

# Application Controllers

## DAC-304

### Description

The DAC-304 is a fully programmable, Native BACnet® Advanced Application Controller that communicates on an RS-485 LAN using the BACnet MS/TP protocol. The DAC-304 is designed for a wide-range of applications that have small local I/O requirements. It also supports BACstat® and other Delta LINKnet devices.



### Application

The DAC-304 is suitable for controlling various packaged units and equipment with small I/O requirements such as Fan Coil units, Unit Ventilators and Heat Pumps.

The fully programmable DAC-304 can be tailored to specific applications by creating and modifying BACnet objects and GCL+ programs.

### Features

- ▶ Fully programmable in GCL+
- ▶ Supports 4 BACstat network sensors on LINKnet for room sensing and control or 2 Delta Field Modules on LINKnet for I/O expansion
- ▶ Firmware upgrade and database load/save over the network
- ▶ Optional field upgrade to Modbus® RTU with hardware key
- ▶ Service port
- ▶ Screw or DIN rail mountable
- ▶ LED indicator for each output, power, CPU and SCAN status

### Specifications

#### BACnet Device Profile

BACnet Advanced Application Controller (B-AAC)

#### Inputs

- 3 Universal Inputs (10-bit), supporting:
  - 0-5 VDC
  - 0-10 VDC
  - 10 kΩ Thermistor
  - Dry Contact (using 10 kΩ Thermistor jumper setting)
  - 4-20 mA

#### Outputs

4 Binary TRIAC Outputs (jumper configured for internal or external power)

#### Device Addressing

Set via DIP switches or software setup

#### Connectors

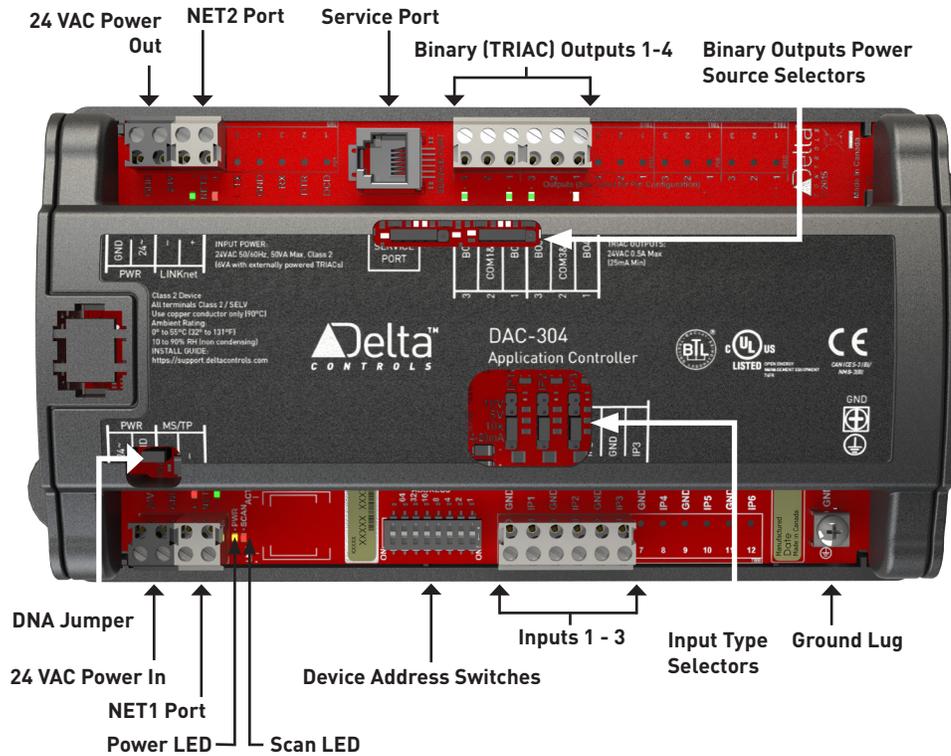
Removable screw-type terminal connectors

#### Wiring Class

Class 2 / SELV

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## DAC-304 Board Layout Diagram



### Specifications (Continued)

#### Power

24 VAC 50/60 Hz @ 6 VA, 50 VA max. with fully-loaded Binary Outputs

#### Technology

16-bit processor  
1 MB Flash memory  
127 KB SRAM memory for database

#### Communications Ports

RS-485 NET1  
BACnet MS/TP up to 76800 bps, max of 99 devices per port

#### RS-485 NET2

Delta LINKnet up to 76800 bps, max 4 devices on LINKnet, with no more than 2 DFM devices  
Optional Modbus up to 38400 bps, max 5 devices

#### Ambient

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

#### Dimensions

7 $\frac{5}{8}$  x 4 x 1 $\frac{7}{8}$  in. (19.2 x 10.2 x 4.8 cm) with housing

#### Weight

0.551 lb. (250 g) with housing

#### Compliance

CE  
FCC

#### Listings

C-UL Listed  
UL 916 Listed  
BTL Listed

### Ordering

Order the DAC-304 according to the following product number:

DAC-304	Delta Application Controller 3 universal inputs, 4 binary outputs
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### Accessories

DZNR-768	Delta Network Repeater for BACnet MS/TP
TRM-768	Delta Network Terminator for BACnet MS/TP
CON-768BT	Delta Network Bluetooth Converter
DFF099-CDT	Additional 50 credit blocks for the Modbus flash key
DFF099-KEY	Modbus flash upgrade key with 50 credits pre-loaded

BACstat is a registered trademark of Delta Controls Inc.  
BACnet is a registered trademark of the American Society of Heating, Refrigerating and Air Conditioning Engineers Inc.

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Subject to change without notice.