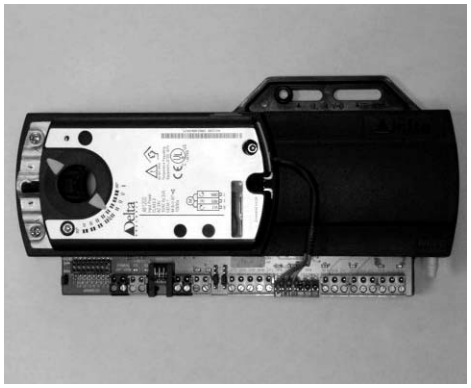
Application Controllers
DVC-V322

Description
The DVC-V322 is a fully programmable, Native BACnet™ Advanced Application Controller that communicates on an RS-485 LAN using the BACnet MS/TP protocol.

This controller is specifically designed for VAV applications and supports the Delta BACstat and LINKnet I/O. The damper actuator assembly is available with or without position feedback. Additional inputs and outputs can be configured as required.



Application
The DVC-V322 is an application-specific controller for VAV and includes an actuator and true differential pressure sensor with integrated housing.

The fully programmable DVC-V322 allows GCL+ programs and BACnet objects to be tailored to any VAV application.

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

—Fully programmable in GCL+

—Application database can be loaded over the network

—Controller firmware can be flash loaded over the network

—Derived Network Addressing (DNA) for simple integration into a standard network architecture

—Service port

Specifications

BACnet Device Profile
BACnet Advanced Application Controller (B-AAC)

Inputs - External
3 Universal inputs - 10 bit (supporting 0-5v, 0-10v, 10kΩ, 4-20mA)

Inputs - Internal
1 Actuator position feedback input (optional)

1 Air flow input

Flow Sensor, true differential pressure - 0-1" H2O (0-248.8 Pa)

Outputs - External
2 Binary triac outputs & 2 analog outputs (0-10 VDC)

LED status indication of each output

Outputs - Internal
2 Binary outputs for damper open and close

Technology
32-bit processor

512 KB (4 megabit) Flash memory

64 KB SRAM memory for database

CPU Status LED

Device Addressing
Set via DIP switch and jumpers, or software setup

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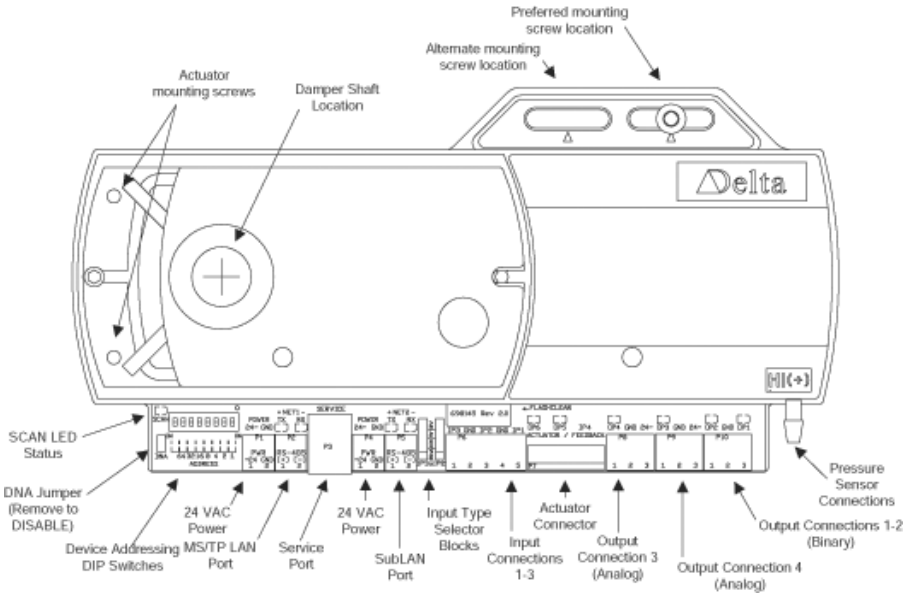
Application Controllers

DVC-V322: Board Layout Diagram



Accessories

RPT-768—Delta Network Repeater for BACnet MS/TP

TRM-768—Delta Network Terminator for BACnet MS/TP

CON-768—Delta Network Converter

Ordering

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

DVC-V322—Analog Board (2AO's, 2BO's), DP Sensor for Flow, Integrated Housing

DVC-V3322A—Analog Board (2AO's, 2BO's), DP Sensor for Flow, Integrated Housing, Siemens Actuator

DVC-V322AF**—Analog Board (2AO's, 2BO's), DP Sensor for Flow, Integrated Housing, Siemens Actuator, Actuator Feedback

The Siemens actuator is the default, append "B" to select the Belimo actuator.
-B—Belimo Actuator

BACnet Firmware is the default, append "V2" to select V2 Micro Firmware.
-*V2—V2 Firmware

For Dual Duct application append "DD".
-DD—Dual Duct** (separate sensor for flow, integrated housing and actuator)

* Note: Not all features described in this document are available when this option is selected.

** Note: Actuator Feedback is NOT available when ordering the -DD option.

Specifications (Continued)

Communications Ports
Main LAN (NETI)
BACnet MS/TP @ 9600, 19200, 38400 or 76800 bps(default) (maximum of 99 devices per BACnet MS/TP segment)

SubLAN (NET2)
Delta LINKnet @ 76800 bps (maximum 4 devices on LINKnet, with no more than 2 DFM/DNT devices)

Connectors
Removable screw-type terminal connectors

Wiring Class
Class 2

Power
24 VAC with LED status

15 VA (not including output loading)

Ambient
32° to 131°F (0 to 55°C)

10 - 90% RH (non-condensing)

Dimensions
9 3/8 x 4 3/4 x 3 1/8 in. (23.9 x 12.0 x 8.0 cm) with housing

1.85 lb. (840 g) with housing and actuator

Approvals/Standards
UL 916 Listed

C-UL Listed

CE

FCC

BTL Listed