

# VAV-B-X

## Variable Air Volume Controller

With over 20 years in the industry, Computrols has established a solid reputation as a leader in automation systems from hardware to software. For VAV applications, Computrols provides the most flexible products available. The VAV-B-X, our smallest VAV solution, is used when direct airflow measurement and control are not required.

### Product Highlights

#### 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.

#### Status Indicators

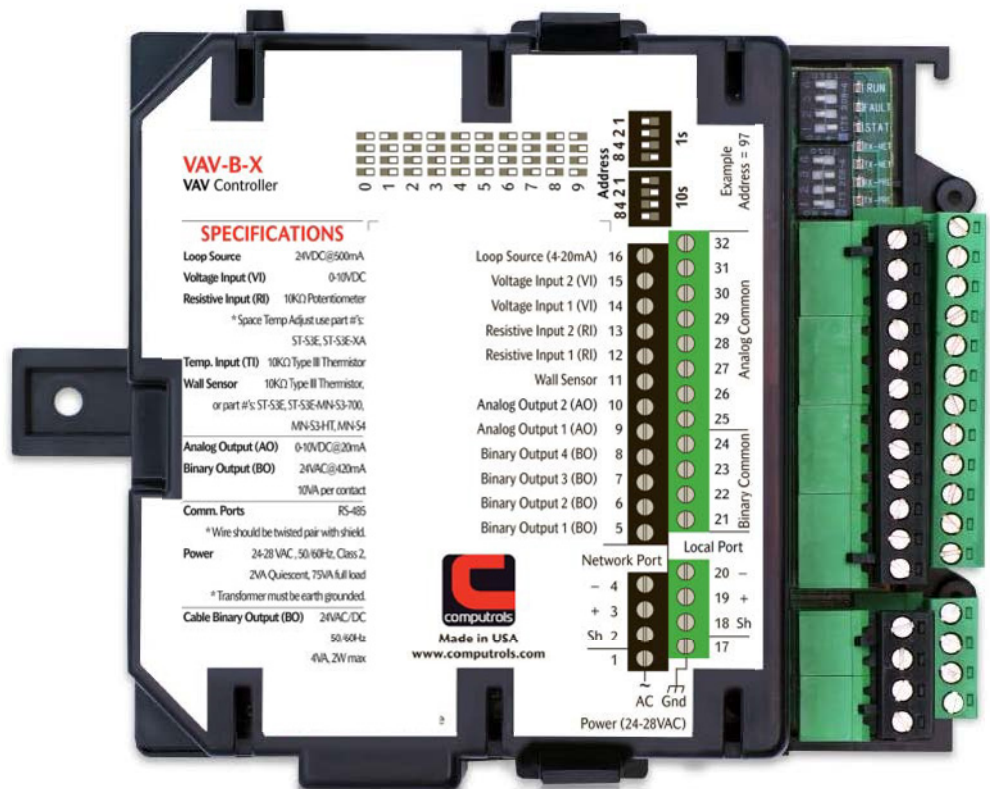
Bright on-board LEDs assist in troubleshooting.

#### Dual Duct Actuator Support

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

#### Flexible Sensor Capability

Supports 10K Type III thermistors or a selection of digital display wall stats.



# VAV - B - X

Variable Air Volume Controller with Belimo bracket box



Global Headquarters: 2520 Belle Chasse Hwy., Gretna, LA 70053 | Ph: 504.529.1413 | [www.computrols.com](http://www.computrols.com)



## Hardware Specifications

Power Supply Input	24VAC $\pm$ 20% 50/60Hz Class 2 transformer
Power Requirements	2VA Quiescent, 75VA full load
Analog Input Types	<b>Six total:</b> One Wall Sensor (10K Type III thermistor or Digital Thermostat), Two resistive inputs (10K Type III thermistor), Two voltage inputs (0-10VDC), and one Resistive or Voltage input (selected by jumper) on external cable.
Analog Output Types	Two selectable voltage source output as 0-10VDC @20mA max analog outputs.
4-20mA Loop Source	24VDC @100mA max loop source.
Binary Output Types	Four 24VAC triac controlled outputs, (420 mA max per output).
Damper Outputs	One 24VAC triac controlled damper output on extended cable and can be configured to use two of the four binary outputs for a second actuator.
Electrical Connections	Pluggable terminal blocks, capable of accommodating 14-22 AWG wire.
Communication Ports	RS485 communication ports.
Digital Thermostat Output	One dedicated digital LCD Room temperature/humidity sensor

## Hardware Specifications (continued)

Dimensions	5-9/16" W x 7-1/16" L x 2-1/8" H
Ambient Limits	<b>Operating Temperature:</b> 32 to 158 °F <b>Shipping and Storage:</b> -40 to 160 °F <b>Humidity:</b> 5 to 95% RH, non-condensing
Enclosure	Surface mount. Conforms to NEMA-1 requirements. Meets UL94-5V flammability for plenum application use.

## Parts and Accessories

Part Number	Description
VAV-B-X	VAV controller
MN-S3-700	LCD room temperature sensor (200 feet maximum distance from controller).
MN-S3-HT	LCD room temperature and humidity sensor (200 feet maximum distance from controller).
MN-S4	LCD room temperature sensor (200 feet maximum distance from controller) with 3-speed fan control.
MN-COMM	Commissioning program for the MN series wall stats.
ST-S3E	Space temperature sensor.
ST-S3E-XA	Space temperature sensor with set point adjustment.
ST-D3-XH	Duct temperature sensor.
VP1	Voltage to pressure transducer (3-18 PSI).
PV3	Differential pressure transmitter (Specify 0-1", 0-2", or 0-5" W.C.)
DCM24-44	0-10VDC 44 in.-lb. actuator mfg. by Delta.

