



The Alerton[®] TX-VAV[™] is a versatile, microprocessor-based controller designed for VAV box applications. It operates as a stand-alone controller or as part of a site-wide integrated DDC system.

The TX-VAV contains an integral velocity pressure sensor to provide pressure-independent operation. Minimum and maximum airflows can be entered either at a Microset[™] or IBEX[™] terminal. PID algorithms in the TX-VAV ensure accurate and stable control.

Each TX-VAV flow sensor is factory calibrated at multiple pressure points. Non-volatile EEPROM stores pressure points and operator-entered setup data. The TX-VAV can be field adjusted during balancing to compensate for slight variations in box installation and type.

Onboard LEDs indicate the operational status of outputs, airflow and communications.

The Alerton Microset, Microtouch and wallplate sensors operate in conjunction with the TX-VAV. The Microset is an intelligent wall-mounted zone temperature sensor with a digital display and simple push-button controls.

The Microset functions as both a tenant control center and field service tool. Its secure field service mode enables technicians to view and change variables within the VAV controller.

Product Number

TX-VAV (VAV Controller)

Specifications**TX-VAV™**

Power	24 VAC @ 3 VA plus digital output loads (50 VA max.). The onboard supply utilizes a half-wave rectifier, which allows multiple TUXs to be powered from a single transformer. One leg of 24 VAC connects to earth (panel) ground.
Inputs	3 inputs with 8-bit resolution. Inputs 1 and 2 support Microset™, Microtouch™ or thermistor. Input 3 supports an option discharge air temperature sensor.
Pressure Sensor	0–1.25" w.c. differential pressure sensor.
Digital Outputs	Five outputs, each rated 24 VAC, 0.5 A. Outputs 1, 2 and 3 utilize optically coupled triacs. Outputs 4 and 5 are negative switching triacs for damper motor control.
Processor	Motorola (MC68HC705) CMOS with internal RAM and ROM.
Maximum Dimensions	4.90" (125mm) H X 5.25" (134mm) W X 1.40" (36mm) D
Terminations	Removable screw-type terminals accept 14–20 AWG wire.
Environmental	32–158°F (0–70°C). 0–95% RH, non-condensing.
Communications	Optically isolated TUX trunk operates at 9600, 4800 or 1200 baud.
Ratings	<ul style="list-style-type: none"> Listed Underwriters Laboratory for Open Energy Management Equipment (PAZX) under the UL Standard for Safety 916. Listing includes U.S. and Canadian certification. FCC Part 15, Subpart J, Class A. EMC Directive 89/336/EEC (European CE Mark).

Specifications subject to change without notice.

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