Features and highlights

- **Capable**
  Sixteen 10-bit universal inputs.

- **Interoperable**
  Fully BACnet-compliant on MS/TP LAN at up to 76.8 Kbps.

- **Versatile**
  Fully programmable control logic can be field-modified.

- **Reliable**
  AZ60 processor, with all program data backed up in nonvolatile flash memory.

- **Fast**
  Internal logic loop of 100 msec.

The Alerton® BACtalk® VLC-1600 is a high-performance, fully programmable input monitoring device. With 16 high-resolution inputs, it is perfectly suited for applications with high input density, where it can augment the input capabilities of other controllers. The VLC-1600 has no control outputs. 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.
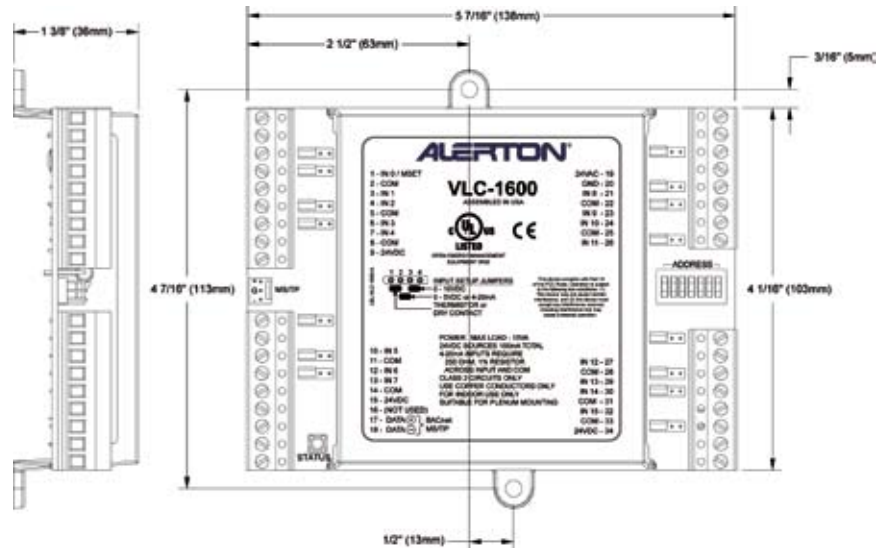
The VLC-1600 supports the Alerton Microtouch™ as well as the Microset™ and Microset™ II intelligent wall sensors, which offer convenient data display, setpoint adjustment, and technician access to equipment setup parameters.

All VLC-1600 control logic is programmed with Alerton's easy-to-learn graphical programming language, VisualLogic®. An AZ60 processor provides powerful operation, and nonvolatile flash memory stores all program data.

The VLC-1600 is built for high-speed processing, with an internal logical loop time of 100 msec. Programmable timers also maintain a resolution of 100 msec. The VLC-1600 supports pulse-type inputs, and high-resolution, 10-bit analog inputs are jumper-configurable to accept thermistor, dry contact, 0–5 VDC/4–20 mA signals and 0–10 VDC input signals.

Technical Data

- **Power** 24 VAC @ 10 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. Inputs 1–15 are jumper-configurable for thermistor/dry contact, 0–5 VDC/4–20 mA signals or 0–10 VDC signals. Inputs 1–3 accept pulse inputs.

- **24VDC Output** 3 terminals provide up to 100 mA (total) of 24 VDC 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** 4.90" (125mm)H x 5.45" (138mm)W x 1.40" (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** An application specific controller (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

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

  FCC Part 15, Subpart J, Class A

Ordering Information

Item number	Description
VLC-1600	BACtalk field controller with 16 inputs
VLC-1600-C	VLC-1600 field controller with available custom DDC

Specifications subject to change without notice