

**DESCRIPTION**

The SBC-VAV family of terminal box digital controllers is designed to function in numerous scenarios that require variable air volume (VAV), constant air volume (CAV), and CO<sub>2</sub> measurement, while providing flexible mounting solutions to increase ease of installation.

Each controller works on existing Public Unitary Protocol™ (PUP) networks. Using STATbus™ technology, SBC-STAT room sensors can be connected to the SBC-VAV without consuming onboard I/O.

**FEATURES**

- PUP network protocol over EIA-485
- 5 Digital Outputs (Relay or Triac)
- Real-time clock module (optional)
- Integrated high-resolution airflow sensor
- Easy duct scaling K-Factor balance calibration
- VAV can be balanced by using menu driven capabilities of the SBC-STAT3
- IAQ variants offer an additional Universal Input that is to be used for a CO<sub>2</sub> sensor for Indoor Air Quality control
- On-board Belimo Actuator (can be either standard actuator or feedback actuator)
- Flash memory for easy updates
- Dedicated STATbus™ input for zone temperature readings
- Local access of point data using SBC-STAT3
- Time-of-day and holiday scheduling



**Changing the Actuator Orientation**

The physical layout of the VAV allows users to reverse the orientation of the actuator through the use of an adjustable actuator mounting clip. This unique mechanism provides an easy answer to select retrofit applications involving legacy-VAV offerings from American Auto-Matrix. Reversing the actuator orientation involves minimal effort and time from an installer.

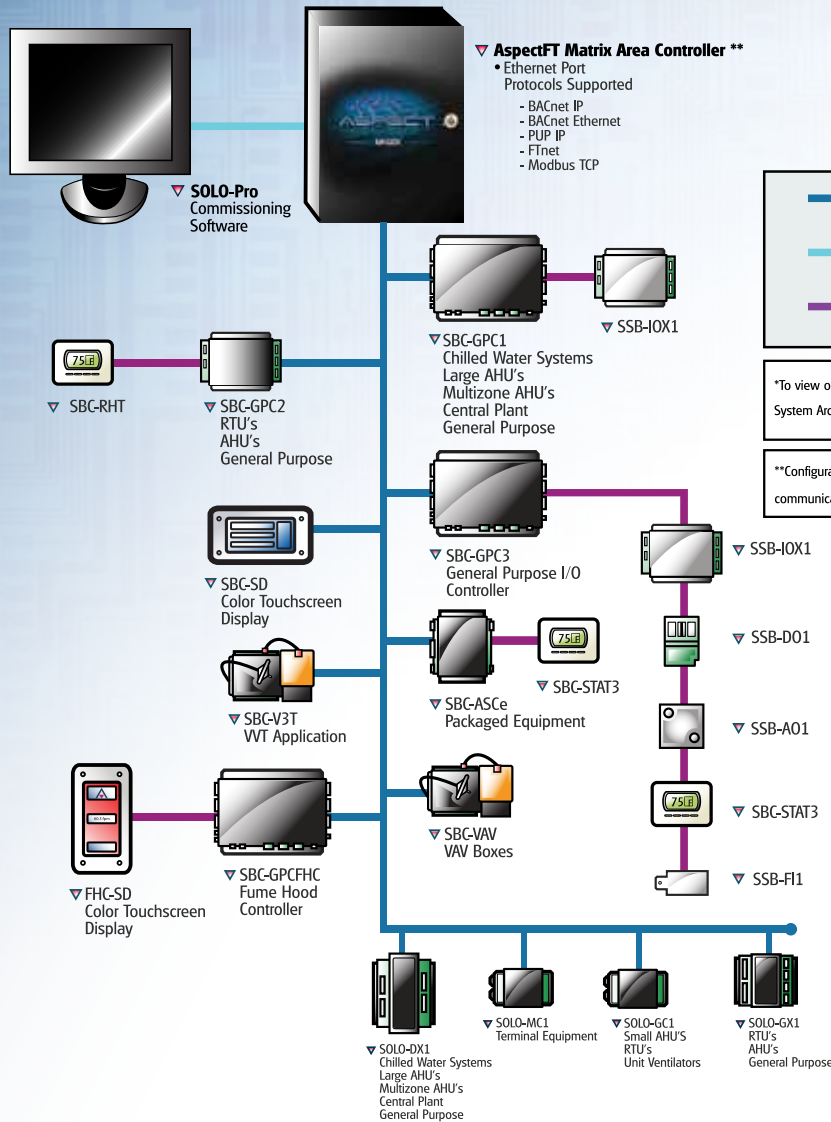
SBC-VAV Unitary Controllers							
Controller Type	Digital Outputs		Analog Outputs	Universal Inputs	Real-Time Clock	Airflow Sensor	Actuator
	Triacs	Relays					
SBC-VAVra	NONE	5	1	2	OPTIONAL*	YES	YES
SBC-VAVrf	NONE	5	1	2	OPTIONAL*	YES	FEEDBACK
SBC-VAVta	5	NONE	1	2	OPTIONAL*	YES	YES
SBC-VAVtf	5	NONE	1	2	OPTIONAL*	YES	FEEDBACK
SBC-VAVta-IAQ	5	NONE	1	3	OPTIONAL*	YES	YES
SBC-VAVtf-IAQ	5	NONE	1	3	OPTIONAL*	YES	FEEDBACK
SBC-VAVr	NONE	5	1	1	OPTIONAL*	YES	NO

\* The Real-time Clock must be purchased separately and installed by the customer.

**SBC-VAV**

Variable Air Volume Controller

**IP CONFIGURATION ARCHITECTURE**



**SPECIFICATIONS - SBC-VAV TA, TF, RA, RF, TA-IAQ, TF-IAQ**

Terminations	Dimensions	Operating Environment	Agency Listings
<ul style="list-style-type: none"> <li>Pluggable terminal blocks for inputs, outputs, power, and network connection</li> <li>Communication baud rates: 9.6, 19.2, 38.4, 57.6, 115.2 kbps</li> </ul>	<ul style="list-style-type: none"> <li>Overall size: 8.5 x 5.75 x 2.63 in. (21.6 x 14.6 x 6.7 cm)</li> <li>Shipping weight: 2.04 lbs. (.92 kg.)</li> </ul>	<ul style="list-style-type: none"> <li>Operating temperature: 41 to 151°F (5 to 50°C)</li> <li>Storage temperature: -40 to 151°F (-40 to 66°C)</li> <li>Relative humidity: 10% to 90% noncondensing, 40% to 60% recommended</li> </ul>	<ul style="list-style-type: none"> <li>UL 916 listed, PAZX</li> <li>FCC rules Part 15, Class B Computing Device</li> <li>UL 873 recognized, Component-temperature-indicating and regulating equipment (XAPX2)</li> <li>Complies with CE directives and standards</li> </ul>
Input Supply			
<ul style="list-style-type: none"> <li>NEC class II transformer</li> <li>24VAC, 50/60 Hz, 10VA maximum, 5VA typical</li> <li>5A fuse load protection</li> </ul>			

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