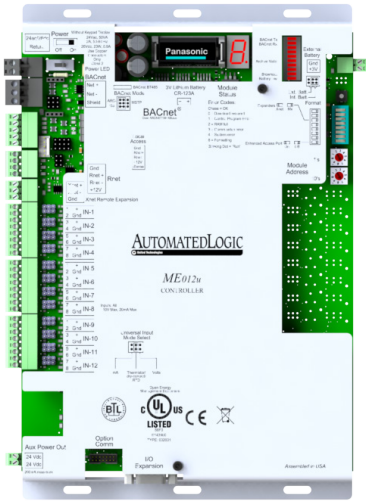
ME012u Controller

Powerful, Multi-Equipment Controllers



The Automated Logic® ME012u controller is an integral component of the WebCTRL® building automation system.

The ME012u controller has the speed, power, memory and I/O flexibility to handle the most demanding control applications in the industry. Capable of controlling multiple pieces of HVAC equipment simultaneously, this robust BACnet controller can support complex control strategies with plenty of memory for trends, and is capable of third-party integration using other communication protocols.

Key Features and Benefits

Application Features

- Supports general HVAC applications including complex central plants
- Standard library of control programs available for most multi-equipment applications
- Supports EIKON® graphical programming software, an object-oriented tool that provides complete flexibility for any custom control sequence that you need
- Supports Automated Logic communicating sensors, which are available in a variety of zone sensing combinations and support setpoint adjustment and occupancy overrides
- Supports Automated Logic touchscreen interfaces for managing and troubleshooting the connected equipment easily
- Supports live, visual displays of control logic, which uses real time operational data and aids in optimizing and troubleshooting system operations
- Graphically programmed with self-documenting control sequences and a live view of all sequence components
- Fully graphically programmable with full communications with other Automated Logic controllers

Hardware Features

- Controls 12 I/O points on the controller and up to (5) MEx I/O expansion modules in panel configuration or remote mounted up to 100 ft away for scalable solutions (132 I/O points total)
- High-speed native BACnet communications to field devices over high-speed ARCNET 156 Kbps or BACnet MS/TP networks
- Protocol translator package allows the ME controllers to serve as a gateway between BACnet and a wide range of open and proprietary networks

System Benefits

- Connects seamlessly to the WebCTRL building automation system
- Supports demand limiting and optimal start for maximum energy savings

WebCTRL®

The WebCTRL® building automation system gives you the ability to understand your building operations and analyze the results. The WebCTRL System integrates environmental, energy, security and safety systems into one powerful management tool that allows you to reduce energy consumption, increase occupant comfort, and achieve sustainable building operations. Our web-based platform allows building managers to control and access information about their HVAC, lighting, central plant and critical processes on premises or remotely at any time of day.

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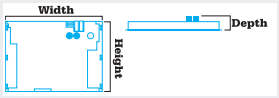
Next level building automation engineered to help you make smart decisions.

ME012u Controller

Specifications

BACnet Support:	Conforms to the BACnet Advanced Application Controller (B-AAC) Standard Device Profile as defined in ANSI/ASHRAE Standard 135-2012 (BACnet) Annex L, Protocol Revision 9 Supports up to 12,000 BACnet Objects and up to 999 control programs.
BACnet Port:	For communication with the controller network using ARC156 or MS/TP (9600 bps–76.8 kbps)
Rnet Port:	Supports: • Up to 5 ZS sensors • One Equipment Touch • Up to 4 RS Standard sensors and one RS Plus, RS Pro, or RS Pro-F sensor. **NOTE** Only ZS sensors can share the Rnet with an Equipment Touch.
Rnet Local Access port:	For system start-up and troubleshooting
Inputs:	Twelve inputs, configurable for 0–5 Vdc, 0–10 Vdc, 0–20 mA, RTD, thermistor, or dry contact 14 bit A/D Input resolution
Expansion:	Up to 5 expanders with a maximum of 132 points
Microprocessor:	32-bit Motorola Power PC microprocessor with cache memory, high performance 32-bit communication co-processor, ARCNET communication co-processor, and I/O expansion CAN co-processor
Memory:	16 MB non-volatile battery-backed RAM (with 12 MB available for use), 8 MB Flash memory, 32-bit memory bus
Real-time Clock:	Battery-backed real-time clock keeps track of time in event of power failure
Status Indicators:	LED status indicators for EIA-232/485 communication, and low battery status. Seven-segment status display for running, error, and power status
Data Archive:	Control programs, editable properties, and schedules are archived to non-volatile Flash memory daily and after every power up or download. If a power outage occurs and the battery backup fails or is turned off, the data is automatically restored from this archive.
Protection:	Built-in surge and transient protection circuitry for power, communications and I/O
Listed by:	UL-916 (PAZX), cUL-916 (PAZX7), FCC Part 15-Subpart B-Class A, CE
Environmental Operating Range:	-20 to 140°F (-29 to 60°C), 10–90% relative humidity, non-condensing **NOTE** Install in a UL Listed enclosure only.
Power Requirements:	24 Vac ±10%, 50–60 Hz, 50 VA 26 Vdc ±10%, 23 W **NOTE** Power consumption will increase when Equipment Touch or other accessories are attached.
Physical:	Rugged aluminum cover. Removable screw terminal blocks
Weight:	1.4 lb. (0.635 kg)
Dimensions:	Overall Width: 7-1/2" (190mm) Height: 11-5/16" (287mm) Depth: 1-1/4" (32mm) min. panel depth Mounting Holes Width: 5" (127mm) Height: 10-7/8" (276mm)



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