

# 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

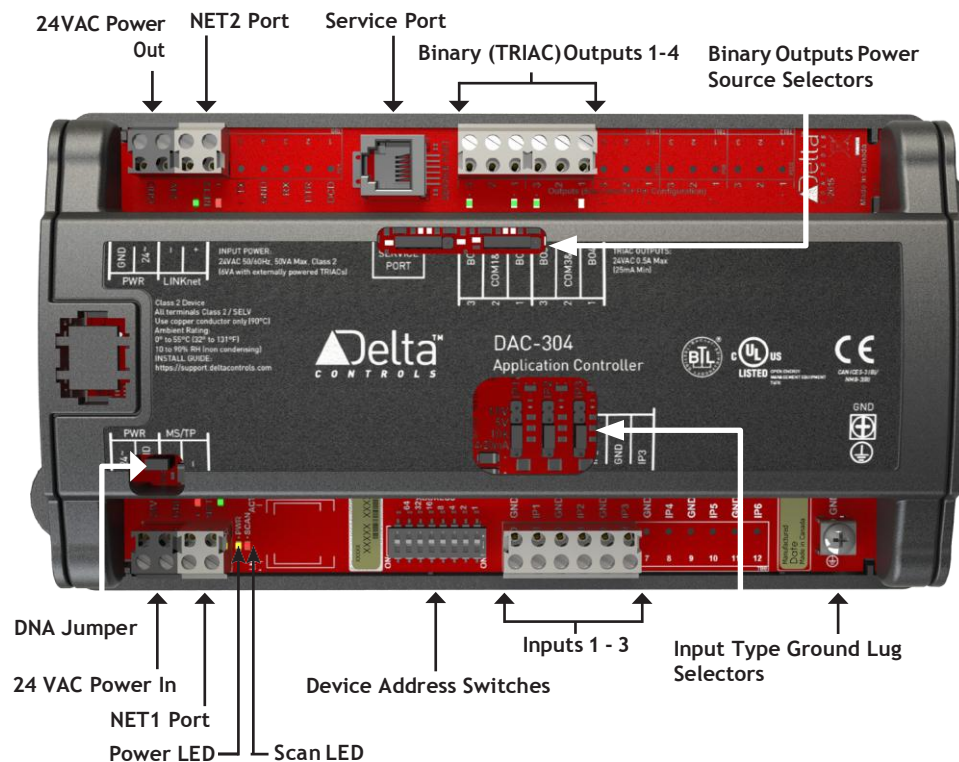
**Removable screw-type terminal connectors**

#### 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 BinaryOutputs**

#### 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" x 4" x 1 1/8" 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**

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

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### Ordering

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

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

### 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  |

**Subject to change without notice.**

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**Delta**  
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