

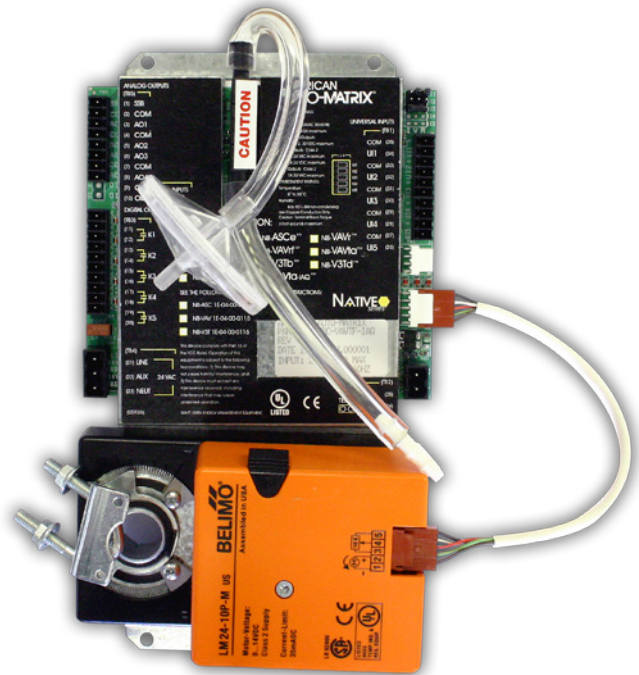
NB-V3T BACnet® Smart Actuator

Being open simply isn't enough. That's why American Auto-Matrix has developed the Native Series product line, which includes the NB-V3Tb and NB-V3Td unitary controllers. The Native Series line of products comply with ANSI/ASHRAE BACnet Standard 135-2004.

The NB-V3T controllers are bypass rooftop (NB-V3Tb) and zone damper (NB-V3Td) digital controllers. The NB-V3T controllers enable constant volume air handler units (AHU) to supply variable volumes of air. In addition, the flash memory of the NB-V3T controllers allows for easy updating. While the NB-V3Tb is BTL Listed as a B-SA (BACnet Smart Actuator), the NB-V3Td is BTL Listed as a B-SS (BACnet Smart Sensor).

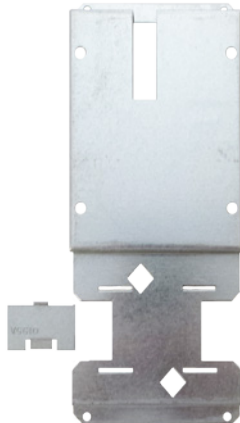
FEATURES

- BACnet MS/TP protocol
- Zone temperature input with 15-bit resolution
- Standard bypass control device with 5 relay outputs (V3Tb only)
- Integrated high-resolution static pressure sensor (V3Tb only)
- Onboard feedback Belimo® actuator for bypass damper control
- Configurable interlocking for fan failure applications (V3Tb only)
- Generic damper (V3Td) device for use with NB-V3Tb applications
- Real-time clock included with NB-V3Tb devices
- Local scheduling capabilities
- Flash memory for easy updates
- Can poll up to 16 damper units (NB-V3Td) for demand load
- Although application specific, these devices can be implemented in sequences that may not require Discharge Air Temperature (DAT) or Outside Air Temperature (OAT) readings



CHANGING ACTUATOR ORIENTATION

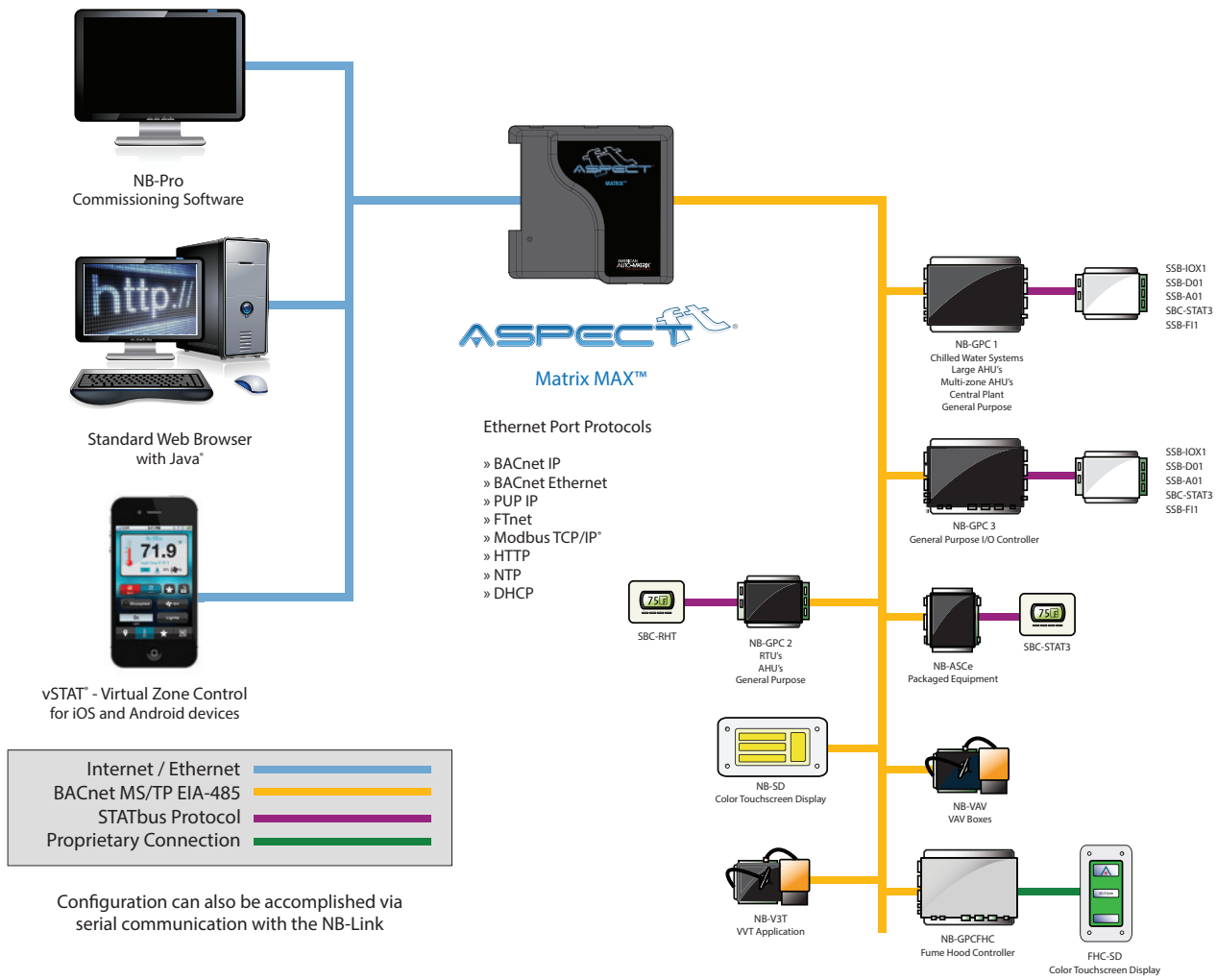
The physical layout of the NB-V3T allows users to reverse the orientation of the actuator through the use of an adjustable actuator mounting clip. This unique mechanism provides an easy answer to select retrofit applications involving legacy VAV offerings from American Auto-Matrix. Reversing the actuator orientation involves minimal effort and time from an installer.



NB-V3T Unitary Controllers

Control- ler Type	DO Triac Relay	AO	UI	Real- time Clock	Pressure Sensor	Actua- tor	
NB-V3Tb	0	5	4	5	Installed	YES	Feedback
NB-V3Td	0	0	0	1	N/A	NO	Feedback

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



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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