Advanced

Axis EN

BMS/Graphics Interface

The BMS/Graphics Interface interface allows BMS systems and graphical PCs to be integrated with the Axis EN 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 PCs.

Applications

Provides connection to various 3rd party graphics systems.

Features

- Sector based programming
- Each BMS interface is individually programmable with the available dynamic cause and effects rules
- Standard & fault tolerant network versions
- Easily configured via PC-NET-003
- 3 year warranty as standard

Specification

Supply Voltage Input	18-28V DC
Operating Temperature	-5°C to 50°C
Relative Humidity	95% non-condensing (maximum)
PCB Dimensions H x W x D mm	88 x 242 x 18
Weight	75 grams
Indications	On-board LED indicators for heartbeat, network Rx/Tx and RS232 Rx/Tx
Supply Current	Standard 48mA (/FT 86mA) at 24v DC
Serial Interface	Isolated RS232 interface for BMS/PC
Fault Input	Monitored volt free clean contact
Enclosure Dimensions H x W x D mm	218 x 300 x 45
Enclosure Weight	2 Kg

Order Codes and Options

Mxp-510-BX:	Standard Network BMS Interface Boxed
Mxp-510-BX/FT:	Fault-Tolerant Network BMS Interface Boxed
Mxp-510:	Standard Network BMS Interface (Card only)
Mxp-510/FT:	Fault Tolerant network BMS interface (Card only)

Compatibility

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

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Advanced Commander

The Advanced Commander 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 Commander 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 Commander supports up to 640 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 Commander 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 Commander 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
- 640 Configurable Object/Tags
- Windows® Based Programming
- Powerful IP Controller
- Configurable on a Zone/Point basis per Object for Fire, Fault, Alarm & Isolation
- Engineer configurable over TCP/IP
- Supports a single Ad-Net network
- Small & Compact
- Low Voltage 12vDC - 24vDC
- Configurable using specialized Cause & Effect

Specification

Processor	Embedded AMD Low Power CPU
Memory	512 MB RAM
Disk Space	4Gb Industrial Solid State Hard Drive
Graphics	Not Applicable
Sound Card	Not Applicable
USB Port	Not Applicable
Ethernet	1 x Ethernet Port
Serial Port	2 x Serial port for communication with Ad-Net Networks We recommend ordering the UP-001 (RS232 Cable) for interconnection to Mxp-510-Bx.
PS/2 Socket	Not Applicable
Dimensions	45.0mm(H) x 126mm(W) x 82mm(D)
Power Requirements	1 x Terminal Socket for DC Power Input 12vDC - 24vDC +/- 10% (Not supplied)

Internal Battery	1 x Internal Lithium Battery (Size 1/2AA - 3.6v)
Operating Temperature	0 - 50 Deg C
Warranty	12 Month Warranty

Order Codes and Options

Mxp-642:	Commander - BacNet/ModBus (IP) Interface
Mxp-642C:	Commander - BacNet/ModBus (IP) Interface - Configured
23-PSU/250:	12V Regulated Power Supply Unit
UP-001:	RS232 9-Way to 3-Way cable
Mxp-510-Bx:	Standard Network BMS Interface Boxed
Mxp-510-Bx/FT:	Fault-Tolerant Network BMS Interface Boxed

Compatibility

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

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Graphical Control Software

The Graphical Control Software is a highly configurable solution to customers requiring presentation of their sites via a Graphical method.

End users are presented with site maps, buttons, text, and images to easily monitor, navigate, and control the fire alarm equipment installed on-site.

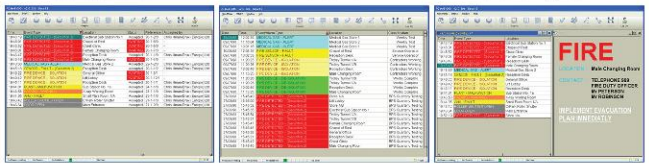
Simple control buttons permit the user to Enable/Disable field devices, and can also provide a means for Silence/Reset functionality. Analogue values can also be obtained from all field devices via the menu selections.

The software also includes an extensive History Log to monitor all activations received, and can be easily analysed using the extensive search methods available.

The software provides a cost effective solution for all types of installation, and is suitable for use with single panel to multi-site applications.

Applications / Limitations:
The BMS/Graphics Interface will be required for interfacing all control panels to a PC.
There is limited functionality in sub address support.
Peripheral bus devices are not supported.

Start-up Screen | Site Overview | Site Navigation



Event List | Event History | Split Screen Format

Features

- Standard ‘Windows’ based PC application
- Ad-NeT Network Compatible
- Windows providing Graphics, Text, or Event List
- User-friendly Configuration
- Event and Alarm History
- Zoom Graphic/Symbol Control

Specification

Processor	Intel Pentium i5 or higher (32 bit and 64 bit OS supported)
Recommended Operating Systems	Windows 7 or 10 Pro 32/64 bit
Memory	Memory 4Gb RAM (Minimum Recommended)
Disk Space	250Gb Hard Drive (Minimum Recommended)
Graphics	XGA Graphics Accelerator supporting a minimum 1024 x 768 resolution
Sound Card	Windows compatible sound card & speakers / On-board sounder required for event notification
Monitor	Minimum 17” and support a screen resolution of 1024 x 768
USB Port	Required if using a USB port software dongle – Confirm at time order is placed for software
Printer	Optional

Serial Port	1 x Serial port for communications with Graphics Interface. (Additional serial ports may be necessary if connectivity to other services are required)
CD ROM Drive	Required for software installation
Backup Device	Recommended
Warranty	A PC with on-site warranty support is recommended
Options	**Touch-Screen Monitor (Minimum Specification suggested):** 17” supporting a screen resolution of at least 1024 x 768 Any resolution above 1024 x 768 can be supported however, Graphical bitmaps must be created in the appropriate format for the resolution selected. If monitors are to be used in a Portrait manner a horizontal screen resolution of at least 950 pixels must be available. 1 x Additional Serial / USB port for communications with Touch Screen Controller

Order Codes and options

Pc-Net-005-L1:	MxPro Graphical Control Software (Standard Version – Connectivity of 3 Node max)
Pc-Net-005-L2:	MxPro Graphical Control Software (Standard Version - Connectivity of 15 Nodes max)
Pc-Net-005-L2P:	MxPro Graphical Control Software (Premium Version - Connectivity of 15 Nodes max)*
Pc-Net-005-L3:	MxPro Graphical Control Software (Standard Version - Connectivity of 200 Nodes max)
Pc-Net-005-L3P:	MxPro Graphical Control Software (Premium Version - Connectivity of 200 Nodes max)*
Pc-NeT-005-SWM:	Smart Watch Module
PC-NeT-005-SWM4R:	Smart Watch Module - 4 Inputs
PC-NeT-005-SCU:	Smart Cube Unit
*:	Package options can be found on the following page.

Compatibility

The Pc-Net Graphical Control Software is compatible with all Axis EN control equipment.

Package Options

The regular PC-NET-005 package in each level contains the basic software, which allows for connection to other systems over TCP. The premium software version (PC-NET-005L* P) also includes all of the available features and options shown below.

Groups

This option allows PC Net terminals to communicate with one another using a TCP/IP network. Groups can connect masters to masters or masters to slaves. The Smart Cube also connects to a PC Net terminal using this option.

The Groups line is monitored and should a network connection go down, each PC net terminal will report there has been a connection error.

Slaves

This option is a ‘No’ control version of the PC net software. A slave will allow for 24 hours, real time monitoring from a master terminal with reporting and accept alarm capabilities but will not allow control of the panel and devices. A slave will gather its information from a master and cannot be connected to a panel or panel network.

Event Printer

This option gives users the ability to connect Line printers to the PC net terminal. With recent developments in the software, the capability to automatically print a graphic from a normal printer or laser printer in an alarm condition now comes as standard on all packages.

Service and History Mode

Normally an additional module, the SMART (Service Management and Reporting Tool) allows users to produce service reports which accurately show the total percentage of devices being tested on an annual basis. This module can be used by both the end user and Service provider as a way to demonstrate value adds and commitment to testing 100% of sites devices.

Auto Update Module

When more than one PC Net is connected in a group the standard practice when upgrading one is to take a backup and travel to each terminal to restore each one independently. The new auto update module allows a user to makes changes on one master PC Net and propagates the changes to any other master/slave connected via groups. This mimics a client/server application and drastically reduces upgrade times.

SMS Texting (requires additional hardware & Licence key upgrade - POA)

When an event occurs a text message is sent to one or more mobile phones notifying a person/ persons of that event. With additional hardware (to be quoted separately) the PC Net can send event information via text message to multiple numbers as well as filtering messages for certain numbers only e.g. Fires go to Estates, Faults go to Engineers. SIM cards are to be supplied by the customer.

Email Module(requires additional hardware & Licence key upgrade - POA)

The PC Net is now capable of send emails when an event occurs. Each event can be sent to a multitude of addresses. This means for example that Fire events can be sent to person A,B and C whilst faults are sent to person X, Y and Z. Email can be configured to only be sent during certain times. Two types of email can be sent. Either a single alarm message or a generalised overview of alarms in a certain period of time.

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Smart Watch Module

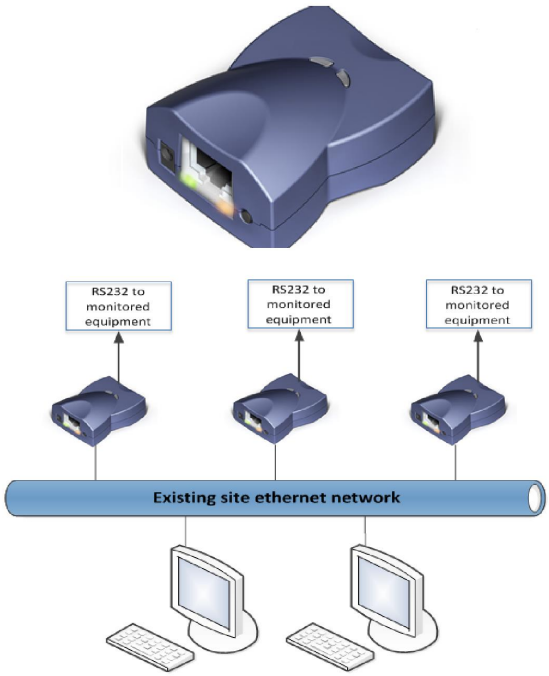
The Smart Watch Module (SWM) is a device used in conjunction with the PC-Net Graphical Software Suite offered by Advanced and is used for the control and diagnostics of remote site applications.

The Smart Watch Module (SWM) uses Static TCP/IP addressing over Local Area Network (LAN) or Wide Area Network (WAN) applications limiting the need for additional cabling and allowing remote sites to be monitored over a network from a centrally located Graphical Software Suite.

The Smart Watch Modules (SWM) clever use of TCP/IP technology provides the user with an ultimate level of control for all their Fire products worldwide.

The SWM is supplied in two variations, one for remote control and diagnostics of Addressable System Installations and the other for Conventional.

Please see parts list below for ordering purposes.



Features

- Small and Compact
- Remote Network Control & Diagnostics
- TCP/IP Communication via Static IP
- Direct connectivity to BMS/Graphical Interface via RS232
- Connect up to 255 Remote Sites
- Supports up to 15 remote panels per site
- Configured using Graphical Software

Specification

Processor	Intel Pentium 4 Processor, 1.8 GHz or higher (32 bit and 64 bit OS supported)
Recommended Operating Systems	Windows XP Professional SP3 / Windows 7 Pro
Memory	Memory 512 MB RAM (Minimum Recommended)
Disk Space	40Gb Hard Drive (Minimum Recommended)
Graphics	XGA Graphics Accelerator supporting a minimum 1024 x 768 resolution
Sound Card	Windows compatible sound card & speakers / On-board sounder required for event notification
Monitor	Minimum 17” and support a screen resolution of 1024 x 768
Parallel Port	Required if using a parallel port software dongle – Confirm at time order is placed for software
USB Port	Required if using a USB port software dongle – Confirm at time order is placed for software

Printer	Optional
Serial Port	1 x Serial port for communications with Graphics Interface. (Additional serial ports may be necessary if connectivity to other services are required)
CD ROM Drive	Required for software installation
Backup Device	Recommended
Warranty	A PC with on-site warranty support is recommended
Options	**Touch-Screen Monitor (Minimum Specification suggested):** 17” supporting a screen resolution of at least 1024 x 768 Any resolution above 1024 x 768 can be supported however, Graphical bitmaps must be created in the appropriate format for the resolution selected. If monitors are to be used in a Portrait manner a horizontal screen resolution of at least 950 pixels must be available. 1 x Additional Serial / USB port for communications with Touch Screen Controller

Order Codes and Options

Pc-Net-005-SWM:	Smart Watch Module (1 - 3 Panels)
Pc-Net-005-SWM6:	Smart Watch Module (4 - 6 Panels)
Pc-Net-005-SWM15:	Smart Watch Module (7 - 15 Panels)
Pc-Net-005-SWM4R:	Smart Watch Module - 4 Inputs

Compatibility

The Pc-Net Graphical Control Software is compatible with all Axis EN control equipment.

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