

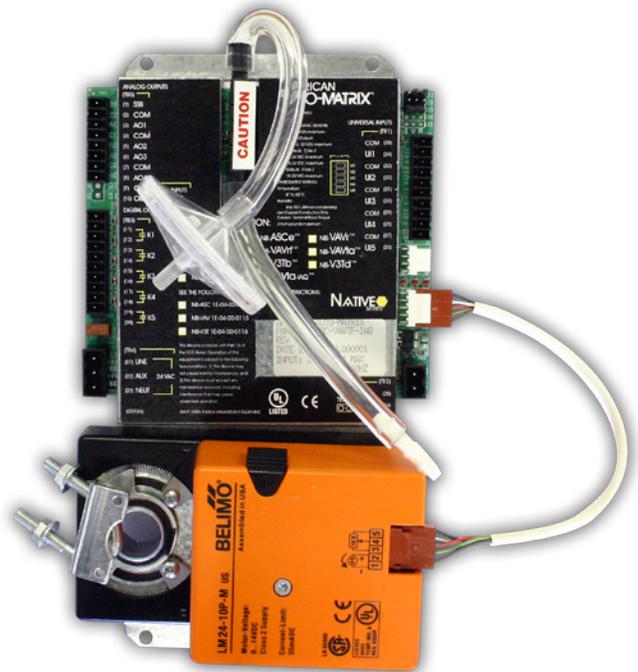
NB-VAV BACnet® Application Specific Controller

The NB-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 CO₂ measurement, while providing flexible mounting solutions to increase ease of installation.

Each controller complies with ANSI/ASHRAE Standard 135-2004, BACnet® and communicates on MS/TP. Using STATbus technology, SBC-STAT room sensors can be connected to the NB-VAV without consuming onboard I/O. This product is BTL Listed as a B-ASC (BACnet Application Specific Controller).

FEATURES

- BACnet MS/TP protocol over EIA-485
- 5 Digital Outputs (Relay or Triac)
- 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 CO₂ sensor for indoor air quality control
- Onboard Belimo® Actuator (can be either standard actuator or feedback actuator)
- Flash memory for easy updates
- Dedicated STATbus input for zone temperature readings
- Local scheduling capabilities



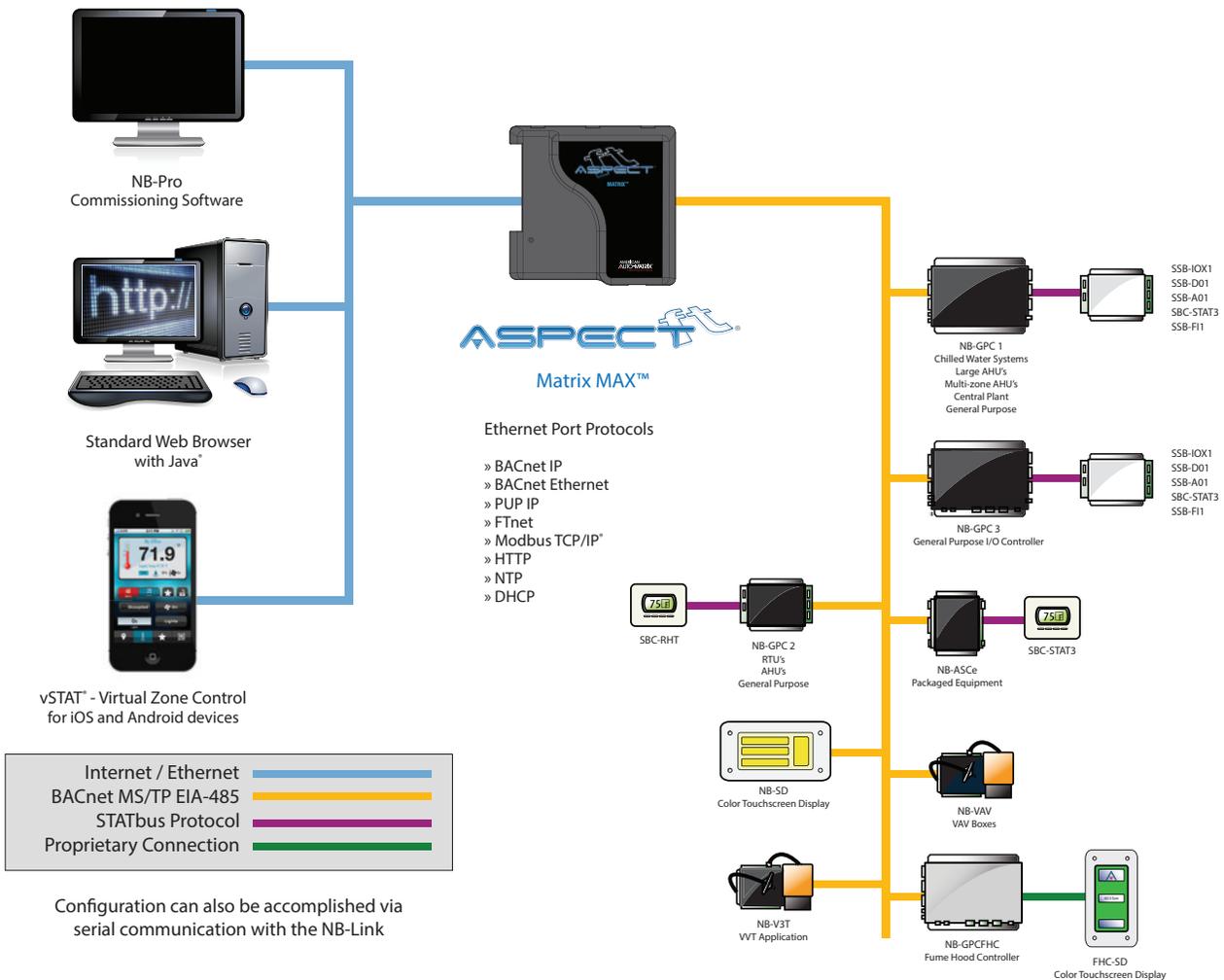
CHANGING ACTUATOR ORIENTATION

The physical layout of the NB-V3T 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.



NB-VAV Unitary Controllers

Controller Type	DO		AO	UI	Airflow Sensor	Actuator
	Triac	Relay				
NB-VAVra	0	5	1	2	YES	YES
NB-VAVrf	0	5	1	2	YES	Feedback
NB-VAVta	5	0	1	2	YES	YES
NB-VAVtf	5	0	1	2	YES	Feedback
NB-VAVta-IAQ	5	0	1	3	YES	YES
NB-VAVf-IAQ	5	0	1	3	YES	Feedback
NB-VAVr	0	5	1	2	YES	NO



SPECIFICATIONS

Processor	high-speed 16-bit processor
Terminations	pluggable terminal blocks for inputs, outputs, power, & network connections
Baud Rates	9.6, 19.2, 38.4, 57.6, 76.8 (kbps)
Input Supply	NEC class II transformer, 24 VAC 50/60 Hz, 10 VA maximum 5 VA typical 5A fuse load protection
Overall Size	8.5 x 5.75 x 2.63 in (21.6 x 14.6 x 6.7 cm)
Shipping Weight	2.04 lbs (.92 kg)

Operating Temp	32 to 122° F (0 to 50° C)
Storage Temp	-40 to 151° F (-40 to 66° C)
Relative Humidity	0 - 90% RH non-condensing (40-60% recommended)
Agency Listings	UL listed 916, Management Equipment, Energy (PAZX) FCC rules Part 15 Class B computing device Complies with CE directive and standards



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