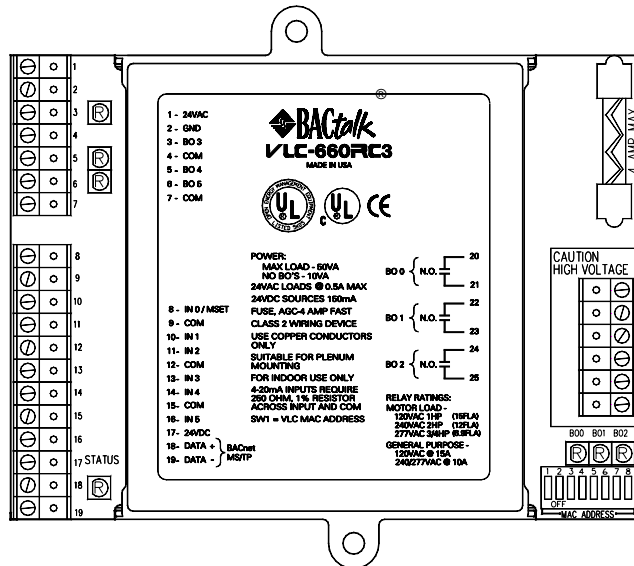




VLC-660RC3

Programmable VisualLogic® Controller



Features & Application Highlights

- **Capable** Six 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.
- **Versatile** Fully programmable for fan-coil, unit ventilator and other multi-speed fan or motor applications.
- **Reliable** Extensive onboard filtering, with all program data backed up in non-volatile EEPROM.
- **Fast** Internal logic loop of 100 msec.

The Alerton® BACtalk® VLC-660RC3 is a high-performance, fully programmable logic controller. With three software controlled high-current relays, it's the perfect choice for unit ventilator and fan-coil applications, or for any application that requires multi-speed fan or motor control.

The VLC-660RC3 is part of Alerton's complete BACtalk product line in total compliance with ANSI/ASHRAE Standard 135-1995, BACnet. As a native BACnet controller, it requires no proprietary chip sets to integrate seamlessly with your BACnet system.

The VLC-660RC3 communicates using the standard BACnet protocol on a BACnet MS/TP LAN, which operates at up to 76.8 Kbps. The VLC-660RC3 can also operate as a stand-alone controller. Its design includes support for Alerton's BACtalk Microset™, an intelligent wall sensor unit offering convenient data display and setpoint adjustment.

All VLC-660RC3 control logic is programmed with Alerton's easy-to-learn graphical programming language, VisualLogic. This self-documenting software's complete

function library enables you to implement entirely flexible control strategies. A single VLC-660RC3 can contain numerous algorithm loops that control various parts or multiple pieces of equipment. Non-volatile EEPROM stores all program data.

The VLC-660RC3 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, 0-5 VDC or 4-20 mA signals.

CMOS circuitry, a four layer circuit board with separate ground plane, and extensive hardware, software, and power-supply filtering ensure reliable and stable operation. The CMOS processor uses an internal watchdog, and power supply voltage is monitored to provide automatic shutdown and data backup.

Product Number

VLC-660RC3

VLC-660RC3 SPECIFICATIONS

Power 24 VAC @ 10 VA min., plus binary output loads (50 VA max). Utilizes a half-wave rectifier, which allows multiple VLCs to be powered from a single transformer. One leg of 24 VAC connects to earth (panel) ground.

Inputs 6 inputs with 10-bit resolution. Input 0 can be used for a BACtalk® Microset™. Inputs are software selectable for thermistor/dry contact, 0–5 VDC or 4–20 mA signals.

Binary Outputs

Three Triac 3 hot-switched triac outputs, which have a common connection to the fused 24 VAC supply. Rated 24 VAC, 0.5 A.

Three Relay 3 independently isolated, normally open relay outputs. Motor load rating: 120 VAC 1 HP (15 FLA); 240 VAC 2 HP (12 FLA); 277 VAC 3/4 HP (6.9 FLA). General purpose rating: 120 VAC @ 15 A; 240/277 VAC @ 10 A.

24VDC Output Up to 150 mA of 24 VDC power is provided to power transducers or other devices.

Processor Motorola CMOS processor with ROM and RAM.

EEPROM Provides non-volatile program and data storage.

Max. Dimensions 4.9" (125mm) H X 5.50" (140mm) W X 1.4" (36mm) D.

Terminations Removable header-type screw terminals accept 14–24 AWG wire.

Environmental 32–158°F (0–70°C). 0–95% RH, non-condensing.

Communications BACnet MS/TP LAN up to 76.8 Kbps.

BACnet Conformance Conformance Class 3. See Protocol Implementation Conformance Statement (PICS).

Ratings

- Listed Underwriters Laboratory for Open Energy Management Equipment (PAZX) under the UL Standard for Safety 916.
- EMC Directive 89/336/EEC (European CE Mark).
- FCC Part 15, Subpart J, Class A.

Specifications subject to change without notice.

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