ME812u Controller Series

Powerful, Multi-Equipment Controllers

AUTOMATEDLOGIC
United Technologies

Models: ME812u, ME812u-E, and ME812u-LGR
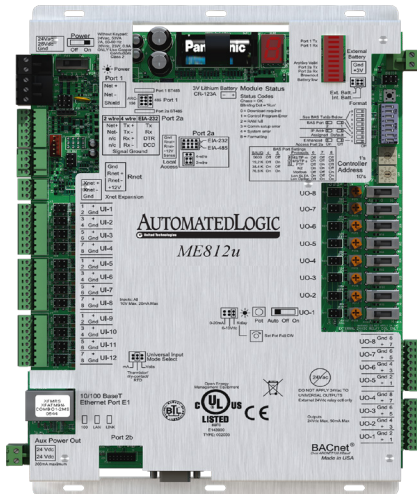
The Automated Logic® ME812 line of controllers are integral components of the WebCTRL® building automation system.

ME812u line controllers ave 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 zoning 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 20 I/O points on the controller, and up to (6) MEx I/O expansion modules in panel configuration or remote mounted up to 100 ft away for scalable solutions (164 I/O points total)

- High-speed native BACnet communications to field devices over TCP/IP, Ethernet, 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

- Universal inputs and outputs, with HOA override switches and potentiometer adjustment available on all outputs

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.

We make data **big.**™
Next level building automation engineered to help you make smart decisions.

ME812u Controller Series

Specifications

BACnet Support:	Conforms to the BACnet Building Controller (B-BC) Standard Device as defined in BACnet 135-2001 Annex L. BTL Listing BACnet PICS
Communication Ports:	**ME812u Model** EIA-485 port for ARCNET 156 Kbps or BACnet MS/TP (9600 baud to 76.8 Kbps) EIA-232/485 port* configurable port for BACnet PTP **ME812u-E Model** Ethernet port (10/100Mbps) only for BACnet/IP communications EIA-485 port for ARCNET 156 Kbps or BACnet MS/TP (9600 baud to 76.8 Kbps) EIA-232/485 port* configurable port for BACnet PTP **ME812u-LGR Model** Ethernet port* (10/100Mbps) for BACnet over Ethernet orBACnet/IP communications EIA-485 port for ARCNET 156 Kbps or BACnet MS/TP (9600 baud to 76.8 Kbps) EIA-232/485 port* configurable port for BACnet PTP *Third-Party integration drivers available through Ethernet and (1) EIA-232/485 configurable port* **All Models have** Rnet port for Rnet communicating devices such as ZS room sensors and Touch interfaces. Xnet (500 Kbps) port for MEx I/O expansion modules. Local access port.
Universal Inputs:	Twelve configurable universal inputs with 14-bit A/D resolution. Supported input types include: 0-5 V-dc, 0-10 V-dc, 0-20 mA, Thermistor (10k Ohm Type II), 1k Ohm RTD (Platinum, Nickel or Balco), and Dry Contact. All inputs support pulse counting up to 40 cycles per second (25mSec minimum pulse).
Universal Outputs	Eight universal outputs are jumper configurable as 0-10V-dc, or 0-20mAdc with 12-bit A/D or 24V-dc @ 50mA relay drive. HOA (hand/off/auto) switches for all outputs, including potentiometer for manual adjustment of analog outputs
Expansion:	Six MEx I/O expansion modules can be connected - one mounted directly on top of the controller, mounted locally in a stack configuration or remote-mounted up to 100ft away
Microprocessor:	Powerful 32-bit Motorola Power PC microprocessor. High-performance 32-bit communication co-processor. I/O expansion CAN co-processor
Memory:	32-bit memory bus structure, 8 Mbyte flash memory, 16 Mbyte SDRAM battery-backed. Battery CR123A has life of 10 years with 720 hours of cumulative power outage
Real-time Clock:	Battery-backed real-time clock
Status Indicators:	LED status indicators for EIA-232/485 communication, and low battery status. Seven-segment status display for running, error, and power status
Module Addressing:	Rotary dip switches for intuitive network addressing of modules
Protection:	Built-in surge and transient protection circuitry for power, communications and I/O
Listed by:	UL916 (Canadian Std C22.2 No. 205-M1983), CE, FCC Part 15 - Subpart B - Class A, BTL Listing
Environmental Operating Range:	-20°F to 140°F (-29°C to 60°C); 10 to 90% relative humidity, non-condensing
Power Requirements:	24 V-ac ± 10%, 50-60Hz, 50VA, or 26 V-dc ± 10%, 23W. 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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