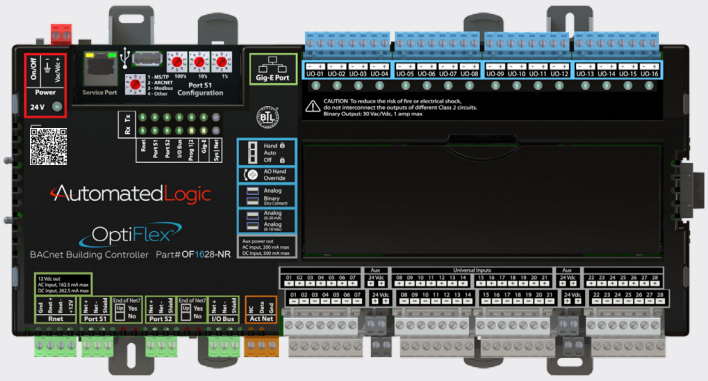
OptiFlex™ OF1628-NR

BACnet Building Controller

Automated Logic

Part# OF1628-NR



The Automated Logic® OptiFlex™ BACnet Building Controller model OF1628-NR is a high-performance, BACnet native direct digital controller. As a component of the WebCTRL® building automation system, this controller provides comprehensive control of connected equipment.

The OF1628-NR provides the speed, power, memory, and I/O flexibility needed for the most demanding control applications in the industry. Capable of controlling multiple pieces of HVAC equipment simultaneously, this robust BACnet controller can support complex control strategies.

Key Features and Benefits

Application Features

- Designed to address HVAC applications including complex central plants
- Graphically programmed through the EIKON® programming software, an object oriented tool that provides complete flexibility for any custom control sequence
- Supports Automated Logic communicating sensors, available in a variety of zone sensing combinations, and supports setpoint adjustment and occupancy overrides
- Enables live, visual displays of control logic, which uses real time operational data and aids in optimizing and troubleshooting system operations

BACnet Features

- BTL certified and conforms to the following device profiles:
  - BACnet Building Controller (B-BC)

System Benefits

- Connects seamlessly to the WebCTRL building automation system

Hardware Features

- Supports Gig-E, 1000 Mbps, BACnet IP and DHCP IP addressing
- Local Access Ethernet port at 100 Mbps for system start-up and troubleshooting
- Supports up to 9 FIO expanders in panel configuration or remotely mounted for scalable solutions (224 I/O total)
- Provides direct connect for power and communication for up to 7 FIO expansion modules when using a DC power supply
- All programs and historical data stored in non-volatile memory, eliminating the need for batteries
- Capacitor-backed real-time clock keeps time in the event of power failure or network interruption for up to three days
- Communications expansion port for future communication option cards
- Supports 200 Modbus points for system integrations
- Supports up to 16 Act Net communicating devices
- USB port for local device updates
- DIN rail or screw mounting

WebCTRL®

The WebCTRL® 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 allows you to reduce energy consumption, increase occupant comfort, and achieve sustainable building operations.

AUTOMATED LOGIC
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WE MAKE BUILDINGS BETTER.
Next level building automation engineered to help you make smart decisions.

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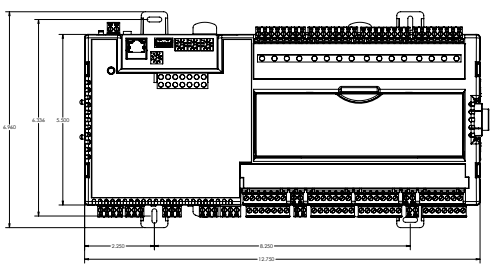
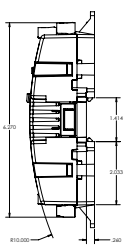
BACnet Conformance	Conforms to the BACnet Building Controller (B-BC) Standard Device as defined in BACnet 135-2001 2012 Annex L and tested to Protocol Revision 14.
Control Program Execution	Maximum number of control programs: 999 depending upon available memory.
BACnet Objects	Maximum number of BACnet objects: 12,000 depending upon available memory.
Universal Inputs	28 channels electronically configured to any of the following input types: Dry Contact OR Pulse Counting inputs up to 40Hz OR Voltage (0-10 Vdc) OR Current (0-20 mA) OR Thermistor Precon Type II 10kΩ OR Precon Type III 10kΩ OR Carrier YSI 5kΩ OR S-5700-850 10kΩ w/ 11kΩ shunt RTD Platinum RTD TS-8000 1kΩ @ 32°F (0.00385 TCR) OR Platinum RTD 1kΩ @ 32°F (0.00375 TCR) OR Nickel-iron RTD 1kΩ @ 70°F, 699 Ω @ -40°F OR Balco (Nickel-iron) TS8000 RTD 1kΩ @ 70°F, 779 Ω @ -40°F 24VDC auxiliary output 200mA max. (AC power input) 500 mA max. (DC power input)
Universal Outputs	D/A Resolution (analog out) 12 bits; 16 channels configurable to any of the following output types: Voltage (0-10 Vdc) OR Current (0-20 mA) OR Relay contacts, potential free, normally open, rated 24VAC/DC @ 1 Amp (resistive) Hand/Auto/Off override switches for all outputs Potentiometer for manual adjustment of all analog outputs Status LED for all outputs
Third-party integration	Supports up to 1,500 third-party BACnet points, and 200 Modbus points depending upon available memory.
Power	24 ±Vac 10%, 50–60 Hz, 100 VA | 26 Vdc ±10%, 48 W
Gig-E port	10/100/1000 BaseT Ethernet port for BACnet/IP and/or BACnet/Ethernet and/or Modbus TCP/IP communication on the Ethernet at 10, 100, or 1000 Mbps, full duplex
Serial port 1	For communication with either of the following: • A BACnet ARCNET network at 156000 bps • A BACnet MS/TP network at 9600 to 115200 bps • A Modbus network at 9600 to 115200 bps
Serial port 2	For communication with a BACnet MS/TP network at 9600 to 115200 bps or Modbus network at 9600 to 115200 bps
Service port	Ethernet port at 10 or 100 Mbps for system start-up and troubleshooting
Rnet Port	Supports Communicating ZS Sensors, OptiFlex™ and OptiPoint™ devices
I/O Bus Port	Supports up to 9 FIO expanders
Mounting	DIN rail mounting or screw mounting
Physical	Fire-retardant plastic ABS, UL94-5VA
Weight	1 lb. 1 oz. (0.482kg)
Recommended Panel Depth	2 3/4" (7cm)

Compliance

United States of America: FCC compliant to Title CFR47, Chapter 1, Subchapter A, Part 15, Subpart B, Class A;
UL Listed to UL 916, PAZX, Energy Management Equipment
Europe: Mark EN50491-5-2:2009; Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light industry environment; EN50491-3:2009, Part 3: Electrical safety requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS);
Low Voltage Directive: 2014/35/EU
RoHS Compliant: 2011/65/EU
ANZ: C-Tick Mark AS/NZS 61000-6-3
Canada: Industry Canada Compliant, ICES-003, Class A cUL Listed UL 916, PAZX, Energy Management Equipment





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