

## Features and highlights

- **Capable**  
Five 10-bit inputs and five binary outputs.
- **Interoperable**  
BACnet-compliant on MS/TP LAN at up to 76.8 Kbps.



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- **Versatile**  
Fully programmable for heat pumps, air-conditioning units, and general purpose control applications
- **Reliable**  
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-550 is a versatile, high-performance, BACnet-compliant field controller designed for heat pumps, AC units, and other terminal unit applications. As a native BACnet controller, the VLC-550 integrates seamlessly with your BACnet system. It communicates at up to 76.8 Kbps on a BACnet MS/TP LAN or can operate as a stand-alone controller.

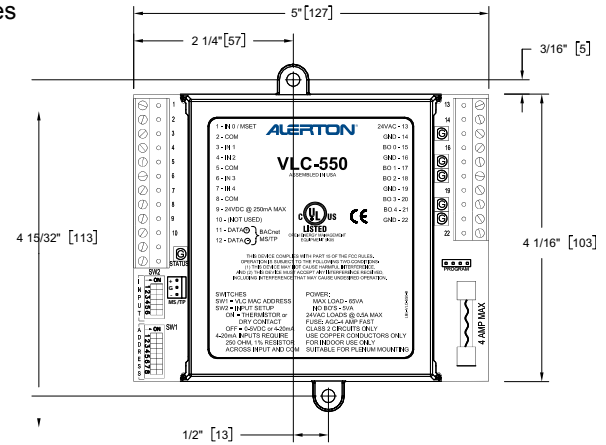
All VLC-550 control logic is programmed with Alerton's easy-to-learn graphical programming language, VisualLogic®. Programming and setup data is stored in nonvolatile flash memory, ensuring stable and reliable operation. The VLC-550 supports the Alerton Microset™ and Microset II intelligent wall sensors, which offer convenient data display, setpoint adjustment, and technician access to equipment setup parameters.

The VLC-550 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 field-adjustable for thermistor/dry contact or 0–5 VDC/4–20 mA . For equipment monitoring, an on-board LED for each binary output indicates ON/OFF status, and a separate LED indicates communication activity on the MS/TP LAN.

## Technical Data

- **Power** 24 VAC @ 5 VA min., plus binary output loads (65 VA max.). Utilizes a half-wave rectifier, which enables a single transformer to power multiple VLCs. One leg of 24 VAC connects to earth (panel) ground.
- **Inputs** 5 inputs with 10-bit resolution. Input 0 can be used for a BACtalk Microset. Inputs 1–4 are switch-selectable for thermistor/dry contact or 0–5 VDC/4–20 mA signals.
- **Binary Outputs** 5 outputs, each rated at 24 VAC, 0.5 A. The outputs utilize hot-switched triacs, which have a common connection to the fused 24 VAC supply.
- **24VDC Outputs** Up to 250 mA of 24VDC 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** 4.9" (125mm)H x 5.00" (127mm)W x 1.4" (36mm)D.

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

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

- **Communications** BACnet MS/TP LAN up to 76.8 Kbps.

- **BACnet Conformance** An application specific controller (ASC); 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

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

FCC Part 15, Subpart J, Class A

Specifications subject to change without notice