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DVC-V322

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.



Overview

Specification

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

Supports 4 BACstat network sensors on LINKnet for room sensing and control or 2 Delta Field Modules on LINKnet for I/O expansion

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 flash loaded over the network

Controller firmware can be flash loaded over the network

Supports Modbus capability via flash loading in the field

Supports flash loading Modbus upgrades via hardware key

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

Service port

BACnet Device Profile

BACnet Advanced Application Controller

(B-AAC)

Inputs - External

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

Related Products**VAV Controllers (DVC)**

DVC-V304 (/products/hvac/individual-zone-controllers/programmable/vav-controllers-dvc/dvc-v304)

DVC-V304E

(/products/hvac/individual-zone-controllers/programmable/vav-controllers-dvc/dvc-304e)

DVC-V322E

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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

Siemens

44 in-lbs. (nominal torque)

Less than 35db (A) noise level

Belimo

35 in-lbs. (nominal torque)

Less than 35db (A) noise level

Differential Pressure

0 to 1" H2O (0 - 248.8 Pa)

Tubing

Flow sensor tubing must be 5/32" inside diameter

Device Addressing

Set via DIP switch and jumpers, or software setup

Technology

32-bit processor

1 MB (8 megabit) Flash memory

127 KB SRAM memory for database

LED indication of CPU and SCAN status

Communications Ports

Main LAN (NET1)

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 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

Compliance

CE

FCC

Listings

UL 916 Listed

C-UL Listed

BTL Listed

UL 864 Listed (DVC-V304A-UL864 and DVC-V304AF-UL864 only)

Tags:

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Ethernet VAV Controllers (DVC-E)

VAV Controllers (DVC)

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