

## Features and highlights

- Capable**  
 Six universal 10-bit inputs, three binary triac outputs, and three binary high-current relay outputs.
- Interoperable**  
 Fully BACnet-compliant on MS/TP LAN at up to 76.8 Kbps.



BACnet is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of third-party products to requirements of ASHRAE Standard 110 is the responsibility of the BACnet Manufacturers Association (BMA). BTL is a registered trademark of the BMA.

- Versatile**  
 Fully programmable for fan-coil, unit ventilator, and other multi-speed fan or motor applications.
- 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-660R is a versatile, fully programmable BACnet-compliant field controller. With three software-controlled high-current relays, the VLC-660R is well suited for unit ventilator and fan-coil applications, or any application that requires multi-speed fan or motor control. As a native BACnet controller, it integrates seamlessly with your BACnet system, communicating on a BACnet MS/TP LAN at up to 76.8 Kbps.

The VLC-660R supports the Alerton Microtouch™, as well as the Microset™ and Microset II intelligent wall sensors, which offer convenient data display, setpoint adjustment, and technician access to equipment setup parameters.

The VLC-660R 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 universal inputs are software configurable to accept various input types.



## Technical Data

- **Power** 24 VAC @ 10 VA min., plus binary output loads (40 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** 6 universal inputs with 10-bit resolution. Input 0 can be used for a BACtalk Microset or Microset II.
- **Binary Outputs** 3 hot-switched triac outputs, which have a common connection to the fused 24 VAC supply. Rated 24 VAC, 0.5 A.  
  
3 independently isolated, normally open relay outputs. Motor load rating: 120 VAC 3/4 HP–277 VAC 3/4 HP. General purpose rating: 120 VAC @ 15 A; 240/277 VAC @ 10 A.
- **24VDC Output** Uncontrolled output to provide up to 100 mA of 24 VDC power for 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** 4.9" (125mm)H x 5.5" (140mm)W x 1.4" (36mm)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  
Suitable for plenum mounting  
EMC Directive 89/336/EEC (European CE Mark)  
FCC Part 15, Subpart J, Class A

Specifications subject to change without notice