

Features and highlights

- **Capable**
Eleven 10-bit universal inputs, eight binary outputs, and eight analog outputs.
- **Interoperable**
Fully BACnet-compliant on MS/TP LAN at up to 76.8 Kbps.



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- **Versatile**
Fully programmable and capable of stand-alone operation.
- **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-1188 is a versatile, fully programmable logic controller designed for central plant systems, air handling units, clean rooms, fume hoods, large terminal units, and similar control and process equipment. 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.

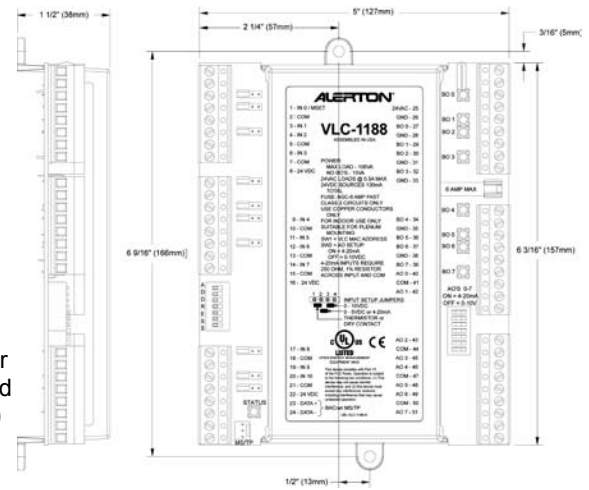
The VLC-1188 supports the Alerton Microtouch™, as well as the Microset™ and Microset II intelligent wall sensors, which offer convenient data display, setpoint adjustment, and technician access to equipment setup parameters.

All VLC-1188 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.

High-resolution 10-bit analog inputs are field-adjustable for thermistor/dry contact, 0–5 VDC/4–20 mA, or 0–10 VDC. Analog outputs are switch-selectable for 4–20 mA or 0–10 VDC.

Technical Data

- **Power** 24 VAC @ 20 VA min., plus binary output loads (110 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** 11 universal inputs with 10-bit resolution. Input 0 can be used for a BACtalk® Microset™ or Microset II. Inputs 1–10 are jumper-selectable for thermistor/dry contact, 0–5 VDC/4–20 mA., or 0–10 VDC signals.
- **Binary Outputs** 8 outputs each rated at 24 VAC, 0.5A. The outputs utilize optically coupled triacs, which have a common connection to the fused 24 VAC supply.
- **Analog Output** 8 outputs with 8-bit resolution. Each is switch-selectable for 0–10 VDC or 4–20 mA. 4–20 mA outputs are sourced by the VLC. Connected loads must return to the VLC ground. 4–20 mA max. load resistance is 1,000 ohm. 0–10 VDC min. load resistance is 500 ohm.
- **24VDC Output** Up to 100 mA of 24 VDC 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.
- **Dimensions** 6.98" (177mm)H x 5.0" (127mm)W x 1.5" (38mm)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 76.8Kbps.
- **BACnet Conformance** B-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

Suitable for plenum mounting

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

FCC Part 15, Subpart J, Class A



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Ordering Information

Item number	Description
VLC-1188	BACtalk field controller for central plant systems application with 11 inputs, 8 binary triac outputs, 8 analog outputs
VLC-1188-C	VLC-1188 field controller with available custom DDC

Specifications subject to change without notice