Blanking Plate (pack of 6)
AX-SAP-NY-RD	New York Fireman's Keyswitch Module
AX-1C-BP*	Battery Cover Plate – used with AX-CTL-1C fire alarm control panel
AX-BAT*	External Battery Enclosure – holds up to 2x 38Ah batteries
AX-KEYL	Spare Panel Door Keylock c/w 2x CAT30 Keys
AXM-006*	Spare AX-ANN Annunciator Back Box Enclosure
AXM-007*	Spare AX-ANN Annunciator Enclosure Cover
AXM-008*	Mounting Bezel for AX-ANN Annunciator – semi flush (non UL Listed)
AXM-009*	Axis AX Peripheral Card Enclosure
AXM-012*	Peripheral Mounting Plate – used for mounting AX-PENN & AX-IO48 modules to inner doors
AX-HPIN	Spare Panel Door Hinge Pins – used with control panels & Command Centers (pack of 6)
AX-GCAB	General Purpose Enclosure – used with AX-MOXA & AX-DCI modules
AX-ANN-TP	Tamper Proof Enclosure – used with remote annunciator panels (AX-ANN)
AX-ANN-WP	Tamper Proof Enclosure c/w 24VDC Heater – used with remote annunciator panels (AX-ANN)

<b>Local Zone Annunciators – Enclosures (painted red)</b> <i>Also available in grey by adding -G to product code</i>	
AX-LZA-CAB1	1-Way Local Zone Annunciator Cabinet
AX-LZA-CAB2	2-Way Local Zone Annunciator Cabinet
AX-LZA-CAB4	4-Way Local Zone Annunciator Cabinet
AX-LZA-CAB1-TR	Trim Ring for 1-Way Local Zone Annunciator Cabinet
AX-LZA-CAB2-TR	Trim Ring for 2-Way Local Zone Annunciator Cabinet
AX-LZA-CAB4-TR	Trim Ring for 4-Way Local Zone Annunciator Cabinet

Product Code	Description
	<b>Fire Alarm Control Panel &amp; Command Center – Audio Equipment</b> <i>*Also available in grey by adding -G to product code</i>
AV-VB*	Audio Booster Panel c/w AV-AMP80 & AX-PSU-6 Modules
AV-AMP80	Intelligent Audio Amplifier Module – 2x 40W 25Vrms speaker outputs
AX-PSU-6	5A - Power Supply Module For Audio – used with AV-AMP80 amplifier module
AV-V70*	25V - 70V Audio Converter Module Assembly – including cabinet
AV-V70KIT	25V - 70V Audio Converter Module Card and Transformer Assembly (kit of parts)
AV-ZS	Audio Zone Splitter Module – used with AV-AMP80 for splitting audio zone circuits
AV-MIC*	Audio Microphone Module Assembly – used in audio & command center panels

<b>Firefighter Emergency Telephone – System Modules &amp; Peripherals</b> <i>*Also available in grey by adding -G to product code</i>	
AV-TEL2-REM*	Telephone Riser Cabinet Assembly c/w AV-TEL2-RISE & AX-PSU-6 Modules
AV-TEL2-RISE	Telephone Riser Interface Card – used with TEL2 telephone system
AV-TEL2-PPB	Plug-In Audio Paging Module – used with AV-TEL2-RISE card for remote telephone paging
AV-TEL2-MCCS*	Command Center Firefighter Telephone Assembly Module
AV-TEL2-MCCS-P*	Command Center Firefighter Telephone Assembly Module – with push-to-talk function
AV-TEL2-CAB*	Remote Telephone Riser Enclosure Assembly
CCM-MP-BP2	Telephone Riser Card Mounting Plate – supports up to 2x AV-TEL2-RISE modules in a command center

<b>Firefighter Emergency Telephone – System Accessories</b>	
AV-SC-5	Standard Firefighter Telephone Cabinet – holds up to 5 telephones
AV-SC-10	Large Firefighter Telephone Cabinet – holds up to 10 telephones
AV-TEL2-P	Standard Portable Firefighter Handset – with 1/4" jack plug and coiled cord
AV-TEL2-PT	Push to Talk Portable Firefighter Handset – with 1/4" jack plug and coiled cord
AV-CJACK	Conventional Firefighter Telephone Jack with Active LED
AV-TEL2-MWPB	Master Firefighter Emergency Telephone Interface Card
AV-TEL2-SWPB	Secondary Firefighter Emergency Telephone Interface Card
AV-TEL2-MWP-BX	Firefighter Telephone Jack Interface Module c/w AV-TEL2-MWPB, Plastic Enclosure and Chassis Plate

Product Code	Description
	<b>Firefighter Emergency Telephone – Panel Assemblies (painted red)</b>
AV-TEL2-WD	FF Emergency Telephone Panel c/w Master Interface Card, Standard Handset with Coiled Cord, Breakglass and Keylock
AV-TEL2-WDV	FF Emergency Telephone Panel c/w Master Interface Card, Handset with Armored Cord, Breakglass and Keylock
AV-TEL2-WD2	FF Emergency Telephone Panel c/w Master Interface Card, Standard Handset with Coiled Cord, Locking Plate and Keylock
AV-TEL2-WD2V	FF Emergency Telephone Panel c/w Master Interface Card, Handset with Armored Cord, Locking Plate and Keylock
AV-TEL2-WD3	FF Emergency Telephone Panel c/w Master Interface Card, Standard Handset with Coiled Cord, Magnetic, Non-Lockable Unit
AV-TEL2-WD3V	FF Emergency Telephone Panel c/w Master Interface Card, Handset with Armored Cord, Magnetic, Non-Lockable Unit

<b>Firefighter Emergency Telephone – Spare Modules (painted red)</b>	
AV-TEL2-CP1	Spare FF Emergency Telephone Chassis Assembly c/w Master Interface Card & Standard Handset with Coiled Cord
AV-TEL2-CP3	Spare FF Emergency Telephone Chassis Assembly c/w Master Interface Card & Handset with Armored Cord
AV-TEL2-BB	Spare FF Emergency Telephone Back Box Enclosure – used with keylock door (AV-TEL2-D1)
AV-TEL2-D1	Spare FF Emergency Telephone Panel Door (Lockable) c/w CAT30 Key
AV-TEL2-LP	Lock Plate – used with AV-TEL2-BB back box enclosure
AV-TEL2-BG	Breakglass – used with AV-TEL2-BB back box enclosure
AV-TEL2-BBM	Spare FF Emergency Telephone Magnetic Back Box Enclosure – used with non-lockable door (AV-TEL2-D2)
AV-TEL2-D2	Spare FF Emergency Telephone – panel door (non-lockable)
AV-TEL2-MB	Mounting Bezel for FF Emergency Telephone Panels – semi flush

<b>Building Management System Interfaces</b> <i>*Also available in grey by adding -G to product code.</i>	
AX-BMS*	Graphics Interface Module c/w Enclosure (Style 4/Class B, standard network)
AX-BMS/ST7*	Graphics Interface Module c/w Enclosure (Style 7/Class X (A), fault-tolerant network)
AX-BMS-PCB	Graphics Interface Card (Style 4/Class B, standard network)
AX-BMS-PCB/ST7	Graphics Interface Card (Style 7/Class X (A), fault tolerant network)

<b>Detectors and Standard Bases</b>	
SA5800-450ADV	Axis AX Enhanced Heat Detector
SA5150-650ADV	Axis AX Enhanced Photoelectric Smoke Detector
SA5150-750ADV	Axis AX Enhanced Multi-Criteria (Smoke/Heat) Detector
SA5500-450ADV	XP95A Heat Detector
SA5050-350ADV	XP95A Multi-Criteria (Smoke/Heat) Detector
SA5050-250ADV	XP95A Photoelectric Smoke Detector
SA5000-210ADV	Axis AX Enhanced UL Base 4"
SA5000-230ADV	Axis AX Enhanced UL Base 6"

Product Code	Description
	<b>Sounder Bases</b>
SA5300-802APO	Axis AX Enhanced UL Sounder Base High Frequency 6"
SA5300-806APO	Axis AX Enhanced UL Sounder Base Low Frequency 6"
SA5300-800APO	Axis AX Enhanced UL CO Sounder Base High Frequency 6"
SA5300-805APO	Axis AX Enhanced UL CO Sounder Base Low Frequency 6"
10-45681-292	White Base Cap

<b>Duct Detection</b>	
AX-STN-1.0	Axis AX 10" Sampling Tube
AX-STN-2.5	Axis AX 30" Sampling Tube
AX-STN-5.0	Axis AX 5' Sampling Tube
AX-STN-10.0	Axis AX 10' Sampling Tube
SL-DAA-P	Duct Smoke Detector – PHOTO – 2 wire
SL-DA4R-P	Duct Smoke Detector – PHOTO – 4 wire
FAST TUBE	Sectional Tube Duct – Widths up to 8"

<b>Pull Stations (painted red)</b>	
AX-APS2-F1	Single Action Metal Pull Station
AX-APS2-F2	Dual Action Metal Pull Station
AX-APS-BB1	Pull Station Back Box Enclosure (Standard) – for internal applications
AX-APS-BB1-D	Pull Station Back Box Enclosure (Deep) – for internal applications
AX-APS-BB2	Pull Station Back Box Enclosure (Weatherproof NEMA-3R & standard) – for external applications
AX-APS-BB2-D	Pull Station Back Box Enclosure (Weatherproof NEMA-3R & deep) – for external applications
AX-APS-KEY	Pull Station Lockset c/w 1 Key
56000-005ADV	Polycarbonate Dual Action Pull Station
56000-006ADV	Back Box for Polycarbonate Pull Station

<b>Open Area Sounders/Beacons</b>	
58000-011ADV	Axis AX Open Area Sounder/Beacon – loop powered (red)
58000-012ADV	Axis AX Open Area Sounder/Beacon – loop powered (white)
55000-041ADV	Axis AX XP95A Open Area Sounder – loop powered (red)
55000-042ADV	Axis AX XP95A Open Area Sounder – loop powered (white)

<b>SLC Modules</b>	
55000-750ADV	Axis AX Isolator Module
45681-211ADS	Axis AX Isolator Module Base (fits 3" octagon electrical back box)
55000-765ADV	Axis AX Mini Switch Monitor Module (Din Rail Mount)
SA4705-600ADV	Axis AX Mini Switch Monitor Module
SA4705-700ADV	Axis AX Input Switch Monitor Module
SA4705-701ADV	Axis AX Relay Output Module
SA4705-703ADV	Axis AX Input Relay/Output Switch Monitor Module
SA4705-706ADV	Axis AX NAC Module
SA4705-720ADV	Axis AX Dual-Input Switch Monitor Module





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