



Alerton® BACtalk® VLC-444e

The Alerton® BACtalk® VLC-444e is a versatile, high-performance, BACnet compliant field controller designed for fan-coil units. As a native BACnet controller, the VLC-444e integrates seamlessly with your BACnet system. It communicates at up to 115.2 Kbps on a BACnet MS/TP LAN or can operate as a stand-alone controller.

All VLC-444e 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-444e supports the Alerton Microset family of intelligent wall sensors, which offer convenient data display, setpoint adjustment, and technician access to equipment setup parameters.

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

High-resolution, 12-bit universal auto-sensing inputs for thermistor/dry contact or 0–10VDC/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.

FEATURES AND HIGHLIGHTS

CAPABLE

- Four universal inputs, four binary outputs and four analog outputs.

INTEROPERABLE

- BACnet-compliant on MS/TP LAN at up to 115.2 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 input noise filtering, with all program and configuration data backed up in nonvolatile flash memory.

FAST

- Internal logic loop of 100 msec.

TECHNICAL DATA

POWER

- 24 VAC at 5 VA minimum, plus binary output loads (53 VA maximum). Utilizes a half-wave rectifier. 20VDC 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 Alerton Microset. Inputs 0–3 are auto-sensing for thermistor/dry contact or 0–10VDC/4–20 mA signals.

BINARY OUTPUTS

- 4 outputs, each rated at 24VAC, 0.5 A. The outputs utilize hot-switched triacs, which have a common connection to the 24VAC supply.

ANALOG OUTPUTS

- 4 outputs with 12-bit resolution. Each is autosensing for 0–10VDC 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. 0–10VDC; 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 115.2 Kbps.

RATINGS

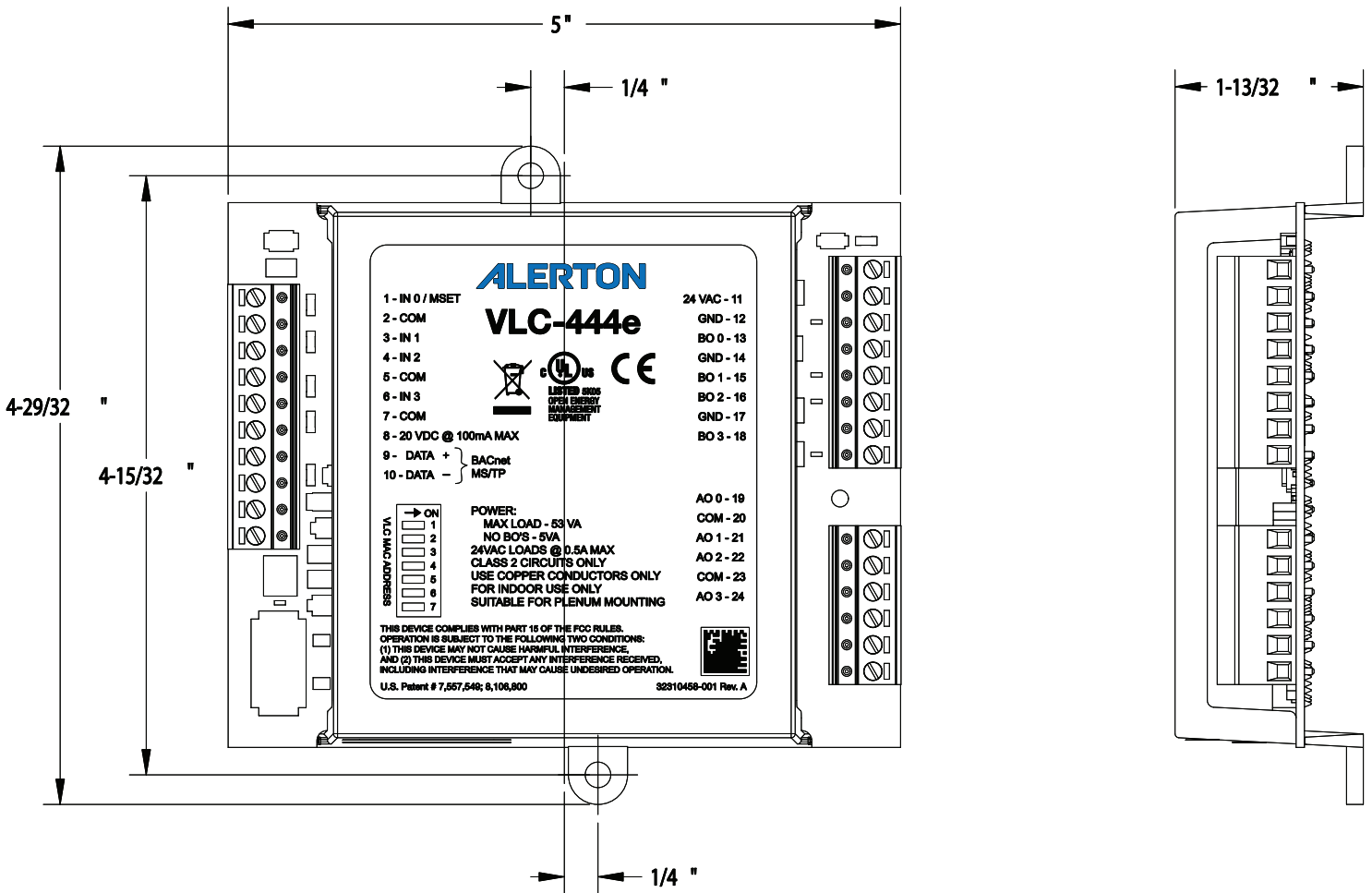
- Listed Underwriters Laboratory for Open Energy Management Equipment (PAZX) under the UL Standard for Safety 916
- EMC Directive 89/336/EEC (European CE Mark)
- FCC Part 15, Subpart J, Class A

ORDERING INFORMATION

ITEM NUMBER

VLC-444E

Field controller with 4 universal inputs, 4 binary outputs and 4 analog outputs



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