MxPro 4

Ad-NeT & Ad-NeT+ Network Cards - obsolete

The Ad-NeT network system allows all MxPro 4 series control panels, remote terminals and network peripherals to be connected together using standard fire resistant two-core cable. It provides both the benefits of distributed intelligence and reduced installation costs whilst catering for the smallest two-panel network through to the largest 200-panel wide area networked system.

The network operates as a true peer-to peer system allowing information from any input or output device to be passed over the network and displayed on any MxPro 4 control panel or remote terminal as required.

Simply adding and connecting a network card allows any MxPro 4 control panel or remote terminal to be networked. All other nodes on the Ad-NeT system will be instantly aware of a panel as soon as it is given a valid network node address, allowing additional panels to be added at any time. All panels incorporate a network analyser providing valuable diagnostic and status information and also have the facility to prevent the transmission of fires or faults during commissioning.

For more complex systems, the Windows based PC-NeT Mx configuration software allows sector based programming for Mute, Silence, Resound and Reset control keys as well as investigation delays, group disablement and test instructions. All panels within the same sector will share common controls and each panel or remote terminal can also be programmed to show specific network information on a zonal basis. For cause and effect, any input device can be programmed to operate any output device on any panel.

Features

- Large Ad-NeT+ 200 Panel Network
- Up to 1.5Km between Control Panels
- Windows based PC setup
- Network Systems share up to 1000 zones
- Network Analysis from Contol Panel

Specification

Network Connections	IN: A/B SCN(Screen) OUT: A/B SCN (Screen)
On-board Indication	2 Red LED's. LED 1 illuminates when data is transmitted LED 2 illuminates when data is received
Supply Current	Mxp-003 Standard Network card: 20mA Mxp-009 Fault tolerant Network Card: 61mA (All power taken directly form the panel motherboard)
Temperature range and Humidity	-5°C to 40C 95% non-condensing (maximum)
Dimensions (H x W x D)	85mm x 65mm x 20mm (Mounting pillars are provided on the panel chassis to mount this card)
Recommended Cable	2 Core twisted-pair plus screen

Order Codes and Options

Mxp-003:	Standard Network Card
Mxp-009:	Fault Tolerant Network Card
Mxp-003F:	Standard Network Card fitted to an MxPro 4 control panel
Mxp-009F:	Fault Tolerant Network Card fitted to an MxPro 4 control panel

Limitations

Standard Network

The maximum total cable length is 1.5km. The maximum number of network nodes is 32 (50 with signal buffer)

Fault Tolerant Network

The maximum cable length is 1.5km between each node and the maximum total loop length is 20km. Each network card has in-built diagnostics and is fully monitored for both short and open circuit faults between nodes. The network is capable of withstanding a single fault between nodes without loss of communications to any single panel. The maximum number of network nodes is 200.

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MxPro 4

50 Way Network I/O - obsolete

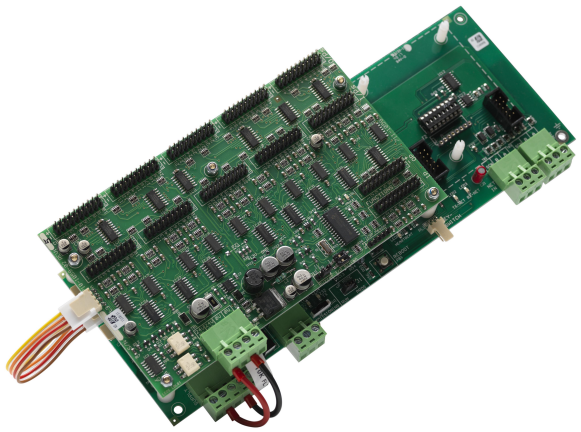
The 50 Way Network I/O provides a convenient and cost effective solution where multiple inputs and outputs are required. It is ideally suited for building control functions such as damper/fan control or sprinkler control where on/off/auto control and healthy/fault or open/closed status indication is required.

The inputs can be configured as toggle (switch) or momentary (push-button) types. The outputs are fully programmable using the powerful dynamic 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.

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 – 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.
- Supplementary graphical indication
- Zonal or fully programmable LED option
- Fully networkable
- 3-year warranty as standard

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 and Options

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 50 Way Network I/O is compatible with all MxPro 4 control panels from software revision 019-04 using the Ad-Net peer-to-peer network. The 50 Way Network I/O is programmable using the Pc-NeT-03 Mx configuration tool from revision 4.19 onwards.

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MxPro 4

Programmable 4-Way Relay Card - obsolete

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 dynamic 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.

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 MxPro 4 configuration program.

Fitting of the Programmable 4-Way Relay Card in a panel precludes fitting of other panel option cards. Requires installation of the Peripheral Bus Interface Card in the panel when using the MxPro 4 series.

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 supply.
- 4-way programmable relay card
- Easily configured via PC-NET-003
- 3 year warranty as standard

Specification

Applicable Standards	BS EN54-2:1998, BS EN54-4:1998
PCB Dimensions H x W x D mm	24VDC nominal (18- 28VDC), 22mA (quiescent) 75mA (outputs on)
Dimensions H x W x D mm	100 x 86 x16
Knockouts 20mm	7 x top, 2 x bottom
AC Supply	230V AC, 50Hz (+10%, -15%) FUSE T3.15H250
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, 3Kg (excluding batteries)
Enclosure Dimensions H x W x D mm	320 x 345 x 88
LED Indications (PCB)	Relay circuit on, communications TX & RX and heartbeat
Outputs (x4)	230V AC, 5A resistive / 230V AC, ½ HP / 30VDC, 5A

Order Codes and Options

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

Compatibility

The Programmable 4-Way Relay Card is compatible with all MxPro 4 control panels.

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MxPro 4

4-Way Programmable Sounder Card - obsolete

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 dynamic cause-and-effect rules, and all outputs are synchronised.

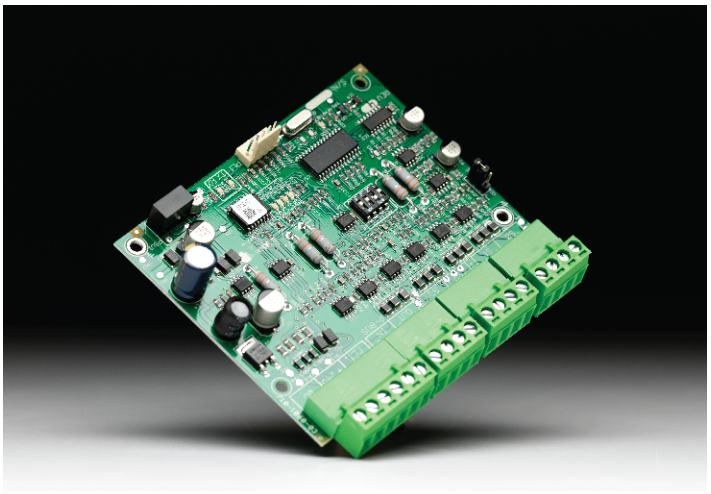
The unit is available as either a printed circuit card only or as a boxed version with integral 4A power supply.

Applications / Limitations

EN54-2 compliant sounder outputs.

Can be used with MxPro 4 2, 4 & 8 loop control panels programmed with version 020-02 software, or later, and fitted with base card hardware revision levels 10 (712-1022 MxPro 4 4 loop) and 09 (712-1022-002MxPro 4 2 loop) or later.

Requires installation of the Peripheral Bus Interface Adaptor card in the panel when using the MxPro 4 series.



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
- Easily configured via PC-NET-003
- 3-year warranty as standard

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 Dimensions H x W x D mm	PCB 110 x 86 x 18
PCB Weight	75 grams
Enclosure	Steel, IP30, RAL9002
Enclosure Dimensions H x W x D mm	320 x 345 x 88
Weight	5 kg (excluding batteries)
Knockouts 20mm	7 x top, 2 x bottom
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 and Options

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

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MxPro 4

General Routing Interface Card - obsolete

The General Routing Interface Card is an optional module to provide fire routing outputs complaint with BS EN54-2: 1998 Clauses 7.9 and 8.9 and BS5839- 1:2002

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.

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.
- Simple to install and configure
- Wide range compatibility

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 impendence, 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 and Options

Mxp-032:	General Routing Interface
Mxp-032F:	General Routing Interface Fitted

Compatibility

Can be used with all MxPro 4 series multi-loop control panels.

Limitations

Cannot be fitted to the Mx-4100 / L / LG variant

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MxPro 4

Mimic Relay Card - obsolete

The Peripheral Relay Card provides 10 30V DC, 1A programmable relay outputs.

The Peripheral Relay Card connects directly to any of the DIL connectors of either the Network Mimic 100 LED Output Card or the Multi way Input/Output Card unit 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 MxPro 4 dynamic zoning facilities.

Applications

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

Features

- Ten change-over contacts outputs at 30Vdc, 1A
- DIN rail or screw fixing options
- Separate isolate input (disables all outputs)
- Separate isolate indication output
- Fast response

Specification

Enclosure Dimensions H x W x D mm	PCB: 90 x 160 x 15
Enclosure Dimensions H x W x D mm	DIN rail: 90 x 160 x 40
DIN rail	Module mounts onto 32mm G Section and 35mm top hat (En50022) DIN rail
PCB Dimensions H x W x D mm	35 x 142 x 70
Operating Temperature	-5°C to 40°C
Relay Contacts	10 volt free change over contacts
Contact Rating	30V DC, 1A resistive
Power Supply (Card)	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 and Options

Mxp-052:	Mimic driven 10 way relay card
Mxp-052-DIN:	Mimic driven 10 way relay card in DIN rail carrier

Compatibility

Can be used with any of the network mimic units or the multi-way Input/Output card

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Axis EN

Mimic Driven Relay Card - obsolete

The Mimic Driven Relay Card provides 10 30V DC, 1A programmable relay outputs.

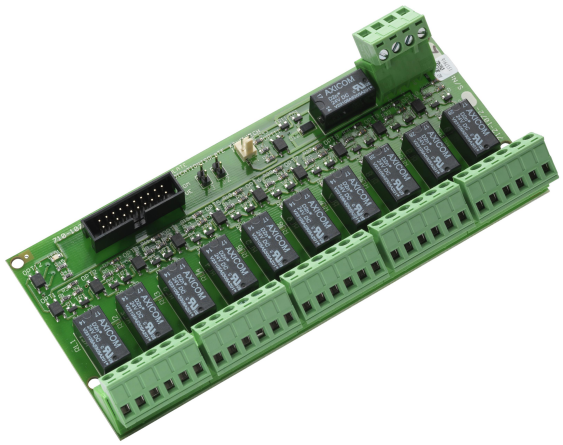
The Mimic Driven Relay Card connects directly to any of the DIL connectors of either the Network Mimic 100 LED Output Card or the 50-way Input/Output Card unit via the supplied ribbon cable.

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 theMxPro 4 dynamic zoning facilities.

Applications

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



Features

- Ten change-over contact outputs rated at 30V DC, 1A.
- Up to 200 individual relay outputs fully programmable per mimic (excluding LEDs)
- Ten individually programmable relay outputs per unit
- DIN rail or screw fixing options
- Separate isolate input (disables all outputs)
- Separate isolate indication output
- Fast response

Specification

Enclosure Dimensions H x W x D mm	PCB: 90 x 160 x 15
Enclosure Dimensions H x W x D mm	DIN rail: 90 x 160 x 40
DIN rail	Module mounts onto 32mm G Section and 35mm top hat (En50022) DIN rail
PCB Dimensions H x W x D mm	35 x 142 x 70
Operating Temperature	-5°C to 40°C
Relay Contacts	10 volt free change over contacts
Contact Rating	30V DC, 1A resistive
Power Supply (Card)	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 and Options

Mxp-052:	10 Way Relay Card
Mxp-046-DIN:	10 Way Relay Card in DIN Rail Carrier

Compatibility

Can be used with any of the network mimic units.

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MxPro 4

Latch/Stretch Input Card - obsolete

The Latch/Stretch Input Card 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.

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 onboard 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.

Features

- Two modes of operation - Latched or Stretched
- Monitored or Non-monitored connectivity
- Loop powered
- Configurable for Advanced, Apollo, Hochiki and Nittan input circuits
- The module can be loop powered
- 3-year warranty as standard

Specification

Mxp-053:	Dual Input Latch/Stretch Module

Compatibility

Any volt-free switched input circuit. End-of-line monitoring optional when used in conjunction with Advanced Electronics, Apollo, Hochiki or Nittan control equipment.

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MxPro 4

Key Switch Control - obsolete

The MxPro 4 control panel range supports direct installation of 1 key switch. If additional switches are required, then an additional key switch input card must be fitted (Mxp-015(F)*)

Applications

The MxPro 4 1 loop permits 1 key-switch to be fitted, but the MxPro 4 2 & 4 loop control panels allow a maximum of 8.

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
- Simple to install and configure

Order Codes and Options

Mxp-011(F)*:	Access Enable Key Switch
(F)*:	Add - Fitted

Compatibility

Can be used with all MxPro 4 series control panels.

Limitations

If an on-board printer is fitted to the MxPro 4 2 & 4 loop control panels then the maximum number of switches fitted is limited to 4. If the MxPro 4 3 position switch is fitted, then two programmable inputs must be available per switch.

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MxPro 4

Advanced Mimic Controller - obsolete

The Advanced Mimic Controller provides a convenient and cost effective solution to any system that 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 a MxPro 4 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.

Applications / Limitations

The 100 Way Network Mimic Controller is a stand-alone unit with/without its own EN54-4 power supply and charger. Each output on the card is fully programmable using a PC programming suite.

Features

- 100 programmable LED driver outputs for energising and providing LED indication
- Expandable to 200 by installation of an expansion card
- Supports the connectivity of 10 Way Relay Output Card
- Large full-colour graphical indication for site maps, building layouts or simply zonal indication.
- Can be located remotely by simply adding the type of mimic interface onto the Ad-Net/Ad-NeT+ Network
- Supplementary graphical indication
- Zonal or fully programmable LED option
- Fully networkable
- Full-colour mimic option
- 3-year warranty as standard

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
Output Drive Circuit	3.3V 4mA current limited (for direct LED connection)

Order Codes and Options

Mxp-020 (/FT):	100 Way Network Output Controller (Unboxed)
Mxp-020-Bx2 (/FT):	100 Way Network Output Controller (type 2) c/w PSU
Mxp-027(F):	100 Way Expansion Card (Fitted)
Mxp-052(F):	10 Way Relay Card (Fitted)
Mxp-026(F):	High Intensity LED (Fitted)
/FT:	Denotes fault tolerant version

Compatibility

The Advanced Mimic Controller is compatible with all MxPro 4 control panels from software revision 019-04 using the Ad-Net peer-to-peer or standard network platform. The Advanced Mimic Controller is programmable using the Pc-NeT-03 Mx configuration tool revision 4.19 onwards.

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MxPro 4

20 & 100 Zonal LED Cards - obsolete

The Zonal LED indicator cards are a range of panel mounted peripheral modules that can be added to the MxPro 4 series of control panels. The display cards are available in numerous configurations and provide individual indication of the zone(s) in fire.

The units fully support dynamic zoning on networked or larger stand alone systems and can be used to provide individual zonal LED indication at one location.

20 zone units are available which are fitted to the front display plate on the MxPro 4 series control panel. The Mxp-013-100F incorporates 100 LED indicators and is compatible with all MxPro 4 series multiloop panels.

Features

The cards are capable of simultaneously displaying all zones in a fire condition and incorporate a unique power saving feature to minimise the power drawn from the control panel in the event of a major fire.

Several other options are also available within the MxPro 4 range for applications where indication of fire signals from zones in addition to the panels graphical display is required. These options include Advanced Mimic Units, graphical systems and printers.

Features

- Up to 200 zones available
- 3 year warranty as standard
- Factory fitted or retro fit
- Dynamic zoning
- Cost effective against ancillary hardware

Order Codes and Options

Mxp-024F - Omit the 'F' for retro fit:	20 Zone LED Card and Label Fitted to a MxPro 4 1 loop panels
Mxp-025F - Omit the 'F' for retro fit:	20 Zone LED Card and Label Fitted to MxPro 4 2 & 4 loop panels
Mxp-013-100F - Omit the 'F' for retro fit:	100 Zone LED Card and Label Fitted to MxPro 4 2 & 4 loop panels

Compatibility

The Mxp-024F can be fitted to the MxPro 4 1 loop control panel.

The Mxp-013-100F can be fitted to an MxPro 4 2 or 4 loop control panel.

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MxPro 4

Damper Interface Card - obsolete

The Advanced Damper Interface is a loop driven device that utilises the Apollo protocol. The device is a fully monitored interface providing confirmation of the damper open and closed positions.

For use with dampers that are normally held open. Fail-safe operation only applicable to electrically opened & mechanically closed dampers.

Features

- Damper motor drive and limit switch monitoring integrated into a single unit
- Dual limit switch inputs for confirmation of damper-fully-open, and damper-fully-closed positions
- Selectable monitoring on switch inputs to prevent short circuits in the wiring from giving false position readings
- Fail-safe options in case of data errors in the communications loop

Specification

Enclosure Dimensions H x W x D mm	300 x 200 x 150 - Steel IP66
Colour	RAL 7032 Light Grey
Weight	4Kg
PCB Dimensions H x W x D mm	35 x 142 x 70
Operating Temperature	-5°C to 40°C
Realative Humidity	95% non-condensing (maximum)
Mains Supply	230V AC, 50Hz (+10%,-15%), 30mA (plus motor load)
Motor Switch Rating	1.0A
Fuse (PCB)	T3.15H250V
Fuse (Fuse terminal block)	T3.15H250V
Data loop current	1.6mA

Order Codes and Options

Mxp-046:	Damper Interface Card
Mxp-046-BX1:	Damper Interface Boxed

Compatibility

Use with dedicated damper panels using Apollo protocol devices MxPro 4 series fire panels require version 019- 01 (or higher) program to use with Apollo protocol devices PC configuration program must be 4.10 (or higher) to support damper interface units.

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MxPro 4

Modem Interface - obsolete

The Modem Interface card is a peripheral interface for use with theMxPro 4 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.

Modem Status LED's

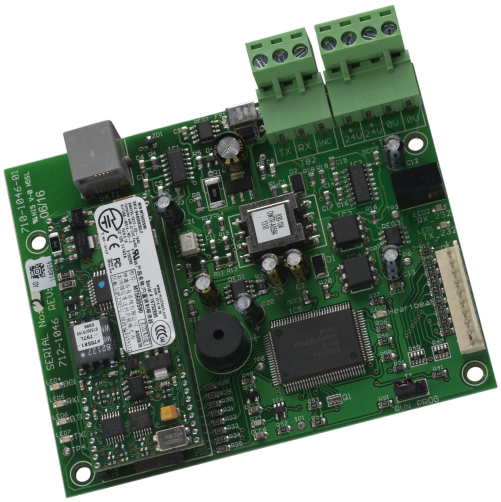
- DCDIND – Telephone connection established
- RXIND – Receipt of data by modem
- DTRIND – Always illuminated
- TXIND – Data transmission by modem

RS232 Activity LED's

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

Applications / Limitations

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



Features

- Remote dial-up access to the MxPro 4 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 H x W x D mm	Enclosure: 218 x 300 x 45

Order Codes and Options

Mxp-028(F)*:	Modem Card
Mxp-028-BX:	Modem Card (Boxed)
(F)*:	add - Fitted (Not Mx-4100, Mx-5101)

Compatibility

Internal fitting of the Peripheral Relay Card is applicable only to the MxPro 4 2, 4 & 8 loop control panels. The Modem Interface BX version can be used with theMxPro 4 1, 2, 4 & 8 loop control panels.

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MxPro 4

On-Board Printer - obsolete

Please note that this item is no longer available for sale.

The on-board thermal printer is an internal peripheral for use with the MxPro 4 multi-loop 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 inbuilt battery backup to enable continuous uninterrupted operation even during a mains fail situation.

Spare rolls of thermal paper can easily be replaced due to the mechanism's easy access, front-loading compartment.

On-demand option for printing

- Inputs
- Outputs
- Disablements
- Event Log
- Network Faults

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 Zonal LED indicator cards 50 & 100 modules. The 20 Zone LED card cannot be used.

Features

- Fast instant response
- 3-year warranty as standard
- Fast and silent operation
- Thermal printer
- Cost effective against ancillary hardware

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 and Options

Mxp-012:	On-board Printer c/w Chassis Door and Lab
Mxp-012F:	On-board Printer Fitted to an Mx-4200 / Mx-4400 or Mx-4800
Mxs-008:	Spare paper roll for Mx-4000 series printer. Thermal, 58mm drum, 25M length.
Mxs-014:	Spare battery pack (Sutable for printers made 2005 onwards)

Compatibility

The on-board Printer can be fitted to the MxPro 4 2, 4 & 8 loop fire alarm control panels.

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

Automatic Operation for

- Fire
- Faults
- Alarms
- Tests

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MxPro 4

Pager Interface - obsolete

The Pager Interface is a programmable interface providing connectivity of third party paging systems to the MxPro 4 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.

Applications / Limitations

For use with pager systems compliant to ESPA 4.4.4 protocol. If a printer is also required, fit an internal printer assembly.

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
- ESPA 4.4.4 protocol
- Panel mounted or boxed version
- Easily configured via pager PC Software
- 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 H x W x D mm	Enclosure: 218 x 300 x 45
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 and Options

Mxp-547(F)*:	Pager Interface Card
Mxp-547-BX:	Pager Interface Card (Boxed)
(F)*:	Add F - Fitted (Except Mx-4100, Mx-5101)

Compatibility

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

For compatibility tested pager systems contact your area sales representative.

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MxPro 4

Sounder Booster Card - obsolete

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

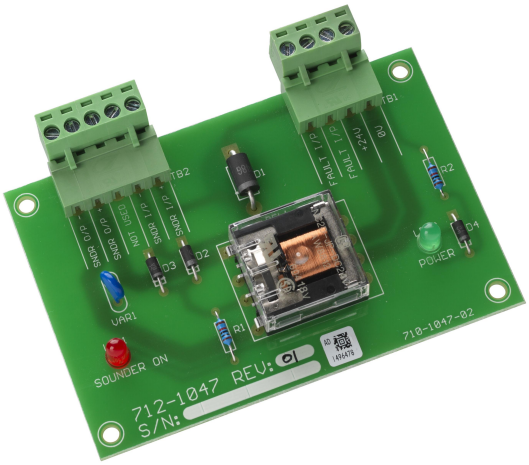
This boosted output is fully monitored for open and short circuits and will take an independent supply to provide up to 4A of sounder current to a single circuit.

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.

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

- Increased sounder capability up to 4A
- On-board indication
- PSU fault input contacts
- Cost effective against ancillary hardware
- 3 year warranty as standard

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.
On board indication	Input: 230V AC 50Hz Output: 5 Amp EN54 power supply. Nominal output voltage = 27.3V DC
Current Consumption (Derived from sounder circuit I/P)	Quiescent: 0mA Driving: 17mA
Dimensions H x W x D mm	PCB only: 70 x 105 x 18

Order Codes and Options

Mxs-025:	4A Sounder Booster Card (requires a minimum 4 Amp power supply and enclosure)

Compatibility

The Sounder Booster Card is compatible with all MxPro 4 control panels.

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MxPro 4

Sounder Splitter Card - obsolete

The Sounder Circuit Splitter is a peripheral unit for use with all MxPro 4 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.



Features

- 4 monitored outputs
- Up to 1 Amp per circuit
- Cost effective against ancillary hardware
- 3 year warranty as standard

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 10KΩ 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
Sounder Outputs	4 monitored sounder circuits (Total maximum load across all circuits = 1A)
Power Supply (Sounder Outputs)	Sounder output supply provided by the input (trigger) sounder circuit
Power Supply (Card)	Quiescent: 25mA Driving: 50mA
4A Spliter	
Sounder Outputs	4 x 1A rated monitored sounder circuits
Power Supply (Sounder Outputs)	Sounder output supply provided by an external 24Vdc 4A supply
Power Supply (Card)	Quiescent: 30mA Driving: 55mA

Order Codes and Options

Mxs-021:	4 Way Sounder Splitter Card

Compatibility

The Sounder Splitter Card is compatible with all MxPro 4 control panels.

Limitations

The 4-way sounder splitter card can be supplied as a PCB only for mounting. 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.

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.

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