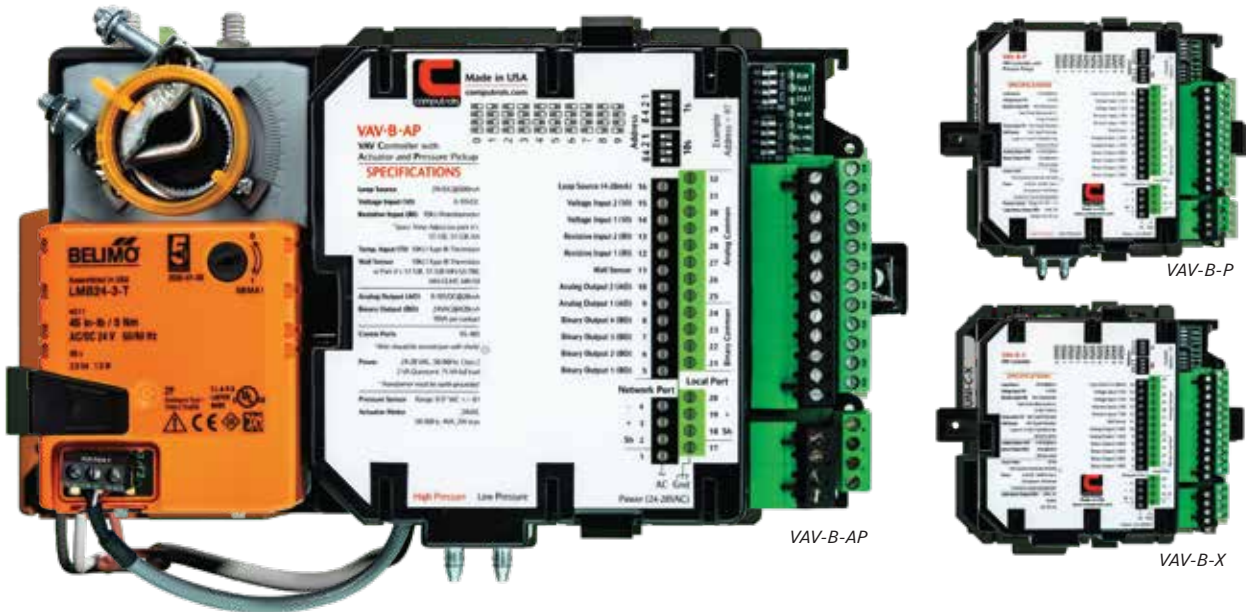


## VAV-B Variable Air Volume Controller

Computrols Variable Air Volume (VAV) line provides both air flow control and measurement for a complete VAV solution. With an Application Specific design, setup and configuration are quickly accomplished with our free VAV Utility.



## Product Highlights

### Position Indicator

Provides a visual indication of position.

### Manual Override

Pushbutton to allow manual positioning on the damper.

### Convenient Package

Controller comes in a sleek package for mounting easily.

### Easily Addressable

Two DIP switches (0-9) allow simple addressing.

### Removable Screw Terminals

Allows for quick replacement.

### Precise Pressure Measurement

0-5" pressure pickup provides accurate control for sensitive low-volume applications. Unlike many VAV controllers, our controller and pressure pickup can be mounted in any orientation without loss of accuracy.

### Available Motor Upgrade

The provided binary output operated motor can be upgraded to an analog output version for a fee.

### Multiple Actuator Support

Add an optional damper actuator using either analog or binary outputs.

## Common Hardware Specifications

<b>Dimensions</b>	AP: 4-13/16" W x 8-7/8" L x 2-5/8" H P, X: 5-9/16" W x 7-1/16" L x 2-1/8" H
<b>Wall Sensor(s)</b>	Computrols Wall Sensor/Wall Sensor Display MN-S(x) Digital thermostats
<b>Analog Inputs</b>	<b>5 Total</b> <ul style="list-style-type: none"> <li>• 2 Resistance (10K Type III Thermistor)</li> <li>• 2 Voltage (0-10 VDC or 4-20mA)</li> <li>• 1 Configurable (10K Type III Thermistor or Wall Sensor)</li> </ul>
<b>Analog Outputs</b>	<b>2 Total</b> , 0-10 VDC with 20 mA max output
<b>Binary Outputs</b>	<b>4 Total</b> , 24VAC triac, 40VA total
<b>4-20mA Loop Source</b>	<b>1 Total</b> , 24 VDC @ 500mA max
<b>Power Requirements</b>	24VAC (+/- 20%), 50/60 Hz 2VA Quiescent, 75VA full load
<b>Enclosure</b>	Surface mount. Conforms to NEMA-1 requirements. Meets UL 94-5V flammability for plenum application use.
<b>Terminal Blocks</b>	Removable Terminal Blocks Supports 12-30 AWG wire.
<b>External Actuator Motor</b>	A 24VAC external actuator motor can be controlled through a custom-ordered cable. See installation instructions for more info.
<b>Protocol Support</b>	Opto 22 - Optomux™ (default) Computrols - BASNet™ (software selectable) BACnet MS/TP™ (factory set) Siemens - APOGEE FLN™ (P1) (factory set) Teletrol - Tsc™ (factory set)




## Model Hardware Specifications

<b>Common Hardware Specifications</b>	see above
<b>Pressure Sensor (VAV-B-AP, P Only)</b>	<b>Range:</b> 0 to 5 Inches of Water Column ("WC) <b>Accuracy:</b> +/- 5% @ 1.0 "WC <b>Type:</b> Silicon Differential Pressure Sensor <b>Connection:</b> High and Low pressure taps Made for 1/4" pneumatic tubing
<b>Actuator Motor (VAV-B-AP, P Only)</b>	<b>Torque Rating:</b> 45 lb.-in. (5 N-m) <b>Stroke:</b> Full adjustable from 0° to 90° <b>Timing:</b> Approximately 2 minutes at 60 Hz (3.6 minutes at 50 Hz) for 90° rotation @24 VAC

## Related Products

<b>VAV Utility</b>	VAV Utility is installed when CBAS is installed. The software includes: Initial Setup, Commissioning, Test and Balance, Firmware Updating and more.
<b>Serial Connector</b>	The Computrols Serial Connector connects to the Building Automation Network via a CAT5/6 network connection and supports up to 3 RS-485 communication channels.
<b>8-LX 16-LX 32-LX 64-LX</b>	Computrols LX controllers work seamlessly with VAV-B. Typical applications include LX controllers in the Mechanical Room for large Air Handlers, VAV-Bs out on the floor for VAVs.
<b>Wall Sensor</b>	Computrols' Wall Sensor delivers reliable temperature, humidity, CO2, and VOC data into your building automation system.
<b>MicroNet Sensor</b>	A 2-wire communication port still exists to support existing MicroNet wall sensor applications. <i>Not recommended for new installations.</i>

## VAV-B Models

		
<b>VAV-B-X</b>	<b>VAV-B-P</b>	<b>VAV-B-AP</b>
✓	✓	✓
	✓	✓
		✓

## Utility Software Features

<b>Initial Box Setup</b>	Choose the application, protocol, network address, box units and more.	<b>Time and Schedule</b>	Allows you to synch the time on the vav with the computer and set an occupied schedule.
<b>Installer</b>	Select the hardware configuration, setpoint adjustment, overtime request.	<b>Test and Balance</b>	Test damper operation in relation to cfm targets. Targets, duct size and control loop speed can be adjusted.
<b>Zero Out Internal Pressure Sensor</b>	Use this feature to get an accurate cfm reading from the internal pressure sensor.	<b>Calibrate CFM</b>	Easily achieve accurate calibration every time.

