

▶ Application Controller

DAC-1600

Description

The DAC-1600 is a fully programmable, Native BACnet® Advanced Application Controller that communicates on an RS-485 LAN using the BACnet MS/TP protocol. The DAC-1600 is designed for monitoring, trending and alarming remote inputs. The DAC-1600 supports up to four Delta LINKnet devices.



Application

The DAC-1600, with its 16 inputs, is suitable for monitoring the status of a wide variety of equipment and sensors. The controller board is capable of interfacing to 4-20 mA, 10 kΩ, 5 V, 10 V and dry contact inputs.

Because of its programming capability, the DAC-1600 can be used to create or modify GCL+ programs and BACnet objects for specific applications.

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
- ▶ Easy to mount housing using 2-screws or DIN rail
- ▶ Fully programmable in GCL+
- ▶ Application database can be loaded over the network
- ▶ Controller firmware can be flash loaded over the network
- ▶ Optional field upgrade to Modbus® RTU with hardware key
- ▶ Service port
- ▶ LED indicator for power, CPU and SCAN status

Specifications

BACnet Device Profile

BACnet Advanced Application Controller (B-AAC)

Inputs

16 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

Device Addressing

Set via DIP switches and jumpers, or software setup

Connectors

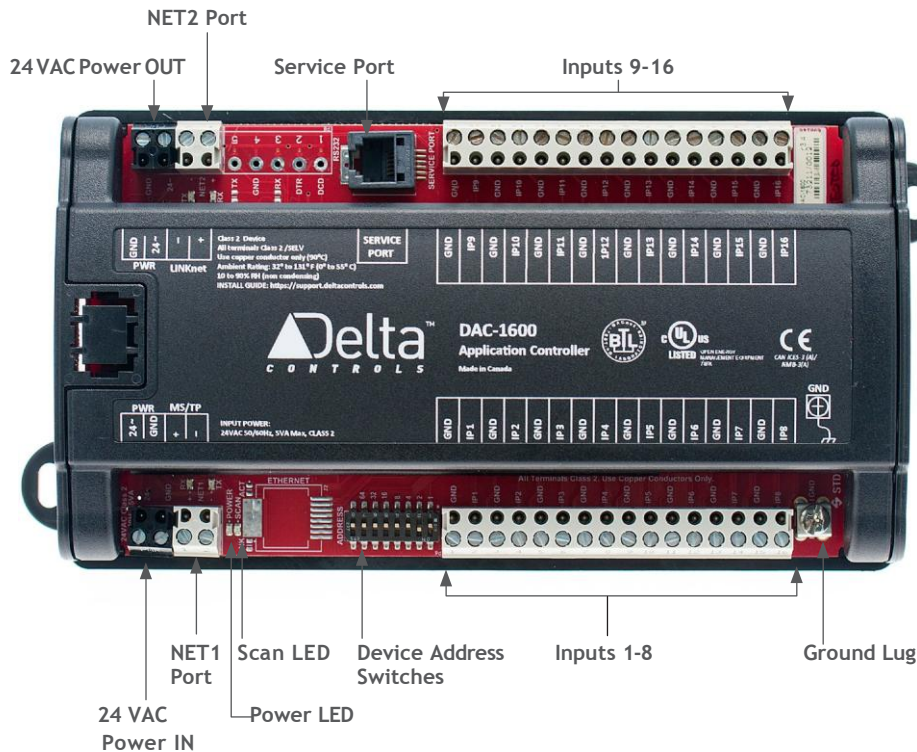
Removable screw-type terminal connectors

Wiring Class

Class 2

Application Controller

DAC-1600: Board Layout Diagram



Specifications (Continued)

Power

24 VAC 50/60 Hz @ 8 VA

Technology

16-bit processor
1 MB (8 megabit) Flash memory
128 KB SRAM memory for database

Communications Ports

RS-485 NET1
BACnet MS/TP up to 76800 bps, max
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

Ambient

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

Dimensions

8½ x 4¼ x 115/16 in. (21.8 x 10.7 x 4.9 cm)
with housing

Weight

0.80 lb. (360 g) with housing

Compliance

CE
FCC

Listings

C-UL Listed
UL 916 Listed
UL 864 Listed for UL 864 product
numbers
BTL Listed

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

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Ordering

Order the DAC-1600 according to the following product number:

DAC-1600	16 inputs application controller
DAC-1600-UL864-340	16 inputs application controller, UL864 Listed

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
DFF099-CDT	Additional 50 credit blocks for the Modbus flash key
DFF099-KEY	Modbus flash upgrade key with 50 credits pre-loaded

* UL 864 versions available

Subject to change without notice.

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