

SE line

Rugged Flexibility for Single Equipment Applications



Automated Logic's powerful SE line provides a rugged solution for single equipment applications. Designed to operate in a wide range of environmental conditions, SE controllers can be used in rooftop units, mechanical rooms, equipment closets, or almost any other weather tight location. Fully programmable using the EIKON[®] graphic programming language, SE controllers use native BACnet communications over either a high-speed ARCNET 156 kbps network or a medium speed MS/TP network to provide maximum flexibility and interoperability.

Key Features and Benefits

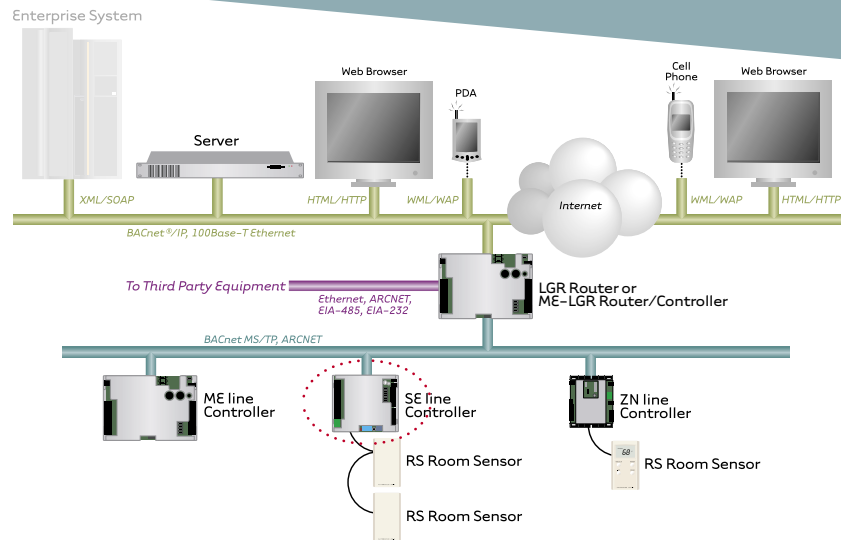
- Native BACnet communications to field devices over a high-speed ARCNET 156 kbps or BACnet MS/TP network.
- 12-bit Analog to Digital converter provides extreme precision on all inputs. Pulse counting capability up to 20 Hz is available on selected inputs.
- Uses a high-speed microprocessor with 1 MByte Flash memory and 1 MByte of RAM for unparalleled programmability. Firmware upgrades can be downloaded remotely — no chip replacement necessary.

- Battery backed real-time clock provides true stand-alone capabilities. Control modules recover from power failures providing full continuity of scheduled operations, even when communications are disrupted.
- Rnet port supports Automated Logic's line of RS room sensors and BACview⁶ local operator interface, and provides local access to the system.
- SE line controllers are fully graphically programmable and offer full peer-to-peer communications with other SE line, ME line or ZN line controllers. Graphical programs are universally understood and provide self-documenting control sequences.
- Tough construction delivers superior performance and reliability. Control modules are constructed with a rugged aluminum cover, which provides optimum electrical protection and noise immunity.

AUTOMATED LOGIC[®]
CORPORATION

SE line

Specifications



BACnet Support:	Conforms to the Advanced Application Controller (B-AAC) Standard Device Profile as defined in BACnet 135-2001 Annex L.	
Communication:	The following ports are available on the SE control modules: EIA-485 port for ARCNET 156 kbps or MS/TP (9600 bps — 76.8 kbps). Local access port for system start-up and troubleshooting. Rnet port for RS room sensors. The Rnet port supports up to four RS sensors and one RS Pro sensor for averaging or high/low select control. Rnet port can also support a local operator interface (BACview6). NOTE: The LogiStat port is disabled if Rnet port is used. LogiStat port for LogiStat room sensors. Two Universal Inputs are used by the LogiStat port. NOTE: The LogiStat Pro is not supported on the SE line (use RS Pro on the Rnet port instead)	
Binary Outputs:	Six binary outputs, relay contact rated at 3A max @ 24 Vac, configured normally open with hand-off auto switches.	
Universal Inputs:	Ten configurable universal inputs with 12-bit A/D resolution. Supported input types include: 0-5 Vdc, 0-10 Vdc, 0-20 mA, Thermistor (10k Ohm Type II), 1k Ohm RTD (Platinum, Nickel or Balco), and Dry Contact. NOTE: Inputs 1 and 2 support pulse counting up to 20 cycles per second (20 Hz).	
Analog Outputs:	Four analog outputs, 0-10 Vdc or 0-20mA selectable with 8-bit resolution.	
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. (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.	
Module Addressing:	Rotary dip switches for intuitive network addressing of modules.	
Protection:	Built-in surge and transient protection circuitry for power, communications, inputs and outputs.	
Listed by:	UL916 (Canadian Std C22.2 No. 205-M1983), CE, FCC Part 15 — Subpart B — Class A.	
Environmental Operating Range:	-20°F to 140°F (-29°C to 60°C); 10 to 90% relative humidity, non-condensing. NOTE: Control modules should be mounted in protective enclosures.	
Power Requirements:	24 Vac ± 10%, 26 Vdc (25 V min, 30 V max), 50 to 60Hz, 20VA. NOTE: Power consumption will increase when BACview or other accessories are attached.	
Physical:	Rugged aluminum cover. Removable screw terminal blocks.	
Weight:	0.6 lb. (0.27 kg).	
Dimensions:	<p>Overall</p> <p>Width: 8.3" (211mm)</p> <p>Height: 7" (178mm)</p> <p>Depth: 1.5" (38mm) min. panel depth</p>	<p>Mounting</p> <p>Width: 7.835" (199mm)</p> <p>Height: 5" (127mm)</p> <p>5" mounting hole spacing</p>

