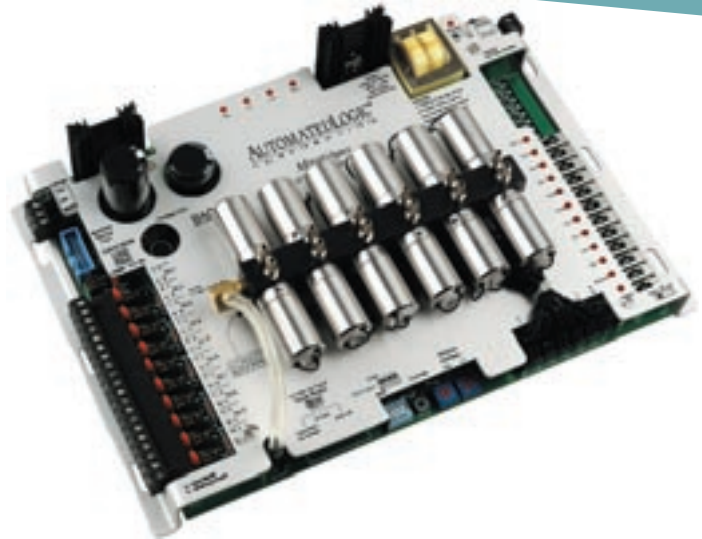


M-Line Pneumatic Controllers

Pneumatic Controllers for Multi-Equipment/ Multi-Zone Applications



M-line pneumatic controllers are part of Automated Logic's native BACnet[®] system and the M-line family of controllers. M-line pneumatic controllers and expander modules are designed with built-in pneumatic transducers for multi-equipment applications in commercial environments. Using native BACnet communications over a high speed ARCNET 156K baud network, M-line pneumatic controllers deliver superior performance in the field.

Key Features and Benefits

- Fully supports all general HVAC applications, including central plants, multi-zones, AHUs and VAV zones - ideal for the retrofit market.
- Native BACnet communications over a high speed ARCNET 156K baud - ASHRAE's industry standard protocol for interoperability.
- Built-in pneumatic transducers for pneumatic control signals and actuation.
- Built-in pneumatic feedback transducer to monitor actual pressure to all output signals and main air pressure to module.
- Tough construction delivers superior performance and reliability in the field.
- Removable screw terminal strips simplify maintenance.
- Modular expandable design, configurable up to 180 points for scalable solutions.
- Integral support for the BACview[®] operator display unit - enhances local access to system.

- 32-bit microprocessor and ARCNET communications co-processor.

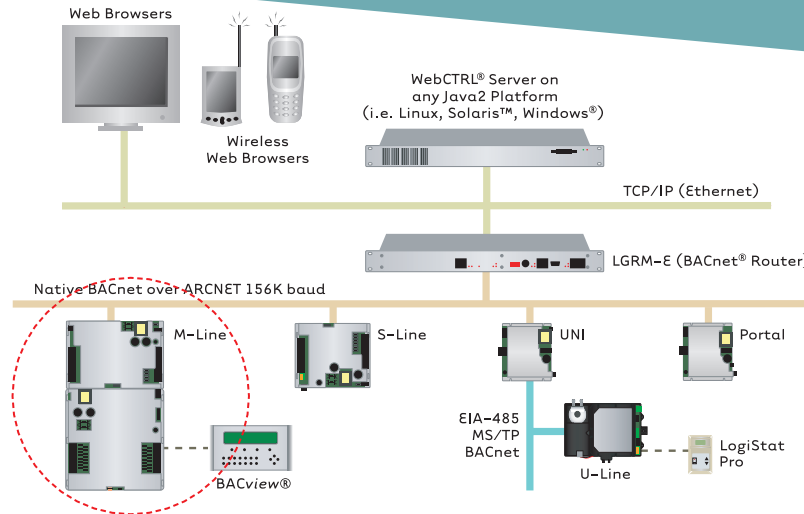
The M-line pneumatic series of controllers are available in three configurations: M4106p, MX4106p and M01010pnx. The M4106p and MX4106p, expandable controller and expander module, are suitable for a variety of HVAC applications requiring pneumatic actuation. The flexible design of the M4106p controller scales up to 192 points by using the MX4106p or other M-line expander control modules. For pneumatic multi-zone AHUs or VAV zone applications, the M01010pnx (non-expandable pneumatic controller) offers ten pneumatic outputs.

With powerful 32-bit microprocessor technology, high-resolution inputs and pneumatic outputs, the M-line pneumatic series of controllers is a perfect match for the most complex control environments. Support for EIKON[®] graphical programming also provides an unmatched capability to engineer complex control sequences, verify performance, and generate instant project documentation without special programming expertise. Add in the advantage of the BACview[®] local operator interface and you see why M-line controllers provide an industry-leading combination of capability, performance, and value.

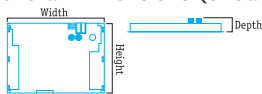
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CORPORATION

M-Line Pneumatic Controllers

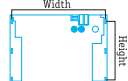
Specifications



Power:	M4106p, MX4106p and M01010pnx: 24VAC \pm 10%, 30VA, 50-60Hz (38.4VA, 50-60Hz with BACview2 attached).
Physical:	Rugged aluminum cover for protection and removable screw terminal blocks.
Communication:	BACnet® over ARCNET 156K baud (or CMnet for backwards compatibility with existing ALC systems). Includes a diagnostic port and optically isolated communication port.
Network Option:	BACnet over ARCNET 156Kbps standard for CMnet. BACnet MS/TP @ 9600 to 76.8Kbps optional.
BIBB Support:	Supports BACnet Interoperability Building Blocks (BIBBs) from the following groups: Data Sharing, Alarm and Event Management, Scheduling, Trending, and Device and Network Management. See PICS for details.
Microprocessor:	32-bit Motorola MC68-series microprocessor.
Memory:	2MB of Flash memory and 1MB of non-volatile battery-backed RAM.
Environmental Operating Range:	0°-130°F (-17.8 to 54.4°C), 10-90% RH non-condensing.
Digital Outputs:	M4106p, MX4106p: Four digital outputs, relay contacts rated at 3A resistive @ 24VAC. Hand-Off-Auto switches. Normally open-normally closed jumpers. LED indication. M01010pnx: No digital outputs.
Universal Inputs (of each):	Ten universal inputs, 0-5VDC, 0-20mA (input burden 500 Ohms). Thermistor (BAPI Type II curve).
Input Resolution:	12 bit A/D.
Input Pulse Frequency:	Maximum of 10Hz (minimum 50mS pulse width).
Pneumatic Analog Output:	M4106p, MX4106p: Six pneumatic outputs rated at 0-20psi, Cv of 0.03, maximum pressure 30psi, flow 10 liters/minute at 25psi, barb connection 1/4" (6.3mm). Effective resolution 1/16psi or better. M01010pnx: Ten pneumatic outputs rated at 0-20psi as above.
Analog Output Resolution:	8 bit D/A.
Listed by:	UL916 (Canadian Std C22.2 No.205-M1983), CE, FCC Part 15 - Subpart B - Class A.
Overall Dimensions (of each):	11-5/16" (width) by 7-1/2" (height) by 4" (minimum recommended panel depth).



Mounting Hole Dimensions: 10-3/16" (width) by 5" (height). 275mm (width) by 127mm (height).



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