

CHANNEL

LIGHTING & SAFETY SYSTEMS

Welcome
to the
world of
Advanced



The Unbeatable Multiprotocol Solution from Advanced

1. Choose your panel.
2. Choose your detector.
3. Choose your Installer.

**Real freedom,
Advanced quality.**



The multiprotocol market is driven by freedom. Specifiers want to choose the best performing panel and match it with the most appropriate detector range.

End users want freedom from expensive maintenance contracts and installers want to work with easy to use systems, free of restrictive agreements.

MxPro is the market-leading solution and delivers performance, choice and real freedom.

MxPro includes two panel ranges, the advanced MxPro 5 and the benchmark MxPro 4. Both come in 1-8 loop formats and are compatible with Apollo, Argus, Hochiki and Nittan protocols. MxPro is simply the best multiprotocol solution available.

We do not lock customers into an installer network. We design our panels to be easy to install, configure and operate, from single panel installations to 200 panel networks. We offer our installers full, free training and the most comprehensive customer support available.

We were the first panel manufacturer to offer a three year guarantee as standard but your MxPro system will last a lifetime. It's a reliable, scalable solution that can grow as your specification changes and we offer lifetime support.



Our Most Advanced Panel

MxPro 5 is our highest performance, analogue addressable fire panel and is fully approved to EN54 Parts 2, 4 and 13.



MxPro is the result of decades of fire alarm and detection experience and research and development involving installers, specifiers, consultants and end users across the world.

MxPro 5 has been designed to offer industry leading power and performance. It packs more configuration, display, status and control options into its interface as standard than any other Advanced fire panel to date.

MxPro 5 utilises the latest technology making it significantly more powerful than the MxPro 4. Its processing power means it delivers more features than other panels, an advantage it will maintain for years to come.

Every MxPro 5 panel supports Advanced's unbeatable networking capabilities as well as our Dynamix Tools fire panel software making it both easy to use and configure, from the smallest to the largest of sites with the most complicated cause-and-effects.



- Advanced diagnostics includes 'scope on board'

Features

- 1, 2, 4 or 8 loop formats
- Up to 254 devices per loop (protocol dependent)
- Up to 2,000 fire detection zones
- Over 200,000 devices per network
- True peer-to-peer networking
- Networkable up to 200 nodes
- Supports intelligent remote terminals, BMS interface, IP Gateway and I/O programmable I/O devices
- Built in oscilloscope, voltage and current meters
- Circuit monitoring from any panel or repeater
- On board or optional remote battery temperature sensor
- Direct USB and RS232 PC connections
- Advanced's simple select and click programming and configuration
- Autolearn and Loop Detection
- Quick start and protect - a working system after an Autolearn
- Peripheral expansion built in
- 20 built-in, fully programmable LEDs
- 4 programmable push buttons
- 5,000 event log entries
- Complete device history from each panel
- 200 programmable false alarm management areas per panel
- Programmable screen logo
- Timed enablement of isolated zones, input and output devices
- Advanced logic delivering huge configuration opportunities
- Backward compatible with MxPro 4 network
- Compatible with Apollo Discovery and XP95, Argus Vega, Hochiki ESP and Nittan Evolution protocols
- Approved to EN54 Parts 2, 4 and 13

Why do I need Part 13?

Part 13 compliance ensures that a fire system will continue to perform to its maximum capability during a fire situation. Increased current in alarm conditions combined with a high resistance connection

(e.g. an incorrectly tightened screw in a sounder base), could prevent the sounders and beacons from operating on what would have incorrectly appeared to have been an acceptable 'fault free' installation.

Advanced's MxPro 5 is one of the few EN54 Part 13 approved panels available. MxPro 5 continuously monitors all transmission lines for compliance, checking and reporting faults every minute of every day.

MxPro 5 - 1 Loop



- Single loop
- Small enclosure
- Maximum 7Ah internal batteries
- 20 programmable LEDs
- Optional programmable key switch
- Programmable Input
- Medium, Large and Deep enclosure options

MxPro 5 - 2 Loop



- One or two loops
- Medium enclosure
- Maximum 12Ah internal batteries
- Up to 50 additional programmable LEDs
- Up to 8 programmable key switches or 4 plus printer
- Plexi-glass door option
- Large and Deep enclosure options

MxPro 5 - 4 Loop



- One to four loops
- Large enclosure
- Maximum 17Ah internal batteries
- Up to 200 additional programmable LEDs
- Up to 8 programmable key switches or 4 plus printer
- Plexi-glass door option
- Deep and Extended enclosure options

MxPro 5 - 8 Loop



- Two to eight loops
- Extended enclosure
- Maximum 45Ah internal batteries
- Up to 200 additional programmable LEDs, 2 x switch cards or mimic
- Up to 8 programmable key switches or 4 plus printer
- Plexi-glass door and external battery box option

MxPro 5 - Integrated Peripheral Bus

- Integrated P-Bus as standard on all MxPro 5 panels
- Up to 32 expansion cards can be added to an MxPro 5 panel
- Peripheral expansion option cards include
 - 4 way relay card
 - 4 way sounder card
 - 10 way monitored input card
 - Conventional zone card (8 class B or 4 class A zones + 3 programmable relays)
 - 16 way push button/48 LED card
 - 16 way input/48 output (direct drive LED outputs)
 - Fire and Fault Routing/Protection Card
 - Redundant Controller

MxPro 5 - Remote Terminals

- Four types available including;
 - TouchControl touchscreen with active maps
 - Remote Display Terminal
 - Remote Control Terminal with additional Mute, Silence, Reset and Resound keys
 - Remote Control Terminal with additional LED status indication, four programmable push buttons, Mute, Silence, Reset, Resound, Lamp Test and Evacuate Keys.
- Optional level 2 access enable key switch. (Not TouchControl).
- Integrated standard or fault-tolerant network interface with screen termination point
- Programmable display for up to 2,000 zones along with sector based controls

MxPro 5 - Rack Mount

- Rack mountable control panels
- Additional 16U and 20U high IP55 enclosures
- Rack mount peripheral chassis plate, LED and switch card module options
- Dedicated Mimic door option



MxPro⁴

The Benchmark Fire Panel

The industry workhorse,
performing across the world,
in all kinds of applications.

MxPro 4 is approved to EN54
Parts 2 & 4



MxPro 4 is a world-proven multiprotocol fire panel range. Built on Advanced's well established Mx-4000 platform, it's a fire system installed in 100,000s of locations worldwide, from single panel, single loop installations to large multi-panel networks.

The precursor to the MxPro 5, it offers uncomplicated operation as standard and can be expanded with a huge range of peripherals and accessories to meet most needs and configurations.

MxPro 4 utilises a simplified version of our Dynamix Tools fire system software allowing easy set up and management.



BS EN 54-2 & 4

Features

- 1, 2, 4 or 8 loop formats
- Up to 254 devices per loop (Protocol dependent)
- Up to 1,000 fire detection zones
- Up to 203,200 devices per network
- True peer-to-peer networking
- Networkable up to 200 nodes
- Supports intelligent remote terminals, BMS interface, IP Gateway and I/O programmable I/O devices
- Circuit monitoring of local panel circuits
- Autolearn and Loop Detection
- Simple Select & Click programming
- 1,000 event log entries
- Simplified logic delivers click and go configuration
- Built in voltage and current meters
- Quick start and protect – a working system after Autolearn
- Single area false alarm management facility
- Optional Peripheral Expansion Card
- Programmable logo on screen
- Compatible with Apollo Discovery and XP95, Argus Vega, Hochiki ESP and Nittan Evolution protocols
- Approved to EN54 parts 2 and 4

MxPro 4 - 1 Loop



- Single loop
- Maximum 7Ah internal batteries
- Maximum 12Ah internal batteries - large enclosure
- Aperture for 20 zone fire LEDs
- Optional programmable key switch

MxPro 4 - 2 Loop



- One or two loops
- Maximum 17Ah internal batteries
- Maximum 38Ah internal batteries – deep enclosure
- Up to 200 additional zone fire LEDs
- Up to 8 programmable key switches or 4 plus printer
- Plexi-glass door option

MxPro 4 - 4 Loop



- One to four loops
- Maximum 17Ah internal batteries
- Maximum 38Ah internal batteries – deep enclosure
- Up to 200 additional zone fire LEDs
- Up to 8 programmable key switches or 4 plus printer
- Plexi-glass door option

MxPro 4 - 8 Loop



- Two to eight loops
- Maximum 2 sets of 38Ah internal batteries
- Aperture for up to 200 zone fire LEDs
- Up to 8 programmable key switches or 4 plus printer

MxPro 4 - Remote Terminals



- Three types available including;
 - TouchControl touchscreen with active maps
 - Remote Display Terminal
 - Remote Control Terminal with additional Silence, Resound, Reset and Evacuate Keys
- Optional level 2 access enable key switch
- Integrated standard or fault-tolerant network interface with screen termination point
- Programmable display for up to 1,000 zones along with sector based controls

MxPro 4 - Peripherals

- 8-way input card
- 8-way relay output
- Monitored shop unit interface
- Optional Peripheral Expansion card supports the following
 - 4-way relay
 - 4-way sounder
 - General routing card

Panel Comparison

	MxPro 4	MxPro 5
Hardware Features		
Display Backlight	Green backlit display Manual contrast adjustment	White backlit display Improved efficiency with programmable dimming options Software driven contrast adjustment via menu
PC Connections	RS232	USB, RS232
Peripheral Expansion Bus	1 loop – n/a 2-8 loop – requires additional optional circuit card	Built in as standard on all panels Extended range of P-Bus option cards
Wiring Fault Monitoring	EN54-2: Open circuit, short circuit	EN54-2: Open circuit, short circuit EN54-13: Continuous checking for increases in resistance, (loose terminations), partial shorts etc.
Control Keys	Reset, Mute, Silence/Resound and Evacuate	Mute, Silence, Reset, LED Test, Resound, Evacuate and dedicated More Alarms buttons on control panels and large repeater Configurable keypad repeat keys
Front Panel Push Buttons	None	4 programmable function buttons on control panels and large repeater
Battery Charging	Charger current and voltage can be viewed on local display Built in battery temperature sensor	Charger current, voltage and temperature available from any display on a network Built in or remote battery temperature sensor
Zone LEDs	None as standard Option 20 zone fire red LED card on 1 loop Options for up to 200 red zone fire LEDs on 2-8 loops	20 integral red LED indicators included as standard on control panels and large repeater. Can be assigned to any fire zone or programmable for other uses. Up to 200 additional LEDs with Large, Deep and Extended enclosures. (Up to 50 in Medium enclosure). Options include red, yellow and (bi-colour) red/yellow or green/yellow column format with slide-in labels.
Programmable Input	None	Dedicated monitored switch input as standard on all panels
Programmable Key Switch Inputs	Requires additional optional key switch input card	Built in as standard on all panels
Printer	Optional on-board printer with built-in battery pack	Optional on-board printer. No additional battery pack required. Integral paper feed button. Printer fault conditions displayed on panel, prints customer logo
Standards	EN54-2 and 4	EN54-2, 4 and 13
Software Features		
Independent General Event and Fire Event Logs	Yes – control panels only Not on remote terminals	Yes – on all panels and repeaters Any panel can be configured as a network-wide main event log
Event log entries	1,000 + 500 Fire	5,000 + 500 Fire Additional logging for Investigation delays and any Enable/Disable actions
Timed Disable Options	Permanent only	Permanent or automatic timed re-enablement of any input or output device
Enable/Disable Inputs by zone	<ul style="list-style-type: none"> All Inputs All Inputs except Call Points Selected Inputs 	<ul style="list-style-type: none"> All Inputs Selected Inputs Only Automatic Inputs Only Manual Inputs All Other Inputs
Enable/Disable Outputs	All Local Panel sounders, relays or individual outputs	Disable by Output Purpose Configurable Disable Outputs Menu options include; Sounders, Relays, Beacons, Fire Routing, Fault Routing, Fire Protection, Pager, All or Selected Disablement of outputs across network configurable by sector mask
Real Time Clock	Yes - requires lithium battery	Yes - no lithium battery required
Languages	Supports Western European languages	Supports multiple different character sets (code pages) and languages

	MxPro 4	MxPro 5
Network Features		
Max devices per network	188,800	200,000
Max nodes on network	200	200
Sectors	50	200
Maximum Fire Zones Displayed	250 1 loop 1,000 2,4 and 8 loop	2,000 on all panels
Programming Features		
Independent Building Areas for False Alarm Management	Single area processing	201 areas per panel Local or Global Alarm Acknowledgment facility
Zone LEDs	No programmable options	All LEDs fully programmable PC configuration presented graphically Primary/secondary activation
Buzzer Options	No programmable options	Smart latch of faults Fault notification can resound daily Service option to Inhibit by time clock
Programmable Input actions	19	22 - including new Supervisory, Fire Routing and Fire Protection confirmed + Alarm Acknowledgement actions
Output Purpose	n/a	Output purpose configurable
Output Ringing styles	20	40 - Output activation priority configurable
Zone Qualifiers	15 categories of zone qualifiers	24 categories of zone qualifiers
Logic statements	500 Logic lines – Programmable options – <ul style="list-style-type: none"> • Inputs • General Events • Time Clocks 	1,500 Logic lines – Programmable options – <ul style="list-style-type: none"> • Inputs • Any 2 inputs • Zone qualifiers • Any 2 zones • General Events • Time Clocks
General Events	10 categories	36 categories
Blocking Rules	No options	Programmable blocking rules – by General Event or Output Groups
Service and Diagnostic Features		
Device History	n/a	For every device the time and date of the :- <ul style="list-style-type: none"> • Last activation • Last Test • Last Disable • Last Enable • Date Created
On-board Digital Storage Scope	n/a	Yes
View Panel Voltages and Currents	Available for local panel circuits only	Available from any MxPro 5 repeater or panel on the network.
View Panel Status	Local hardware and panel firmware version	View status of all panel circuits across network Firmware version of all internal hardware and peripheral devices can be viewed at the panel
Firmware updates	Panel firmware flash upgradable	All hardware flash upgradable via panel USB or serial port
Detector Status Information	View drift information at local panel	New Warning state allows any devices nearing drift contamination limits to be identified during routine servicing before a fault level is reached
Service tool	Download device information	Download device information Extract Event log information Download device History View drift (contaminated) status of detectors Network simulation and test facility