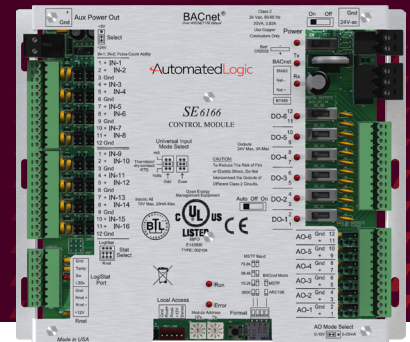


## SE6166

SINGLE EQUIPMENT CONTROLLER  
(UL 864, 10TH ED. COMPLIANT)



### Controllers for the WebCTRL® Building Automation System

The Automated Logic® SE controller is an integral component of the WebCTRL® building automation system. The SE controller is 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, the SE controller 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

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

## WebCTRL®

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.

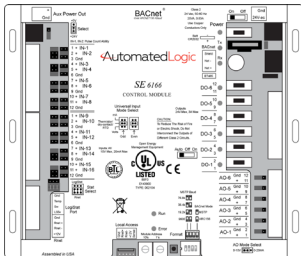


## Specifications

### Part # SE6166 Single Equipment Controller (UL 864, 10th Ed. Compliant)

|                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BACnet Conformance</b>                                                                                          | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Power</b>                                                                                                       | 24 Vac Nom (-15 to +10%), 50/60 Hz, 20 VA (38.4 VA with a BACview® device attached) single Class 2 source, 100 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Communication</b>                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>BACnet Port</b>                                                                                                 | Communication with the controller network using MS/TP, suggested use at 76.8 kbps for UL 864 use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Local Access Port</b>                                                                                           | For system start-up and troubleshooting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Rnet Port</b>                                                                                                   | 12 VDC @ 210 mA supporting: Up to 15 ZS wireless and/or ZS sensors; One Equipment Touch or OptiPoint™ interface<br><b>*Not to be used within a Smoke Control application</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>LogiStat Port</b>                                                                                               | Supports LogiStat and LogiStat Plus zone sensors and uses 2 universal inputs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Inputs - 16 inputs configurable for 0-10 Vdc, 0-20 mA, RTC, thermistor, or dry contact and 1 Logistat port.</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Resolution</b>                                                                                                  | 12 bit A/D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Pulse Frequency</b>                                                                                             | 40 pulses per second. Minimum pulse width (on or off time) required for each pulse is 12.5 msec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Outputs</b>                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Resolution</b>                                                                                                  | 8 bit A/D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Analog Outputs</b>                                                                                              | 6 analog outputs, 0-10 Vdc or 0-20 mA selectable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Digital Outputs</b>                                                                                             | 6 digital outputs, relay contacts rated at 3 A max @ 24 Vac. Configured normally open                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Program Capabilities</b>                                                                                        | SE6166a: Driver - DRV_SE; BACnet Objects - up to 600; Programs - up to 5<br>SE6166sp: Driver - DRV_SESP; BACnet Objects - up to 400; Programs - 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Status Indicators</b>                                                                                           | LED's indicate status of communications, running, errors, power, and digital outputs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Microprocessor</b>                                                                                              | High-speed 16-bit microprocessor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Environmental Range</b>                                                                                         | -20 to 140°F (-29 to 60°C), 10–90% relative humidity, non-condensing. Should be mounted in a protective enclosure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Physical</b>                                                                                                    | Rugged aluminum cover, removable screw type terminal blocks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Memory</b>                                                                                                      | 1 MB non-volatile battery-backed RAM, 1 MB flash memory, 16-bit memory bus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Battery</b>                                                                                                     | 10-year Lithium CR2032 battery retains the following data for a maximum of 10,000 hours during power outages: time, control programs, editable properties, schedules and trends                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Real Time Clock</b>                                                                                             | Battery-backed real-time clock keeps track of time in the event of a power failure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Compliance</b>                                                                                                  | <b>United States:</b> FCC compliant to Title CFR47, Part 15, Subpart B, Class A. UL Listed, File E143900; CCN PAZX, UL916, Energy Management Equipment, <b>UUKL</b> certified (UL864 10th edition compliant); <b>AS/NZS:</b> RCM Mark, IEC 61000-6-3; <b>Canada:</b> 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; <b>UKCA</b> Mark compliant with Electromagnetic Compatibility Regulations 2016 – Gov.UK and RoHS for Electrical and Electronic Equipment 2012, REACH Compliant |
| <b>Protection</b>                                                                                                  | Built-in surge and transient protection for power and communications in compliance with EN-61000-6-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>BT485 Connector</b>                                                                                             | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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 |