

Features and highlights

- **Capable**
Four universal inputs, four binary outputs and four analog outputs.
- **Interoperable**
BACnet-compliant on MS/TP LAN at up to 76.8 Kbps.
- **Versatile**
Fully programmable for fan-coil units, VFDs and small packaged air conditioning units, and any application requiring a group of four or less analog outputs, such as a group of VFDs or actuators (i.e., dampers and valves).
- **Reliable**
Extensive on-board filtering, with all program and configuration data backed up in nonvolatile flash memory.
- **Fast**
Internal logic loop of 100 msec.



The Alerton® BACtalk® VLC-444 is a versatile, high-performance, BACnet-compliant field controller designed for fan-coil units. As a native BACnet controller, the VLC-444 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.

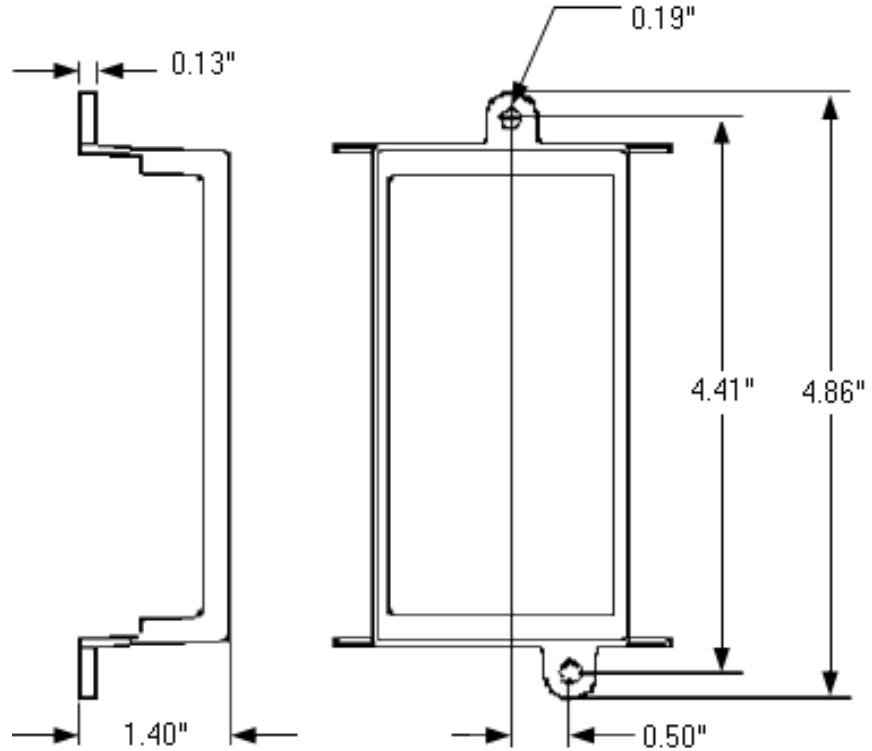
All VLC-444 control logic is programmed with Alerton's easy-to-learn graphical programming language, VisualLogic®. Programming and setup data is stored in nonvolatile flash memory, ensuring stable and reliable operation. The VLC-444 supports the Alerton Microset II intelligent wall sensor, which offers convenient data display, setpoint adjustment, and technician access to equipment setup parameters.

The VLC-444 is built for high-speed processing, with an internal logical loop time of 100 msec.

High-resolution, 12-bit universal auto-sensing inputs for thermistor/dry contact or 0–10 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 at 5 VA minimum, plus binary output loads (53 VA maximum). Utilizes a half-wave rectifier. 20 VDC supply at 100 mA is provided at the terminal block to power external 4–20 mA sensors.
- **Inputs** 4 universal inputs with 12-bit resolution. Input 0 can be used for a BACtalk Microset II. Inputs 0–3 are auto-sensing for thermistor/dry contact or 0–10 VDC/4–20 mA signals.
- **Binary Outputs** 4 outputs, each rated at 24 VAC, 0.5 A. The outputs utilize hot-switched triacs, which have a common connection to the 24 VAC supply.
- **Analog Outputs** 4 outputs with 12-bit resolution. Each is auto-sensing 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 550 ohms. 0–10 VDC; min. load resistance is 1,000 ohms.
- **Processor & Memory** ARM7 processor with on-board flash memory. Flash memory provides nonvolatile program and data storage, and allows for firmware (ROC) updates to the program for future product enhancements.
- **Max. Dimensions** 4.86" (125mm) H x 5.00" (127mm)W x 1.41" (36mm)D.
- **Terminations** Removable header-type screw terminals accept 14–24 AWG wire.



- **Environmental** -40–150 deg. F (-40-65.5 deg. C). 5–95% RH, non-condensing.
- **Communications** BACnet MS/TP LAN up to 76.8 Kbps.
- **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

Ordering information

Item number	Description
VLC-444	Field controller with 4 universal inputs, 4 binary outputs and 4 analog outputs
VLC-444-C	VLC-444 field controller with available custom DDC

Specifications subject to change without notice