SE6104a & SE6104sp

Single-Equipment Controllers

AUTOMATEDLOGIC
United Technologies
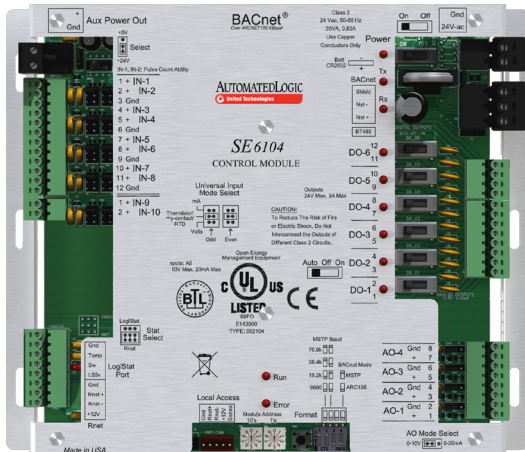
The Automated Logic® SE controllers are an integral component of the WebCTRL® building automation system.

The SE controllers are fully programmable, native BACnet Advanced Application Controllers that provide a rugged solution for single-equipment applications. Designed to operate in a wide range of environmental conditions, SE controllers can be used inside rooftop units, mechanical rooms, equipment closets, or almost any other weather-tight location.

Key Features and Benefits

Application Features

- Versatile controller suitable for a variety of applications, including rooftop units and lighting
- Standard library of control programs available for most 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

Hardware Features

- Controls up to 20 points (6 binary outputs, 10 universal inputs, and 4 analog outputs)
- High-speed, native BACnet over ARC156 communications delivers high speed response when you need it. BACnet over over MS/TP communication is also supported.
- Fast, powerful, and fully distributed control allows complete independence from any other devices in the system
- Firmware upgrades can be performed remotely
- Easy startup and commissioning using the WebCTRL system user interface

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

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Specifications

BACnet Support:	Conforms to the Advanced Application Controller (B-AAC) Standard Device Profile as defined in ANSI-ASHRAE Standard 135-2004 (BACnet) Annex L. Tested to Protocol Revision 9.
Communication Ports:	The following ports are available on the SE control modules: **BACnet**: EIA-485 port for ARCNET 156 Kbps or MS/TP (9600 bps – 76.8 kbps) **Local access**: for system start-up and troubleshooting **Rnet**: port for sensors and local operator interfaces
Binary Outputs:	Six binary outputs. Relay contacts are rated at 3A max @ 24 Vac, configured normally open with hand/off/auto switches.
Universal Inputs:	Ten configurable universal input with 12-bit A/D resolution. Supported input types include 0-5 Vdc, 0-10 Vdc, 0-20 mA, Thermistor (10 kOhm Type II), 1 kOhm RTD (Platinum, Nickel or Balco), and Dry Contact. NOTE: Inputs 1 and 2 support pulse counting up to 40 cycles per second (40 Hz).
Analog Outputs:	Four analog outputs that are 0-10 Vdc or 0-20 mA selectable with 8-bit resolution.

Program Capabilities:

Controller	Driver	Programs	Programmed with	BACnet Objects
SE6104a	SE6104	5	EIKON® software	Up to 600 network visible BACnet objects
SE6104sp	SE6104sp	1	EIKON® software	Up to 400 network visible BACnet objects

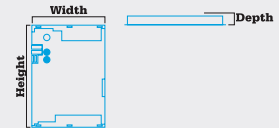|	
Microprocessor:	High-speed microprocessor with ARCNET communication co-processor.
Memory:	1 MByte non-volatile battery-backed RAM, 1 MByte Flash memory, 16-bit memory bus.
Battery:	Shelf life of the battery is 10 years with 10,000 hours of continuous operation.
Real-time Clock:	Battery-backed real-time clock.
Status Indicators:	LED status indicators for EIA-485 communication, running, error, power and all digital outputs.
Addressing:	Rotary dip switches for intuitive network addressing.
Protection:	Built-in surge and transient protection circuitry for power, communications, inputs and outputs.
Listed by:	UL916 (PAZX), cUL-916 (PAZX7), FCC Part 15–Subpart B–Class A, CE
Environmental Operating Range:	-20°F to 140°F (-29°C to 60°C); 10 to 90% relative humidity, non-condensing. NOTE: Controllers should be mounted in protective enclosures.
Power Requirements:	24 Vac ± 10%, 50-60 Hz, 20 VA NOTE: Power consumption will increase when other accessories are attached.
Physical:	Rugged aluminum cover, removable screw terminal blocks.
Weight:	1.05 lb. (0.48 kg)
Dimensions:	Overall Width: 8.3 in. (21.1 cm) Height: 7 in. (17.8 cm) Depth: 1.5 in. (3.8 cm) panel depth Mounting Width: 7.8 in. (19.9 cm) Height: 5 in. (12.7 cm) 5 in. mounting hole spacing

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