

Stand-Alone Controller

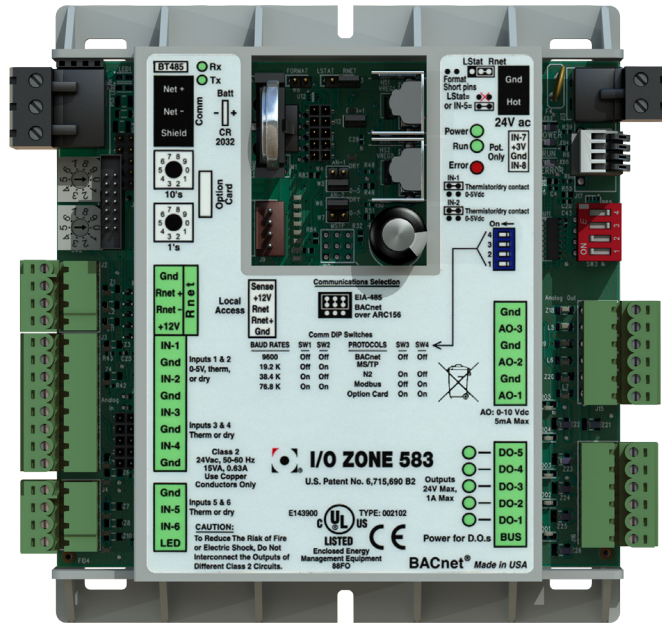
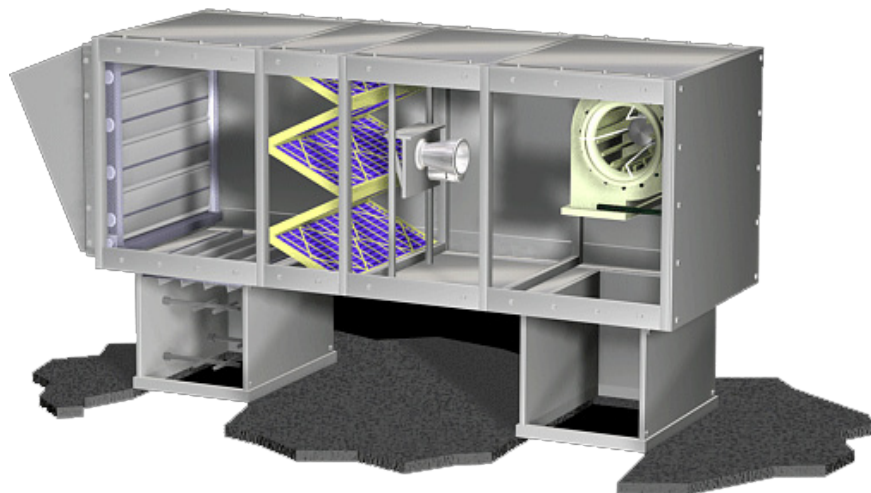
OEMCtr's I/O Zone 583 controller delivers powerful control and communications features all in a compact, economical package. Highly flexible, yet easy-to-use programming tools allow customization for a wide variety of small equipment applications. Fully capable of operating in a 100% stand-alone control mode, the I/O Zone 583 can connect to a Building Automation System (BAS) using any of today's most popular protocols, such as BACnet, Modbus, N2, and LonWorks. The I/O Zone 583 also supports communication to OEMCtr's line of intelligent space sensors and keypad/display units.

Key Features and Benefits

- I/O point count: 5 digital outputs (relayed), 8 inputs (6 universal and 2 for optional adjustment POTS), and 3 analog outputs.
- Built-in protocol support: BACnet (ARC156 and MS/TP), Modbus RTU, and N2. Protocols and baud rates are DIP switch selectable.
- LonWorks optional plug-in communications boards
- On-board battery-backed real-time clock is standard, thus enabling full stand-alone scheduling capabilities, as well as historical trend data storage, and alarm event time-stamping.
- Custom-programmable using our powerful Eikon graphic programming tool. Eikon allows you to create graphic logic sequences for your application, which can be fully simulated off-line (with Eikon's simulation tool), and graphically viewable live on your equipment - the ultimate diagnostic tool.
- Powerful, high-speed 16-bit processor with 1MB Flash memory and 512 KB of battery-backed RAM - plenty of room for even demanding and complex applications. Software modifications or upgrades can be downloaded locally or remotely - no chip replacements necessary.
- Local laptop computer access ports provided on both the I/O Zone 583 and the intelligent RS series sensors, which enable full diagnostic and configuration capabilities.

Application

Whether it's heat pumps, fan coils, or small rooftop units, the I/OZone family of controllers provides a lot of power in a small footprint. Now, even on small applications, you can have customized control sequences and with built in multi-protocol support; simplified integration into the BAS (Building Automation System), while staying competitive from a cost standpoint.



I/O Zone 583

OEMCtr®

Specifications

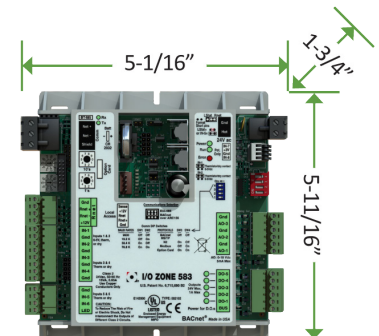
Power	24 Vac \pm 10%, 50-60 Hz, 18 VA power consumption (24 VA with BACview attached), 26 Vdc (25 V min, 30 V max), Single Class 2 source only, 100 VA or less
Physical	Rugged GE C2950 Cyclopol plastic
Operating Range	-0° to 130°F (-18.5° to 54.4°C); 10 to 90% relative humidity, non-condensing
Digital Outputs	5 digital outputs, relay contacts rated at 1 A resistive @ 24 Vac, configured as dry contact, normally open
Analog Outputs	3 analog outputs, rated as 0-10 Vdc, 5mA (max). 8 bit D/A resolution
Universal Inputs	8 universal inputs. Inputs 1-6 configurable as thermistor or dry contact; inputs 1 and 2 also configurable as 0-5 Vdc type inputs; inputs 7 and 8 are reserved to use with 1k-10 kohm adjustment potentiometers. Resolution of 10 bit A/D.
Communication Ports	<p>Port 1: Jumper configurable for ARCNET or EIA-485 communication. In ARCNET mode, the port speaks BACnet (at 156k bps). In EIA-485 mode, the communication protocol and baud rate desired are DIP switch selectable between BACnet MS/TP, Modbus RTU, or N2.</p> <p>Rnet port: Interface with a BACview⁵, BACview⁶, RS sensors, or local laptop.</p>
Optional Card Port	LonWorks Option Card for connection to Free Topology LON networks (TP/FT-10 Channel)
Status Indication	Visual (LED) status of serial communication, running, errors, power, and all digital outputs
Battery	Battery CR123A has a life of 10 years with 720 hours of cumulative power outage
Protection	Built-in surge transient protection circuitry. Module protected by internal solid state Polyswitches on incoming power and network connections. Polyswitches do not need to be replaced as they will reset themselves once the condition that caused them to "trip" returns to normal.

Listed by

FCC Part 15 - Subpart B - Class A. Pending listings at the time of publishing this document: UL 916 (PAZX), cUL C22.2 No. 205-M1983 (PAZX7), CE (1997).
 BTL (BACnet Test Labs) - BACnet Advanced Application Controller (B-AAC)
<http://www.bacnetinternational.net/btl/index.php?m=47>



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