MxPro 5

Portable Printer - obsolete

This is a portable/desktop version of the MxPro 5 internal thermal printer for use with theMxPro 5 multi-loop panels. It 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 inbuilt battery backup to enable continuous uninterrupted 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 print out details of Faults, Disablements, etc along with input points including their analogue values for a permanent record.

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.



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
- Fast and silent operation
- 3 year warranty as standard

Specification

Printer Type	Thermal, graphical
Dimensions H x W x D mm	70 x 110 x 150
Power Supply	230V AC via the supplied adaptor
Operating Temperature Range	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 mm	Thermal, 58 wide, 50 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 and Options

Mxp-048:	Printer c/w PSU, Battery and Leads
Spares:	
Mxp-008:	Thermal Printer Roll (pack of 10)
Mxp-035:	Rechargeable Battery Pack
Mxp-036:	Rubber Boot and Belt Kit
Mxp-037:	Spare PSU and Power Lead

Compatibility

The printer functions are supported from panel software revision 16 onwards. Compatible with all MxPro 5 control panels.

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MxPro 5

Advanced Integrator - obsolete

The Advanced Integrator is a powerful IP based solution for customers requiring protocol translation between their Advanced Fire Control Equipment and a Building Management System (BMS).

The device can be used as a simple bridge between manufacturer's components providing seamless integration and delivering guaranteed performance.

The conversion protocols supported by the Advanced Integrator are those generally found in use by the most common Building Management Systems on the market today and are currently 'BACNet' or 'Modbus'.

The Advanced Integrator supports up to 960 objects/tags of information, which can be configured and passed between network components and delivered to the Building Managements Systems (BMS) using TCP/IP technology.

The Advanced Integrator has powerful Windows®based software management suite built-in to provide engineers with the ability to write 'Cause & Effect strategy, check data logging, calendar, and timer functions.

TCP/IP connectivity permits the Advanced Integrator to be located locally to the distributed network of Fire Control Panels, but at the same time caters for remote programming and Building Management System (BMS) access.



Features

- BacNet/Modbus Protocol Integration
- 960 Configurable Object/Tags
- Windows® Based Programming
- Power IP Controller
- Configurable on a Zone/Point basis per object for Fire, Fault, Alarm & Isolation
- Support for three additional networks
- Small & Compact
- Low Voltage 12vDC - 24vDC
- Engineer configurable over TCP/IP
- Configurable using specialised Cause & Effect

Specification

Processor	Embedded AMD Low Power CPU
Memory	512 MB RAM
Disk Space	7Gb Industrial Solid State Hard Drive
Graphics	1 x VGA Output
Sound Card	Not Installed
USB Port	4 x USB 2.0 Ports (1 x Port will be utilised for Dongle License)
Ethernet	2 x Ethernet Ports (1 x Port for Engineer Programming & 1 x Port for Genral Connection)
Serial Port	4 x Serial Ports available for communication with the Ad-Net Networks. We recommend ordering the UP-001 (RS232 Cable) for interconnection of Mxp-510-Bx.
PS/2 Socket	1 x PS/2 Socket for Mouse & Keyboard
Dimensions	50.0mm(H) x 226mm(D) x 135mm(D)
Power Requirements	1 x Terminal & 1 x Jack Socket for DC Power Input 12vDC - 24vDC (Not Supplied)
Operating Temperature	0 - 50 Deg C
Warranty	12 Month Warranty

Order Codes and Options

Mxp-641:	Integrator - BacNet/ModBus (IP) Interface
Mxp-641C:	Integrator - BacNet/ModBus (IP) Interface - Configured

Compatibility

The Advanced Integrator is compatible with all MxPro5 control equipment but requires the Mxp-510-Bx (BMS/Graphical Interface) to be installed on the Ad-Net network for connectivity to the Integrator.

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MxPro 5

Mimic Controller - obsolete

The 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 an MxPro 5 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-020-100(/FT)*:	100 Way Network Output Controller (Unboxed)
MXP-027(F):	100 Way Expansion Card (Fitted)
MXP-052(F):	10 Way Relay Card (Fitted)
MXP-026(F):	High Intensity LED (Red/Green/Yellow - Fitted)
* /FT:	Denotes fault tolerant version

Compatibility

The Mimic Controller is compatible with all MxPro 5 control panels from software revision 019-04 using the Ad-Net peer-to-peer or standard network platform. The Mimic Controller is programmable using the Pc-NeT-03 Mx configuration tool revision 4.19 onwards.

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MxPro 5

ipGateway - obsolete

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

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
- No proprietary software required

Specification

Supply Voltage input	18-28V DC (e.g. wired from panel 24V auxiliary supply)
Supply Current	48mA(/FT: 86mA) at 24V DC
Enclosure Dimensions H x W x D mm	IP30: 218 x 200 x 45
Weight	2 Kg
Knockouts	4 top, 4 bottom, 4 bottom rear
Temperature range	-5°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 and Options

MXP-554:	ipGateway (Card Only) Standard Network
MXP-554/FT:	ipGateway (Card Only) Fault Tolerant network
MXP-554-BX:	ipGateway (Boxed) Standard Network
MXP-554-BX/FT:	ipGateway (Boxed) Fault Tolerant Network

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 v6 onwards, and panel software version 50.07 onwards.

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MxPro 5

Modem Interface - obsolete

The Modem Interface Card is a peripheral interface for use with theMxPro 5 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:

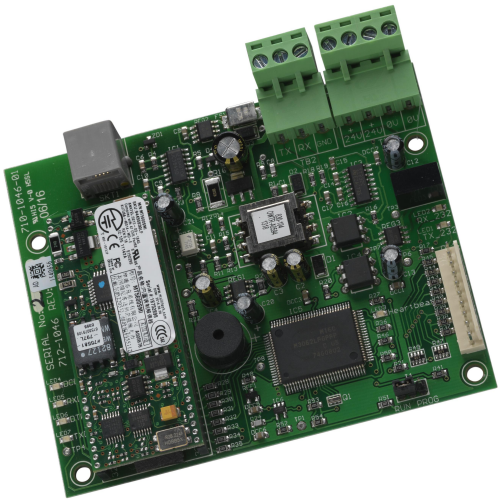
Heartbeat LED Indicator: During initial power up, LED 3 will flash at a rate of 2Hz. After approximately 5 seconds it will revert to 1Hz indicating normal operation.

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



Features

- Can be internally mounted or remotely fitted.
- Uses Pc-Net-004 for PC to site connection
- 3-year warranty as standard

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

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-528(F)*:	Modem Card
MXP-028-BX:	Modem Card (Boxed)
(F)*:	Add - Fitted

Compatibility

Internal fitting of the Modem Interface Card is applicable only to the MxPro 5 1, 2, 4 & 8 loop control panels. The Modem Interface -BX can be used with all MxPro 5 control panels.

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MxPro 5

Peripheral Relay Card - obsolete

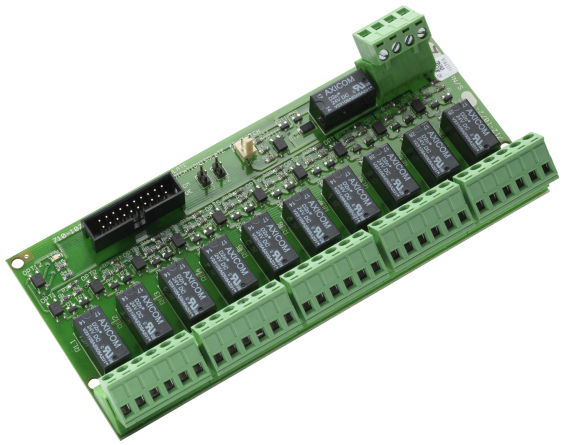
The Peripheral Relay Card is a peripheral relay card providing 10 30V DC, 1A programmable relay outputs.

It connects directly to any of the DIL connectors of either the Network Mimic Mxp-020-100 LED Output Card, the general I/O controller Mxp-045 LED Output Card or the Multi-Way Input/Output card 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 dynamic zoning.

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 instant 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-052-DIN:	10 Way Relay Card in DIN Rail Carrier

Compatibility

Can be used with any of the mimic units or the Multi Way I/O units.

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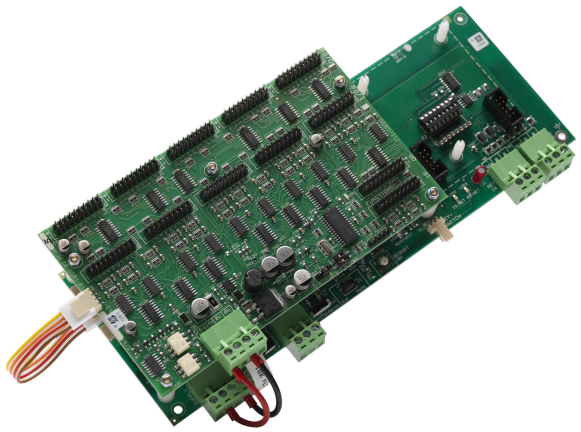
MxPro 5

50 Way Network I/O Card - obsolete

The 50 Way Network I/O Card 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 a 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 are 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 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)
MXS-031-2T:	2 Position trapped key switch for Mxp-045
MXS-031-2U:	2 Position un-trapped key switch for Mxp-045
MXS-031-3U:	3 Position un-trapped key switch for Mxp-045
MXS-026(F):	High-Intensity LED (Red/Green/Yellow - Fitted)
MXP-052(DIN):	Mimic driven 10-way relay card
/FT:	Denotes fault tolerant version

Compatibility

The50 Way Network I/O Card is compatible with all MxPro 5 control panels from software revision 019-04 using the Ad-Net peer-to-peer network. 50 Way Network I/O Card is programmable using the Pc-NeT-03 Mx configuration tool from revision 4.19 onwards.

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MxPro 5

Sounder Booster Card - obsolete

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

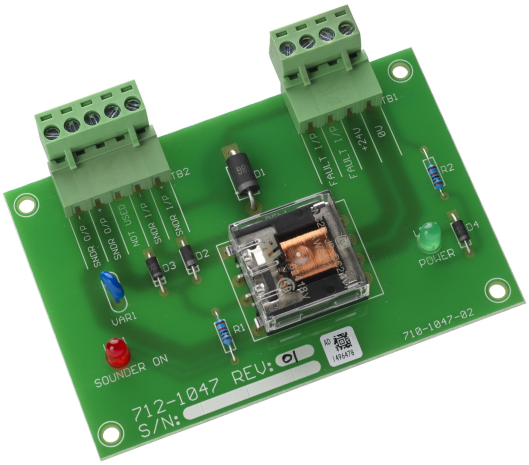
This boosted output is fully monitored for open and short circuits and will take an independent supply to provide up to 4A of sounder current to a single circuit.

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 5 control panels.

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MxPro 5

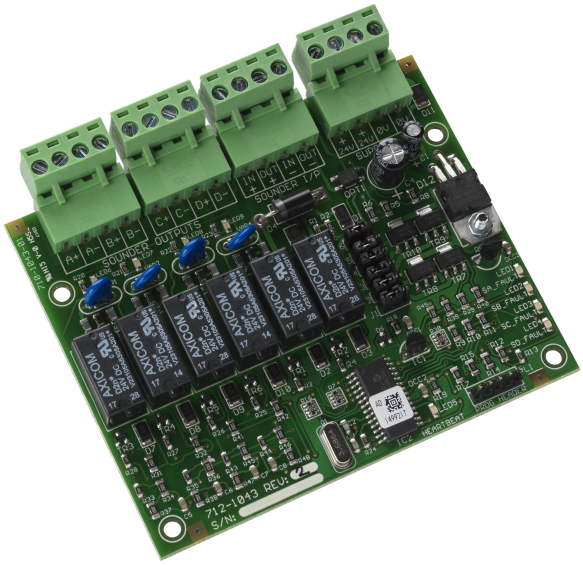
Sounder Splitter Card - obsolete

The Sounder Splitter Card is a peripheral unit for use with all MxPro 5 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.

Applications / Limitations

The 4-way sounder splitter card is 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.



Features

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

Specifications

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
1A Splitter 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 5 control panels.

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MxPro 5

Fibre Optic Conversion

Introduction

Modern day networking often calls for system integration using Fibre Optic cables, which the Ad-Net network can fully suport using the Mxp-631 Fibre Optic conversion devices.

The devices convert RS-485 serial data from the Ad-Net network to Multi/Single-Mode fibre optic topology using the following part codes:

1) Mxp-631-MM - Multi-Mode for distances up to 5km

2) Mxp-631-SM - Single-Mode for distances up to 40km

Please check the cable variation installed onsite before ordering the appropriate convertors.

Automatic Baudrate Detection

The Mxp-631 converters are factory configured to receive data using Automatic Baudrate Detection, so no manual configuration of the internal setup switches should be required to terminate your Ad-Net network.

Point-Point vs Ring Operation

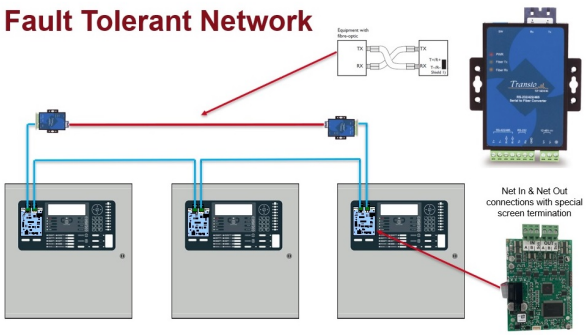
The Mxp-631-SM/MM convertors are compatible with the Ad-Net Fault-Tolerant network only and use the Point-Point communication method since the Ad-Net network forms its own 'Ring' topology. See example diagram opposite for method of connectivity.

Extenal DIP switches need to be configured on the device to select the method of recieving data transmission and appropriate toplogy as shown in the image opposite.

Automatic Data Direction Control (ADCC®)

ADDC® is a patented hardware data flow solution that senses and controls RS-485 data direction automatically, making it unnecessary to use the hand shaking signal.

Fault Tolerant Network



Fibre Optic Interface Setup

- Quick setup via DIP switch

Serial Connection	SW1	SW2
RS 485 (2 Wire)	OFF	ON

Built-in 120Ω Terminator This Node	SW3
Panel 1	ON

Fibre Mode	SW 4
Point-to-point mode	OFF



Features

- Extends RS-232/422/485 transmission up to:
- *Mxp-631-MM - Multi-Mode for distrances up to 5km
- *Mxp-631-SM - Single-Mode for distrances up to 40km
- Compact size
- Protects against electrical interference and chemical corrosion
- Supports baud rates of 50 bps to 921.6 Kbps
- Wide temperature models available (-40 to 75°C)

Specification

Fiber Connector	SC
Cable Requirements	Single-mode: 8.3/125, 8.7/125, 9/125 or 10/125 Multi-mode: 50/125, 62.5/125 or 100/140
Transmission Distance	Single-mode: 40km Multi-mode: 5km
Wavelength	Single-mode: 1310nm Multi-mode: 850nm

Tx Output	Single-mode: > -5dBm Multi-mode: > -5dBm
Rx Sensitivity	Single-mode: -25 dBm Multi-mode: 20 dBm
Point-to-point Transmission	Half-duplex or Full duplex
Ring Transmission	Half-duplex
RS-232/422/485 Side:	
Connector	Terminal Block
RS-232 Signals	Tx, Rx, GND
RS-422 Signals	TxD+, TxD-, RxD+, RxD-, GND
RS-485-4w Signals	TxD+, TxD-, RxD+, RxD-, GND
RS-485-2w Signals	Data+, Data-, GND
Physical Characteristics:	
Housing	Aluminium
Dimensions	Without ears: 67 x 100 x 22mm (2.64 x 3.94 x 0.87in) With ears: 90 x 100 x 22mm (3.54 x 3.94 x 0.87in)
Enviromental Limits:	
Operating Temperature	Standard Models: 0 to 60°C (32 to 140°F) Wide Temp Models: -40 to 75°C (-40 to 167°F)
Operating Humidity	5 to 95% RH
Storage Temperature	-40 to 75°C (-40 to 167°F)
Power Requirements:	
Input Voltage	12 to 48 VDC
Power Consumption	140ma @ 12V
Power Line Protection	2 Kv Burst (EFT), EN61000-4-4 2 Kv Surge, EN61000-4-5
Voltage Reversal Protection	Protects against V+/V- reversal
Over Current Protection	1.1A (protects against two signals shorted together)
Regulatory Approvals:	
FCC	Part 15 Subclass B
UL/CUL	UL60950-1
EMI	EN55022 1998, Class B
EMS	EN61000-4-2 (ESD), Criteria A, Level 3 EN61000-4-3 (RS), Criteria A, Level 2 EN61000-4-4 (EFT), Criteria A, Level 2 EN61000-4-5 (SURGE), Criteria A, Level 3 EN61000-4-6 (CS), Criteria A, Level 2 EN61000-4-8 (SFMF), Criteria A, Level 1
Warranty:	
Warranty Period	3 years

Order Codes and Options

MXP-631-MM:	RS-232/422/485 to multi-mode optical fiber media converter
MXP-631-SM:	RS-232/422/485 to single-mode optical fiber media converter
MXP-542:	24VDC - 24VDC Convertor / Isolator (required if powering Mxp-631 from an MxPro 5 control panel)

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