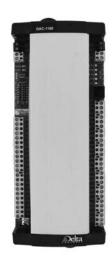# Application Controllers
DAC-1180

Description
The DAC-1180 is a fully programmable, Native BACnet™ Advanced Application Controller that communicates on an RS-485 LAN using the BACnet MS/TP protocol. The DAC-1180 is designed for a wide-range of applications that have medium local I/O requirements. It also supports BACstats 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

—BACnet MS/TP communications

—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 (24VAC) for each analog output

—Actuator power terminals can be powered from an auxiliary transformer

—Easy to mount housing

—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

Specifications

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

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

Outputs
8 Analog outputs (0-10v)

LED status indication of each output

Technology
32-bit processor

1 MB (8 megabit) Flash memory

127 KB SRAM memory for database

LED indication of CPU and SCAN status

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

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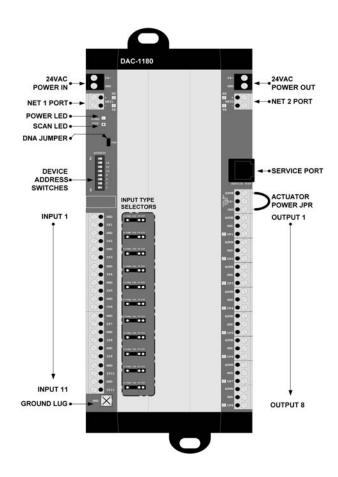Delta LINKnet @ 76800 bps (maximum 8 devices on LINKnet, with no more than 2 DFM devices)

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

DAC-1180—11 inputs, 8 AO's

DAC-1180-V2—11 inputs, 8 AO's (V2* Firmware)

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

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