MxPro 5

PENN Peripheral Expansion Network Node

The Peripheral Expansion Network Node (PENN) provides the functionality of the MxPro 5 Series Fire Alarm Control Panels for use in bespoke graphical mimic, connecting remote inputs and outputs directly to the network, and other special build applications.

The PENN allows a comprehensive range of peripherals to be connected to the network without having to install additional panels.

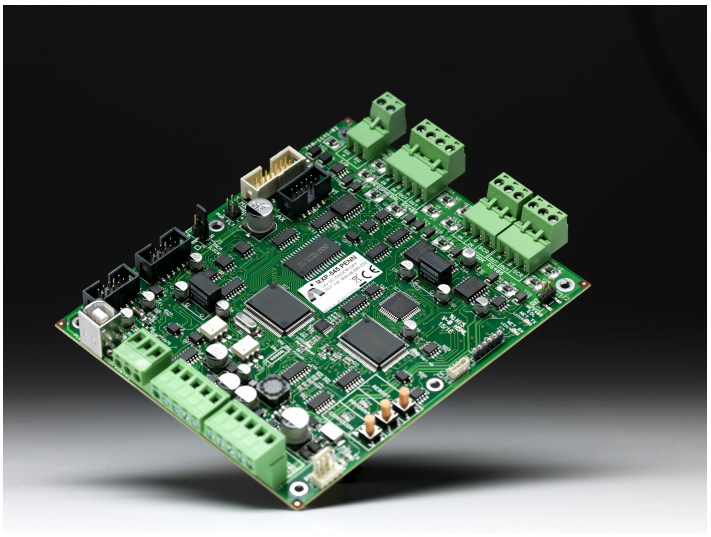
Compatible expansion cards include Input (MXP-537), Relay (MXP-035), Mimic driver (MXP-539), 16-way Switch (MXP-538), Fan/Damper Control (MXP-543), Zone Monitor (MXP-536), Sounder (MXP-034) and ESPA Pager Interface (MXP-547).

Accessories such as a Display Card (MXS-504), Printer (MXP-512), and LED Indicators (MXP-513-xxx) can also be added.

The PENN is pre-built to include either a Standard network or a Fault Tolerant (FT) network interface

The unit is designed for easy wiring installation. “Plug-in” terminal blocks are provided for all connections to the unit. RS232, as well as USB (Type B), are built-in.

The PENN is designed to be installed directly to mounting chassis plates, such as MXM-515-6U, MXM-515-8U, etc. using six fixing screw positions. The chassis assembly can be mounted into MX-5000 and MX-5000R enclosures.



Features

- Lets you install peripherals in remote locations without an additional panel
- Dual Feed 24V DC Power Supply Inputs
- Network in-built – either Standard or Fault Tolerant
- Up to 32 Nodes in Standard configuration and Up to 200 Nodes in FT configuration
- Supports up to 32 PBUS modules (16 of any one type)
- Option to connect standard MX-5000 Display and/or MXP-512 internal printer and/or MXP-513 LED cards
- Switch Input – General purpose or External PSE fault monitor
- RS232 Interface – PC Configuration, External Printer or MXP-547 ESPA
- USB Interface – PC Configuration

Specifications

Power Supply	15-30V DC (24V DC Nominal) – Dual Feed monitored inputs
Supply Current	Standard: 65 mA, Fault Tolerant: 90 mA (typical at $24V_{DC}$)
Operating Temperature Range	-5°C - 49°C
Humidity (non condensing)	95% RH
Dimensions H x W x D	153 x 127 x 25 mm
Wire Gauge	0.5 mm^2 - 2.5 mm^2 (12-24 AWG)
Switch Input	Non-monitored / Monitored (3K3 EOL, 680R active)
Network	Advanced Standard or Fault Tolerant (FT) RS485
PBUS	Advanced Peripheral Bus RS485
Serial Interfaces	USB and RS232 (Isolated)

Order codes and Options

MXP-545	PENN Interface Module - Standard Network
MXP-545/FT	PENN Interface Module - Fault Tolerant Network

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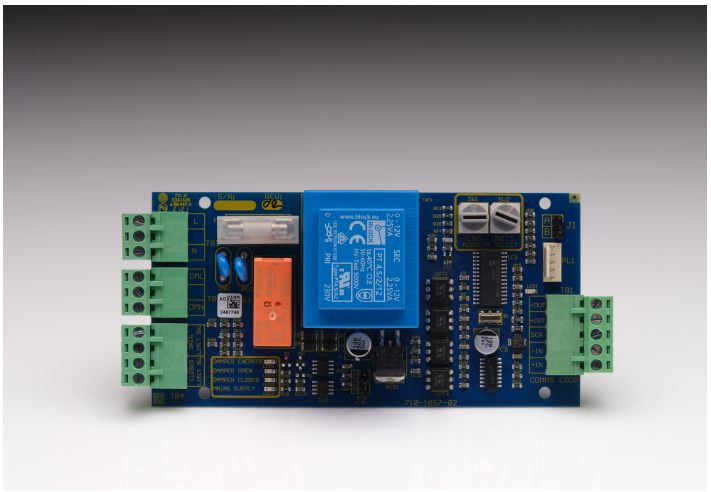
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Damper Interface Card

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 devicesMxPro 5series fire panels require version 050-05a (or higher) program to use with Apollo protocol devices PC configuration program must be 6.20 (or higher) to support damper interface units.

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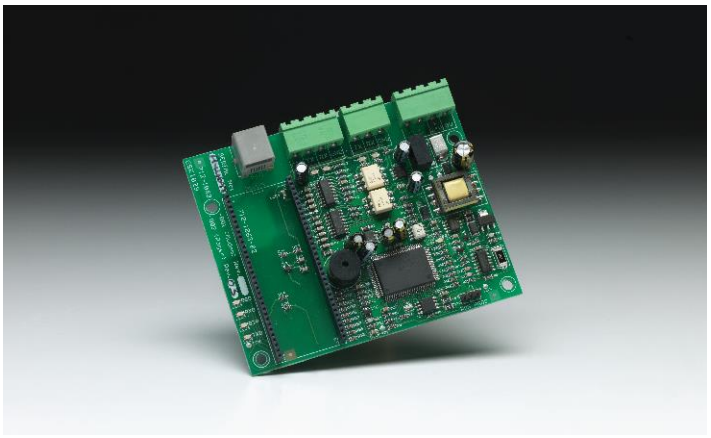
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ESPA Pager Interface

The Pager Interface is a programmable interface providing connectivity of third party paging systems to theMxPro 5 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. This product can also be used with all MxPro 5 series panels.

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