

Analog VAV Controller

DAC-V322

Description

The Delta VAV Controller is a *Native* BACnet™ Application Controller that communicates on an RS-485 LAN using the BACnet™ MS/TP protocol.

The controller is specifically designed for VAV applications and supports the Delta BACstat™. Strategies are written in GCL rather than residing in fixed algorithms.

Both firmware and controller databases are loadable over the network.

The damper actuator assembly is available with or without position feedback.

The additional inputs and outputs can be configured for additional functions as required.

Application

The Delta VAV Controller provides an application-specific controller for VAV applications and includes integrated packaging with an actuator and true differential pressure sensor. The Delta VAV Controller controller is completely programmable; GCL programs and BACnet™ objects can be created and modified for specific applications.



DAC-V322 Analog VAV Controller

Features

- > *Native* BACnet™ firmware
- > BACnet®MS/TP communications
- > Integrated housing with damper assembly for easy and cost effective installation
- > Reliable industry standard actuator (with optional position feedback)
- > True Differential Pressure Sensor
- > Completely programmable in GCL
- > Application Database loadable over the network
- > Controller firmware flash-loadable across the MS/TP network
- > Derived Network Addressing (DNA) for simple integration into a standard network architecture

SPECIFICATIONS

Inputs - External

3 Universal Inputs - 10 bit (supporting 0-5v, 0-10v, 10K, 4-20mA)
Visual LED status indication of each Input

Inputs - Internal

1 Actuator Position Feedback Input (optional)
1 Air Flow Input

Outputs - External

2 Binary Triac outputs & 2 Analog Outputs (0-10 VDC)

Jumper Selection for internal or external power on binary outputs
Visual LED status indication of each output

Outputs - Internal

2 Binary Outputs for damper Open and Close

Flow Sensor

True Differential Pressure - 0-1" H2O (0-248.8 Pa)

Technology

32-bit processor
512 KB (4 Mb) Flash memory
64 KB SRAM memory for database
CPU Status LED

Device Addressing

Set via DIP switch and jumpers, or software setup >>

Integrated Facilities Management Solutions. Simplified!

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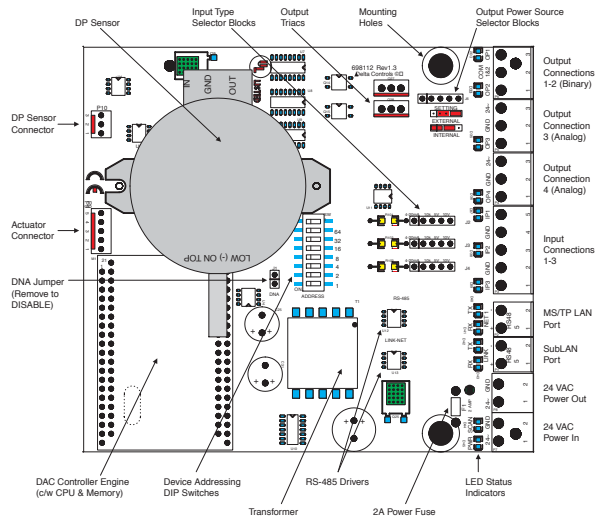
Technical specifications are subject to revision without notice.

Rev. 10_02

APPLICATION CONTROLLERS

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Ordering

Order the Delta VAV Controller with the desired options according to the following product numbers.

Features	DAC-V322	DAC-V322A	DAC-V322AF
Analog Board (2 BO & 2 AO)	●	●	●
DP Sensor for Flow	●	●	●
Integrated Housing	●	●	●
Actuator Included		●	●
Actuator Feedback			●

Service Kits

FTM-746-A0	Differential Pressure Sensor
LM-24-M	Damper Actuator without feedback
LM-24-M-10P	Damper Actuator with Feedback
DZH-776-1	Plastic Housing for Controller & Actuator
DAC-322S	Service Replacement Board

Accessories

FSP-747	Single Point Flow Probe (Pitot Tube)
RPT-768	Delta Network Repeater for MS/TP
TRM-768	Delta Network Terminator for MS/TP

SPECIFICATIONS (cont.)

Communications Ports

MAIN LAN (NETI)
BACnet MS/TP @ 9,600 or 19,200 or 38,400 or 76,800 bps (default).
(maximum of 99 devices per MS/TP segment)

subLAN (LINK)
LINKnet @ 76,800 bps
(maximum of 4 DNS-14/24 BACstats)

Connectors

Removable screwtype terminal connectors

Wiring Class

Class II

Power

15 VA (not including output loading)
24 VAC c/w LED status

Ambient

32° to 131° F (0 to 55°C)
10 - 90% RH (non-condensing)

Dimensions:

Integrated Assembly:
8.5 x 5 x 2.5 ins
(21.6cm x 12.7cm x 6.4cm)
3.3 lb (1.5 kg)

Approvals/Standards

UL916; CE; FCC Class A

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