





The Standard in Fire Systems





<u>Different types of Fire Alarm System –</u>

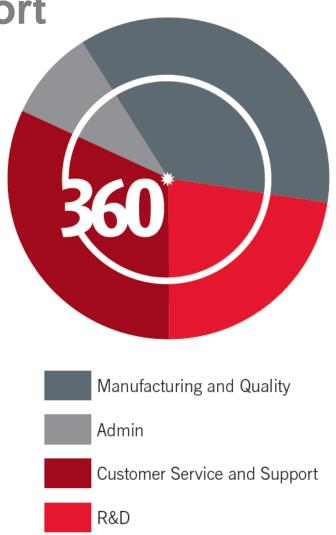
- Conventional Fire System Generally comes with Zones. Each zone can have max 20 detectors.
- Addressable Fire Alarm System This comes in loops. Different manufacturer has different loop capacity.
- Aspirating Smoke Detection System Independent unit installed for very early smoke detection system. It can be connected to Fire Alarm system.
- Video Smoke detection system Standalone system can be connected to Fire Alarm system





Easily More R&D & Support

- Over half the business dedicated to R&D and Support
- Investment in leadership
- Less requirement for support
- Leading industry expertise
- Sit on industry bodies across the globe
- Worldwide approvals
- 'Industry first' approvals
 - EN54 Part 13
 - Entire Australian product range to BCA AS1670







Lifetime Personalised Online Support

- Open support tickets
- View support history
- Download software/firmware
- Download warranty certificates
- Book training
- Download training certificates
- Download manuals etc
- Request marketing support
- Book product demos
- Order Approved Partner certs
- Available 24/7 from anywhere







Approvals & Memberships













































Instant telephone and online support

Team of over 30 fire experts Designers, coders, engineers

Full system network simulators

Full system training at 3 UK and 3 overseas tech centers

Lifetime training passport

On site tech support service

After sales service team

Built to fit individual customers

























Choose your panel, Choose your detector, Choose your installer.

Real Freedom. Advanced Quality.











Axis AX

The Fire System for the UL 864 World

FIRE 6 FIRE







E***G**o

Ultra-dependable Extinguishing Control









Fire Alarm System Features – Design Guideline NFPA 72

- UL Listed & En Approved Fire Alarm Systems.
- 1 to 4 loop capacity with UL listed panel.
- Loop capacity 125 detectors/devices per loop.
- 1 to 8 loop capacity with En approved Panel.
- 240 detectors + Devices per loop. (En Approved System)
- Redundant CPU Panel available.
- Touch Screen Repeater panels
- All Devices are with inbuilt isolators.
- Lite detector series available without inbuilt isolator.
- Networkable upto 200 nodes.





EN54 Part 13

- •Be wary of products designed to...(all advanced products are approved)
- •Ensure all components are sourced and manufactured in house
- •Indication and response times from CIE are set-out in the EN standards and EN54-13:2005 (E) 4.3.2.1 states that "a fire alarm condition shall be indicated on the main CIE with 20 seconds."
- •The typical delay for a panel to indicate a fire from any zone on 50 panel ad-net+ network is less than one second and well within specification on a fully loaded 200 panel system.





EN54 Part 13

Requirements:

- All components are individually tested and certified to the relevant harmonised product standard
- Work together and fully operate as specified
- Do not interfere with any mandatory function
- For system compliance, all components that are to be connected must be identified in the documentation and must be tested for compatibility

Component approvals

- All components fully approved to the appropriate harmonised standard.
- All components been tested together for system compatibility in all modes of operation.

Transmissions paths

 A system capable of indicating partial short and partial open conditions for ALL possible load conditions. (Can be hidden until fire condition)





MxPro 5 – Our Most Advanced Panel







MxPro 5 Features

- EN54 Parts 2,4 & 13
- 1-8 Loop
- 3 protocols
- Up to 2,000 zones
- 200 Node networks
- True peer-to-peer network
- Fault tolerant networking
- 200,000 devices per network
- Unique on-board diagnostics tools
- On-board scope
- RCTs, BMS, ipGateway, I/O drivers
- Huge range of peripherals
- Simple installation and configuration
- Primary/second activation. i.e. Flash if fire started here.
- Drift and new Warning State can be downloaded to service tool. Dirty detectors can give warning instead of a fault







MxPro 5 Features

- Autolearn facility
- In built P-Bus
- 20 on board programmable LEDs
- 4 programmable push buttons
- 201 programmable false alarm management zones per panel
- Complete device history from any panel
- Timed enablement of isolated zones, input and output devices
- Advanced logic and easily programmed cause-and-effect
- Service Tool
- Backward compatible
- Multiprotocol network
- MODBUS/BACNET compatible







Programming

- Up to 200 Output Groups available per panel
- Panel is pre-configured with default Output Groups for on-board and loop powered devices
- Outputs can be programmed to operate upon Zone Range, Time-Clock, General Event, Input Events & Logic Statements
- Programmable Ringing Styles provide a solution to programming Phased Evacuation
- Common graphical LCD user interface & software
- Common menu structure for day-to-day operation of panels
- User-friendly Windows based Dynamix

Tools configuration software common to all panels

- Powerful Cause & Effect features
- Common range of peripheral devices
- All Outputs are fully programmable to respond to any combination of Input signal type (Logic)
- Outputs can be programmed across network by zone, input device, general event, time clock, or logic statement
- Test alarms can be programmed to have a completely independent Cause & Effect (Local Panel)





False Alarm Management

- Day/Night sensitivity modes
- Investigation delay for selectable Inputs and Outputs
- Multiple On-board, 7 day time-clocks can be used to control any Input/Output device
- Any Input device can be gated with a time clock to provide a manual control

Categories of False Alarm Management

<u>Alarm Verification</u> features can be used to help verify if an activated condition from a device is considered to be a genuine alarm before the fire alarm condition is displayed on the panel.

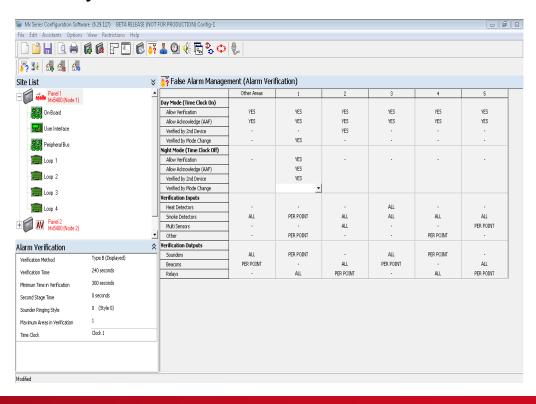
<u>Investigation Delays</u> to Outputs – can be used to delay the operation of certain outputs after the Fire Alarm condition is displayed





False Alarm Management

- Divide a building into up to 10,000 independent false alarm building areas
- Network points can be assigned to the building areas
- Assign verification and investigations to the building areas
- Assign detection thresholds, sounder styles etc.







AlarmCalm

Intelligent Alarm Acknowledgeme nt & False Alarm Reduction







False Alarm Management

Verification Method	Type B (Displayed)	
Verification Time	240 seconds	
Minimum Time in Verification	300 seconds	
Second Stage Time	0 seconds	
Sounder Ringing Style	0 (Style 0)	
Maximum Areas in Verification	1	
Time Clock	Unused	

Verification Method;

Type A (Not Displayed) or Type B (Displayed)

If Type B selected 'Verifying' (Pre-Alarm) is

displayed on the panel during the verification period

Verification Time- If one or more devices in the

same area stays in alarm for longer than time

specified the panel will enter a fire condition.

Min Time in Verification - Devices will not return to

normal until this time has time has elapsed

Second Stage Time - Further time to clear the

alarm condition if stage 1 is acknowledged (all

other times n/a in stage 2).

Sounder Ringing Style - Any sounders operated

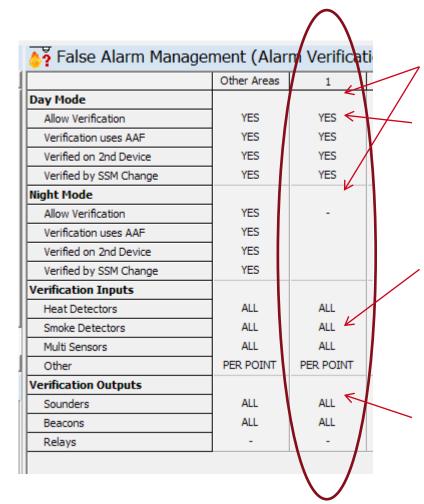
<u>Sounder Ringing Style</u> - Any sounders operated during verification will use this ringing style (Note, irrespective of output rules!)

Max Areas in Verification - Maximum areas allowed in verification mode simultaneously across the network. (Fire Alarm displayed if number exceeded) <u>Time clock</u> – Day / Night time settings





False Alarm Management



Alarm verification is used in Building Area 1 during the day time only

The verification time can be extended using a designated 'acknowledgement' button

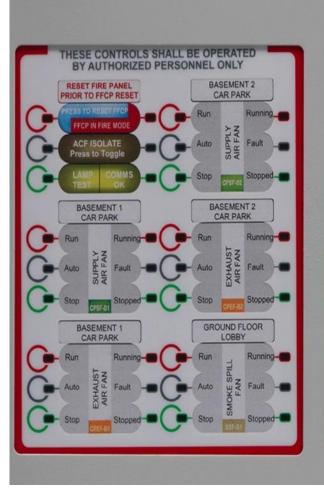
Alarm Verification is used for all Heat, Smoke and Multi sensor detectors in the area. Other devices (such as Input modules and Call Points) are selected by device.

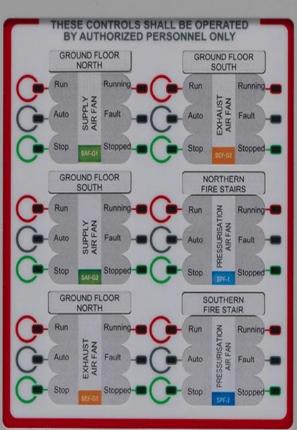
All Sounders and Beacons in Area 1 will be operated during the verification period when the device activated is also in area 1. This will happen automatically regardless of any cause and effect rules. Relays would not be operated.





Integrated Smoke & Fan Control





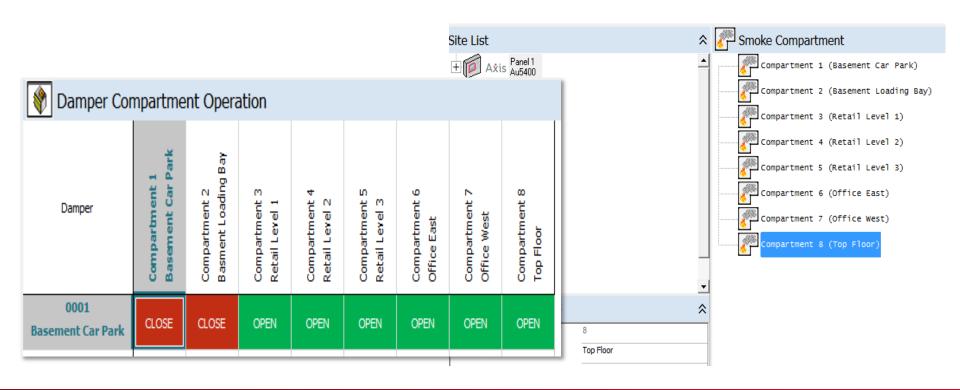






Integrated Smoke & Fan Control

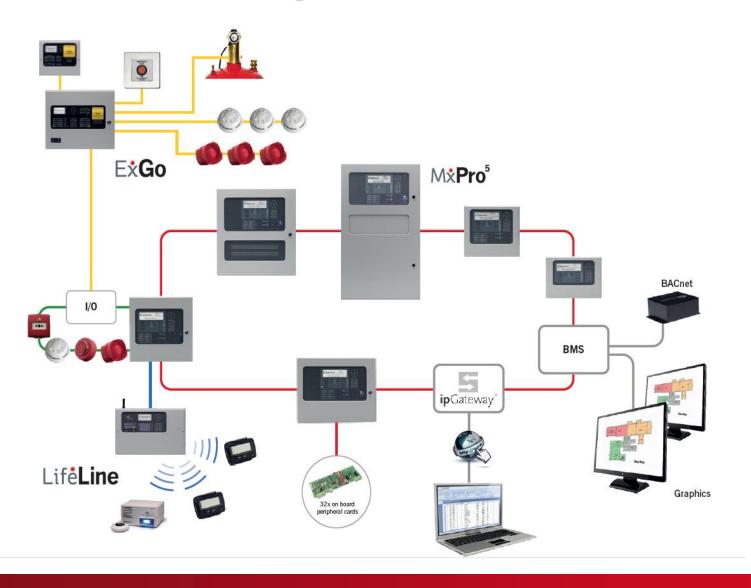
- Integrated control interface and PCBs
- Simple configuration software colour coded for status settings
- Set multiple smoke and/or damper compartments
- Define compartment detection zones
- Map fans, duct probes and node settings







MxPro 5 Networking







Networking

- Up to 200 control panels.
- Peer to Peer, token passing ring technology
- Up to 20Km as Standard.
- Fully monitored and Secure network.
- Communications bus all achieved using standard 2 core fire resistant cable
- Capable of withstanding single faults between nodes
- Communications bus all achieved using standard 2 core fire resistant cable
- Fibre optic networking
- Non-confusing zone config (Up to 2000)

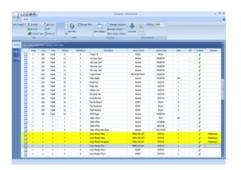
- Allows larger sites to be protected by distributing fire panels instead of taking all detection circuits back to one point
- Increased system integrity, reduced installation costs
- Allows information from any input or output point to be passed over network and displayed on any MxPro⁵ control panel
- Two types of network available:
 - Standard Network Radial configuration
 - Fault-tolerant Network Loop configuration





Software Overview

- Designed by fire engineers to be quick, intuitive and easy to use.
- Design Check Calculator
- Dedicated Service/Config/Maintenance tools
- Virtual panel & logo programming
- Service Tool provides a complete
 Device History data base
 providing information such as
 device installation, test, isolation
 to information such as last
 activation.
- Windows based











48 Way I/O

- 48 way programmable I/O driver card
- Up to 16 cards can be connected = 768 I/O
- Switch/LED module
- Flexible programming
- Internal RS 485 Bus

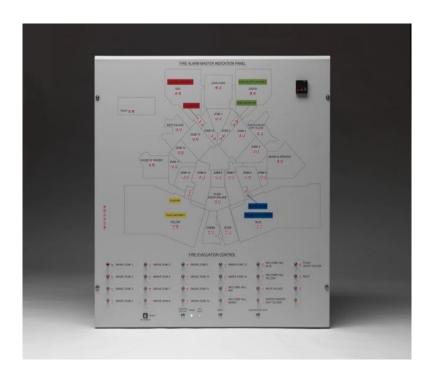






LED Mimic Display Card

- Can be mounted locally in a multi-loop panel to display zones in fire
- Alternatively can be mounted in bespoke remote enclosure together with a building plan
- All mimics are fully programmable units that connect to the network





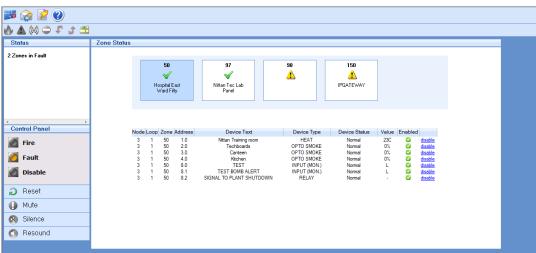


ipGateway

The ipGateway is a web based IP solution providing the following functionality:

- Internal/External IP Network Access
- Browser in-built to ipGateway
- Direct Network Connectivity
- Full Level 2 Management Control
- Network Event Log
- Events can be sent via Email





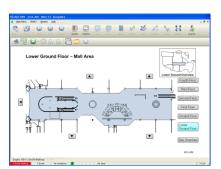


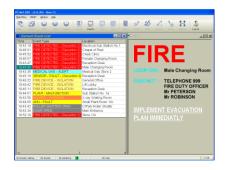


MxGraphics

- HD resolution
- 16 million colours
- 2000 graphics & zoom explorer
- Test Instruction Page for operators
- Isolation and fire panel controls
- Unlimited history/log
- Report printing
- Site graphic control
- Site navigation
- Event listings
- History search

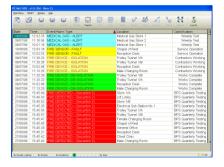
















SmartCube – What is it?

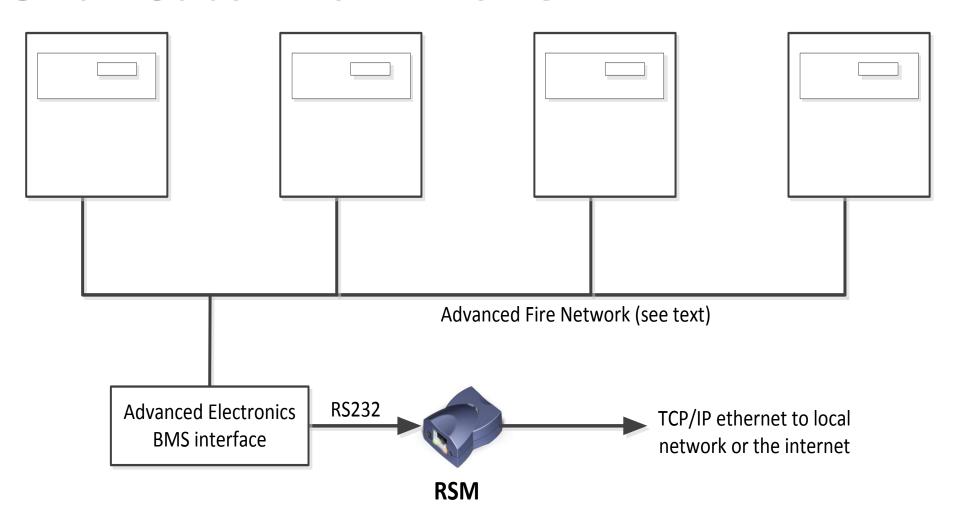
- SmartCube is a Black-Box PC for remote panel networks that are connected using a TCP/IP solution.
- Each remote network requires a BMS/Graphical Interface.
- Each remote network connected via Smart Cube supports a maximum of 200 networked panels.
- Maximum number of 2047 remote networked panels using software license offset.







Smart Cube – How it works?

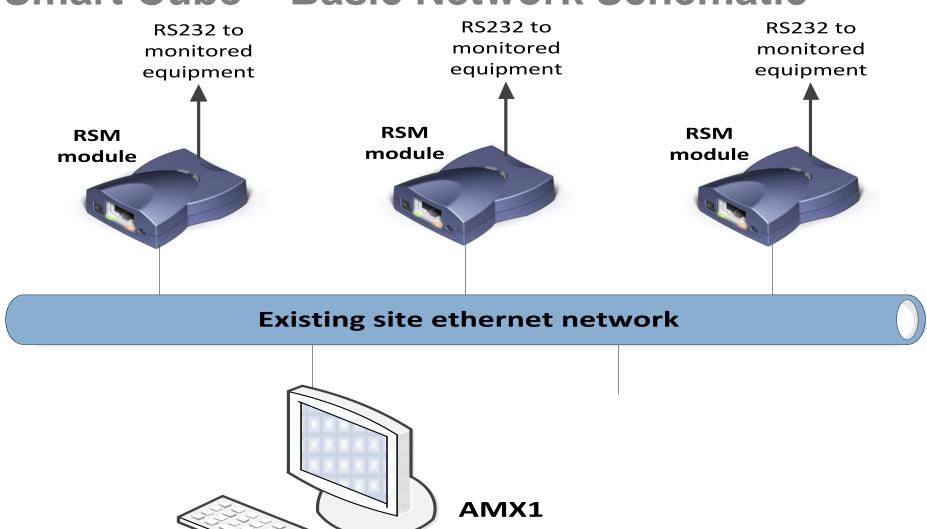


Maximum number of panels per Network is 200!





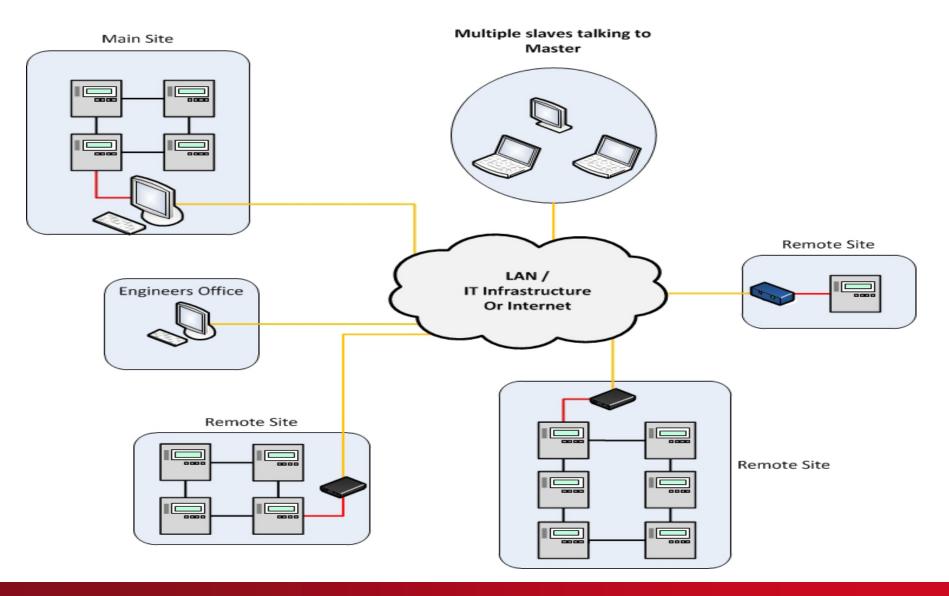
Smart Cube – Basic Network Schematic







Smart Cube – Advanced Network Schematic















Item Name	Item Id
Detectors	
XP95 Optical Smoke Detector	55000-600APO
XP95 Heat Detector Standard	55000-400APO
XP95 Heat Detector High Temperature	55000-401APO
XP95 Multisensor Detector	55000-885APO
XP95 Isolator	55000-720APO
Discovery Optical Smoke Detector	58000-600APO
Discovery Multisensor Detector	58000-700APO
Discovery Heat Detector	58000-400APO
Bases	
XP95 Mounting Base	45681-210APO
XP95 Isolating Base	45681-284APO
XP95 Isolator Base	45681-211APO
Blank XPERT Card	38531-771
Manual Call Points	
Intelligent Manual Call Point with Isolator	SA5900-908APO
Dicovery Wheartherproof MCP	58200-950APO
Interfaces with Isolator	
XP95 Input/Output Unit with Isolator	55000-847APO
XP95 Output Unit with Isolator	55000-849APO
XP95 Switch Monitor with Isolator	55000-843APO
Mini Switch Monitor	55000-760APO
XP95 Locally Powered Zone Monitor Unit with Isolator	55000-864APO
XP95 Zone Monitor Unit with Isolator	55000-845APO
XP95 Sounder Control Unit with Isolator	55000-852APO
Intelligent Open Area Sounders and Visual In	dicators
Intelligent Open-Area Sounder Red (Sonos)	55000-001APO
Intelligent Open-Area Sounder Visual Indicator Red (Sonos)	55000-005APO
Intelligent Open-Area Visual Indicator Red (Sonos)	55000-009APO











Thank you.....

Questions???

Swarjita Rawool

e-mail - swarjita@newagefireprotection.com

HP - +91 97 6966 1333