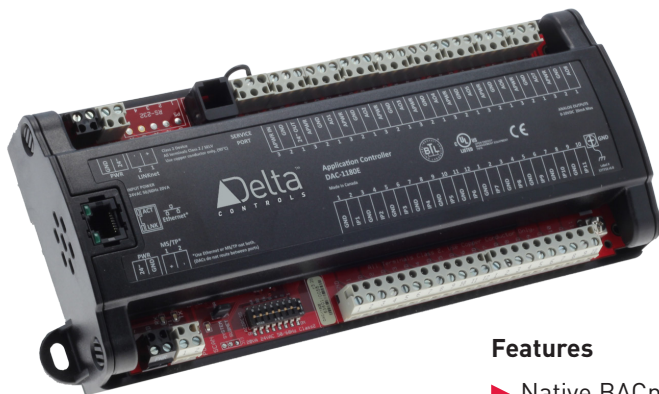


Application Controllers

DAC-1180 / DAC-1180E

Description

The DAC-1180 is a fully programmable, Native BACnet® Advanced Application Controller that either communicates on Twisted-Pair Ethernet 10-BaseT using BACnet IP and BACnet over Ethernet or an RS-485 LAN using the BACnet MS/TP protocol. It is designed for a wide-range of applications that have medium local I/O requirements. It also supports BACstat® and other Delta LINKnet devices.



Application

The DAC-1180 is suitable for controlling various packaged units and equipment with medium I/O requirements such as multiple-room reheat valves or small air handling units, boilers and chillers.

The fully programmable DAC-1180 can be tailored to specific applications by creating and modifying BACnet objects and GCL+ programs.

Features

- ▶ Native BACnet firmware
- ▶ Fully programmable in GCL+
- ▶ BACnet MS/TP communications (DAC-1180), BACnet/IP and BACnet Ethernet (DAC-1180E)
- ▶ Super Capacitor for real-time clock and SRAM backup which requires no maintenance (DAC-1180E)
- ▶ Supports 8 BACstat network sensors on LINKnet for room sensing and control or 2 Delta Field Modules on LINKnet for I/O expansion
- ▶ Actuator power terminal (24 VAC) for each analog output (can be powered internally or from an auxiliary transformer)
- ▶ Firmware upgrade and database load/save over the network
- ▶ Supports Modbus® capability via flash loading in the field
- ▶ Service port
- ▶ Screw or DIN rail mountable

Specifications

BACnet Device Profile

BACnet Advanced Application Controller (B-AAC)

Inputs

11 Universal Inputs (10 bit), supporting:
0-5VDC
0-10VDC
10KΩ
4-20mA

Outputs

8 Analog Outputs (0-10VDC)

LED status indication of each output

Technology

DAC-1180

32-bit processor
1MB flash memory
127KB SRAM memory for database
LED indication of CPU and SCAN status

DAC-1180E

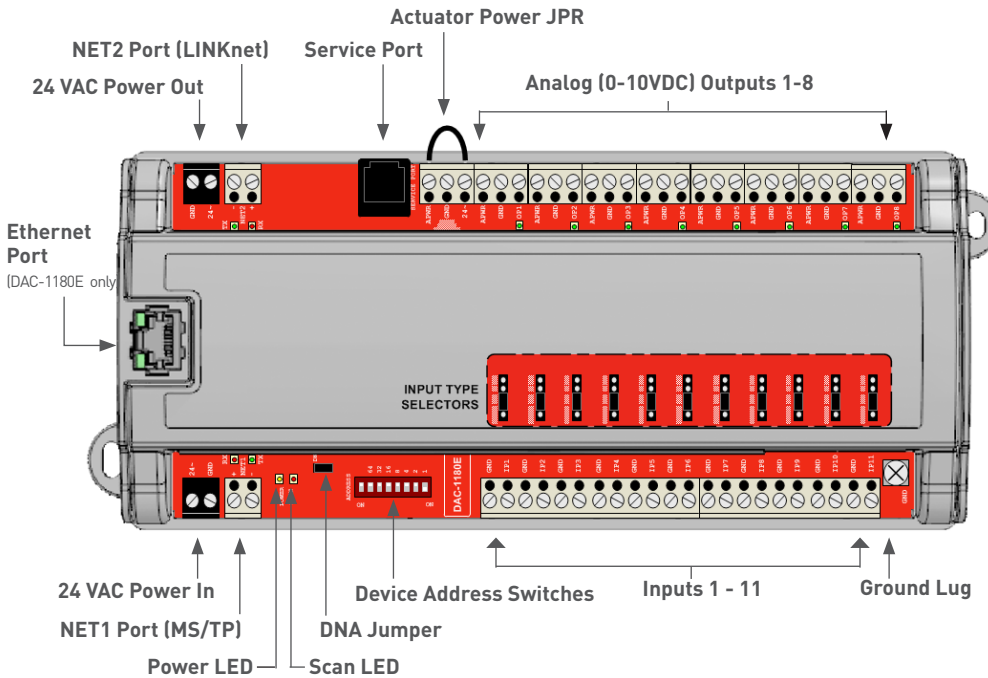
32-bit processor
2MB flash memory
319KB SRAM memory for database
LED indication of CPU and SCAN status
Real-time clock
Super Capacitor for 72-hour backup of realtime clock and SRAM

Device Addressing

Set via DIP switch and jumpers, or software addressed

Application Controllers

DAC-1180 / DAC-1180E: Board Layout Diagram



Specifications (Continued)

Communications Ports

Twisted Pair Ethernet (10-BaseT) @ 10MB, BACnet IP, BACnet over Ethernet (Optional)

RS-485 NET1

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

RS-485 NET2

Delta LINKnet @ 76800 bps, maximum 8 devices on LINKnet, with no more than 2 DFM devices

Connectors

Removable screw-type terminal connectors

Wiring Class

Class 2 / SELV

Power

24 VAC
20 VA

Ambient

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

Dimensions

10³/₈ x 4¹/₄ x 1¹⁵/₁₆ in. [26.2 x 10.7 x 4.9 cm]
with housing
0.944 lb. [428 g] with housing

Compliance

CE
FCC

Listings

C-UL
UL 916
BTL

Ordering

Order the DAC-1180 with the desired options according to the following product numbers:

DAC-1180	Delta Application Controller 11 inputs, 8 AO's, MS/TP
DAC-1180E	Delta Application Controller 11 inputs, 8 AO's, Ethernet
Note: When using Ethernet, MS/TP protocol is not available (RS-485 ports can be used for LINKnet and/or special interfaces only)	

Accessories

DZNR-768	Delta Network Repeater for BACnet MS/TP
TRM-768	Delta Network Terminator for BACnet MS/TP
CON-768BT	Bluetooth wireless service tool

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

Updated September 3, 2013

Subject to change without notice.