



eurotech
fire systems limited

Product Catalogue



Why buy from Eurotech?

What is it that we can offer you?

The Eurotech Fire Systems Ltd team are the most experienced in the fire industry.

Eurotech is all about:

- People you can trust
- Providing a single brand approved solution
- One telephone call is all you need to make as it will answer all
- Proven innovation from proven products
- International presence

We care about your business

Because It Matters



Eurotech Fire Systems Ltd is a privately owned UK organisation based in Waterlooville, Hampshire.

Eurotech Fire Systems Ltd provides a single branded approved fire detection system, certified to national and international standards.

We work with proven products supplied and supported by a fully experienced team of people who are passionate and dedicated to our industry in "life safety".

Our exceptional knowledge provides you comprehensive technical support both pre and post order placement. We offer free training on our product range to ensure you fully utilise all our system benefits especially utilising the 254 addresses per loop.

Eurotech's staff are committed to exceptional customer service and rapid delivery to exceed your expectations. Whatever your needs – one telephone call is all you need to make.

Michelle Agius

Managing Director

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Conventional Detection Products



EURVC-P Conventional Optical Smoke Detector
Good response to slowly developing fires

Part No: 100-2210
Standard: EN54-7:2000 +A1:2002
Operating voltage: 12-32v
Operating current: Iquiescent 50uA: lalarm 50mA



EURVC-DP Conventional Dual Optical Smoke Detector

Flat response, providing broad detection capability. Can effectively replace "Ionisation" detectors. Provides exceptional false alarm discrimination against Steam, dust, Aerosols etc.

Part No: 100-2215
Standard: EN54-7:2000 +A1:2002, EN54-5:2000 +A1:2002
Operating voltage: 12-32v
Operating current: Iquiescent 50uA: lalarm 50mA



EURVC-H-A2S Conventional Heat Detector
62° C Fixed temperature heat detector, for use in areas unsuitable for smoke detectors

Part No: 100-2505
Standard: EN54-5:2000 +A1:2002
Operating voltage: 11-32v
Operating current: Iquiescent 50uA: lalarm 50mA



EURVC-H-CS Conventional Heat Detector
92° C Fixed temperature heat detector for use in areas with high ambient or rapidly changing temperatures

Part No: 100-2507
Standard: EN54-5:2000 +A1:2002
Operating voltage: 11-32v
Operating current: Iquiescent 50uA: lalarm 50mA



EVC-PY-IS Intrinsically Safe Optical Detector
For use in hazardous areas, good response to slowly developing fires.
Y type chamber, good response to black smoke.

Part No: F02N83300



EVC-IR Dual Band IR Flame Detector (Conventional)
Detects IR radiation produced by a flickering flame.

Part No: F04J60044



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Specialist Detection

Stratos-HSSD[®] High Sensitivity Smoke Detection system.

AirSense crosses a new horizon with its award winning Stratos-HSSD[®] High Sensitivity Smoke Detection system.

The team behind the Stratos-HSSD-2 system has almost 200 man-years experience in the field of aspirating High Sensitivity Smoke Detection systems. This unparalleled depth of experience has been drawn upon to produce the Stratos-HSSD series 2 system. Stratos-HSSD embodies many unique features to maximise performance and increase reliability compared to other aspirating detection systems. Stratos-HSSD is recognised as being easily the most sensitive laser based system available, but coupled to the unique ClassiFire-3D[®] Artificial Intelligence (AI) process, this need not mean a high rate of nuisance alarms.

Stratos-HSSD is the only optical high sensitivity system which is routinely applied to the protection of very dirty and dusty environments. This is achieved by combining Laser Dust Discrimination (LDD[™]) with a patented dust management bypass and separation system. At the other extreme, Stratos-HSSD is capable of providing the very highest levels of sensitivity in environments such as computer areas and clean rooms. In these applications it is able to give warning to the very slightest trace of smoke.

Stratos-HSSD is fully capable of reacting to true INCipient fire situations, thereby preventing damage. Stratos-HSSD provides the EARLIEST warning.

High Sensitivity Detectors

Order Codes

Part No:	Part description
30621	Stratos-HSSD 2 Standard Detector
30620	Stratos-HSSD 2 Detector fitted with Command Module
30623	Stand alone Command Module with internal PSU
30624	Stand alone Command Module without PSU
30671	Stratos-Micra 25 & docking station and relay input
30760	Stratos-Micra 25 & docking station and relat input card
30672	Stratos-Micra 100 & docking station
30764	Stratos-Micra 100 & docking station & relay input card



Specification

Supply	Voltage 21.6V - 26.4V DC
Size	427W x 372H x 95D
Weight	5.2kg
Operating temperature range	-10 to +60°C
Operating humidity range	Min = 25% Max = 0.03% FSD
Maximum sensitivity resolution	0.0015% obs/m
Detection principle	Laser light scattering mass detection & particle evaluation
Particle sensitivity range	0.0003μ to 10μ
Dust discrimination principle	3D3 Laser Dust Discrimination (LDD)
Current consumption	400mA @ 24V DC
Sampling pipe maxima	250m @ 80 sampling holes - 200m @ 100 sampling holes
Sampling pipe inlets	4 on top and 4 at rear
Sampling pipe outlets	1 on top and 1 at rear
Sampling pipe internal diameter	15-25mm
Alarm levels	4 (Fire 2, Fire 1, PreAlarm and Aux)
Bargraph sensitivity range	0.0015 - 25% obs/m
Bargraph segments	26
Chamber service intervals	Greater than 8 years (dependant on environment)
Dust separator replacement intervals	Dependant on environment
Laser lifetime (MTTF)	Greater than 1000 years
Aspirator lifetime	Greater than 10 years
Programming	Front panel or PC via RS232/RS485
Data loop cable	RS485 data cable
Data loop maximum length	1,200m in 1,200m out
IP rating	IP50
Supported languages on internal programmer	Czech, Dutch, English, Estonian, Finnish, French, German, Hungarian, Italian, Norwegian, Spanish, Swedish

Key Features

Reduce the risk of expensive false alarms and misalignment faults.

Eurotech now offer a reflective optical beam smoke detector with a motorised head, that can align itself when commissioning, and continually correct itself against building movement.

The fire beam protection system includes a motorised head unit containing an infra-red transmitter and receiver, a ground level controller and prism reflector. Making use of the prism reflector the returned infrared beam is analysed for smoke contamination and registers a fire condition at a pre determined level. At ground level the controller unit is used to make operational adjustments. The standard Protection system covers a range of 5 to 40 meters, 2 further range kits are available, a 40 to 80 meter kit that utilises 4 reflectors and finally an 80 to 100 meter kit that makes use of 9 reflectors.

Motorised Head

The fire beam incorporates microprocessor controlled motors that intelligently align the head at all times. When first commissioning the head accurately aligns itself, and in operation the head will re align should there be building movement, a problem with new build settlement and environmental change. The fire beam's unique ability to self align means that high level re adjustment is no longer required, saving time, disruption and importantly cost. The motorised head means greater reliability that will reduce troublesome false alarms.

The fire beam protection system uses only 3mA at all times, so in most cases can happily be zone powered. Compatible with most major fire panels the simplicity of our system usually means no extra power supply, meaning easier installation and a lower installation cost. (Please refer for details).

The fire beam has been designed to fully comply with EN 54 part 12. and exceeds European standards, in particular BS5839 part 1.



What makes it so good?

The fire beam ground level controller has been especially designed to take away the need for high level maintenance, with a simple menu system viewed through a LCD screen all adjustments can be made at ground level including a test procedure. This can save you time and money.

Compensation

The fire beam will automatically compensate for a build up of dust over the lenses. From the LCD display you can check the current status and only clean the lenses when required.

Change Latching Mode

The fire beam relays can be set to latch on alarm or auto reset depending on your individual requirement.

Other Features

Built into the fire beam protection system is an IP rating of IP65. The system is fully sealed against contamination ingress, which means that it is possible to place the fire beam in unfriendly environments and could even be pressure washed.

Technical Specification

A full technical specification of the Fire Beam and associated components can be seen below, answering most of the questions you may have. Beneath this we have also included a comparison chart which shows how the Fire Beam performs when compared side by side to its competitors.

Electrical Specifications:

Supply Voltage	10.2 to 40 VDC
Supply Current	3mA (constant current) in all operational states

Environmental Specifications:

Temperature	-10°C to +55°C
Humidity	10 to 95% RH Non-condensing
Protection Index	IP65 when suitably mounted and terminated

Mechanical Specifications:

Beam Head	180mmH x 155mmW x 137mmD Weight 1.1Kg
Controller	185mmH x 120mmW x 62mmD Weight 0.55Kg
Mid Range Kit	293mmH x 293mmW x 5mmD Weight 0.8Kg
Long Range Kit	394mmH x 394mmW x 5mmD Weight 1.8Kg
Adaptor Plate	270mmH x 250mmW x 5mmD Weight 0.6Kg (mounts the Beam Head onto Unistrut)

Optical Specifications:

Optical Wavelength	870nm
Maximum Angular Alignment	±15°
Maximum Angular Misalignment	(static not auto-aligning) Beam Head ±0.75° / Reflector ±2°

Operational Specifications:

Protection Range

Standard Fire Beam	5 to 40 metres
Mid Range Kit	40 to 80 metres
Long Range Kit	80 to 100 metres

Alarm Sensitivity Levels

25% (1.25dB) to 50% (3dB) in 1% (0.05dB) increments (default 35% (1.87dB))

Alarm Condition:

Obscuration drops to below pre-defined sensitivity level.

Time to Alarm Condition adjustable between 2 to 30 seconds in 1 second increments (default setting is 10 seconds)

Alarm Indication:

Controller Status - FIRE

Controller Red Flashing LED 0.5 Second

Head Red Flashing LED 1 Second

Alarm Relay Change Over (CO) Contact

Rating 2A @ 30 VDC

Test / Reset Features:

Beam test function by controller

Alarm latching / auto-reset selectable (default auto-reset)

Alarm reset in latching mode by controller reset function, removing power for >5 seconds, apply 12 to 24 VDC to reset connections in Beam Head.

Fault Sensitivity Level:

90%

Fault Condition:

Obscuration drops to below the fault sensitivity level within 1 second

Power Down or Supply Voltage < 9 VDC

Commissioning modes, Pre-Alignment and Auto Alignment

Beam turned off during Beam Maintenance (auto resets in 8 hours to normal)

Time to Fault Condition adjustable, 2 to 60 seconds in 1 second increments (default 10 seconds)

Fault Indication:

Controller Status - FAULT

Controller Yellow Flashing LED 1 Second

Head Yellow Flashing LED 1 Second

Fault Relay Change Over (CO) Contact Rating 2A @ 30 VDC

Normal Condition:

Obscuration level is above the Alarm sensitivity level

Controller Status - NORMAL

Controller Green Flashing LED 1 Second

Programmable on/off

Head Green Flashing LED 1 Second

Programmable on/off

Auto-Align / Beam Contamination Compensation:

Auto-align during normal operation if obscuration drops below 90% (doesn't effect normal operating mode)

Beam Contamination Compensation 4 hour monitoring. Compensation data available at the controller

Beam Detectors Product range

Basic Firebeam including Controller & 1 reflector covers distance 5 - 40 metres

Range Extension kit 40 - 80 metres

Range Extension kit 80 - 100 metres

Head interface adapter to mount to unistrut

Antifog window for head and single Antifog reflector

Single Antifog reflector

Anti fog window

Anti fog firebeam

Anti fog mid range kit

Anti fog long range kit

1.5A 24V Firebeam Power Supply

© Bases, Call Points and Accessories



© **EURB-4SE-SW-EV Sav-Wire Deep Base**
Base for use with Eurotech conventional detectors
Part No: 100-4010



© **EURB-4 Standard Base**
Base for use with Eurotech conventional detectors.
Part No: 100-3500



© **EURB-4SD Standard Diode Base**
Base for use with Eurotech conventional detectors.
Part No: 100-3510



© **EUR-AMB Adjustable Mounting Bracket For Flame Detector**
For directional mounting of Eurotech flame detectors.
Part No: 100-3543



© **EURVC-MCP-IP24 Conventional Eurotech Manual Call Point**
Manual call point (IP24) for fast response manual operation of fire alarm system.
Part No: 100-1010
Standard: EN54-11:2000 +A1:2005
Operating voltage: 20-38v
Operating current: Ialarm: 50mA @24v



© **EURVC-MCP-IP67 Conventional Eurotech Waterproof Manual Call Point**
Manual call point (IP67) for fast response manual operation of fire alarm system.
Part No: 100-1011
Standard: EN54-11:2000 + A1:2005
Operating voltage: 20-38v
Operating current: Ialarm: 50mA @24v



RIU-01B Remote Indicator Unit - Single Gang Blank - Surface

The RIU unit is used to give a remote indication of the status of a single or groups of fire detectors in alarm state utilising an LED with a wide area of illumination and high on/off contrast. The units are compatible with the majority of conventional and addressable systems and can also be used for security and process control applications. The standard version is a single gang flush mounted unit, with or without 'Fire Detector Operated' text and also available with a deep back box for surface mounting.

- Direct fit to a single gang deep back box
- Circular version available without text
- Text is available in other languages
- Custom legend available on request

Part No: 502-002



VBL-6 24v 6" Low Current Bell (Red or Grey)

The VBL 6" motorised bell has been designed to offer maximum performance combined with rapid installation and a sleek low profile appearance. The bell is used for a wide range of alerts including fire alarm. The unit comes complete with a tamper resistant hex bolt and for easy installation an allen key is provided.

- Low current consumption
- Available in red or grey
- Low profile design

VBL-6-R - Part No: 309-012 (Red)

VBL-6-G - Part No: 309-016 (Grey)



VTB Spatial Sounder/Beacons

The VTB combined unit has been designed to cater for both the fire and security markets, offering a wide voltage range. The product can easily be retro-fitted in place of a VTG sounder on existing systems without the need for additional power supply considerations. This is especially beneficial where the Disability Discrimination Act calls for visual indication. Synchronisation of light output is standard, as is the option to operate the VTB as a flasher/beacon only.

- 32 tones plus a selectable override tone
- Available in red or white fire retardant ABS
- Mounting base options available as Shallow (IP43) or Deep (IP65)
- Combines a high output light source, produced via an efficient LED cluster
- Choice of Red, Amber, Clear or Blue colour lens

VTB-32-SB-RB/RL 24v 32 Tone Shallow Base-red Body / red Lens - Part No: 511-031RL

VTB-32-DB-RB/RL 24v 32 Tone Deep Base-red Body / red Lens - Part No: 511-033L



VTG Spatial Sounders EN54 Part3 Approved

The VTG spatial sounder has been designed to cater for both the fire and security markets, offering a wide voltage range. EN54 approved and anti-tamper versions available.

- 32 tones plus a selectable override tone
- Available in red or white fire retardant ABS
- Shallow base or Deep base IP65
- Energy efficient high output technology

VTG-32E-SB-R 24 v 32 Tone EN54 Part 3 Approved Shallow Base-Red - Part No: 510-017

VTG-32E-DB-R 24 v 32 Tone EN54 Part 3 Approved Deep Base-Red - Part No: 510-019



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Intelligent Detection Products



EURV-P Intelligent Optical Smoke Detector
Good response to slowly developing fires

Part No: 100-2100
Standard: EN54-7:2000 +A1:2002
Operating voltage: 20-35v
Operating current: Iquiescent 200uA: lalarm (LED ON)5.2mA



EURV-DP Intelligent Dual Optical Smoke Detector
Flat response, providing broad detection capability. Can effectively replace "Ionisation" detectors. Provides exceptional false alarm discrimination against Steam, dust, Aerosols etc.

Part No: 100-2105
Standard: EN54-7:2000 +A1:2002
Operating voltage: 20-35v
Operating current: Iquiescent 200uA: lalarm (LED ON)5.2mA



EURV-H-A1R Intelligent Rate Of Rise Heat Detector
54°C heat detector with rate of rise for use in areas unsuitable for smoke detectors.

Part No: 100-2200
Standard: EN54-10:2001 +A1:2005
Operating voltage: 20-35v
Operating current: Iquiescent 200uA: lalarm (LED ON)5.2mA



EURV-H-CS Intelligent Heat Detector
92°C Fixed temperature heat detector for use in areas with high ambient or rapidly changing temperatures.

Part No: 100-2201
Standard: EN54-5:2000 +A1:2002
Operating voltage: 20-35v
Operating current: Iquiescent 200uA: lalarm (LED ON)5.2mA



EURV-PH Intelligent Combination Optical Smoke and Heat Detector
Optical smoke and 54°C heat sensors in one housing for multi risk applications.

Part No: 100-2400
Standard: EN54-5:2000 +A1:2002
Operating voltage: 20-35v
Operating current: Iquiescent 200uA: lalarm (LED ON)5.2mA



EURV-DPH-A1R Intelligent Dual Optical/Heat Detector
Dual Optical smoke and 54°C heat sensors in one housing for multi risk applications.

Part No: 100-2106
Standard: EN54-7:2000 +A1:2002, EN54-5:2000 +A1:2002
Operating voltage: 20-38v
Operating current: Iquiescent 200uA: lalarm (LED ON)5.2mA



EURV-DPH-CS Intelligent Dual Optical/Heat Detector

Dual Optical smoke and 92°C heat sensors in one housing for multi risk applications.

Part No: 100-2107
 Standard: EN54-7:2000 +A1:2002, EN54-5:2000 +A1:2002
 Operating voltage: 20-38v
 Operating current: Iquiescent 200uA: lalarm (LED ON)5.2mA



EURV-PS Intelligent Optical Detector with In-built Sounder - Patents Pending

Optical detector with good response to smouldering fires with integral sounder.

Part No: 100-2501
 Standard: EN54-3:2001 +A1:2002 +A2:2006, EN54-7: 2000 = A1:2002 +A2:2006, EN54-17:2005
 Operating voltage: 20-38v
 Operating current: Iquiescent: 200uA lalarm: (LED ON) 5.2mA (sounder on) 2.3mA



EURV-PS-DSCI Intelligent Optical Detector with In-built Sounder/Dual line sci - Patents Pending

Optical detector with good response to smouldering fires with integral sounder and dual short circuit isolator. NOTE supported on Mx5000N only

Part No: 100-2500
 Standard: EN54-3:2001 +A1:2002 +A2:2006, EN54-7: 2000 = A1:2002 +A2:2006, EN54-17:2005.
 Operating voltage: 20-38v
 Operating current: Iquiescent: 200uA lalarm: (LED ON) 5.2mA (sounder on) 2.3mA

© Bases, Call Points and Accessories



© **EURB-4-EV Standard Base**
Standard base for use with Eurotech Intelligent detectors.

Part No: 100-3000



© **EURB-4SE-EV Deep Base**
Deep Base for use with Eurotech Intelligent detectors.

Part No: 100-4005



© **EUR-5 SHORT CIRCUIT ISOLATOR (BASE)**
Deep base for use with Eurotech Intelligent detectors including "dumb" short circuit isolator.

Part No: 100-1441



© **EUR-6 SHORT CIRCUIT ISOLATOR**
Single gang back box mounted stand alone "dumb" short circuit isolator.

Part No: 100-1440



© **EUR-6 SINGLE BACK BOX**
Single gang back box for stand alone "dumb" short circuit Isolator.

Part No: 100-1442

© Bases, Call Points and Accessories



MX 5000
Range only

© EURV-MCP-IP24-DCSI Intelligent Manual Call Point with Dual Line SCI

Manual call point for fast response manual operation of fire alarm system with integral dual short circuit isolator

Part No: 100-2002
Standard: EN54 11: 2001 +A1:2005, EN54-17:2005
Operating voltage: 20-38v
Operating current: lalarm: 50mA @24v



MX 5000
Range only

© EURV-MCP-IP67-DCSI Intelligent Waterproof Manual Call Point with Dual Line SCI

Weatherproof call point for fast response manual operation of fire alarm system with integral dual short circuit isolator. NOTE supported on Mx5000N only.

Part No: 100-2006
Standard: EN54 11: 2001 +A1:2005, EN54-17:2005
Operating voltage: 20-38v
Operating current: lalarm: 50mA @24v



© EURV-MCP-IP24 Intelligent Manual Call Point

Manual call point for fast response manual operation of fire alarm system.

Part No: 100-2003
Standard: EN54-11:2000 +A1:2005
Operating voltage: 20-38v
Operating current: lquiescent 200uA: lalarm (LED ON)2.2mA



© EURV-MCP-IP67 Intelligent Waterproof Manual Call Point

Weather proof call point for fast response manual operation of fire alarm system.

Part No: 100-2004
Standard: EN54-11:2000 +A1:2005
Operating voltage: 20-38v
Operating current: lquiescent 200uA: lalarm (LED ON)2.2mA



Intelligent Alarm Devices/Modules



EURV-ABS Intelligent Mountable Sounder (Supplied without Base)

Loop powered sounder can be used with detector and base fitted or stand alone with cap.

Part No: 100-2010

Standard: EN54-3:2001 +A1:2002

Operating voltage: 20-35v

Operating current: Iquiescent 200uA: lalarm (LOW O/P) 3mA (HIGH O/P) 6mA



EUR4-EV-AB Intelligent Base For Use With Eurotech Sounder

Intelligent detector base for use with Eurotech sounder.

Part No: 100-3020



EURV-AV Intelligent Sounder Beacon

Wall mounted Sounder / Beacon. Provides combined audio and visual indication of fire conditions.

Part No: 100-2011

Standard: EN54-3:2001 +A1:2002 +A2:2006

Operating voltage: 20-35v

Operating current: Iquiescent 200uA: lalarm (LOW O/P) 5mA (HIGH O/P) 10mA



EUR-03-CP-W Vector Cap Plate (White or Red)

White cap for stand alone use of sounder base.

Part No: 100-2410 (White)

Part No: 100-2411 (Red)



 **EURV-AIO21 INPUT/OUTPUT MODULE**

Interface unit providing two monitored switch inputs, and two volt free c/o relay outputs rated @ 30v 1amp each.

Part No: 100-2023
 Standard: EN54-18:2005
 Operating voltage: 15-35v
 Operating current: Iquiescent 200uA: lalarm 2.5mA (from external source) 10mA



 **EURV-SM SOUNDER MODULE**

Interface unit controlling one zone of conventional sounders rated @ 1amp maximum. Requires local PSU.

Part No: 100-2021
 Standard: EN54-18:2005
 Operating voltage: 20-35v
 Operating current: Iquiescent (loop): 2.68mA lalarm loop: 1.87mA
 lfault-sounder Zone s/c (loop) 4.1mA o/c (loop) : 1.87mA



 **EURV-AIN1 ZONE MODULE**

Interface unit providing one monitored conventional detector circuit

Part No: 100-2025
 Standard: EN54-18:2005
 Operating voltage: 15-35v
 Operating current: Iquiescent: conventional -600uA Iquiescent: 1.5-7mA lalarm: Conventional -100mA lalarm 1.5 -10mA



 **EURV-AIN2 SPRINKLER/INPUT MODULE**

Interface unit providing two monitored switch inputs.

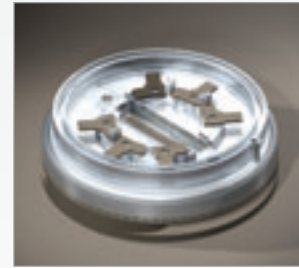
Part No: 100-2024
 Standard: EN54-18:2005
 Operating voltage: 15-35v
 Operating current: Iquiescent 200uA lalarm: 2.5mA lalarm: (from external source) 10mA



EURV-AV2 Sounder/Beacon

Combined sounder and beacon with integral base for detector mounting

Part No: 100-5011
 Standard: EN54-3:2001 +A1:2002 +A2:2006
 Operating voltage: 20-38v
 Operating current: Iquiescent 200uA: lalarm (LOW O/P) 5mA (HIGH O/P) 10mA



EURV-PSBCN Beacon Base (EURVPS)

Beacon with integral base, non addressed - dedicated for use with EV-PS. Use only with EV-PS / EV-PS DSCI

Part No: 100-2016
 Standard: pr54-23
 Operating voltage: 20-38v
 Operating current: Iquiescent 0mA (beacon active) 5mA



**MX 5000
Range only**

EURV-SBB Base

Combined sounder and beacon with integral base for detector mounting.

Part No: 100-2015
 Standard: EN54-3:2001 +A1:2002 +A2:2006
 Operating voltage: 20-38v
 Operating current: Iquiescent: 200uA (low o/p- sounder and Beacon active) 5mA (High o/p- sounder and beacon active) 10mA



**MX 5000
Range only**

EURV-SBB-DCSI Base

Combined sounder and beacon with integral base for detector mounting with integral dual short circuit isolator.

Part No: 100-2012
 Standard: EN54-3:2001 +A1:2002 +A2:2006
 Operating voltage: 20-38v
 Operating current: Iquiescent: 200uA (low o/p- sounder and Beacon active) 5mA (High o/p- sounder and beacon active) 10mA



**MX 5000
Range only**

EURV-SB Sounder/Beacon

Combined sounder and beacon wall mounted.

Part No: 100-2014
 Standard: EN54-3:2001 +A1:2002 +A2:2006
 Operating voltage: 20-38v
 Operating current: Iquiescent: 200uA (low o/p- sounder and Beacon active) 5mA (High o/p- sounder and beacon active) 10mA



**MX 5000
Range only**

EURV-V-SB-DCSI Sounder Beacon with Dual line SCI

Combined sounder and beacon wall mounted with integral dual short circuit isolator.

Part No: 100-2013
 Standard: EN54-3:2001 +A1:2002 +A2:2006
 Operating voltage: 20-38v
 Operating current: Iquiescent: 200uA (low o/p- sounder and Beacon active) 5mA (High o/p- sounder and beacon active) 10mA



 **EV-OP Output Module**

Interface unit providing one volt free c/o relay outputs rated @ 24v 2amps Can be mounted on standard MK two gang pattress box. Can also interface to 1 x EV 240v MRA mains switching relay.

Part No: F16N82027
 Standard: EN54-18:2005
 Operating voltage: 20-35v
 Operating current: Iquiescent: 500uA lalarm: 4.5mA



 **EV-IP Input Module**

Interface unit providing two monitored switch inputs. Can be mounted on standard MK two gang pattress box.

Part No: F16N82033
 Standard: EN54-18:2005
 Operating voltage: 20-35v
 Operating current: Iquiescent: 500uA lalarm: 4.5mA



 **EV-SIO Single Input/Output module**

Interface unit providing one monitored switch input and one volt free c/o relay outputs rated at 24v 2 amps. Can be mounted on standard MK two gang pattress box.

Part No: F16N82031
 Standard: EN54-18:2005
 Operating voltage: 20-35v
 Operating current: Iquiescent: 300uA lalarm: 3mA



 **EV-SCM Sounder Control Module**

Interface unit controlling one zone of conventional sounders rated @ 1amp maximum. Requires local PSU Can be mounted on standard MK two gang pattress box.

Part No: F16N82029
 Standard: EN54-18:2005
 Operating voltage: 20-35v
 Operating current: Iquiescent: 750uA lalarm: 4.5mA



 **EV-ZMU Zone Monitor Module**

Interface unit providing one monitored conventional detector circuit. Requires local PSU. Can be mounted on standard MK two gang pattress box .

Part No: F16N82023
 Standard: EN54-18:2005
 Operating voltage: 20-35v



 **EV-SBM Sounder Booster Module**

Module for boosting the sounder circuit output from a standard sounder control module up to 15A max.

Part No: F16N82028
 Standard: EN54-18:2005
 Operating voltage: From an external psu:24v
 Operating current: Iquiescent 85mA lalarm: 90mA + sounder load (max 15A)



EV-MIO (in DIN Rail Housing) Multi Input/Output Module

Interface unit providing three monitored switch inputs & 2 volt free c/o relay outputs rated at 24v 2 amps (in DIN rail housing). Can also interface to 4 x EV 240v MRA mains switching relays.

Part No: F16N82026
 Standard: EN54-18:2005
 Operating voltage: 20-35v
 Operating current: Iquiescent: 700uA lalarm: 6.25mA



EV-MINI I/P Mini Input Module

Mini module providing a single monitored input, can be mounted in the control panel or other enclosure to suit.

Part No: F16N82025
 Standard: EN54-18:2005
 Operating voltage: 20-35v
 Operating current: Iquiescent: 460uA lalarm: (NO LED) 460 uA (LED ON) 4.5mA



IP65 Housing For EV Module PCB

IP65 housing for any EV module.

Part No: F16N81441
 Standard: EN54-18:2005



EV-240V MRA Mains Switching Relay

Relay unit suitable for switching 24v - 120 v. Ac (rated at 10 amps) to maximum 240v. Ac (rated at 5 amps - resistive) or 8 amps @28v.dc.

Part No: F16N82024
 Standard: EN54-18:2005
 Operating voltage: 24v dc 24v ac 120vdc 120v ac



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Conventional Control Panels

Key Features

Built-in detector removal indication facility

- From 1 to 8 zones
- 4 Alarm circuits on 4-8 zone panels
- Conforms to the requirements of EN54-2
- User-friendly access code
- One-man test facility
- Non-latching zone feature
- Class change input
- Earth fault monitoring
- Fully-functional repeater available (4 & 8 zone panels only)
- Removable cable-entry grommets
- User-friendly controls
- Surface or semi-flush mounting as standard
- Ample termination space
- Flame-resistant polycarbonate enclosure
- Log book and manual supplied
- Complies with EMC and LVD directives



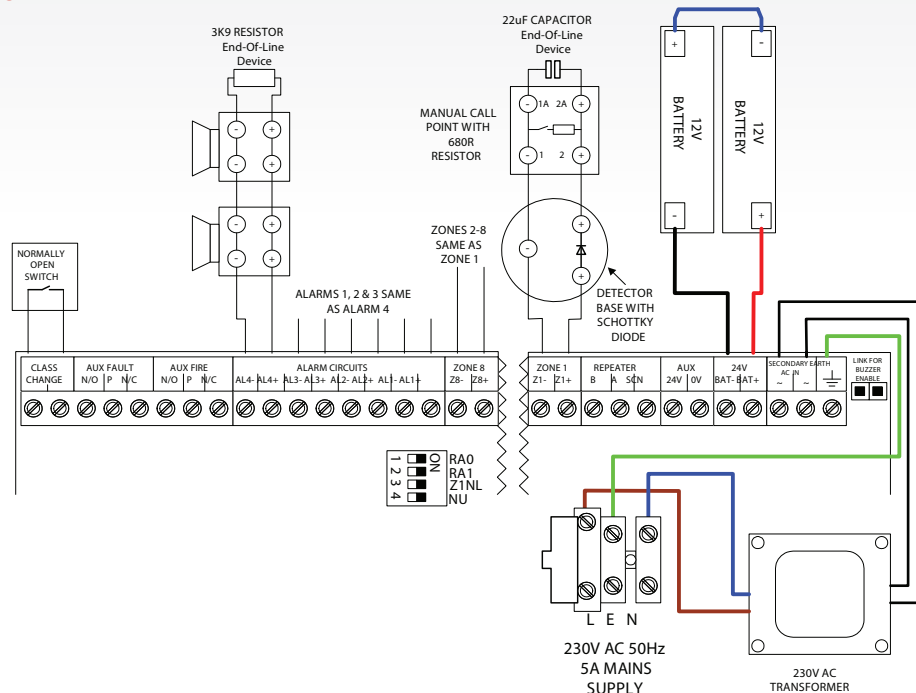
Introduction

The CB200 conventional panel may be supplied in 1, 2, 4 or 8 zone formats. It complies with the requirements of EN54 Part 2. All zones and alarm circuits are monitored for open and short circuit fault conditions with detector removal facility also provided as standard.

The cabinet will house 2 x 12V 2.1AH S.L.A. batteries wired in series, which will sustain an 8 zone panel for up to 24 hours. All panels have a zone 1 non-latch facility to enable panel interlinking without “lock-up” occurring. The class change input enables the alarm circuits to operate without panel indication or panel latching.

The cabinet back-box houses only the transformer, thus providing a virtually empty enclosure for first fix installation. A steel gland plate, removable plastic grommets and ample space are designed to assist with cable termination. A slide-in insert is included for clear zone identification. The surface-mount electronics motherboard is fitted and terminated after first fix installation. Finally a terminal cover completes the panel installation.

Typical Connections



Technical Specifications

	1 zone panel	2 zone panel	4 zone panel	8 zone panel
Maximum field equipment load:	800mA			
Auxiliary 24VDC output:	250mA			
Mains failed current consumption:	35mA @24VDC	40mA @24VDC	40mA @24VDC	40mA @24VDC
Maximum battery charger output:	500mA @27.5 VDC			
Common fire output:	Volt-free contacts - 1A, 30V DC max.			
Common fault output:	Volt-free contacts - 1A, 30V DC max.			
Alarm circuit output:	2 at 250mA each @28VDC	4at 500mA each @28VDC	4at 500mA each @28VDC	4at 500mA each @28VDC
Battery size:	2 x 12V 2.1AH sealed lead acid	2 x 12V 2.1AH sealed lead acid	2 x 12V 2.1AH sealed lead acid	2 x 12V 2.1AH sealed lead acid
Cabinet Sizes (Back box only)	245mmH x 287mmW x 66mmD (Excluding front cover)			
Weight (excluding batteries):	2.3kg	2.3kg	2.3kg	2.3kg

Note: On the 4-8 zone panels the total current available for the field devices is 800mA at 24VDC. This current must be shared between the alarm and aux. supply.

Part No:

2500/383	1 zone control panel
2500/384	2 zone control panel
2500/385	4 zone control panel
2500/386	8 zone control panel

Hardware

Sturdy 1.5mm mild steel enclosure with textured, off white, paint finish (RAL 7035 as standard)

- Top knockouts for 20mm cable glands, rear oval cable knockouts & one knockout provided at bottom of panel
- Quality fibreglass circuit boards, surface mount components
- Display mounted controls access keyswitch
- Generous internal clearances for cabling and glanding
- 2,4,8 & 16 Zone models house up to 12Ah SLA battery set. 32 zone houses up to 18Ah set
- Motherboard & power supply/transformer mounted on easily removable chassis for ease of installation
- Text inserts used for zone descriptions
- Insertable text option for controls & panel indications allowing easier multilingual support



Overview

The Precept EN range of conventional control panels are powerful yet user friendly. They are designed and manufactured to a high standard and are approved by LPCB to EN54 parts 2 & 4. The original Precept panel had earned a reputation, over many years, for its reliability & quality and the Precept EN range is a worthy successor offering all the features you could wish for in one high quality, aesthetically pleasing and reliable package. Since its launch in 2003 it has proved to be an excellent product selling worldwide into many markets.

These panels are available in 2,4,8,16 & 32 zone versions along with suitable repeaters for all models. The 8 - 32 zone panel models are capable to drive any combination of 8 channel output expansion boards (relays, alarm circuits & open collector 0v outputs) which can be set to be zonally activated or common output modes.

Each panel has extensive configuration options but remains easy to install, program and operate. This is supported by comprehensive documentation on commissioning, operating and maintenance. The panels are designed to work with a wide range of manufacturers detectors and are able to cope with many types of installation (new or retrofit).

Controls & Panel Connections

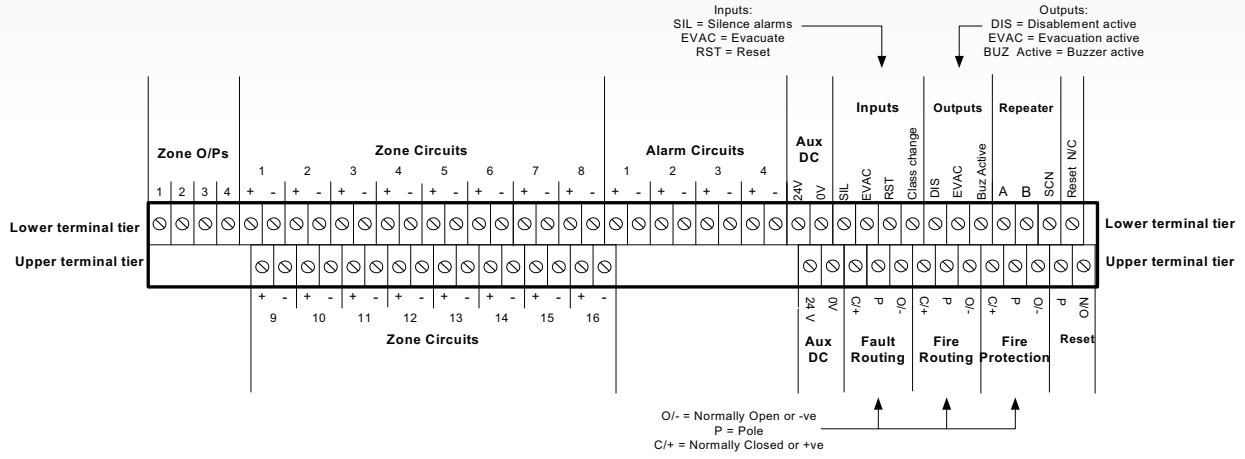
Detection	Designed to work with a wide range of manufacturers detectors (up to 32 detectors per zone) 2,4,8,16 & 32 zone versions available - fully fault monitored Zone activation resistance typically 470 or 680 Ohms eg. callpoint or input signal 22 uF Capacitor zone EOL monitoring. IS (Intrinsically Safe) zones selectable - In this mode the EOL device is changed to a 10K resistor NLZ (Non Latching Zones) selectable - output relay disablement option for this function Short circuit activated zones selectable 'Indication only' zone mode option	Indications	Power Supply On Power supply fault Zone fire, Fault & Disabled Common Fire Fire routing active System fault General Fault Earth fault Fuse failed Repeater fault Sounder fault/disabled Sounder test Fire protection output fault/disabled Fire routing fault/disabled Fault routing fault/disabled Test mode active Disablement Buzzer silenced Delay on/off/override Select mode active Evacuate
Sounder O/P	4 fully monitored sounder (bell/alarm) circuits 24V active (2 zone panel has 2 circuits)	Panel Functions	Extensive configuration and programming options to cater for individual requirements. Engineer can program the many settings via use of internal dip switches combined with front panel controls Numerous disablement options (sounder circuits, zones, relays, panel buzzer & earth fault monitoring) One man zone & sounder test modes (individual zones can be selected) Delay mode options - sounders and relay outputs can be disabled for a 1-9 minute time period if certain programmed zones are activated (not EN54 compliant in this mode) 2 stage delay mode - panel will delay sounding alarms etc. for 2 minutes, if acknowledged at the panel within that period then the delay mode reverts to continue remaining overall pre-programmed minutes Zonal or general alarm options with continuous or pulsed 'non-alarm zone' sounder modes Clock/timer module option
Inputs	Remote inputs for SILENCE, EVAC, RESET, CLASS CHANGE (0V applied activation)		
Outputs	Monitored relay outputs for FAULT ROUTING, FIRE ROUTING & FIRE PROTECTION (configurable to volt free) Open Collector (0V switched) outputs for zones 1-4, disablement active, evacuate & buzzer active. Volt free reset relay - active for 10 Seconds on panel reset. Add-on 8 way expansion modules (sounders, LED driver & Volt free relays) for 8 - 32 zone panels. 1 x 8 way board can be fitted in standard panel and 2 x 8 way boards can be fitted in the large 8/16 zone panel enclosures. Separate expansion boxes are available for increased capacity. Auxiliary 24V DC output (electronically fused- clears on reset)		
User Controls	Controls Enable key switch Silence/Resound alarms Evacuate Reset System Disable & Enable Menu Up & Down Select On/Off Test Display Silence Buzzer Delay On/Off & Override Test		

Panel Specifications

Function	2 Zone	4 Zone	8 Zone	16 Zone	32 Zone
Mains Supply (tolerance +10 / -15%)	230V ac	230V ac	230V ac	230V ac	230V ac
Max. Power Consumption	85W	85W	165W	165W	240W
Mains Fuse (BEAB Approved Type)	1A 20mm	1A 20mm	3.15A 20mm	3.15A 20mm	3.15A 20mm
Battery Fuse	2A 20mm	2A 20mm	5A 20mm	5A 20mm	6.15A 20mm
Max. PSU/Batt. Charger Output	1.5V	1.5V	3A	3A	5A
Sounder Circuits (24V nominal)	2 @ 500 mA	4 @ 500 mA	4 @ 1 A	4 @ 1 A	4 @ 1 A
Aux DC Output (24V nominal)	500mA	500mA	1 A	1 A	1 A
Max. Size Battery Space	2 x 12 Ah	2 x 12 Ah	2 x 12 Ah	2 x 12 Ah	2 x 18 Ah
Mains Fail Batt. Current (no load)	45 mA	45 mA	45 mA	45 mA	55 mA
As Above - 1 Zone In Alarm	80 mA	80 mA	80 mA	80 mA	90 mA
Mains Failed Voltage Output	19.2 - 27V	19.2 - 27V	19.2 - 27V	19.2 - 27V	19.2 - 27V
Repeater Panel Option	Yes	Yes	Yes	Yes	Yes
Output Expansion Capability	No	No	Yes	Yes	Yes
Standard Zonal Outputs	Zones 1-2	Zones 1-2	Zones 1-4	Zones 1-4	Zones 1-4
Operating Temperature	-5° to 40°C	-5° to 40°C	-5° to 40°C	-5° to 40°C	-5° to 40°C
Operating Humidity	5% to 95%	5% to 95%	5% to 95%	5% to 95%	5% to 95%
Panel Dimensions (mm W x H x D)	325 x 370 x 126	325 x 370 x 126	325 x 370 x 126	325 x 370 x 126	400 x 441 x 131
Native Panel Weight (no batteries or printer)	6.2 Kg	6.2 Kg	7.1 Kg	7.1 Kg	10.25 Kg
Enclosure Colour	RAL 7035 Lt. Grey	RAL 7035 Lt. Grey	RAL 7035 Lt. Grey	RAL 7035 Lt. Grey	RAL 7035 Lt. Grey
C1635 8 Way Sounder Module	N/A	N/A	8 x 500 mA	8 x 500 mA	8 x 500 mA

NOTE: Although the Aux DC and Sounder outputs are rated/fused at the above stated values it should be noted that the overall power drawn by ancillary equipment must not exceed the maximum overall PSU output .

Typical Terminal Arrangement (Precept EN 16 Zone)



Part No:

2605100	Precept EN 2 Zone Panel
2605101	Precept EN 4 Zone Panel
2605102	Precept EN 8 Zone Panel
2605103	Precept EN 16 Zone Panel
2605104	Precept EN 32 Zone Panel

General Features

2,4 & 8 Zone versions available in an aesthetically pleasing design.

- Sturdy, flame retardant, ABS plastic enclosure with controls, zone text insert & indications overlay
- Easy to install, program and use. Key operated controls access (no 'user confuser' codes!)
- Panel can be surface or semi flush mounted & has 20mm cable gland breakouts
- Comprehensive LED indications and user/engineer controls
- Low standby power consumption.
- 4 Sounder circuits 4 & 8 zone, 2 on 2 zone panel. Zonal & Alert sounder options configurable
- 1.5A switched mode power supply with temperature compensated battery charging
- Enclosure houses 3.4Ah SLA batteries as standard
- 8 Zone repeaters available with 24V or mains operation (suitable for 4 & 8 zone panels only)

10uF Capacitor for zone EOL device

10K Resistor for sounder circuit EOL device

Zone 1 non latching option

Zone dependency function

Callpoint Discrimination function

Alert/Evac. callpoint function

Zones, sounders & fire signal disablement

Independent zone testing

Sounder test mode

Fault monitored fire signal output

Earth fault monitoring

Short circuit zone activation option (global)

EOL zone resistor option for retrofitting (global)



Overview

Based on the technology of our top range panels the Duo-Cel has been developed to bring our budget panel range up to date regarding functionality, and necessary approvals. The panel supports a wide variety of commonly available detectors, callpoints and sounders from various manufacturers and has many useful configurable options, inputs and outputs to aid with installation and retrofitting.

* We normally insist that training is received from us before issue of programming software. Please contact your usual supplier about obtaining training and software.

Specifications

Function	Duo-Cel 2 - 8 Zone	Mains Repeater	DC Repeater
Mains Supply Voltage	230V ac (-15% to +10%)	230V ac (-15% to +10%)	N/A
Mains Frequency	47.5 - 63 Hz	47.5 - 63 Hz	N/A
Mains Fuse (Non Servicable)	3A 20mm Glass	3A 20mm Glass	N/A
Battery Fuse	2A 20mm FB Glass	2A 20mm FB Glass	N/A
Operating Temperature Range	-5° to 40° C	-5° to 40° C	-5° to 40° C
Max. Operating Humidity	95%	95%	95%
Max. Batt. Charger Output	28.15VDC >1.4A	28.15VDC >1.4A	N/A
Max. PSU Output	1.5A 18-29V	1.5A 18-29V	N/A
Conventional Sounder Circuits	4 (2 On 2 Zone)	N/A	N/A
Max. Alarm Circuit Output	28.4VDC 500mA	N/A	N/A
Max. Aux DC Output	28.4VDC 250mA	28.4VDC 250mA	N/A
Battery Type (Set required for 24V)	3.4Ah - 12Ah SLA	3.4Ah - 12Ah SLA	N/A
S/by / Mains Fail Alarm Current 2 Zone	22mA / 63mA	N/A	N/A
S/by / Mains Fail Alarm Current 4 Zone	28mA / 76mA	-	-
S/by / Mains Fail Alarm Current 8 Zone	36mA / 84mA	17mA / 22mA	8mA / 13mA
DC Repeater Supply	N/A	N/A	20 - 30VDC
IP Rating	30	30	30
Panel Dimensions (mm W x H x D)	365 x 273 x 110	365 x 273 x 110	365 x 273 x 110
Native Panel Weight (no batteries or printer)	2.2 Kg	2.2 Kg	1.8 Kg
Panel Colour	Light Grey RAL 7035	Light Grey RAL 7035	Light Grey RAL 7035

Note that Max. values take into consideration normal operation running on lowest temperature compensation

Part No:

2605542	Duo-Cel 2 Zone Panel
2605543	Duo-Cel 4 Zone Panel
2605544	Duo-Cel 8 Zone Panel

Controls & Panel Connections

User Controls Panel	Controls Access Keyswitch Evacuate Silence Buzzer Silence/Resound Alarms Reset Disable Test Select	Panel Terminals	Zones + & - Fire Signal + & - Fire Relay N/C,N/O & POLE Fault Relay N/C,N/O & POLE Remote Controls Input & 0V Disable, Evacuate & Buzzer Active Outputs Aux. 24VDC & 0V Outputs Repeater A & B Comms. Alarm Circuits + & -
Indications	Supply On General Fire General Fault General Test General Disablement Alert/Evac On Fire Signal On Fire Signal Fault PSU Fault Fuse Failed Repeater Fault Remote Control Fault Controls On Repeater 1,2 & 3 Fault Zone Fires Zone Faults	Other Inputs & Controls	Battery Spade Connectors Mounted On PCB Molex Power Supply Connector Engineers Alarm Counter Reset Button Dip switch activated programming options Earth Fault Disable link Firmware Programming Header
Repeater Comms.	2 core screened RS485 data cable, 4 core if powered from panel	Remote I/P Details	Input: Trigger Resistor Value: Class Change 4K7 Alert 2K2 Evacuate 1K Silence 470R Reset 220R
		Remote O/P Details	Evacuate Activated 50mA (30V) Buzzer Activated 50mA (30V) Disabled 50mA (30V) Fire Signal 28V 250mA (Monitored)



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Intelligent Control Panels

Advanced Fire Panel Technology

The Mx-4200 series is fully expandable from 1 to 2 loops complete with 2 on-board sounder circuits. The control panel consists of a simple to use LCD menu driven graphical interface, dual, flashbased microprocessor technology driven by a 4 Amp power supply and charger approved to EN54 parts 2 & 4.

Dedicated system navigation keys makes learning this control panel user friendly as well as installer friendly due to the uncomplicated, trouble free, commissioning and fault finding.

Powerful Cause and Effect programming coupled with 'Dynamix' zoning makes the panel suitable for a wide range of site applications, from small to large complex multi area systems. Fully on site programmable via on board alphanumeric keypad or PC-NeT Configuration tools.

PC Software

An extensive suite of PC based, software programs have been developed to supplement the Mx-4000 series Fire panels.

User-friendly Windows based 'PC-NeT' configuration software includes a virtual panel allowing for remote diagnostics via a low cost modem connection, saving time and expense for any travelling or maintenance.



BS EN 54-2 & 4
KM 69695



0086-CPD

Features

- Fully expandable from 1 to 2 loops via common plug in loop driver boards.
- Full support of Eurotech protocol.
- Advanced graphical LCD user interface with up to 1000 fire zones as standard, allowing full EN54 compliance without additional hardware or LED indication.
- 4 Amp power supply and charger to EN54 part 4.
- Dedicated RS232 serial port for direct PC or modem connection.
- Dual, flash based, microprocessor technology with on-board Real Time Clock. Optional on-board or remote printer.
- Installer friendly 'Auto-learn' and 'Loop Detection' facility for troublefree, commissioning. Fully on-site programmable via on-board alphanumeric keypad or PC configuration tools.
- Flash memory and the advanced graphical display enables the panels to be configured to operate in virtually any language with any character set and allows the installer's logo and company details to be applied to the LCD display.
- Robust, removable equipment chassis with plug-in connectors for simple fixing and cable termination.
- When connected to the fault tolerant Ad-NeT network, the panel operates as a true peer-to-peer interface (with up to with full cross panel reporting, control 1000 shared zones) functionality.

Fully Expandable from 1 to 2 Loops
En54 Parts 2 & 4 'Approved'
3 Year Warranty as standard

Multiple Languages
Fully Networkable

Specification

Base Technology	Dual Flash based Processors with Real Time Clock, 'Trace' diagnostics, 'Pulse' communications & programmable languages
Display	Backlit 240 x 64 Graphical LCD
LED Indicators	3 Red (2 x Fire, 1 x Alarm), 1 Green (Power) & 12 Amber (Fault & System)
Controls	Alpha Numeric Keypad, Navigation Keys & System Keys for Reset, Mute, Silence/Resound & Evacuate
Protocols	Eurotech
Number of Fire Zones	1000 'Dynamix' (200 per individual panel)
Number of Loops	1-2. Expandable via individual plug-in loop driver
Devices per loop	254 Devices
Loop Current	500mA
On Board Sounder circuits	2 x 1 Amp Programmable
On Board Relays	2 x 1 Amp 30v AC/DC Programmable
Auxiliary Supply	1 x 24v 500mA
Open Collector / Logic Outputs	2 x Programmable (via optional 2-way relay card)
Programmable Switch Inputs	8 Volt Free Digital Inputs
On Board Power Supply	4 Amp High Efficiency Switched Mode
Mains Supply	230 V Ac (+10%, -15% tolerance) 50 /60 Hz 1.9 Amp
Battery Capacity	24v 18 Ah internal. 24v 48 Ah external
Charger Current	2.0 Amp DDP monitored, temperature compensated integral charger
Serial ports	1 RS232 Onboard for PC, Modem or External Printer
Programming	Via on-board Keypad or PC running Windows Tools
Event Log	1000 Fire & Event + Diagnostic
Networking	Optional plug in Network card
Printer (Optional)	Optional on-board or External Serial Printer
Enclosure / Colour	Steel IP30 / Beige (textured)
Cable Entry	20mm Knock-outs. 18 x top, 9 x top rear and 2 x bottom
Size H x W x D mm / Weight	475 x 450 x 115 / 10Kg, 475 x 450 x 188 / 10.5Kg (/D Deeper Enclosure) Back Box Only (When Recessing) 475 x 450 x 100 Deeper Back Box Only (When Recessing) 475 x 450 x 173
Metalwork Options	Flushing Bezel, Ancillary Enclosure & Battery Box
Approvals	BS EN54-2 & 4:1998

Order Codes

Mx-4200: 0 to 2 Loop Analogue Addressable (0 Loop cards)

Mx-4200/D: Mx-4200 with Deep enclosure for 2 x 38 Ahr Batteries

Mx-4201: Mx-4200 c/w 1 Loop Cards Fitted & Tested

Mx-4201/D: Mx-4200 with Deep Back Box c/w 1 Loop Card Fitted & Tested

Mx-4202: Mx-4200 c/w 2 Loop Cards Fitted & Tested

Mx-4202/D: Mx-4200 with Deep Back Box c/w 2 Loop Cards Fitted & Tested

Advanced Fire Panel Technology

The Mx-4400 series is fully expandable from 1 to 4 loops complete with 4 on-board sounder circuits. The control panel consists of a simple to use LCD menu driven graphical interface, dual, flashbased microprocessor technology driven by a 5 Amp power supply and charger approved to EN54 parts 2 & 4.

Dedicated system navigation keys makes learning this control panel user friendly as well as installer friendly due to the uncomplicated, trouble free, commissioning and fault finding.

Powerful Cause and Effect programming coupled with 'Dynamix' zoning makes the panel suitable for a wide range of site applications, from small to large complex multi area systems. Fully on site programmable via on board alphanumeric keypad or PC -NeT Configuration tools.

PC Software

An extensive suite of PC based, software programs have been developed to supplement the Mx-4000 series Fire panels.

User-friendly Windows based 'PCNeT' configuration software includes a virtual panel allowing for remote diagnostics via a low cost modem connection, saving time and expense for any travelling or maintenance.



BS EN 54-2 & 4
KM 69695



0086-CPD



Features

- Fully expandable from 1 to 4 loops via common plug in loop driver boards.
- Full support of Eurotech protocol.
- Advanced graphical LCD user interface with up to 1000 fire zones as standard, allowing full EN54 compliance without additional hardware or LED indication.
- 5 Amp power supply and charger to EN54 part 4.
- Dedicated RS232 serial port for direct PC or modem connection.
- Dual, flash based, microprocessor technology with on-board Real Time Clock. Optional on-board or remote printer.
- Installer friendly 'Auto-learn' and 'Loop Detection' facility for troublefree, commissioning. Fully on-site programmable via on-board alphanumeric keypad or PC configuration tools.
- Flash memory and the advanced graphical display enables the panels to be configured to operate in virtually any language with any character set and allows the installer's logo and company details to be applied to the LCD display.
- Robust, removable equipment chassis with plug-in connectors for simple fixing and cable termination.
- When connected to the fault tolerant Ad-NeT network, the panel operates as a true peer-to-peer interface (with up to 1000 shared zones) with full cross panel reporting, control functionality

Fully Expandable from 1 to 4 Loops
En54 Parts 2 & 4 'Approved'
3 Year Warranty as standard

Multiple Languages
Fully Networkable

Specification

Base Technology	Dual Flash based Processors with Real Time Clock, 'Trace' diagnostics, 'Pulse' communications & programmable languages
Display	Backlit 240 x 64 Graphical LCD
LED Indicators	3 Red (2 x Fire, 1 x Alarm), 1 Green (Power) & 12 Amber (Fault & System)
Controls	Alpha Numeric Keypad, Navigation Keys & System Keys for Reset, Mute, Silence/Resound & Evacuate
Protocols	Eurotech
Number of Fire Zones	1000 'Dynamix'
Number of Loops	1-4. Expandable via individual plug-in loop driver
Devices per loop	254 Devices
Loop Current	500mA
On Board Sounder circuits	4 x 1 Amp Programmable
On Board Relays	2 x 1 Amp 30v AC/DC Programmable
Auxiliary Supply	1 x 24v 500mA
Open Collector / Logic Outputs	8 x Programmable
Programmable Switch Inputs	8 Volt Free Digital Inputs
On Board Power Supply	5 Amp High Efficiency Switched Mode
Mains Supply	230 V Ac (+10%, -15% tolerance) 50 /60 Hz 1.7 Amp
Battery Capacity	24V 18Ah Internal, 24V 48Ah external
Charger Current	2.2 Amp DDP monitored, temperature compensated integral charger
Serial ports	1 RS232 Onboard for PC, Modem or External Printer
Programming	Via on-board Keypad or PC running Windows Tools
Event Log	1000 Fire & Event + Diagnostic
Networking	Optional plug in Network card
Printer (Optional)	Optional on-board or External Serial Printer
Enclosure / Colour	Steel IP30 / Beige (textured)
Cable Entry	200mm Knock-outs. 18 x top, 9 x top rear and 2 x bottom
Size H x W x D mm / Weight	475 x 450 x 115 / 10Kg, 475 x 450 x 188 / 10.5Kg (/D Deeper Enclosure) Back Box Only (When Recessing) 475 x 450 x 100 Deeper Back Box Only (when Recessing) 475 x 450 x 173
Metalwork Options	Flushing Bezel, Ancillary Enclosure & Battery Box
Approvals	BS EN54-2 & 4:1998

Order Codes

Mx-4400: 0 to 4 Loop Analogue Addressable (0 Loop cards)

Mx-4401: Mx-4400 c/w 1 Loop Card Fitted & Tested

Mx-4402: Mx-4400 c/w 2 Loop Cards Fitted & Tested

Mx-4403: Mx-4400 c/w 3 Loop Cards Fitted & Tested

Mx-4404: Mx-4400 c/w 4 Loop Cards Fitted & Tested

Mx-4400/D: Mx-4400 c/w * Loop Cards Fitted & Tested with Deeper Enclosure for 2 x 38Ahr Batteries

Advanced Fire Panel Technology

The Mx-4800 series is fully expandable from 2 to 8 loops complete with 8 on-board sounder circuits. The control panel consists of a simple to use LCD menu driven graphical interface, dual, flashbased microprocessor technology driven by a 5 Amp power supply and charger approved to EN54 parts 2 & 4.

Dedicated system navigation keys makes learning this control panel user friendly as well as installer friendly due to the uncomplicated, trouble free, commissioning and fault finding.

Powerful Cause and Effect programming coupled with 'DynamIX' zoning makes the panel suitable for a wide range of site applications, from small to large complex multi area systems. Fully on site programmable via on board alphanumeric keypad or PC -NeT Configuration tools.

PC Software

An extensive suite of PC based, software programs have been developed to supplement the Mx-4000 series Fire panels.

User-friendly Windows based 'PCNeT' configuration software includes a virtual panel allowing for remote diagnostics via a low cost modem connection, saving time and expense for any travelling or maintenance.

Features

- Fully expandable from 2 to 8 loops via common plug in loop driver boards.
- Full support of Eurotech protocol.
- Advanced graphical LCD user interface with up to 1000 fire zones as standard, allowing full EN54 compliance without additional hardware or LED indication.
- 2 x 5 Amp power supply and charger to EN54 part 4.
- Dedicated RS232 serial port for direct PC or modem connection.
- Dual, flash based, microprocessor technology with on-board Real Time Clock. Optional on-board or remote printer.
- Installer friendly 'Auto-learn' and 'Loop Detection' facility for trouble-free, commissioning. Fully on-site programmable via on-board alphanumeric keypad or PC configuration tools.
- Flash memory and the advanced graphical display enables the panels to be configured to operate in virtually any language with any character set and allows the installer's logo and company details to be applied to the LCD display.
- Robust, removable equipment chassis with plug-in connectors for simple fixing and cable termination.
- When connected to the fault tolerant Ad-NeT network, the panel operates as a true peer-to-peer interface (with up to 1000 shared zones) with full cross panel reporting, control functionality.

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Fully Expandable from 2 to 8 Loops
EN54 Parts 2 & 4 'Approved'
3 Year Warranty as standard

Multiple Languages
Fully Networkable

Specification

Base Technology	Dual Flash based Processors with Real Time Clock, 'Trace' diagnostics, 'Pulse' communications & programmable languages
Display	Backlit 240 x 64 Graphical LCD
LED Indicators	3 Red (2 x Fire, 1 x Alarm), 1 Green (Power) & 12 Amber (Fault & System)
Controls	Alpha Numeric Keypad, Navigation Keys & System Keys for Reset, Mute, Silence/Resound & Evacuate
Protocols	Eurotech
Number of Fire Zones	1000 'Dynamix' (200 per individual panel)
Number of Loops	2-8. Expandable via individual plug-in loop driver
Devices per loop	254 Devices
Loop Current	500mA
On Board Sounder circuits	8 x 1 Amp Programmable
On Board Relays	4 x 1 Amp 30v AC/DC Programmable
Auxiliary Supply	2 x 24v 500mA
Open Collector / Logic Outputs	16 x Programmable
Programmable Switch Inputs	16 x Volt Free Digital Inputs
On Board Power Supply	2 x 5 Amp High Efficiency Switched Mode
Mains Supply	230V Ac (+10%, -15% tolerance) 50 /60 Hz AC 2 Amp maximum
Battery Capacity	2 sets of 24v 4 Ah internal Minimum. 24v 38 Ah Maximum
Charger Current	2 x 2.4 Amp DDP monitored, temperature compensated integral charger
Serial ports	2 RS232 Onboard for PC, Modem or External Printer
Programming	Via on-board Keypad or PC running Windows Tools
Event Log	1000 Fire & Event + Diagnostic
Networking	Standard Network cards fitted or optional Fault Tolerant version
Printer (Optional)	Optional on-board or External Serial Printer
Enclosure / Colour	Steel IP30 / Beige (textured)
Cable Entry	20mm Knock-outs. 36 x top, 9 x top rear and 2 x bottom
Size H x W x D mm / Weight	950 x 450 x 188 / 23Kg Back Box Only (When Recessing) 950 x 450 x 173
Metalwork Options	Semi Flushing Bezel
Approvals	BS EN54-2 & 4:1998

Order Codes

Mx-4802: Mx-4800 c/w 2 Loop Cards Fitted & Tested
Mx-4803: Mx-4800 c/w 3 Loop Cards Fitted & Tested
Mx-4804: Mx-4800 c/w 4 Loop Cards Fitted & Tested
Mx-4805: Mx-4800 c/w 5 Loop Cards Fitted & Tested
Mx-4806: Mx-4800 c/w 6 Loop Cards Fitted & Tested

Mx-4807: Mx-4800 c/w 7 Loop Cards Fitted & Tested

Mx-4808: Mx-4800 c/w 8 Loop Cards Fitted & Tested

*Add /FT for Fault Tolerant variant FT

Advanced Fire Panel Technology

Based around two core products, the Mx-4010 Remote Display Terminal (*RDT*) and the fully functional Mx-4020 Remote Control Terminal (*RCT*).

Both remote terminals utilise the same graphical LCD user interface that can be found on the Mx-4000 series fire panels and are based upon the same advanced, flash based, microprocessor technology.

All Mx-4000 series panels and remote terminals can communicate over the same 2-core network cable.

Integral network interface incorporating a special screen termination to prevent mains frequency earth-loop currents flowing between network nodes.

The 'Ad-NeT' network operates as a true peer-to-peer system with full cross panel reporting, control and cause and effect functionality of up to 1000 zones.



Features

- The display information is fully programmable by individual zone or sector and can display any combination of fires, faults, pre-alarms or plant alarms. E.g. can display all information in its own sector, but can only show fire signals from other sectors of a building.
- Both remote terminals incorporate buzzer mute, view, enable/disable and test facilities with dedicated system and navigation keys for simple user control.
- The RCT has additional sector based control keys for Evacuate, Silence, Resound and Reset, which allows other networked panels to selectively respond to controls as programmed. E.g. on a site with multiple buildings, a user may be allowed to silence and reset fires originating in their own building. Fires originating from other buildings are displayed but cannot be reset.
- Fully on-site programmable via on-board alphanumeric keypad or PC configuration tools.
- By using 'flash memory' and an advanced graphical display the remote terminals can be easily configured to operate in virtually any language, with any character set and allows for the installer's logo and company details to be displayed on the LCD display during normal operation.

Networked for System Display or Control
User Friendly Graphical LCD Display
Ad-NeT/Ad-NeT+ Compatible

Small & Robust
24v DC Operating voltage
3 Year Warranty as standard

Specification

Display	Backlit 240x64 Graphical LCD
LED Indicators	3 Red (2 x Fire, 1 x Alarm), 1 Green (Power) & 12 Amber (Fault & System)
Keypad	Alpha Numeric Keypad, Navigation Keys & on-board buzzer mute facility
Controls (Mx-4020 RCT only)	System Keys for Reset, Silence, Resound & Evacuate
Key-Switch Input	Optional Level 2 Access Enable key switch
Power Supply Input	24 VDC, 150mA (/FT: 188mA) Operating range 15-30V
External Supply Monitoring	Monitored External Fault Input
Number of Fire Zones	2000 'Dynamix'
USB/Serial Ports	1 x USB & 1x RS232 Onboard for PC, Modem or External Printer
Programming	Via on-board Keypad or PC running Windows
Enclosure	Steel IP30
Cable Entry	20mm Knock-outs. 4 x top and 4 x rear
Colour	Steel IP30 / Beige (textured)
Size H x W x D mm	Enclosure: 218 x 300 x 44 Back Box Only (When Recessing) 218 x 300 x 30
Metalwork Options	Semi Flushing Bezel, Special Finishes including Brass & Chrome

Order Codes

Mx-4010: (RDT) Remote Display Terminal

MX-4020: (RCT) Remote Control Terminal

Mx-4010/FT: (RDT) with Fault Tolerant Network I/F

Mx-4020/FT: (RCT) with Fault Tolerant Network I/F

Mxm-008: Semi Flush Bezel

Mxp-018: Access Enable Key-Switch

Availability Due Second Quarter 2010

Overview

“The Mx-5000 has been developed following an extensive research programme involving industry professionals, customers and end-users”



The Mx-5000 is the next generation of analogue addressable fire alarm control panels that are fully compliant with EN54 part 2, 4, 13 and CE marked under the Construction Products Directive (CPD). The Mx-5000 has been developed following an extensive research programme involving industry professionals, customers and end-users.

The panels have been designed to be flexible and powerful with an intuitive user interface. Each panel has a high resolution LCD display with a high-tactile feedback membrane keypad. This combination provides a concise menu-based, high resolution graphical user interface with simple select and click programming to aid engineering configuration and end-user operation.

An extensive range of peripherals is available for the Mx-5000, including input /output modules, printers and a variety of remote terminals, together with easy to use software for programming, diagnostics and control.

Advanced Fire Panel Technology

The Mx-5100 comes fitted complete with a single loop driver card, 2 on-board sounder circuits, 20 programmable Zonal/System Led's with slide in labels and Four dedicated programmable push-buttons.

The control panel consists of the latest in flash-based microprocessor technology combined with a high resolution, high contrast LCD display and tactile keypad. This combination provides a concise menu based, high resolution, advanced Graphical User Interface with simple 'select & click' programming to aid engineer configuration and end user operation.

Powerful Cause and Effect programming coupled with 'Dynamix' zoning and enhanced 'Trace Diagnostics' makes the panel suitable for a wide range of site applications, from small to large complex multi area systems. Fully on site programmable via on board alphanumeric keypad or PC-NeT Configuration tools.

PC Software

An extensive suite of PC based, software programs have been developed to supplement the Mx-5000 series Fire panels.

User-friendly Windows based PC-NeT configuration software includes service tools, logo programming software and virtual panel software allowing for remote diagnostics via a low cost modem or IP connection, saving time and expense for any travelling or maintenance.

Availability

Due Second Quarter 2010



Features

- 20 Zonal/System LED's fully programmable with slide in labels.
- Full support of Eurotech protocol.
- Advanced graphical LCD user interface with up to 200 fire zones as standard, allowing full EN54 compliance without additional hardware or LED indication.
- Optional onboard Printer.
- Dual, flash based, microprocessor technology with on-board Real Time Clock.
- Dedicated USB & RS232 serial port for direct PC, modem or IP connection.
- Installer friendly 'Auto-learn' and 'Loop Detection' facility for uncomplicated, trouble-free, commissioning and fault finding.
- Fully on-site programmable via on-board alphanumeric keypad or PC configuration tools.
- Flash memory and the advanced graphical display enables the panels to be configured to operate in virtually any language with any character set and allows the installer's logo and company details to be applied to the LCD display.
- Robust, removable equipment chassis with plug-in connectors for simple fixing and cable termination.
- When connected to the fault tolerant *Ad-NeT* network, the panel operates as a true peer-to-peer interface (with up to 2000 shared zones) with full cross panel reporting, control and cause and effect functionality.

Single Loop Control Panel
EN54 Parts 2, 4 & 13'Approved'
3 Year Warranty as standard
Multiple Languages

Fully Networkable
20 Zonal/System LED's with Slide in labels

Specification

Base Technology	Dual Flash based Processors with Real Time Clock, 'Trace' diagnostics, 'Pulse' communications & programmable languages
Display	Blue Backlit 240x64 Graphical LCD
LED Indicators	3 Red (2 x Fire, 1 x Alarm), 1 Green (Power) & 18 Amber (Fault & System)
Controls	Alpha Numeric Keypad, Navigation Keys & System Keys for Reset, Mute, Silence/Resound & Evacuate as well as 5 Programmable Push Buttons
Protocols	Eurotech
Number of Fire Zones	2000 'Dynamix' (200 per individual panel)
Number of Loops	1
Devices per loop	254 Devices
Loop Current	500mA
On Board Sounder circuits	2 x 1 Amp Programmable
On Board Relays	2 x 1 Amp 30v AC/DC Programmable
Auxiliary Supply	1 x 24v 500mA
Open Collector / Logic Outputs	8 x Programmable (via optional 8-way relay card)
Programmable Key Switch Inputs	8 Volt Free Digital Inputs
Total Available Output Current	3 Amps Maximum Available for loop current + sounder outputs + auxiliary supply
Mains Supply	230 V 50 Hz AC (+10%, -15% tolerance) 0.4 Amp
Battery Capacity	24V 4 Ah internal (min). Standard-24V 7 Ah Internal(max), Medium Enclosure-24V 12Ah internal (max)
Charger Current	1.0 Amp Temperature compensated
Serial ports	1 RS232 Onboard for PC, Modem, IP or External Printer
USB Interface	USB B type for PC connection
Programming	Via on-board Keypad or PC running Windows Tools
Event Log	10,000 Event + Diagnostic + 500 Fire
Networking	Optional plug in Network card
Printer (Optional)	Optional on-board or remote
Enclosure / Colour	Steel IP30 / RAL9002
Cable Entry (20mm knockouts)	Standard-13x top and 8x top rear, Medium Enclosure - 17x top, and 11x top rear
Size H x W x D mm	Mx-5100 : 340 x 340 x 88, Mx-5100/M: 340x 415 x 115
Metalwork Options	Flushing Bezel, Battery Box and a range of special finishes including Stainless Steel, Brass and Chrome
Approvals	EN54-2:1998, EN 54-4:1998 & EN 54-13:2005

Order Codes

Mx-5100: Single Loop Analogue Addressable
Mx-5100N: Single Loop Analogue Addressable

Mx-5100/M: Single Loop Analogue Addressable
 c/w medium sized enclosure

Advanced Fire Panel Technology

The Mx-5200 series is a dedicated 2 loop complete with 2 on-board sounder circuits, 20 programmable Zonal/System Led's with slide in labels and Four dedicated programable push-buttons.

The control panel consists of the latest in flash-based microprocessor technology combined with a high resolution, high contrast LCD display and tactile keypad. This combination provides a concise menu based, high resolution, advanced Graphical User Interface with simple 'select & click' programming to aid engineer configuration and end user operation.

Powerful Cause and Effect programming coupled with 'Dynamix' zoning and enhanced 'Trace Diagnostics' makes the panel suitable for a wide range of site applications, from small to large complex multi area systems. Fully on site programmable via on board alphanumeric keypad or PC-NeT Configuration tools.

PC Software

An extensive suite of PC based, software programs have been developed to supplement the Mx-5000 series Fire panels.

User-friendly Windows based PC-NeT configuration software includes service tools, logo programming software and virtual panel software allowing for remote diagnostics via a low cost modem or IP connection, saving time and expense for any travelling or maintenance.

Availability

Due Second Quarter 2010



Features

- Dedicated 2 loops via common plug in loop driver boards.
- 20 Zonal/System LED's fully programmable with slide in labels.
- Full support of Eurotech protocol.
- Advanced graphical LCD user interface with up to 2000 fire zones as standard, allowing full EN54 compliance without additional hardware or LED indication.
- 5 Amp power supply and charger to EN54 part 4.
- Dedicated USB & RS232 serial port for direct PC, IP or modem connection.
- Dual, flash based, microprocessor technology with on-board Real Time Clock. Optional on-board or remote printer.
- Flash memory and the advanced graphical display enables the panels to be configured to operate in virtually any language with any character set and allows the installer's logo and company details to be applied to the LCD display.
- Robust, removable equipment chassis with plug-in connectors for simple fixing and cable termination
- When connected to the fault tolerant Ad-NeT network, the panel operates as a true peer-to-peer interface (with up to 2000 shared zones) with full cross panel reporting, control and cause and effect functionality.

Fully Expandable from 1 to 2 Loops
EN54 Parts 2,4 & 13 'Approved'
3 Year Warranty as standard
Multiple Languages

Fully Networkable
20 Zonal/System LED's with Slide in labels

Specification

Base Technology	Dual Flash based Processors with Real Time Clock, 'Trace' diagnostics, 'Pulse' communications & programmable languages
Display	Blue Backlit 240 x 64 Graphical LCD
LED Indicators	3 Red (2 x Fire, 1 x Alarm), 1 Green (Power) & 18 Amber (Fault & System)
Controls	Alpha Numeric Keypad, Navigation Keys & System Keys for Reset, Mute, Silence/Resound & Evacuate as well as 5 Programmable Push Buttons
Protocols	Eurotech
Number of Fire Zones	2000 'Dynamix' (200 per individual panel over 2 loops)
Number of Loops	Dedicated 2 Loop Control Panel
Devices per loop	254 Devices
Loop Current	500mA
On Board Sounder circuits	2 x 1 Amp Programmable
On Board Relays	2 x 1 Amp 30v AC/DC Programmable
Auxiliary Supply	1 x 24v 500mA
Programmable Key Switch Inputs	8 x Programmable Inputs with Slide in Labels
On Board Switch Input	1 x Clean Contact Switch Input
On Board Power Supply	5 Amp High Efficiency Switched Mode
Mains Supply	230 V Ac (+10%, -15% tolerance) 50 /60 Hz 1.9 Amp
Battery Capacity	24V 4 Ah internal (min), Standard-24V 12 Ah Internal (max), large Enclosure-24V 18Ah Internal (max), Deep Enclosure-24V 45Ah Internal (max)
Charger Current	2.0 A Temperature Compensated
Serial ports	1 RS232 Onboard for PC, Modem, IP or External Printer
USB Interface	USB B type for PC & IP connection
Programming	Via on-board Keypad or PC running Windows Tools
Event Log	10,000 Event & Diagnostic + 500 Fire
Networking	Optional plug in Network card
Printer (Option)	Optional on-board or remote
Enclosure / Colour	Steel IP30 / RAL9002
Cable Entry (20mm Knockouts)	Standard-17x top / 11x top rear, Large Enclosure-19 x top / 11 x top rear, Deep Enclosure-30 x top / 11 x top rear
Size H x W x D mm	340 x 430 x 115, Large-470 x 450 x 115, Deep-470 x 450 x 190
Metalwork Options	Flushing Bezel, Battery Box and a range of special finishes including Stainless Steel, Brass and Chrome
Approvals	EN54-2:1998, EN 54-4:1998 & EN 54-13: 2005

Order Codes

Mx-5202*: Mx-5200 c/w 2 Loop Cards Fitted & Tested

*D-Add /D for Deep enclosure (max 45Ah batteries)

*L-Add /L for Large enclosure (max 18Ah batteries)

Advanced Fire Panel Technology

The Mx-5400 series is fully expandable from 1 to 4 loops complete with 4 on-board sounder circuits, 20 programmable Zonal/System Led's with slide in labels and Four dedicated programable push-buttons.

The control panel consists of the latest in flash-based microprocessor technology combined with a high resolution, high contrast LCD display and tactile keypad. This combination provides a concise menu based, high resolution, advanced Graphical User Interface with simple 'select & click' programming to aid engineer configuration and end user operation.

Powerful Cause and Effect programming coupled with 'Dynamix' zoning and enhanced 'Trace Diagnostics' makes the panel suitable for a wide range of site applications, from small to large complex multi area systems. Fully on site programmable via on board alphanumeric keypad or *PC-Net* Configuration tools.

PC Software

An extensive suite of PC based, software programs have been developed to supplement the *Mx-5000* series Fire panels.

User-friendly Windows based *PC-Net* configuration software includes service tools, logo programming software and virtual panel software allowing for remote diagnostics via a low cost modem or IP connection, saving time and expense for any travelling or maintenance.

Availability

Due Second Quarter 2010



Features

- Fully expandable from 1 to 4 loops via common plug in loop driver boards.
- 20 Zonal/System LED's fully programmable with slide in labels.
- Full support of Eurotech protocol.
- Advanced graphical LCD user interface with up to 2000 fire zones as standard, allowing full EN54 compliance without additional hardware or LED indication.
- 5 Amp power supply and charger to EN54 part 4.
- Dedicated USB & RS232 serial port for direct PC or modem connection.
- Dual, flash based, microprocessor technology with on-board Real Time Clock. Optional on-board or remote printer.
- Flash memory and the advanced graphical display enables the panels to be configured to operate in virtually any language with any character set and allows the installer's logo and company details to be applied to the LCD display.
- Robust, removable equipment chassis with plug-in connectors for simple fixing and cable termination.
- When connected to the fault tolerant Ad-NeT network, the panel operates as a true peer-to-peer interface (with up to 2000 shared zones) with full cross panel reporting, control and cause and effect functionality.

Fully Expandable from 1 to 4 Loops
En54 Parts 2,4 & 13 'Approved'
3 Year Warranty as standard

Multiple Languages
Fully Networkable
20 Zonal/System LED's with Slide in labels

Specification

Base Technology	Dual Flash based Processors with Real Time Clock, 'Trace' diagnostics, 'Pulse' communications & programmable languages
Display	Blue Backlit 240 x 64 Graphical LCD
LED Indicators	3 Red (2 x Fire, 1 x Alarm), 1 Green (Power) & 18 Amber (Fault & System)
Controls	Alpha Numeric Keypad, Navigation Keys & System Keys for Reset, Mute, Silence/Resound & Evacuate
Protocols	Eurotech
Number of Fire Zones	2000 'Dynamix' (200 per individual panel over 2 loops)
Number of Loops	1-4. Expandable via individual plug-in loop driver
Devices per loop	254 Devices
Loop Current	500mA
On Board Sounder circuits	4 x 1 Amp Programmable
On Board Relays	2 x 1 Amp 30v AC/DC Programmable
Auxiliary Supply	1 x 24v 500mA
Programmable Key Switch Inputs	8 x Programmable Inputs with Slide in Labels
Programmable Switch Inputs	1 x Clean Contact Switch Input
On Board Power Supply	5 Amp High Efficiency Switched Mode
Mains Supply	110 - 230 V Ac (+10%, -15% tolerance) 50 /60 Hz 1.9 Amp
Battery Capacity	24V 4Ah Internal (min), Standard-24V 12Ah Internal (max), Large Enclosure-24V 18Ah Internal (max), Deep Enclosure-24V 45Ah Internal (max)
Charger Current	2.0 Amp Temperature Compensated
Serial ports	1 RS232 Onboard for PC, Modem or External Printer
USB Interface	USB B type for PC connection
Programming	Via on-board Keypad or PC running Windows Tools
Event Log	10,000 Event + Diagnostic + 500 Fire
Networking	Optional plug in Network card
Printer (Option)	Optional on-board or remote
Enclosure / Colour	Steel IP30 / RAL9002
Cable Entry (20mm Knockouts)	Standard-17 x top / 11 x top rear, Large Enclosure-19 x top / 11 x top rear, Deep Enclosure-30 x top / 11 x top rear
Size H x W x D mm	470 x 450 x 115, Deep - 470 x 450 x 190
Metalwork Options	Flushing Bezel, Battery Box and a range of special finishes including Stainless Steel, Brass and Chrome
Approvals	EN54-2:1998, EN 54-4:1998 & EN54-13:2005

Order Codes

Mx-5401*: Mx-5400 c/w 1 Loop Card Fitted & Tested

Mx-5402*: Mx-5400 c/w 2 Loop Cards Fitted & Tested

Mx-5403*: Mx-5400 c/w 3 Loop Cards Fitted & Tested

Mx-5404*: Mx-5400 c/w 4 Loop Cards Fitted & Tested

***D-Add /D for Deep enclosure (max 45Ah Batteries)**

Analogue Addressable Fire Peripheral

The Mxp-008, 8 Way Relay Output Card is an internal peripheral for use with The Mx-4000 Multi- Loop range of control Panels.

This additional pcb provides a cost effective solution to providing 8 individually programmable 1 Amp rated, volt free, clean contact outputs.

The Mxp-008 connects directly to the panels motherboard in which each out put can be individually assigned to an output group to provide full support for th Mx-4000 systems Dynamix zoning facilities.

Key Features

8 Individual Programmable Outputs
Fast Instant Response
3 Year Warranty as standard
Each Output 30V AC/DC, 1 Amp Rating
Cost effective against ancillary hardware

Applications

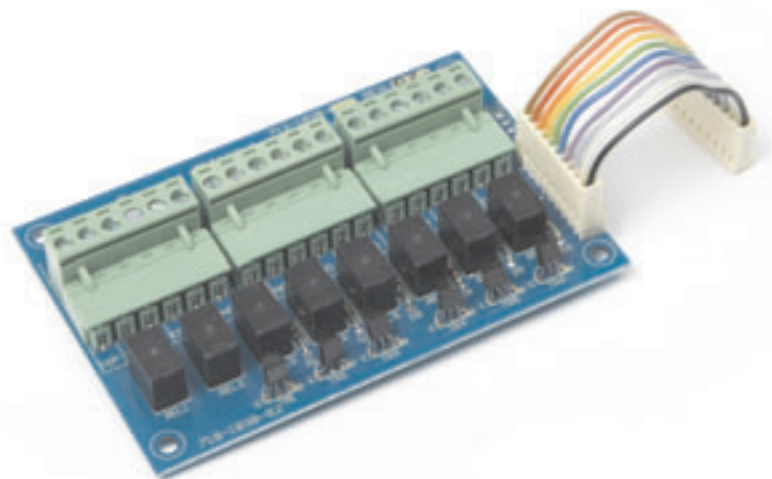
Ideal for any application where a number of programmable outputs are required at the panel, e.g. landlord / tenant interfaces.

Limitations

Each output can be assigned to an individual output group and is fully programmable for any output function allowed within the Mx-4000 configuration program.

Only one 8 Way Relay O/P Card can be fitted to a Mx-4200/4400 panel.

Up to two 8 Way Relay O/P Cards can be fitted to a Mx-4800 panel.



Programming Features

- Each output individually programmable
- Optional fail-safe setup
- Allow investigation delays
- Can silence option
- Instant response time

These features not only aid commissioning and cut down on expensive ancillary hardware but also allow the system to be easily configured to provide additional outputs for the more complex cause and effect configurations using standard products.

Specification

Relay Outputs	8 volt free contacts - 2 x changeover + 6 x normally open which can be inverted
Contact Rating	1 Amp 30 V DC/AC Maximum
Power Supply	24 V dc (derived from panels motherboard)
Supply Current	65 mA maximum (all relays energised)
Protocols	As per detector manufacturer's specifications
Dimensions	70 mm (H) x 105 mm (W) x 18 mm (D)

Order Codes

Mxp-008: 8 Way Relay Output Card

Mxp-008F: 8 Way Relay Output Card fitted within an Mx-4200, Mx-4400 or Mx-4800 control panel

Compatibility

The Mxp-008 is fully compatible with the following Fire Alarm Control Panels: Mx-4200, Mx-4400 and Mx-4800

Mounting pillars are provided on the panel chassis to mount this card.

Analogue Addressable Fire Peripheral

The Mxp-014, 8 Way Input Card is an internal peripheral for use with the Mx-4000 Multi-Loop range of control panels.

This additional pcb provides a cost effective solution to providing 8 individually programmable clean contact switch inputs.

The unit connects directly to the control panel and is ideal for class change latching/non-latching operation where a fast input response is essential.

Key Features

- 8 Individual Clean Contact Inputs
- Fast Response time
- Individually Programmable
- Cost effective against ancillary hardware
- 3 Year Warranty as standard

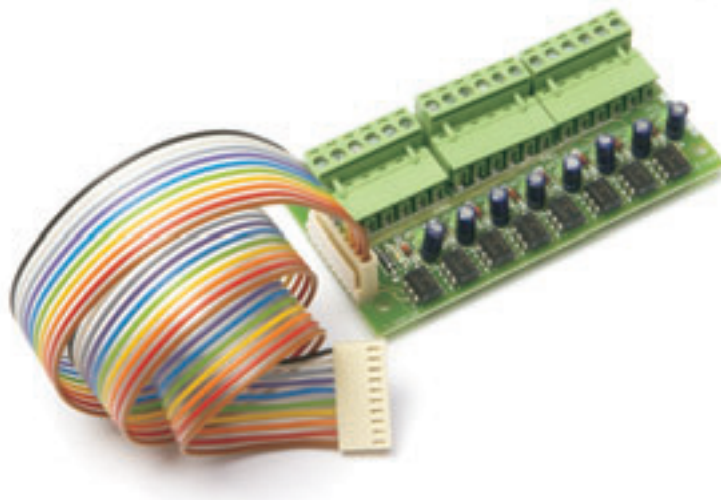
Applications/Limitations

All Inputs can be individually programmed for any specific function allowed in the control panel programme: i.e. Fire, fault, Pre-Alarm, Security, Record, Alarm-1, Alarm-2, Alarm-3, Key Lock, Silence, Resound, Mute, Disable Group, Control Signal and Fire Evacuate.

Only one 8 Way Input card can be fitted to an Mx-4200/ Mx4400 control panel.

Up to two 8 Way Input Cards can be fitted to an Mx-4800 control panel.

The input functions can be either latched or non latched and include Fire, Fault, Pre-Alarm, Security, General Alarm (Class Change), Group Disable, Control, Level 2 Access Enable etc together with any other programmable input option allowed within the Mx-4000 Systems Dynamix zoning facilities.



Programming Features

- Each Input Individually Programmable
- Non Latching Options
- Allow Investigation Delays
- Normally Open Inputs can be inverted
- Easily programmable by on board keypad or via PC
- Instant Response Time

Specification

Switch Inputs	8 normally open inputs. (Can be inverted via software for normally closed operation on an individual basis).
On board indication	8 on board Green LED's
Power Supply	24 V dc (E.g. Wired from panel 24V Aux supply)
Supply Current	Open - 0mA Closed - 2.2mA per switch
Dimensions (H x W x D)	55mm x 105mm x 18mm

Order Codes

Mxp-014: 8 Way Input Card

Mxp-014F: 8 Way Input card fitted within an Mx-4200 / Mx-4400 or Mx-4800 control panel

Compatibility

The Mxp-014 is fully compatible with all our Fire Alarm Control Panels
Mounting pillars are provided on the panel chassis to mount this card.

Analogue Addressable Fire Peripheral

The Advanced Mxp-028 Modem Card is a peripheral interface for use with the Mx4000/5000 range of control panels.

The unit permits remote PC connection for interactive control panel interrogation via the software package PC-Net-004.

The unit can be supplied in PCB format for internal panel mounting, or in an enclosure for remote mounting.

This unit has the following diagnostics.

Heartbeat LED Indicator

During initial power up, LED 3 will flash at a rate of 2Hz. After approximately 5 seconds it will revert to 1Hz indicating normal operation.

ModemStatus LED's

DCDIND – Telephone connection established.
 RXIND – Receipt of data by modem.
 DTRIND – Always illuminated.
 TXIND – Data transmission by modem.

RS232Activity LED's

RX – Receipt of data from fire panel.
 TX – Transmission of data to fire panel.

Key Features

Remote Dial-Up access to the Mx4000 Series.

Can be Internally mounted or remotely Fitted.

Uses Pc-Net-004 for PC to site connection

3 Year Warranty as standard.



Specification

Power Supply	15-30V DC (e.g. Wired from panel 24V auxiliary supply)
Supply Current	100mA (typical at 24V DC)
Temperature	-5°C to 50°C
Humidity	95% Humidity (non condensing)
Dimensions	Enclosure: 218mm x 300mm x 45mm (H x W x D)

Order Codes

Mxp-028-F: Internal panel modem mounted within an Mx4200, Mx4400 or Mx4800 control pane or within any Mx-5000 Series.

Mxp-028-BX: Boxed modem. (See specification details for enclosure dimensions)

Spares:

Mxp-028: Modem Card

Compatibility

Internal fitting of the Mxp-028 is applicable only to the Mx4200, Mx-4400, Mx-4800, Mx-5100, Mx-5200 Mx-5400 & Mx-5800 control panels.

The Mxp-028-BX can be used with the Mx-4100, Mx-4200, Mx-4400, Mx-4800, Mx-5100, Mx-5200, Mx-5400 & Mx-5800 control panels.

Applications / Limitations

The modem will allow interactive interrogation of the connected fire product including transfer of the event log using Pc-Net-004 software.

Analogue Addressable Fire Peripheral

The Mxp-048 is a portable / desktop version of the Mxp-012 Internal thermal printer for use with the Mx-4000/5000 multi-loop panels. This state of the art unit has been designed to provide automatic, or on demand, hard copy listings of the event log and or status information. For automatic operation the printer allows the user to individually select the operation for Fire, Fault, Test and Alarm event types.

The unit is fast and silent during operation and has its own in-built battery backup to enable continuous un-interrupted operation even during a mains fail situation. The printer mechanism itself has an easy access, front-loading paper roll compartment.

Ideally suited for engineer use – connect the printer to the panel during commissioning / maintenance to printout details of Faults, Disablements, etc. along with input points including their analogue values for a permanent record.

Key Features

Mx-4000/5000 Compatible

Thermal Printer

3 Year Warranty as standard

Fast and Silent Operation

Applications / Limitations

Can be used for printing the panel's event log or configured by the user to automatically print any of the following network event types: - Fire, Fault*, Alarm or Test.



Programming Features

- Automatic Operation for Fire, Fault, Alarms and Tests.
- On-Demand Option for Printing Inputs, Outputs, Disablements,
- Network Faults and Event Log.
- Easy paper loading - Clamshell Design
- Battery Standby Support

Specification

Printer Type	Thermal, Graphical
Dimensions	150D x 110 W x 70 H (max height)
Power Supply	230V AC via the supplied adaptor
Operating Temperature	5°C to 50°C, 10-85% RH (Non-condensing)
Storage Temperature	-20°C to 50°C, 10-90% RH (Non-condensing)
Printer Resolution	384 dots per line, 8 dots / mm
Sensors	Door Closed, Paper Out
Paper Roll	Thermal, 58mm Wide, 50mm Diameter
Power Save Mode	Automatic Switch Off if the printer is not used for 5 minutes to save battery life. This feature can be turned off.

Order Codes

Mxp-048: Desktop Thermal Printer c/w PSU, Battery and Leads

Spares:

Mxs-008: Thermal printer roll (pack of 10)

Mxs-035: Re-chargeable battery pack

Mxs-036: Rubber Boot and belt kit

Mxs-037: Spare PSU and Power Lead

Compatibility

The printer functions are supported from panel software revision 16 onwards.

Analogue Addressable Fire Peripheral

The Mxp-012 on-board thermal printer is an internal peripheral for use with the Mx-4000 Multi-Loop and Mx-5000 range of control panels.

This additional unit provides automatic, or on demand copy listings of the event log or status information.

The unit being fast and silent during operation has its own in-built battery backup to enable continuous un-interrupted operation even during a mains fail situation.

Spare rolls of thermal paper can easily be replaced due to the mechanisms easy access front loading compartment.

Key Features

Fast Instant Response

3 Year Warranty as standard

Fast and Silent Operation

Thermal Printer

Cost effective against ancillary hardware

On-demand Option for Printing

Inputs

Outputs

Disablements

Event Log

Network Faults

Applications

Can be used for printing the panel's event log or configured by the user to automatically print any of the following event types: Fire, Fault, Alarm or Test.

Note: If an on-board Printer is to be fitted to the panel with a zone indicator module, use the Mxp-013-050 or Mxp-013-100 modules. The Mxp-025 20 Zone LED card cannot be used.



Printable Options/Features

Automatic Operation for

- Fire
- Faults
- Alarms
- Tests

Specification

Printer Type	Thermal, Graphical
Printer resolution	384 dots per line
Panel loading in Quiescent State	20mA
Panel loading, continuous printing	25mA
Maximum working temperature	50°C

Order Codes

Mxp-012: On-board Printer c/w chassis door and label

Mxp-012F: On-board Printer Fitted to an Mx-4200 / Mx-4400 or Mx-4800

Compatibility

The on-board Printer can be fitted to the following Fire Alarm Control Panels:

Mx-4200, Mx-4400, Mx-4800 and all Mx-5000 Series.

The On-Board printer is supported from panel software revision 16 onwards.

Analogue Addressable Fire Peripheral

The Advanced Mimic Unit (AMU) provides a flexible, cost effective solution for any Mx-4000/5000 based fire detection system which requires supplementary graphical indication of the installation via LED technology.

These units, unlike a panel mounted LED array, which to be meaningful must also have a printed lookup table or picture adjacent to the panel, provide an unambiguous graphical representation of the actual zones in fire.

The unit can be mounted either internally in an Mx-4000/5000 multi-loop control panel, or alternatively, in a bespoke remote enclosure. Each unit comprises a graphical representation of the installation together with a programmable mimic driver card and LED indicators. The mimic diagram is copied from a standard CAD drawing provided by the client and the finished unit is supplied pre-wired and ready to power-up.



Programming Features

- The panel mounted mimic is ideal for smaller systems which simply require a graphical indication of the local zones in fire, whilst the remote unit is a fully programmable stand-alone device that can accommodate a larger diagram with a large number of zones or specific devices arranged on a custom site plan.
- The remote mimic can be mounted adjacent to the control panel or remotely if connected to an Ad-NeT based network system.
- LED's can be configured to be steady or pulsing when operated and each indicator can be assigned to any input type from any panel connected to the network, providing full support for the MX-4000/5000 systems Dynamix zoning facilities.

Key Features

Supplementary Graphical Indication
 Zonal or Fully Programmable LED Option
 3 Year Warranty as standard
 Fully Networkable
 Full Colour Mimic Option

Applications

The panel mimic will show zones in fire and incorporates a DIL switch to set the zone range from 1-1000. (E.g. 1 - 100, 101 - 200.....901 - 1000)

Mxp-020-100-BX*: The remote mimic is a stand-alone unit complete with its own EN54-4 power supply/charger and each output on the driver card is fully programmable using a PC.

Compatibility:

The Mxp-027-100F can only be fitted to Mx-4200 or Mx-4400 control panels.

The Mxp-020 remote mimic is compatible with all Mx-4000 control panels from software revision 16 using the Ad-NeT peer-to-peer network. The Mxp-020 mimic driver is programmable using the Pc-NeT-003 Mx configuration tool from revision 3.1 onwards.

Specification

Power Supply	Panel Mimic 17-28V DC (e.g. Wired from panel 24V auxiliary supply)
	Remote Mimic 220 - 240V AC (+10-15%) 50 - 60 Hz 1.6A Support for up to 2 x 12V 7Ah batteries
Supply Rating	30mA quiescent + 1.2mA per LED energised (typical at 24V DC)
Temperature Range & Humidity	-5°C to 50°C 95% Humidity (non condensing)
Dimensions (mm)	Panel Mimic Mimic Drawing: 388mm W x 150mm H
	Remote Mimic Type 1: Mimic Drawing 270 W x 205 H Enclosure: 320 H x 345 W x 85 D
	Type 2: Mimic Drawing 358 W x 295 H Enclosure: 475 H x 450 W x 115 D

Order Codes

Mxp-0027-100F: Internal panel mimic with up to 100 (Mxs-026F) LED's mounted to an Mx-4200 / Mx-4400 control panel. (Artwork required i.e Autocad, Freehand).

Mxp-020-100-BX1: Remote programmable mimic enclosure (type 1) c/w PSU and up to 100 (Mxs-026F) LED's fitted (Artwork required)

Mxp-020-100-BX2: Remote programmable mimic enclosure (type 2) c/w PSU and up to 100 (Mxs-026F) Led's fitted (Artwork required)

Mxp-045-BX: Remote programmable full colour mimic enclosure and up to 50 (Mxs-026F) LED's can be fitted and up to 50 key switch inputs fitted. (Artwork and PSU required).

Mxp-020-100: 100-way programmable remote mimic driver card. (Unboxed)

Mxs-026F: high Intensity LED fitted to an Mxp-027 or Mxp-020 mimic. (LED bezel diameter = 9mm)

Spares

Mxs-027: Local 100 Zone mimic driver card

Mxs-026: High Intensity LED c/w 600mm lead for Mxp-027 or Mxp-02

Analogue Addressable Fire Peripheral

The Mxp-021 Sounder Circuit Splitter is a peripheral unit for use with all Mx-4000 range of control Panels.

This additional unit takes a standard sounder circuit from either a control panel or other panel based sounder circuit controller and multiplies to provide up to 4 monitored outputs.

In operation, the additional outputs follow the output they are connected to. The circuits are fully monitored for open and short circuit and will take an independent supply to provide up to 1A per circuit.

Key Features

4 Monitored Outputs

3 Year Warranty as standard

Up to 1 Amp per circuit

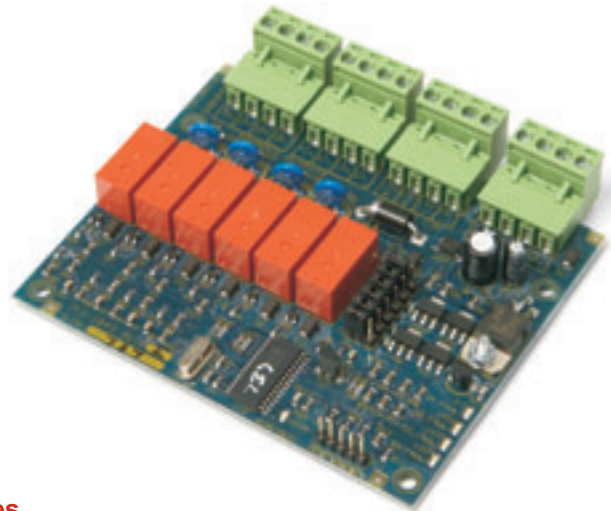
Cost effective against ancillary hardware

Applications / Limitations

The 4-way sounder splitter card can be supplied as a PCB only for mounting in a customers/OEM enclosure or supplied fitted within an Mx-4200 , Mx-4400 or Mx-4800 enclosure when specified at the time of order. When supplied fitted in this format, the load at the outputs from the splitter will be limited to the sounder output loading of the input circuit from which it is driven.

For applications where additional output drive current is required, the Mxp-021-BXP should be specified. This will provide 4 monitored 1 Amp rated sounder circuits in addition to the 1 Amp sounder circuit output capability of the Mx-4000 control panel.

All 4 outputs on the sounder splitter card will operate in tandem, and follow the output of the sounder circuit to which the card is connected.



Features

The unit is available in 2 formats:

- Mxp-021 a peripheral card usually factory fitted into an Mx-4000 multi loop panel.
- Mxp-021-BXP is a splitter and 4 Amp EN54-4 power supply mounted in a metal enclosure. This unit provides up to 1 Amp output on each of the ancillary circuits.

Specification

Sounder Input "IN+" and "IN-" - Connect to the input trigger (panel sounder Output circuit)

"OUT+" and "OUT-" - Connect to the remainder of the input sounder circuit or terminate with a 10K EOL resistor.

On Board Indication 4 "red" sounder LED's - LED's illuminate when the output is triggered

4 "yellow" Fault LED's - LED's illuminate if the corresponding sounder Circuit has a short or open circuit

Formats	1A Splitter	4A Splitter
Sounder Outputs	4 monitored sounder circuits (Total maximum load across all circuits =1A)	4 x 1A rated monitored sounder circuits
Power Supply (Sounder Outputs)	Sounder output supply provided by the input (trigger) sounder circuit	Sounder output supply provided by an external 24Vdc 4A supply
Power Supply (Card)	Quiescent: 25mA Driving: 50mA	Quiescent: 30mA Driving: 55mA
Dimensions (H x W x D)	Enclosure: (Mxp-021-BXP) 320mm x 345mm 85mm	

Order Codes

Mxp-021: 4 Way Sounder Splitter Card

Mxp-021F: 4 Way Sounder Splitter Card fitted within an Mx-4200 / Mx-4400 or Mx-4800

Analogue Addressable Fire Peripheral

The Mxp-010 interface allows BMS systems and Graphical PCs to be integrated with the Mx-4000 series of Fire Control Panels and Remote Terminals.

The interface is an integral part of the Ad-Net network permitting the handling of all network traffic and event prioritisation, via a PC, using a simple RS232 connection.

Multiple interfaces can be connected to the network catering for sites requiring control from a number of Graphical PC's.

Key Features

Standard & FT Network versions

24v DC Supply

Easily configured via PC-NET-003

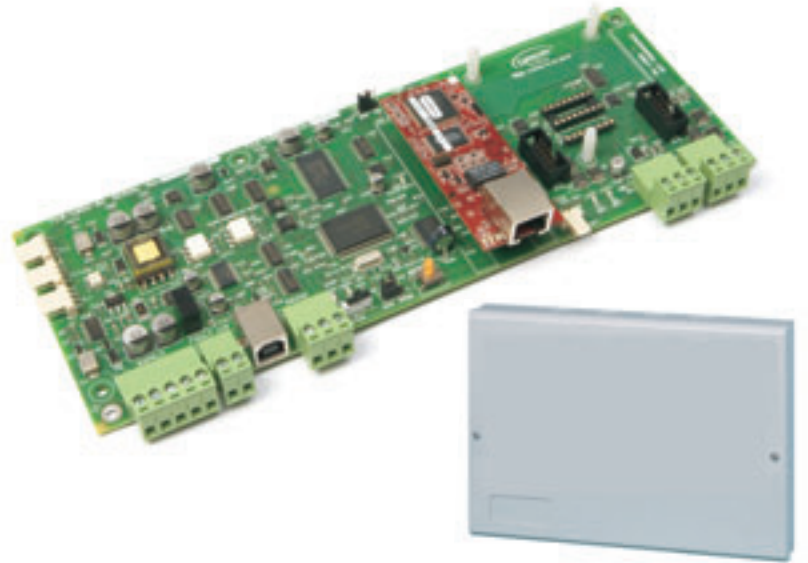
3 Year Warranty as standard

Applications / Limitations

Provides connection to various 3rd party Graphics Systems (Contact Sales for an up-to-date list of compatible systems).

Compatibility

Can be used with any Ad-NeT or network series control panels.



Programming Features

- Sector based programming.
- Each BMS interface is individually programmable with the available 'Dynamix' cause and effects rules.
- Adjustable baud rate for 3rd party integration.

Specification

Supply Voltage Input	18-28V DC
Operating Temperature	-5°C to 50°C
Relative Humidity	95% non-condensing (maximum)
PCB(HxWxD)	88mm x 242mm x 18mm, 75 grams
Indications	On-board LED indicators for Heartbeat, network transmit/receive and RS232 transmit/receive
Supply Current	Standard 48mA (/FT 86mA) at 24v DC
Serial Interface	Isolated RS232 Interface for BMS/PC
Fault Input	Monitored Volt Free Clean Contact
Weight	2 Kg
Enclosure (HxWxD)	218mm x 300mm x 45mm

Order Codes

Mxp-010-BX: Standard Network BMS Interface Boxed

Mxp-010-BX/FT: Fault-Tolerant Network BMS Interface Boxed

Mxs-010: Standard Network BMS Interface PCB

Mxs-028: FT Network Card suitable for Standard BMS Interface PCB

Analogue Addressable Fire Peripheral

The Advanced 4A Sounder Booster (Mxp-026) is a peripheral unit that utilises a standard sounder circuit, panel or loop driven, and provides increased sounder output capability.

This boosted output is fully monitored for open and short circuits and will take an independent supply to provide up to 4A of sounder current to a single circuit.

On-board indication via 2 LED indicators located on the booster PCB enable the user to view when an output has been triggered and when an external power supply has been connected.

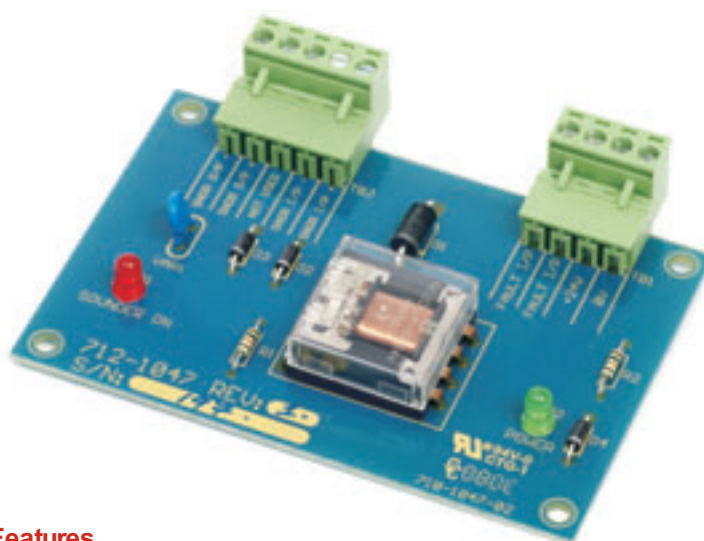
Key Features

- Increased Sounder capability up to 4A
- On-board Indication
- PSU Fault Input Contacts
- 3 Year Warranty as standard
- Cost Effective against ancillary hardware

Applications / Limitations

The sounder booster is used where a single sounder output circuit of up to 4A is required.

Each of the panel's sounder outputs can only monitor a single circuit. The unit must therefore be situated at the end of the panel's sounder output circuit to maintain correct fault monitoring.



Features

The unit is available in 2 formats:

- Mxp-026 is a booster card only for mounting in a customers /OEM enclosure or within an Mx-4000 multiloop panel
- Mxp-026-BXP is a booster card and 5 Amp EN54-4 power supply unit mounted within in a metal enclosure

Specification

Sounder Input	“SNDR I/P+” and “SNDR I/P-” Connect to the Input trigger (panel sounder output circuit)
	1 monitored sounder circuit (Total maximum load = 4A)
On board indication	1 “red” sounder LED. LED illuminates when the output is triggered.
	1 “green” power LED. LED illuminates when an external supply is connected.
Power Supply (-BXP)	Input: 230V AC 50Hz Output: 5 Amp EN54 Power Supply. Nominal output voltage = 27.3V DC
Current Consumption	Quiescent: 0mA
(Derived from sounder circuit I/P)	Driving: 17mA
Dimensions	PCB only: 70mm x 105mm x 18mm Enclosure: 320mm x 345mm x 85mm

Order Codes

Mxp-026: 4A Sounder Booster card (requires a minimum 4 Amp power supply and enclosure)

Mxp-026-BXP: 4A Sounder card Boxed with 5A PSU

Compatibility

The Mxp-026 is compatible with all Mx-4000 control panels

Analogue Addressable Fire Peripheral

The Advanced Shop Interface Unit allows Mx-4000 control panels to send and receive alarm signals from other equipment.

Input signals are received from cleancontact inputs two of which support the open circuit and short circuit fault monitoring on the external wiring.

A special input is also able to differentiate between an input that is pulsing (ALERT), and one that is continuous (EVAC), allowing easy interfacing to older equipment that can not provide independent Alert and Evacuate signals.

Two fully programmable outputs are also provided to allow signals to be transmitted to other equipment.

Key Features

Mx-4000 Compatible

3 Year Warranty as standard

Special Pulse/Continuous detecting input

2 x Volt-free Normally Open Contacts

2 x Monitored Switch Inputs

2 x Clean Contact Switch Inputs

Applications / Limitations

Inputs

Input A : Monitored switch input.

Input B : Monitored switch input.

Input C : Pulse/Continuous detecting input.

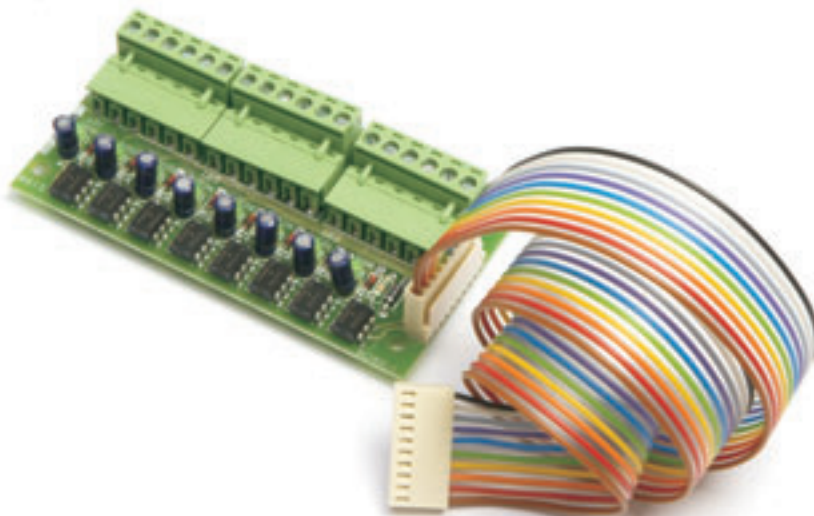
Input D : Clean contact switch input.

Input E : Clean contact switch input.

Outputs

Relay 1 : Volt-free Normally open relay contacts

Relay 2 : Volt-free Normally open relay contacts



Programming Features

- Special pulse / Continuous Detecting Input
- 2 x Volt-Free Open Contacts
- 2 x Monitored Switch Inputs
- 2 x Clean Contact Switch Inputs

Specification

Quiescent Current	12mA
All inputs activated / Relays off	22mA
All inputs activated / Relays energised	34mA
Relay contact Rating	1 Amp 30V DC/AC max
Maximum Working Temperature	50°C

Order Codes

Mxp-029: Shop Interface Unit

Mxp-029/F: Shop Interface Unit – Fitted

Compatibility

The Shop Interface Unit can internally mounted to the following equipment:

Mx-4200, Mx-4400 & Mx-4800 control panels – directly onto the chassis.

Mx-4100/L control panel – on the rear face of the back box.

This interface is supported from panel software revision 016 onwards.

Limitations

The Interface is used in place of the standard MXP-014 8-way input board (i.e. don't attempt to fit both units to the same chassis).

Analogue Addressable Fire Peripheral

The Mxp-053 Input Latch / StretchModule provides monitoring for two momentary switch inputs. The module can be configured for Latch or Stretch Modes of operation. The module can be configured for wiring supervision using the End-of-Line resistor of the host input device. A reset input is provided for the reset of a latched condition.

Key Features

The module can be loop powered. 3 Year Warranty as standard.

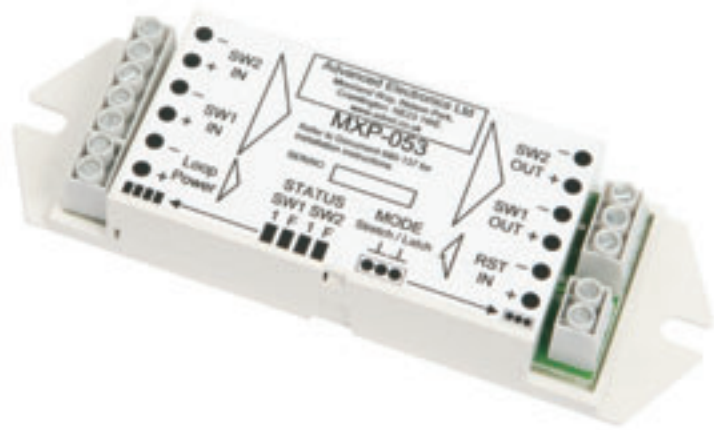
Applications / Limitations

Can be used to monitor the operation of a momentary switched input that has been interfaced to the Fire Alarm Control Panel via loop devices or on-board inputs.

Two modes of operation are available for momentary switched operation - Latched or Stretched (30 Seconds).

Can be powered by a separate 24V DC supply, or loop powered.

Common reset input (volt-free) allowing reset of the latched condition.



Programming Features

- Two modes of operation - Latched or Stretched
- Monitored or Non-Monitored connectivity
- Loop Powered
- Configurable for Advanced, Input Circuits

Specification

Applicable Standards	BS EN54-2
Relative Humidity	-95% Non Condensing
Enclosure	Plastic ABS Recyclable, 130mm x 42mm x20mm, 40 grams
DC Supply	24V (17-28V) DC, 10mA
Input Circuit	Volt Free / End-of-Line 10K
Output Circuit	Volt Free / End-of-Line 10K/20K,Max 30V DC
Reset Input Circuit	Volt Free
LED Indication	4 x LED, Input Active & Wiring Fault per Input

Order Codes

Mxp-053: Dual Input Module

Compatibility

Any volt-free switched input circuit.

End-of-Line monitoring optional when used in conjunction with Advanced Electronics control equipment.

This interface is supported from panel software revision 016 onwards.

Analogue Addressable Fire Peripheral

The Advanced Mxp-047 is a programmable interface providing connectivity of third party paging systems to the Mx-4000/5000 control equipment. It utilises the industry standard protocol ESPA 4.4.4, and connects to the equipment via a serial data connection.

An optional input function is available to monitor pager fault conditions.

Specific Event Types (e.g. Fire, Alarm, Pre-Alarm, Fault, etc.) can be sent to individual pagers and / or to groups of pagers.

Key Features

ESPA 4.4.4 Protocol

Panel Mounted or Boxed version

3 Year Warranty as Standard

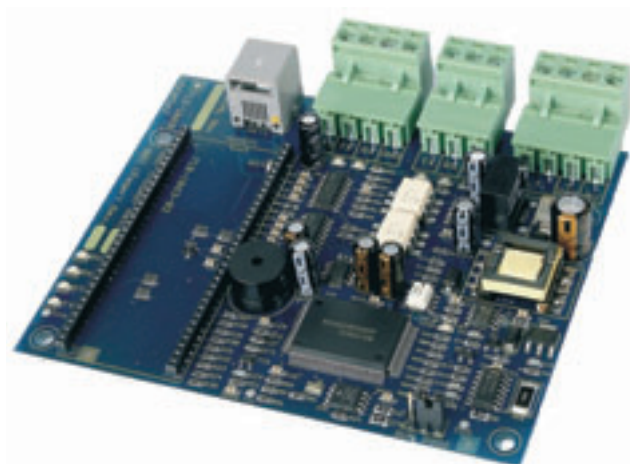
Mx-4000/5000 Series Compatible

Easily Configured via Pager PC Software

Applications / Limitations

For use with Pager Systems compliant to ESPA 4.4.4 protocol.

If a printer is also required, fit an internal Mxp-012 printer assembly.



Programming Features

- Up to 8 configurable shifts per weekday / weekend
- Up to 50 pager groups
- Up to 250 pager Addresses
- Each pager address can be configured to cover 2 Zone Ranges
- Zone and / or Point Information can be sent to the pager
- User defined texts are available and the basic event type text can be configured

Specification

Power supply	15-30V DC (e.g. Wired from Panel 24V auxiliary supply)
Supply current	100mA (typical at 24V DC)
Temperature	-5°C to 50°C
Humidity	95% Humidity (non condensing)
Dimensions	Enclosure: 218 x 300 x 45 (H x W x D) mm
Pager Interface	RS232 Galvanically (Opto) isolated
Fault Input	Non-Monitored / Monitored (10K EOL, 470R active)
Event Types Supported	Fire Alarm, Test Alarm, Plant Alarm, Pre-Alarm, Fault and Disablement

Order Codes

Mxp-047: Pager Interface Card

Mxp-047/F: Pager Interface Card (Fitted)

Mxp-047-BX: Pager Interface Card (Boxed)

Compatibility

PC-NET-011 Configuration program (MxPager) is provided for configuring the pager interface.

For compatibility tested pager systems contact your area sales representative.

The Mxp-047-Bx can be used with all Mx-4000/5000 Series panels.

Analogue Addressable Fire Peripheral

The Mxp-015 Key-Switch Interface Card is an optional module to provide installation of up to eight key-switches to a single control panel.

Key Features

Simple to install and configure
Trapped and Un-Trapped Key Switches
For use with all advanced control panels

Applications / Limitations

Two key-switches can only be fitted to an Mx-4100.

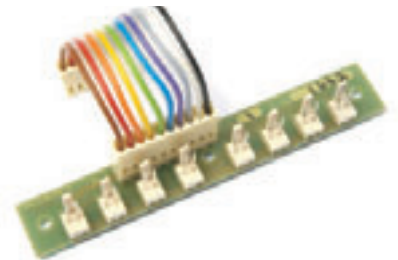
Up to four key-switches can be fitted when an on-board printer is installed.

Compatibility

Can be used with Mx-4100, Mx-4200, Mx-4400 and Mx-4800 control panels.

Compatible with the PC Configuration Tool from version 3 or later.

One key-switch can be fitted to any panel as standard. Installation of two or more key-switches will require the Mxp-015 keyswitch Input Card.



Programming Features

- Enable/Disable Controls
- Group Isolate to disable I/O across network
- For use to start/enable a Class Change
- Trapped and Un-Trapped key-switches available
- Control of Multi-Sensor / Device sensitivity mode change

Order Codes

Mxp-015*: 8 Way Key Switch Input Card

Mxp-016*: Key Switch Assembly - Trapped

Mxp-017*: Key Switch Assembly - Un-Trapped

Mxp-018*: Key Switch Assembly - Trapped (For use with Repeaters)

*F: Fitted

Analogue Addressable Fire Peripheral

The Peripheral Bus (P-Bus) has been designed to provide a serial interface connection to a range of new peripheral interface modules.

Key Features

3 Year Warranty as standard

Applications / Limitations

Provides a serial interface bus for connection of a range of peripheral interface modules now available as follows:

Mxp-032 General Routing Interface
 Mxp-034 - Programmable Sounder
 Mxp-035 - Programmable Relay Card

...and more future releases to come.

Compatible Interface modules can be mounted internally in the panel, or in separate enclosures. External wiring is classed as local use only with a maximum line distance of 20 metres and should run in rigid conduit.



Programming Features

- Provides an additional interface to the control panel for connection of a range of peripheral modules and extended functions
- Optically Isolated Interface

Specification

Data Communications	Two-wire, optically isolated, balanced line, communications interface
On-board Indications	TX & RX Communications LED indicators
Number of Modules	Up to 31 peripheral modules per panel
Operating Power	5V DC
Standby Current Consumption	5mA
Operating Temperatures	0°C to 50°C

Order Codes

Mxp-031: Peripheral Bus Adaptor Card

Mxp-031F: Peripheral Bus Adaptor Card (Fitted)

Compatibility

Can be used with Mx-4200, Mx-4400 and Mx-4800 control panels fitted with a base card hardware revision level 10 (712-1022 Mx-4400) and 09 (712-1022-002 Mx-4200), or later.

Panels programmed with Version 019 software, or later - refer to the data sheet for each peripheral module for the version of software required to support the peripheral module.

Mxp-032 General Routing Interface

For an up to date list of Additional Input / Output Modules available contact sales.

Analogue Addressable Fire Peripheral

The Mxp-032 General Routing interface Card is an optional module to provide Fire Routing Outputs compliant with BS EN54-2: 1998 Clauses 7.9 and 8.9 and BS5839-1:2002

Key Features

Simple to install and configure

Monitored Outputs

Wide range compatibility

Applications / Limitations

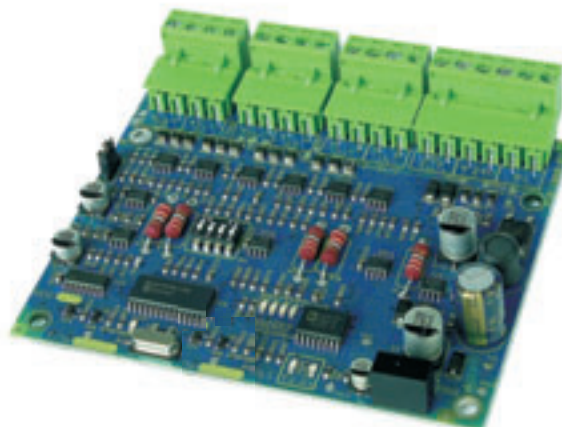
EN54-2 compliant routing interfaces providing monitored outputs to fire alarm and routing circuits. Circuits are monitored for open and short circuit conditions in both normal and active mode - Compliance with EN54-2 and BS5839-1: 2002 Clause 12.2.1a

The outputs will drive relay coils with impedances of between 1kΩ and 5kΩ.

Compatibility

Can be used with Mx-4200, Mx-4400 and Mx-4800 control panels programmed with version 019-04 software, or later, and fitted with base card hardware revision levels 10 (712-1022 mx4400) and 09 (712-1022-002 Mx-4200) or later. Compatible with the PCConfiguration Tool from version 4.19 or later.

Requires installation of the Mxp-031 Peripheral Bus Adaptor card in the panel.



Programming Features

- Two Fire Routing Outputs are provided to differentiate between Call Point (MCP) and Automatic Detector (AFD) Fire Alarm Signals if required.
- Outputs are monitored for open and short circuit wiring issues in both the quiescent and active states, and fault conditions reported on the panel (CIE) display / LED Indicators.
- Outputs are compatible with a wide range of routing equipment.

Specification

Output Circuit Spec.	24V DC Active, 5V DC Monitor
Fire & Fault Outputs	1.0mA monitor mode nominal, 5.0mA-25.0mA active (energised) mode dependent upon coil impedance, 40.0mA maximum short circuit.
Input Circuit Spec. (Future Option)	4x Monitored Input - EOL 10KΩ, Operating Resistor 470Ω
Operating voltage	24V DC [Range 19-28V] from panel Auxilliary Supply Output.
Panel loading, standby, AC Mains fail (fault output off)	43mA
Panel Loading, quiescent state (fault output on)	45mA +24mA (1KΩ coil), +5mA (5KΩ coil)
Panel Loading, ALL inputs and outputs active	48mA +72mA (1KΩ coils), +15mA (5kΩ coils)
On-board indications	6x LED Indicators for Outputs Active, Communications and Microprocessor Heartbeat
Operating Temperature	0°C to 50°C
Approvals	BS EN54-2: 1998

Order Codes

Mxp-032: General Routing Interface

Mxp-032F: General Routing Interface - Fitted

Analogue Addressable Fire Peripheral

The Programmable 4-Way Sounder Card is an optional peripheral unit that provides four individually programmable, and monitored, sounder output circuits compliant with BSEN54-2: 1998 Clause 7.8.

Up to 16 Cards can be connected to a multi-loop panel providing a maximum of 64 additional local sounder outputs.

Each output is fully programmable using the powerful 'Dynamix' Cause and Effect rules, and all outputs are synchronised.

The unit is available as either a printed circuit card only or as a boxed version with integral 4A power supply*.

Key Features

4 Way Programmable Sounder card

16 cards max per Control panel totalling

64, 1 Amp rated outputs

Easily configured via PC-NET-003

3 Year Warranty as standard

Fully Synchronised

Applications / Limitations

EN54-2 compliant sounder outputs.

Compatibility

Can be used with Mx-4200, Mx-4400 and Mx-4800 control panels programmed with Version 020-02 software, or later, and fitted with base card hardware revision levels 10 (712-1022 Mx-4400) and 09 (712-1022-002 Mx-4200) or later.

Requires installation of the Mxp-031 Peripheral Bus Interface Adaptor card in the panel.



Programming Features

- Each output is 1A rated, and monitored for open and short circuits.
- Each output is individually programmable using the 'Dynamix' Cause and Effects rules.
- All outputs can be synchronised in pulsing modes.
- Up to 16 cards can be connected giving a total of 64 additional outputs.
- Each output may be individually programmed.

Specification

Applicable Standards	BS EN54-2; 1998, BS EN54-4: 1998
Operating Temperature	-5°C to 40°C
Relative Humidity	95% non-condensing (maximum)
PCB	110mm x 86mm x 18mm, 75 grams
Enclosure	Steel, IP30, RAL9002, 320mm high x 345mm wide x 88mm deep, 5 kg (excluding batteries)
Knockouts 20mm	7 x Top, 2 x Bottom
PCB Supply	24VDC nominal (21-28VDC), 17mA (quiescent) 64m (all outputs on) + sounder load
AC Supply	230V AC, 50Hz (+10%, -15%) FUSE T3. 15H250
Standby Battery	2 x 12V, 7AH Sealed lead-Acid Type (Yuasa recommended)
LED Indications (PCB)	Sounder Circuit ON, Communications TX & RX and Heartbeat
LED Indications (Box)	Power and General PSU Fault - Separate indications of specific PSU fault conditions are available on the PSU.
Outputs (x4)	24VDC 1A

Order Codes

Mxp-034: 4-Way Programmable Sounder Card

Mxp-034-BXP: 4-Way Programmable Sounder Card Boxed with 4A PSU

Analogue Addressable Fire Peripheral

The programmable 4-Way Relay Card is an optional peripheral unit that provides four individually programmable relay output circuits.

Up to 16 Cards can be connected to a multi-loop control panel providing a maximum of up to 64 additional local relay outputs.

Each output is fully programmable using the powerful 'Dynamix' cause and effects rules, and all outputs are synchronised.

The unit is available as either a printed circuit card only, or as a boxed version with integral 1A power supply.

Key Features

4 Way Programmable Relay Card

16 Cards Max per Control panel totalling

64, 230V, 5 Amp rated outputs

Easily Configured via PC-NET-003

3 Year Warranty as standard

Applications / Limitations

Plant Control and Signalling outputs. Each output can be assigned to an individual output group and is fully programmable for any output function allowed within the Mx-4000/5000 configuration program.

Fitting of the Mxp-035 in a panel precludes fitting of other panel option cards. Requires installation of the Mxp-031 Peripheral Bus Interface Card in the panel.



Features

- Each output is 230V, 5A rated
- Each output is individually programmable with any of the available 'Dynamix' Cause and Effect rules
- Up to 16 cards can be connected providing a total of 64 additional outputs
- Each output may be individually programmed
- An Input is provided to monitor the fault output from a power

Specification

Applicable Standards	BS EN54-2:1998, BS EN54-4:1998
PCB	100mm x 86mm x16mm: 24VDC nominal (18-28VDC), 22mA (quiescent) 75mA (outputs on)
Knockouts 20mm	7 x Top, 2 x Bottom
AC Supply T3.15H250	230V AC, 50Hz (+10%, -15%) FUSE
Standby Battery	2x12V, 7Ah Sealed Lead-Acid type (Yuasa recommended)
LED Indications (Box)	Power and General PSU Fault - Separate indications of specific PSU fault conditions are available on the PSU.
Enclosure	Steel, IP30, RAL9002, 320mm high x 345mm wide x 88 mm deep, 3Kg (excluding batteries)
LED Indications (PCB)	Relay circuit ON, Communications TX & RX and Heartbeat
Outputs (x4)	230V AC, 5A resistive / 230V AC, HP / 30VDC, 5A

Order Codes

Mxp-035: 4-Way Programmable Relay Card

Mxp-035-BXP: 4-Way Programmable Relay Card Boxed with 1A PSU

Analogue Addressable Fire Peripheral

The Programmable 8-Zone Monitor Card is an optional peripheral unit, that provides eight individually programmable zone monitor circuits compliant with BSEN54-18: 1998 Clause 7.8.

Up to 16 Cards can be connected to a multi-loop panel providing a maximum of up to 128 additional zone monitor circuits.

Each zone is fully programmable using the powerful 'Dynamix' Cause and Effect rules.

The unit is available as either a printed circuit card only, or as a boxed unit

Key Features

8 Zone Circuits

1 Relay Output for Reset

16 cards max per Control panel totalling

128 Zone Monitor Circuits per panel

Easily configured via PC-NET-003

3 Year Warranty as standard

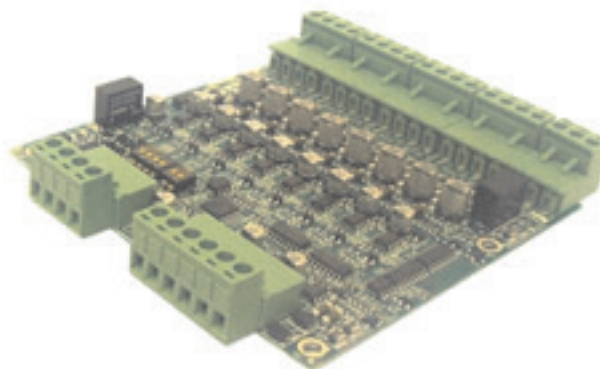
Applications / Limitations

EN54-18 compliant zone monitor circuit.

Compatibility

Can be used with Mx-4200, Mx-4400 , Mx-4800, and all Mx5000 series control panels.

Requires installation of the Mxp-031 Peripheral Bus Interface Card in the panel.



Features

- Each zone is monitored for open and short circuit.
- Each zone is individually programmable with the available 'Dynamix' Cause and Effect rules.
- Up to 16 cards can be connected giving a total of 128 additional zone monitors.

Specification

Applicable Standards	BS EN54-18 Compatible
Operating Temperature	-5°C to 40°C
Relative Humidity	95% non-condensing (maximum)
PCB(HxWxD)	100mm x 105mm x 18mm, 75 grams
Switch/Zone Inputs	8 Monitored Inputs (680R EOL, 470 active)
PCB Supply	24VDC nominal (21-28VDC), 100mA quiescent) 500mA (all zones short circuit)
Relay Output (x1)	24VDC, 1A
Fault Input	Volt-Free, Clean Contact

Order Codes

Mxp-036: 8-Way Programmable Zone Monitor Card

Mxp-036F: 8-Way Programmable Zone Monitor Card Fitted

Analogue Addressable Fire Peripheral

The Programmable 10 Way Input Card is an optional peripheral unit that provides ten individually programmable monitored switch inputs.

Up to 16 Cards can be connected to a multi-loop control panel providing a maximum of up to 160 additional monitored inputs.

Each input is fully programmable using the powerful 'Dynamix' Cause and Effect rules.

The unit is available as either a printed circuit card only, or as a boxed unit

Key Features

10 Programmable Inputs (Monitored)

24v DC Supply

16 cards max per Control Panel totalling

160 monitored inputs per panel

Easily configured via PC-NET-003

3 Year Warranty as standard

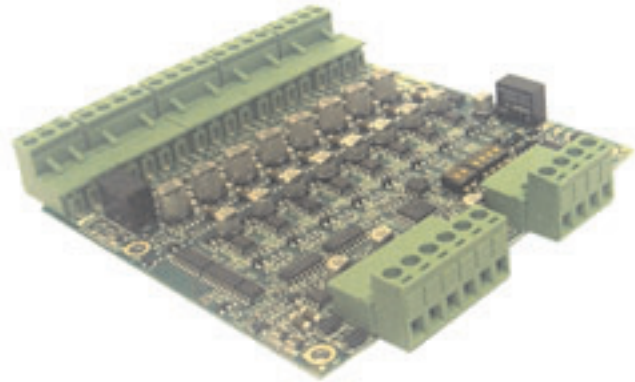
Applications / Limitations

EN54-18 compliant switch monitor circuit.

Compatibility

Can be used with Mx-4200, Mx-4400 , Mx-4800, and all Mx5000 series control panels.

Requires installation of the Mxp-031 Peripheral Bus Interface Card in the panel.



Programming Features

- Each input is monitored for open and short circuit.
- Each input is individually programmable for Fire, Fault, Alarm etc.
- Up to 16 cards can be connected providing a total of 160 additional switch inputs.

Specification

Applicable Standards	BS EN54-18 Compatible
Operating Temperature	-5°C to 40°C
Relative Humidity	95% non-condensing (maximum)
PCB(HxWxD)	100mm x 105mm x 18mm, 75 grams
Switch Inputs	10 normally open inputs. (Can be inverted via software for normally closed operation on an individual basis).
PCB Supply	24VDC nominal (21-28VDC), 30mA (quiescent) 100mA (all zones short circuit)
On Board Indication	RS485 (Transmit/Receive)& Heartbeat

Order Codes

Mxp-037: 10-Way Programmable Relay Card

Mxp-037F: 10-Way Programmable Relay Card Fitted

Analogue Addressable Fire Peripheral

The ipGateway connects to an existing Ad-Net fire panel network, and provides a gateway to the network from any remote location via the internet.

By gathering real time information from the fire network it gives a visual indication of the state of the fire panel network through a standard web browser.

The state of each device on the network is displayed in a clear and concise manner.

Interaction with the fire network is also available, providing the functionality to enable/disable zones, enable/disable devices, reset, mute, and silence/resound sounders on the network.

The ipGateway can also be configured to react to events on the network by sending emails to configured recipients.

Key Features

Remote Access to Ad-Net/Ad-Net+ fire network.

Password protected.

Event notification via email.

Configuration over the internet.

No propriety software required.

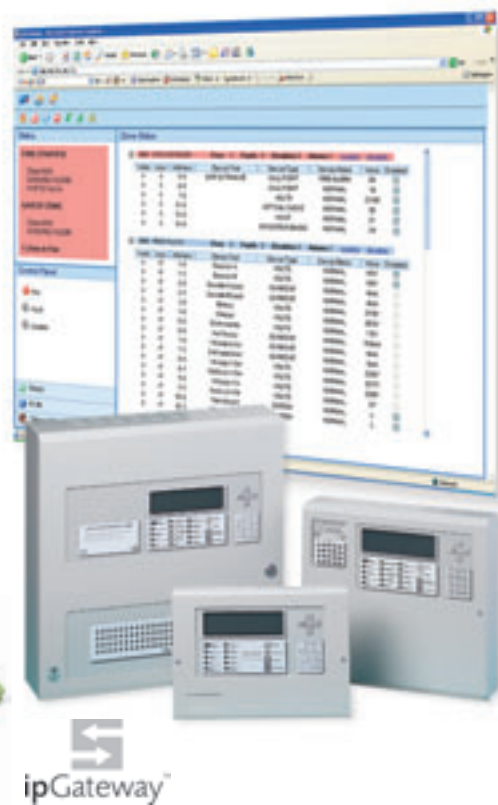
Applications / Limitations

Provides remote access to devices on an Ad-Net/Ad-Net+ Network.

Configurable event email notification.

Features

- Remote Access to Ad-Net fire network using a standard Web Browser
- Password Protected
- Multiple User Permissions
- Event Notification via Email
- Configurable over the Internet



Specification

Supply Voltage input	18-28V DC
Supply Current	48mA/(FT: 86mA) at 24V DC
Enclosure	IP30: Dimensions 218mm H x 300mm W x 45mm D
Weight	2 Kg
Knockouts	4 Top, 4 Bottom, 4 Bottom Rear
Temperature range	-°C to 50°C / 95% Humidity (non condensing)
Serial Interface	Isolated RS 232 Interface
Fault Input	Monitor Input for Power Supply Fault Output
Indications	On-board LED indicators for Heartbeat, Network transmit / receive, RS232 transmit / receive, Lan Activity, Lan Connectivity, Lan Run
Ethernet Interface	10Base-T, RJ45

Order Codes

Mxp-054: ipGateway interface boxed

Mxp-054/FT: ipGateway interface boxed/fault tolerant

Compatibility

The ipGateway can be connected to any Ad-Net/Ad-Net+ network system and Local Area Network. This interface can be configured using PC-NET-003 configuration software v5 onwards, and Panel software version 23.02 onwards.

Browsers – Internet Explorer 6,7 and Firefox 2

Analogue Addressable Fire Peripheral

The Mxp-052 is a peripheral relay card providing ten 30V DC, 1A programmable relay outputs.

The Mxp-052 connects directly to any of the DIL connectors of either the Network Mimic Mxp-020-100 LED Output Card or the General I/Ocontroller Mxp-045 LED Output Card units via the supplied ribbon cable.

Each output follows the cause and effect programming of the mimic unit output.

This can be either a simple zone output or can be an individually programmed output group rule utilising the full range of features of the Mx-4000/5000 systems Dynamix zoning facilities.

Key Features

Up to 200 individual relay outputs fully programmable per mimic (excluding Leds).

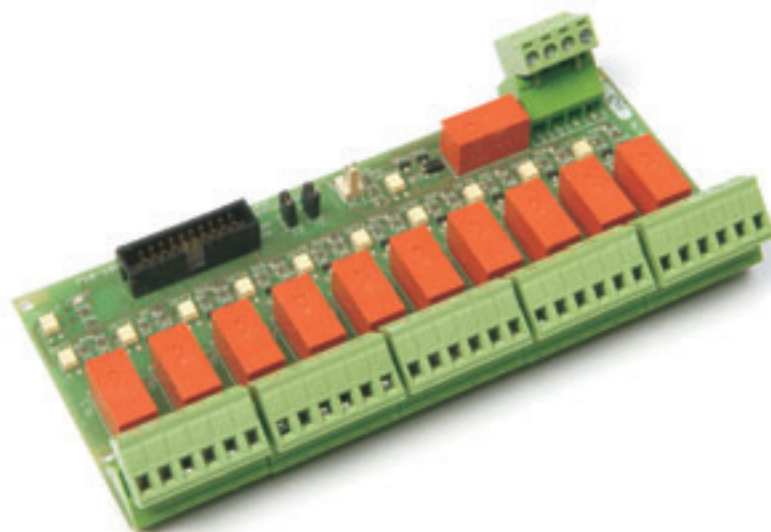
Ten individually programmable relay outputs per unit.

Applications

These units can be used where many relay outputs are required for simple on/off signalling or control.

Compatibility

Can be used with any of the Mxp-020 Mimic Units or the Mxp-045 I/O units.



Features

- Ten Change-over contact outputs rated at 30V DC, 1A
- DIN Rail or Screw Fixing Options
- Separate isolate Input (Disables all Outputs)
- Separate Isolate Indication Output
- Fast Instant Response

Specification

Enclosure Dimensions (H x W x D)	90 x 160 x 15mm (PCB) 90 x 160 x 40mm (Din Rail)
DIN RAIL	Module mounts onto 32mm G Section and 35mm Top Hat (En50022) DIN Rail
PCB Dimensions	70mm x 142mm (35mm high)
Operating Temperature	-5°C to 40°C
Relay Contacts	10 Volt Free Change Over Contacts
Contact Rating	30V DC, 1A Resistive
Power Supply	24v DC nominal (21-28V DC)
Current (@24V DC)	Quiescent: 0mA, Relay On: 13mA (per Relay)
LED Indication	Relay Circuit ON (per relay)
Disable Control Inputs	Volt-free Input and mimic output drive option
Disable Indication	Open Collector Output

Order Codes

Mxp-052: 10 Way Relay Card

Mxp-046-DIN: 10 Way Relay Card in Din Rail Carrier

Analogue Addressable Fire Peripheral

The Mxp-045 provides a convenient and cost effective solution where multiple inputs and outputs are required.

It is ideally suited for building control functions such as damper / fan control or sprinkler control where On/Off/Auto control and healthy/fault or open/closed status indication is required.

The inputs can be configured as toggle (switch) or momentary (push-button) types. The outputs are fully programmable using the powerful 'Dynamix' cause and effects rules for output groups 1-50.

In addition to the 50 I/O circuits, dedicated inputs and outputs are also provided. Status outputs include General Fire, Fault, Disablement and Test. A buzzer is also provided for audible annunciation of status changes. Inputs include Buzzer Mute, Momentary input enable / reset and LED Test.

Key Features

50 Inputs & Outputs available

Supplementary Graphical Indication

Zonal or Fully Programmable LED Option

3 Year Warranty as standard

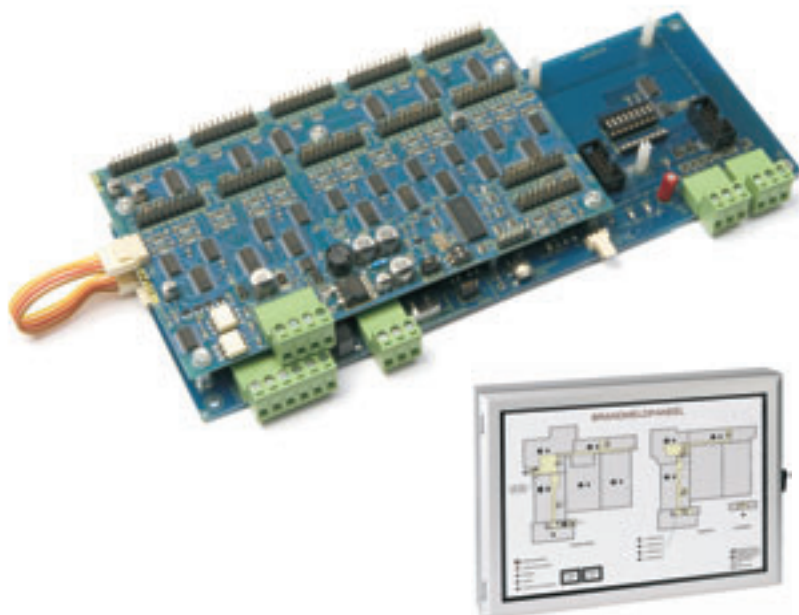
Fully Networkable

Full Colour Mimic Option

Applications / Limitations

The 50-Way Network I/O controller is a stand-alone unit with / without its own EN54-4 power supply and charger. Each input and output on the card is fully programmable using a PC.

An additional 100 LED outputs can be provided using the 100-way driver card (Mxs-027) – Output Groups 101-200.



Features

- Over 50 Programmable volt free switch/push button type inputs, easily configured via our PC-NET-003 configuration software.
- Over 50 Programmable LED driver outputs for energising and providing LED indication.
- Large Full Colour graphical indication for site maps, building layouts or simply zonal indication.
- Remote Location by simply adding the type of mimic interface onto the Ad-net/Ad-neT+ Network.

Specification

AC Supply (Boxed Versions)	220-240V AC (+10-15%) 50-60Hz 1.6A. Support for up to 2 x 12V 7Ah batteries
DC Supply (PCB) @ 24V DC	18-28V DC 63mA (/FT 101mA) + 0.8mA per LED energised + 1.3mA per switch energised
Output Drive Circuit (56)	3.3V 4mA current limited (for direct LED connection)
Input Circuit (58)	Volt-free, dry-contact inputs

Order Codes

Mxp-045 (/FT): 50-Way Network I/O Controller (Unboxed).

Mxp-045-BX2 (/FT): 50-Way Network I/O Controller (type 2) c/w PSU and up to 56 LED indicators and up to 58 Switches fitted (Artwork required).

(/FT): Denotes Fault tolerant version

Compatibility

The Mxp-045 is compatible with all Mx-4000 control panels from software revision 019-04 using the Ad-Net peer-to-peer network. The Mxp-045 is programmable using the Pc-NeT-03 Mx Configuration tool from revision 4.19 onwards.

Overview

“Advanced Electronics' power supply units are fully approved to EN54 part 4”



Advanced Electronics' family of high-efficiency switched-mode power supply units are fully approved to EN54 part 4 and provide a range of power outputs to suit most fire system applications.

They are available in 1.5A, 3A and 5A versions, either mounted in attractive enclosures with power/fault indication or as standalone caged units for other applications.

Advanced Power Supplies

The Advanced 1.5A, 3.0A and 5.0A Power Supply Units can be used for any fire alarm system which specifies EN54-4 Power Supply Equipment.

Suited for almost any application, the power supply unit/battery charger has been developed using the latest surface mount technology to provide a high efficiency switch mode power supply.

The power supply units are available in fully enclosed construction providing power and fault indication or alternatively in caged versions for mounting into existing enclosures of various sizes to suit different battery capacities.

Key Features

High efficiency switched mode power supplies

Compact 1.5A, 3.0A and 5.0A versions

Approved EN54-4

Boxed or unboxed

Power and Fault Indication

3 Year Warranty as Standard

Applications / Limitations

For any fire alarm system which specifies EN54-4 power supplies (e.g. BS5839 code of practice).

Compatibility

These power supply units can be used in any fire alarm installation requiring a 24Volt supply for operation.



BS EN 54-4: 1998 +A2 PSE
KM 6965



0086 -CPD -536905

Features

- A range of power supply equipment with power output options to suit most applications.
- Universal AC Input on the 3.0A and 5.0A versions.
- PSE and charger or PSE only options on the 3.0A and 5.0A versions.
- A Serial Link option is provided on the 3.0A and 5.0A versions. Allows reporting of PSE status and voltages / current measurements to compatible control panel / modules.

Technical Features

Expandable to 2 loops, 500mA current per loop. Loop card 1 is integral to main PCB

- Wide range of loop devices (detection, interfaces, sounders, beacons etc.)
- Extensive detector mode change options via day/night settings or cause and effect
- User friendly unambiguous controls, menus and display
- 4 x 20 character LCD display - 40 character user device text available
- 32 zone LEDs for fire and fault indication as well as detailed on LCD
- Networkable up to 15 panels
- Up to 14 Local repeaters per panel, either 24VDC or mains powered versions
- New Fusion PC software cause and effect editor*
- Powerful cause and effect programming - locally and over network
- Space for up to 12Ah 12V SLA battery set
- Sturdy, metal, lockable enclosure with controls access key switch
- Input/Output expandability via use of 8 way alarm and relay boards



Overview

The Evolution analogue addressable panel range has been designed to work with Eurotech protocol devices. They are powerful, user friendly and designed to a high standard in compliance with EN54, Parts 2 & 4. These panels have a considerable processing ability enabling highly definable cause and effect programming either local to the panel or network wide and also between our Evolution panel range. They are ideally suited to installations which require complex sounder and control/shutdown functions and signalling or for use as a master panel monitoring smaller panels on a larger site. The panel is programmed to operate to specific site requirements by means of a cause and effect matrix which can be programmed at a basic level at the panel or with our Fusion software editor*

* We normally insist that training is received from us before issue of programming software. Please contact your usual supplier about obtaining training and software.

Specifications

Function	Evolution 1 loop	Evolution 2 loop	Comments
Maximum field equipment load:	230V ac	230V ac	+10% / -15% Range
Battery Fuse	3.15A	3.15A	20mm Glass fuse
Operating Temperature Range	-5° to 40° C	-5° to 40° C	
Operating Humidity Range	5% to 95%	5% to 95%	
Max. Batt. Charger Output	> 2.3A	> 2.3A	Quiescent
Max. PSU Output	2.5A 18-29V	2.5A 18-29V	Considering lowest o/p run-ning on batteries
Conventional Sounder Circuits	2 x 24V nominal	2 x 24V nominal	1A 20mm Fuses
Aux DC Output Max. (Fused)	24V 500mA	24V 500mA	Nominal
Remote Inputs	Yes	Yes	Silence, Evac, Reset, C. Change
Input / Output Expansion	Yes	Yes	8 Way alarm/relay boards
Mains Fail Batt. Current (no load)	145mA	170mA	
Battery Type (Set required for 24V)	2x 7Ah - 12Ah SLA	2x 7Ah - 12Ah SLA	Max. 12Ah set fits in panel
Mains Fail Alarm Batt. Current (1 zone in alarm)	260mA	285mA	
Printer Option	Yes	Yes	Printer uses battery space
Network Option	Yes	Yes	Up to 15 Nodes
Repeater Panel Option	Yes	Yes	Up to 14 Repeaters
Panel Dimensions (mm W x H x D)	325 x 370 x 135	325 x 370 x 135	Depth is full including locks & mounting points
Native Panel Weight (no batteries or printer)	6.1 Kg	6.1 Kg	
Panel Colour	Light Grey RAL 7035	Light Grey RAL 7035	Textured paint finish

Specifications may be altered at any time

Controls & Panel Connections

User Controls	Controls Access Keyswitch Silence/Resound Alarms Reset Evacuate Silence Buzzer Test Alarms Test Display Scroll Messages Override Delay Access Menu Menu Up/Down Enter, Escape	Panel Terminals	Loops 1 & 2 Out - positive & negative Loops 1 & 2 In - positive & negative Alarms 1 & 2 - positive & negative Aux Fire relays 1 & 2 - n/o, n/c & pole Aux Fault relay - n/o, n/c & pole (failsafe)
Panel Indications	Power Supply ON Fire Alert System Fault General Fault Alarm Fault/Disablement Delay On Maintenance General Disablement Buzzer Silenced Test More Messages Zone Fire & Fault/Isolation	Other Inputs & Controls	Aux 28VDC & 0V Remote Inputs: Evacuate Silence Reset Class Change Network Terminals A (-),B (+) & SCN (Screen) Repeater Terminals A (-),B (+) & SCN (Screen) IO Board Terminals A (-),B (+) & SCN (Screen) Cherry G80 (Serial Keyboard) DIN Socket 9 Pin male D type RS232 computer port SSD memory write protect switch Panel buzzer disable link Earth fault monitoring disable link Processor Reset button (soft reset) System Fault clear button Power connection from PSU Connection sockets for 2nd loop card, net-work module & IO / repeater driver module

Part No:

2606001	Evolution Loop Panel
2500635	Evolution A1636 Voyage Loop Card

Technical Features

Expandable to 4 loops, 500mA current per loop.

- Wide range of loop devices (detection, interfaces, sounders, beacons etc.)
- Extensive detector mode change options via day/night settings or cause and effect
- User friendly unambiguous controls, menus and display
- 4 x 20 character LCD display - 40 character user device text available
- 32 zone LEDs for fire and fault indication as well as detailed on LCD
- Networkable up to 15 panels
- Up to 14 Local repeaters per panel, either 24VDC or mains powered versions
- New Fusion PC software cause and effect editor*
- Powerful cause and effect programming - locally and over network
- Space for up to 12Ah 12V SLA battery set
- Sturdy, metal, lockable enclosure with controls access key switch
- Input/Output expandability via use of 8 way alarm and relay boards



Overview

The Evolution analogue addressable panel range has been designed to work with Eurotech protocol devices. They are powerful, user friendly and designed to a high standard with approval to EN54, Parts 2 & 4. These panels have a considerable processing ability enabling highly definable cause and effect programming either local to the panel or network wide and also between our 1 and 2 loop Evolution panel range. They are ideally suited to installations which require complex sounder and control/shutdown functions and signalling or for use as a master panel monitoring smaller panels on a larger site. The panel is programmed to operate to specific site requirements by means of a cause and effect matrix which can be programmed at a basic level at the panel or with our Fusion software editor *

* We normally insist that training is received from us before issue of programming software. Please contact your usual supplier about obtaining training and software.

Specifications

For 2 - 4 loop panels figures are same as 1 loop unless shown in table

Function	Discovery 1 loop	2 Lp.	3 Lp.	4 Lp.	Comments
Mains Supply Voltage	230V ac				+10% / -15% Range
Battery Fuse	3.15A				20mm Glass fuse
Operating Temperature Range	-5° to 40° C				
Operating Humidity Range	5% to 95%				
Max. Batt. Charger Output	>4.8A				Quiescent
Max. PSU Output	5A 18-29V (3A 5V output)				Considering lowest o/p run-ning on batteries
Conventional Sounder Circuits	2 x 24V nominal				1A 20mm Fuses
Aux DC Output Max. (Fused)	24V 500mA				Nominal
Remote Inputs	Yes				Silence, Evac, Reset, C. Change
Input / Output Expansion	Yes				8 Way alarm/relay boards
Mains Fail Batt. Current (no load)	145mA	170mA	195mA	220mA	
Battery Type (Set required for 24V)	2x 7Ah - 12Ah SLA				Max. 12Ah set fits in panel
Mains Fail Alarm Batt. Current (1 zone in alarm)	260mA	285mA	310mA	335mA	
Printer Option	Yes				Printer uses battery space
Network Option	Yes				Up to 15 Nodes
Repeater Panel Option	Yes				Up to 14 Repeaters
Panel Dimensions (mm W x H x D)	410 x 480 x 160				Depth is full including locks & mounting points
Native Panel Weight (no batteries or printer)	12.5 Kg				
Panel Colour	Light Grey RAL 7035				Textured paint finish

Controls & Panel Connections

User Controls

- Controls Access Keyswitch
- Silence/Resound Alarms
- Reset
- Evacuate
- Silence Buzzer
- Test Alarms
- Test Display
- Scroll Messages
- Override Delay
- Access Menu
- Menu Up/Down
- Enter, Escape

Panel Indications

- Power Supply ON
- Fire
- Alert
- System Fault
- General Fault
- Alarm Fault/Disablement
- Delay On
- Maintenance
- General Disablement
- Buzzer Silenced
- Test
- More Messages
- Zone Fire & Fault/Isolated

Panel Terminals

- Loops 1 - 4 Out - positive & negative
- Loops 1 - 4 In - positive & negative
- Alarms 1 & 2 - positive & negative
- Aux Fire relays 1 & 2 - n/o, n/c & pole
- Aux Fault relay - n/o, n/c & pole (failsafe)

Aux 28VDC & 0V

Remote Inputs: Evacuate

- Silence
- Reset
- Class Change
- Fault

Network Terminals A (-),B (+) & SCN (Screen)

Repeater Terminals A (-),B (+) & SCN (Screen)

IO Board Terminals A (-),B (+) & SCN (Screen)

Other Inputs & Controls

- Cherry G80 (Serial Keyboard) DIN Socket
- 9 Pin male D type RS232 computer port
- SSD memory write protect switch
- Panel buzzer disable link
- Earth fault monitoring disable link
- Processor Reset button (soft reset)
- System Fault clear button
- Power connection from PSU
- Connection sockets for 4 loop cards, network module & IO / repeater driver module

Part No:

2606003	Evolution 1 Loop Panel
2500132	Evolution Loop Card A1585(spare)



Eurotech Fire Systems Ltd

19/20 Stratfield Park, Elettra Avenue,Waterlooville, Hampshire PO7 7XN

www.eurotechfire.com

T +44 (0) 203 141 0999 | +44 (0) 0239 225 2554 | E info@eurotechfire.com

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