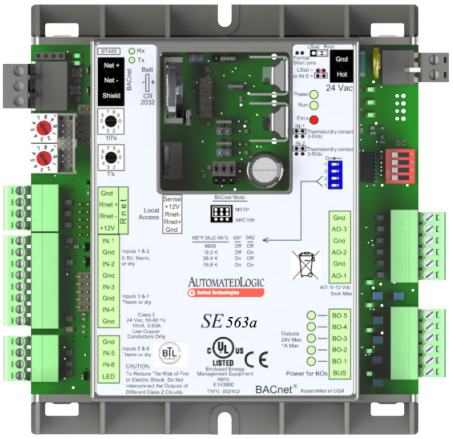
SE563a & SE563sp

Versatile Single Equipment Controllers



The Automated Logic® SE563 controllers are integral components of the WebCTRL® building automation system.

SE563 controllers are fully programmable, native BACnet Advanced Application Controllers (AAC) well suited for rooftop units, mechanical rooms, equipment closets or almost any other weather-tight location. Programmable using the EIKON® software graphic programming language, SE563 controllers use native BACnet communications over either a high-speed ARCNET 156 kbps network or an MS/TP network to provide maximum flexibility and interoperability.

Key Features and Benefits

Application Features

- Versatile controller suitable for a variety of applications, including roof top units, pumping systems and boilers
- Standard library of control programs available for most single 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
- Quick & easy test and balancing process

Hardware Features

- Controls up to 14 points (5 binary outputs , 6 inputs and 3 analog outputs)
- High-speed, native BACnet over ARC156 communications delivers high speed response when you need it
- Supports native BACnet over MS/TP communications when required
- 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 interfaces
- Battery-backed real-time clock keeps time in the event of power failure or network interruption

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.

SE563a & SE563sp Single Equipment Controllers

Specifications

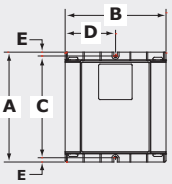
BACnet Support:	Conforms to the Advanced Application Controller (B-AAC) Standard Device Profile as defined in ANSI-ASHRAE Standard 135-2004 (BACnet) Annex L. Tested to Protocol Revision 9.
BACnet Port:	For communication with the controller network using ARC156 or MS/TP (9600 bps–76.8 kbps)
Rnet Port:	Supports: • ZS sensors • Equipment Touch **NOTE** Only ZS sensors can share the Rnet with an Equipment Touch.
Binary Outputs:	Five binary outputs, relay contact rated at 1 A max @ 24 Vac/Vdc. Configured normally open.
Analog Outputs:	Three analog outputs, 0–10 Vdc (5 mA max) at 8 bit D/A
Inputs:	Inputs 1 - 6 are configurable for thermistor or dry contact. 10 bit A/D resolution Inputs 1 and 2 are also configurable for 0–5 Vdc sensors. Inputs 5 and 6 are also configurable to connect a LogiStat sensor. All of these inputs support Pulse counting up to 10 pulses per second. Minimum pulse width (on or off time) required for each pulse is 50 msec.

Program Capabilities

Controller	Driver	Programs	Programmed with	BACnet Objects
SE563a	SE563a	2	EIKON® software	Up to 400 network visible BACnet objects
SE563sp	SE563sp	1	EIKON® software	Up to 300 network visible BACnet objects

Real-time Clock	Battery-backed real-time clock keeps track of time in event of power failure
Memory:	1 MB non-volatile battery-backed RAM, 4 MB Flash memory, 16-bit memory bus
Status Indicators:	LED status indicators for EIA-485 communication, running, error, power and all binary 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:	UL-916 (PAZX), cUL-916 (PAZX7), FCC Part 15-Subpart B-Class A, CE
Environmental Operating Range:	-0ºF to 130ºF (-17.8C to 54.4ºC); 10 to 90% relative humidity, non-condensing
Electrostatic Discharge (ESD) Protection:	• Level: 2 • Contact Discharge (kV): ±4 • Air-Gap Discharge (kV): ±4
Power Requirements:	24 Vac ± 10%, 50–60 Hz 18 VA power consumption (24 VA with BACview® device attached) 26 Vdc (25 V min, 30 V max) Single Class 2 source only, 100 VA or less
Physical:	Rugged GE C2950 Cycoloy plastic
Weight:	0.44 lbs. (0.20 kg)
Depth:	1-5/8 in. (4.1 cm)

Overall dimensions	A:	5-5/8 in. (14.3 cm)
	B:	5-1/8 in. (13 cm)
Mounting dimensions	C:	5-1/4 in. (13.3 cm)
	D:	2-9/16 in. (6.5 cm)
	E:	3/16 in. (.5 cm)



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