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.
### Power Supply Input
24VAC ± 20% 50/60Hz Class 2 transformer

### Power Requirements
2VA Quiescent, 75VA full load

### Analog Input Types
Six total: 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)

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>5-9/16” W x 7-1/16” L x 2-1/8” H</th>
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</thead>
</table>
| Ambient Limits | Operating Temperature: 32 to 158 °F  
Shipping and Storage: -40 to 160 °F  
Humidity: 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

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