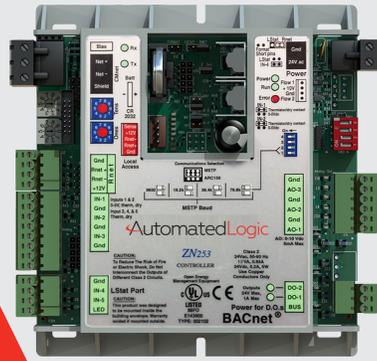


ZN253 ZONE CONTROLLER

ZONE CONTROLLER



Automated
Logic

CONTROLLER FOR THE WEBCTRL® BUILDING AUTOMATION SYSTEM

The ZN253 is a fully programmable, native BACnet Advanced Application Controller (AAC) designed for controlling a single zone in a building. The ZN253 is well suited for unit ventilator and packaged HVAC applications that require multiple analog outputs for modulating valves or dampers. It communicates on an EIA-485 LAN using BACnet MS/TP communication and connects seamlessly to the WebCTRL building automation system.

KEY FEATURES AND BENEFITS

Application Features

- Versatile controller suitable for a variety of applications, including fan coil units, lighting, and exhaust fan control
- Standard library of control programs available for most zoning 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 OptiPoint™ touchscreen interfaces for managing and troubleshooting the connected equipment easily and for occupant engagement
- Supports live, visual displays of control logic, helping operators troubleshoot and optimize system operation
- Quick and easy test and balancing process

Hardware Features

- Controls up to 10 points (2 binary outputs, 5 universal inputs and 3 analog outputs)
- Supports native 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 startup and commissioning using the WebCTRL system user interfaces

System Benefits

- Connects seamlessly to the WebCTRL system
- Supports demand limiting and optimal start for maximum energy savings



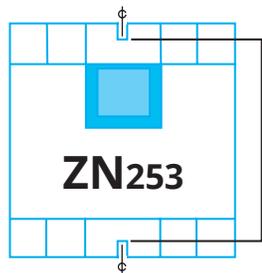
WebCTRL®

The WebCTRL building automation system gives you the ability to understand your building operations and analyze the results. 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 #	ZN253 Zone Controller
BACnet Conformance	BTL Tested and conforms to the BACnet Advanced Application Controller (B-AAC) standard device profile, as defined in BACnet 135-2012 Annex L, Protocol Revision 9. Please see BTL listing page for details.
Power	24 Vac +/- 10%, 50 - 60 Hz, 12 VA 26 Vdc (25 V min, 30 V max)
Communication	
BACnet Port	Communication with the controller network using MS/TP (9,600 bps)
Rnet Port	12 Vdc @ 210 mA supporting: -Up to 5 wireless and/or ZS sensors - freely mix ZS zone, ZS duct, ZS immersion and ZS outdoor sensors -One Equipment Touch or OptiPoint display
LStat Port	For Logistat and LogiStat Plus zone sensors. Uses 2 universal inputs.
Local Access Port	For system startup and troubleshooting
Flow Sensor Port	Provides flow inputs for a USF or UDF flow sensor
Inputs	
Universal	5 inputs with 10-bit A/D resolution configurable for thermistor or dry contact
Pulse Frequency	10 pulses per second. Minimum pulse width (on or off time) required for each pulse is 50 msec.
Outputs	
Analog Output	3 analog outputs, 0 - 10 Vdc (5 mA max) with 8-bit D/A resolution
Digital Output	2 digital outputs, relay contacts rated at 1 A max @ 24 Vac/Vdc. Configured normally open.
Status Indicators	LED's indicate status of communications, running, errors, power, and digital outputs
Environmental Range	0 to 130°F (-17.8 to 54.4°C), 10-90% relative humidity, non-condensing
Memory	512kb non-volatile memory battery-backed RAM, 1 MB flash memory, 16-bit memory bus
Battery	10-year Lithium CR2032 battery retains the following data for a maximum of 10,000 hours during power outages: control programs, editable properties, schedules, and trends
Protection	Built-in surge and transient protection for power and communications in compliance with EN61000-6-1
Compliance	United States: FCC compliant to Title CFR47, Part 15, Subpart B, Class A; AS/NZS: RCM Mark, IEC 61000-6-3; Canada: UL916 (PAZX) cUL-916 (PAZX7); 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 2015, 863, eU, REACH compliant
Plastic Rating	Rugged GE C2950 Cycloy plastic
BT485 Connector	Attach a BT485 (not included) to a controller at the beginning and end of a network segment to add bias and terminate a network segment.

• **Figure 1: Physical Dimensions**



Mounting hole spacing 5-5/16".

Mounting:
2 mounting holes center line
with 5.31 in. spacing

*For indoor use only.

	in.	cm
Width:	5.06	12.9
Height:	5.69	14.4
Weight:	0.6 lbs	0.27 kg

Assembled in the United States

