

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 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).



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

- **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

Ordering information

Item number	Description
VLC-660R	BACtalk field controller for unit ventilator, fan-coil and multi-speed motor applications
VLC-660R-C	VLC-660R field controller with available custom DDC

Specifications subject to change without notice