SE6166 AND SE6166SP

SINGLE EQUIPMENT CONTROLLERS

CONTROLLERS FOR THE WEBCTRL® BUILDING AUTOMATION SYSTEM

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 and equipment 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, helping operators troubleshoot and optimize system operation

Hardware Features

SE.616

 Controls up to 28 points (6 binary outputs, 16 universal inputs, and 6 analog outputs)

Automatec

- High-speed native BACnet over ARC156 communications delivers high speed response when you need it. Also supports BACnet over MS/TP communications
- Fast, powerful, and fully distributed control allows complete independence from any other devices in the system
- Firmware upgrades can be performed remotely
- Easy start-up and commissioning using the WebCTRL system user interface





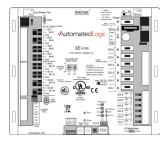
The WebCTRL building automation system gives you the ability to understand your building operations and analyze the results. Integrate environmental, energy, security and safety systems into one powerful management tool that helps you reduce energy consumption, increase occupant comfort, and achieve sustainable building operations.

SPECIFICATIONS



	Maria NO	
Part #	SE6166 and SE6166sp Single Equipment Controllers	
BACnet Conformance	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	
Power	24 Vac +/- 10%, 50 - 60 Hz, 20 VA (38.4 VA with a BACview [®] device attached) single Class 2 source only, 100 VA or less	
Communication		
BACnet Port	Communication with the controller network using ARC156 or MS/TP at 9,600 bps to 76.8 kbps	
Local Access Port	For system start-up and troubleshooting	
Rnet Port	12 VDC @ 210 mA supporting: -Up to 15 ZS wireless and/or ZS sensors (SE6166a); Up to 5 ZS wireless and/or ZS sensors (SE6166sp) -One Equipment Touch or OptiPoint™ equipment interface	
LogiStat Port	Supports LogiStat and LogiStat Plus zone sensors and uses 2 universal inputs	
Inputs		
Resolution	12 bit A/D	
Pulse Frequency	40 pulses per second. Minimum pulse width required for each pulse is 12.5 msec	
Outputs		
Resolution	8 bit A/D	
Analog Outputs	6 analog outputs, 0-10 Vdc or 0-20 mA selectable	
Digital Outputs	6 digital outputs, relay contacts rated at 3 A max @ 24 Vac. Configured normally open	
Program Capabilities	SE6166a: Driver - DRV_SE; BACnet Objects - up to 600; Programs - up to 5 SE6166sp: Driver - DRV_SESP; BACnet Objects - up to 400; Programs - 1	
Status Indicators	LED's indicate status of communications, running, errors, power, and digital outputs	
Microprocessor	High-speed 16-bit microprocessor with ARCnet communication co-processor	
Environmental Range	-20°F to 140°F (-29 to 60°C), 10–90% relative humidity, non-condensing. Should be mounted in a protective enclosure.	
Physical	Rugged aluminum cover, removable screw type terminal blocks	
Memory	1 MB non-volatile battery-backed RAM, 1 MB flash memory, 16-bit memory bus	
Battery	10-year Lithium CR2032 battery retains: time, control programs, editable properties, schedules and trends for a maximum of 10,000 hours during power outages	
Real Time Clock	Battery-backed real-time clock keeps track of time in the event of a power failure	
Compliance	United States: FCC compliant to Title CFR47, Part 15, Subpart B, Class A. UL Listed, File E143900; CCN PAZX, UL916, Energy Management Equipment; AS/NZS: RCM Mark 61000-6-3; Canada: UL Listed File E143900, CCN PAZX7, CAN/CSA C22.2 No. 205 Signal Equip., Industry Canada Compliant, ICES-003, Class A; CE Mark Compliant with 2014/30/EU, and RoHS Compliant: 2015/863/EU; UKCA Mark compliant with Electromagnetic Compatibility Regulations 2016 – Gov.UK and RoHS for Electrical and Electronic Equipment 2012.	
Protection	Built-in surge and transient protection for power and communications in compliance with EN-61000-6-1	
BT485 Connector	Attach a BT485 (not included) to a controller at the beginning and end of a network segment to add bias and to terminate a network segment	
Environmental Range Physical Memory Battery Real Time Clock Compliance Protection	 -20°F to 140°F (-29 to 60°C), 10–90% relative humidity, non-condensing. Should be mounted in a protective enclosure. Rugged aluminum cover, removable screw type terminal blocks 1 MB non-volatile battery-backed RAM, 1 MB flash memory, 16-bit memory bus 10-year Lithium CR2032 battery retains: time, control programs, editable properties, schedules and trends for a maxim 10,000 hours during power outages Battery-backed real-time clock keeps track of time in the event of a power failure United States: FCC compliant to Title CFR47, Part 15, Subpart B, Class A. UL Listed, File E143900; CCN PAZX, UL916, Ene Management Equipment; AS/NZS: RCM Mark 61000-6-3; Canada: UL Listed File E143900, CCN PAZX7, CAN/CSA C22.2 N 205 Signal Equip., Industry Canada Compliant, ICES-003, Class A; CE Mark Compliant with 2014/30/EU, and RoHS Comp 2015/863/EU; UKCA Mark compliant with Electromagnetic Compatibility Regulations 2016 – Gov.UK and RoHS for Elea and Electronic Equipment 2012. Built-in surge and transient protection for power and communications in compliance with EN-61000-6-1 Attach a BT485 (not included) to a controller at the beginning and end of a network segment to add bias and to terminate the second secon	

• Figure 1: Physical Dimensions



	in.	cm	
Width:	8.32	21.1	
Height:	7.0	17.8	
Depth:	1.5	3.8	
Weight:	1.05 lbs	0.48 kg	
Assembled in the United States			

Assembled in the United States



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