

VLC-16160

Features and highlights

- **Capable**
Sixteen 10-bit universal inputs and sixteen binary outputs.
- **Interoperable**
Fully BACnet-compliant on MS/TP LAN at up to 76.8 Kbps.



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- **Versatile**
Fully programmable control logic can be field-modified.
- **Reliable**
AZ60 processor and extensive on-board filtering, with all program data backed up in nonvolatile flash memory.
- **Fast**
Internal logic loop of 100 msec.



The Alerton® BACtalk® VLC-16160 is a high-performance, fully programmable logic controller designed for central plant systems, lighting panels, and other applications with numerous control points. As a native BACnet controller, the VLC-16160 integrates seamlessly with your BACnet system, communicating at up to 76.8 Kbps on a BACnet MS/TP LAN. It can also operate as a stand-alone controller.

The VLC-16160 supports the Alerton Microset™, Microset II, and Microtouch™ intelligent wall sensors, which offer convenient data display, setpoint adjustment, and technician access to equipment setup parameters.

All VLC-16160 control logic is programmed with Alerton's easy-to-learn graphical programming language, VisualLogic®. Programming and setup data are stored in nonvolatile flash memory, ensuring stable and reliable operation.

The VLC-16160 is built for high-speed processing, with an internal logical loop time of 100 msec. Programmable timers also maintain a resolution of 100 msec. High-resolution, 10-bit analog inputs are software configurable to accept thermistor, dry contact, 1–5 VDC, or 4–20 mA signals.

Technical Data

- **Power** 24 VAC @ 20 VA min., plus binary output loads (220 VA max.). Utilizes a half-wave rectifier, which allows a single transformer to power multiple VLCs. One leg of 24 VAC connects to earth (panel) ground.
- **Inputs** 16 inputs with 10-bit resolution. Input 0 can be used for a BACtalk Microset. All inputs are software configurable to accept thermistor/dry contact, 1–5 VDC, or 4–20 mA signals.
- **Binary Outputs** 16 outputs, each rated at 24 VAC, 0.47 A. The outputs utilize hot-switched triacs, which have a common connection to the fused 24 VAC supply.
- **24VDC Output** Up to 100 mA of 24 VDC power is provided to power transducers or other devices.
- **Processor & Memory** Motorola AZ60 processor with on-board flash memory. Flash memory provides nonvolatile program and data storage, and allows for encrypted updates to the program for future product enhancements.
- **Max. Dimensions** 6.98" (178mm)H x 4.85" (124mm)W x 1.50" (39mm)D.
- **Terminations** Removable header-type screw terminals accept 14–24 AWG wire.
- **Environmental** 0–158 deg. F (-17–70 deg. C). 0–95% RH, non-condensing.
- **Communications** BACnet MS/TP LAN up to 76.8 Kbps.
- **BACnet Conformance** ASC level device; tested and approved by BTL. See Protocol Implementation Conformance Statement (PICS).
- **Ratings**

Listed Underwriters Laboratory for Open Energy Management Equipment (PAZX) under the UL Standard for Safety 916; listing includes both U.S. and Canadian certification

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EMC Directive 89/336/EEC (European CE Mark)

FCC Part 15, Subpart J, Class A