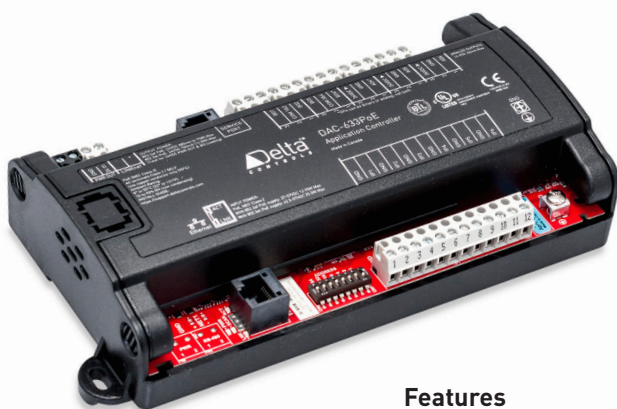


Application Controllers

DAC-633PoE

Description

The DAC-633PoE is a fully programmable, native BACnet® Advanced Application Controller for low density I/O applications featuring Power over Ethernet (PoE). PoE provides high speed communications and device power in a single cable, simplifying wiring and eliminating the need for a local control transformer.



Application

The DAC-633PoE is suitable for controlling a wide range of equipment with small I/O requirements. It is particularly suited to applications such as fan coils or unit ventilators which often do not have a local step down transformer to provide controller power.

The fully programmable DAC-633PoE can be tailored to specific applications by creating and modifying BACnet objects and GCL+ programs.

Features

- ▶ Power over Ethernet (PoE)
- ▶ Local scheduling, trending and alarming functions
- ▶ Fully programmable
- ▶ BACnet IP and BACnet over Ethernet Main LAN communications
- ▶ Super Capacitor for real-time clock and SRAM backup
- ▶ RS-485 subLAN supports BACstat® smart network sensors, DFM I/O expansion modules or optional Modbus® gateway
- ▶ Actuator power terminal (24VDC) for each analog output simplifies wiring
- ▶ Firmware upgrade and database load/save over the network
- ▶ Service port
- ▶ Screw or DIN rail mountable
- ▶ LED indicator for each output, CPU and SCAN status

Specifications

BACnet Device Profile

BACnet Advanced Application Controller (B-AAC)

Inputs

6 universal inputs (10-bit), jumper configurable for:

0–5 VDC

0–10 VDC

10 kΩ thermistor

4–20 mA

Dry contact (using 10 kΩ thermistor jumper setting)

1 internal power monitoring input, measures total power consumption of DAC-633PoE

Outputs

2 analog outputs

0–10 VDC @ 20 mA max per output, software-configurable as binary or analog

3 binary SSR outputs

24 VDC (internally powered)

24 VAC/DC (externally powered)

1 universal output

Configurable as either 0–10 VDC or 24 VDC SSR

Device Addressing

Software addressed

Connectors

Removable screw-type terminal connectors

Wiring Class

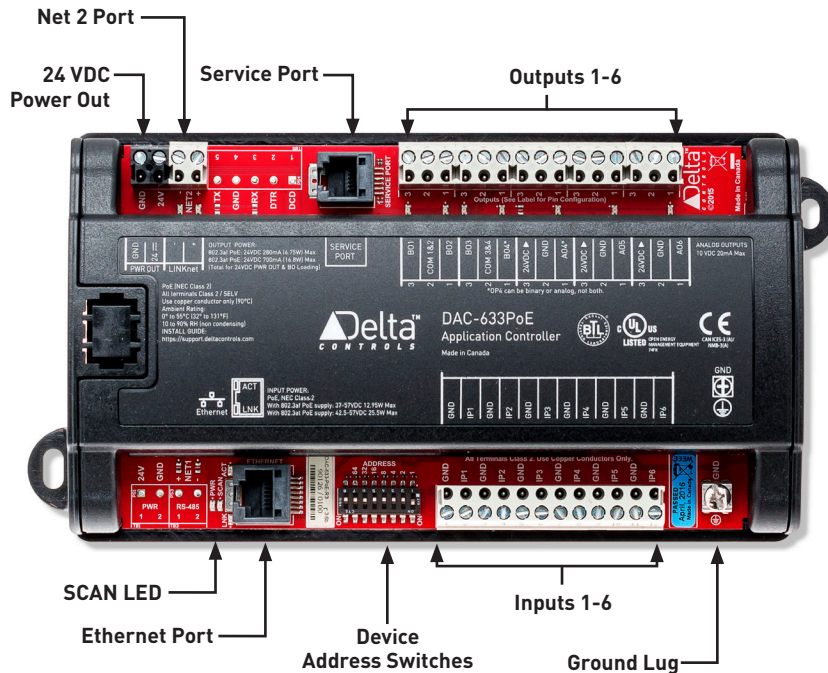
NEC Class 2 / SELV

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. EnOcean is a registered trademark of the EnOcean Alliance Inc.

Updated April 2020

Application Controllers

DAC-633PoE: Board Layout Diagrams



Ordering

Order the DAC-633PoE according to the following product numbers:

| | |
|-------------------|--|
| DAC-633PoE | Delta PoE application controller 6 universal inputs, 2 analog outputs, 3 binary outputs, 1 universal output (0-10 VDC analog or 24 VDC On/Off) |
|-------------------|--|

Accessories

| | |
|---------------------|---|
| DNS-x24 | Delta network sensor with LCD / push-button interface and up to 4 input options (temperature, humidity, CO2 and motion) |
| CON-ENOC-xxx | Delta EnOcean® Zone Gateway supporting up to 32 EnOcean wireless devices |
| CON-768BT | Bluetooth wireless service tool |

Specifications (Continued)

PoE Power In

802.3at PoE: 53 VDC, 25.5 W max*

802.3af PoE: 48 VDC, 12.95 W max*

*See installation guide for details on calculating PoE power budget.

24 VDC Power Out

802.3at PoE supply: 700 mA (16.8 W) max**

802.3af PoE supply: 280 mA (6.75 W) max**

**Max total power available for external field devices powered from 24 VDC out terminal and binary outputs 1-4.

Technology

16-bit processor

2 MB (16 megabit) flash memory

319 KB SRAM memory for database

Real-time clock

Super capacitor for 72-hour backup of real-time clock and SRAM

Communications Ports

Main LAN

Ethernet (10-BaseT)

BACnet IP, BACnet over Ethernet

SubLAN

RS-485 NET2

Delta LINKnet up to 76800 bps, max 6 devices on LINKnet with no more than 2 DFM devices

Optional Modbus up to 38400 bps, max 5 devices

Ambient

0°C to 55°C (32°F to 131°F)

10% to 90% RH (non-condensing)

Dimensions

262 × 107 × 49 mm (10⁵/₁₆ × 4¹/₄ × 11⁵/₁₆ in.)

Weight

435 g (0.959 lb)

Compliance

CE

FCC

EAC

Listings

C-UL Listed

UL 916 Listed

BTL Listed



Subject to change without notice.