

DEC Variable Air Volume Controller (DEC-VAV)

TECH/DATA SHEET

Date: 1/31/2014

Westco's DEC-VAV is the next generation Variable Air Volume Controller. Plug-in modules are available for flow sensing, actuator and external relay control. These plug-in modules allow easy customization of the DEC-VAV for any type of VAV application. This peer-to-peer, stand alone or networkable VAV controller can control ANY type of variable air volume unit. Offering ICMS software and Tridium® Niagara Framework™ via it's BACnet® MS/TP interface.

Specifications

Power Requirements

Input Voltage: 23 to 28 VAC 50/60 Hz
Consumption: 1.7 VA (without optional plug-in modules)
10.3 VA (all optional plug-in modules used)
Input Voltage Fuse: Resettable fuse rated at 1.1A at 24VAC

Inputs/Outputs

Analog Inputs:

- Zone Temperature*
 - Duct Temperature*
 - Local Zone Temperature Setpoint Adjust (ZTS-A)
 - 0-10vdc Main Damper Actuator Position
 - 0-10vdc Auxiliary Damper Actuator Position
- * Thermistor Inputs are 3k, 10k, 100kohm thermistor, Type 3

Analog Outputs:

- Main Actuator Output 0-10vdc*
 - Auxiliary Actuator Output 0-10vdc*
- * Can drive down to 10Kohm loads at 10vdc

Digital Outputs:

Up to Four (4) Digital Outputs* (24vac only, 3A max)

* Four (4) digital outputs would require one (1) plug-in relay modules DEC-VAV and 2 plug-in floating actuator modules (M2VFMD)
In this configuration, the DEC-VAV would have one (4) relay card.

Operating Environment

Temperature: 40 to 140 F (4 to 60 C) *
Humidity: 10-90% Relative, noncondensing **
* Storage Temperature: -10 to 150 F (-23 to 66 C)
** Storage Humidity: 0-95% Relative, noncondensing

Network Communication

Method: RS-485 (MS/TP)
Cable: 3 conductor, 18 guage, shielded, up to 8000ft max
Baud Rate (selectable): 57.6k, 38.4k, 19.2k, 9600, 2400, 1200, 76,800

Memory Backup

Battery: 7 year lithium

Physical Dimensions

Height: 70 mm (2.75 in)
Width: 78 mm (3.0 in)
Length: 160 mm (6.3 in)
Mounting Holes: 148.5 mm (5.85 in) Center to Center
Weight: 1.2 lb
ABS plenum rated body



Agency Approvals



Listed Device: UL Listed under E76576 24G9



BACnet® Testing Laboratories (BTL)