

System Controllers

DSC-1180E

Description

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



Features

- ▶ Native BACnet firmware
- ▶ Fully programmable in GCL+
- ▶ BACnet IP and BACnet over Ethernet communications
- ▶ Super capacitor for real-time clock and SRAM backup (requires no maintenance)
- ▶ Supports 12 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 (can be powered internally or from an auxillary transformer)
- ▶ Firmware upgrade and database load/save over the network
- ▶ Supports Modbus capability by flash loading in the field via hardware key
- ▶ Service port
- ▶ Screw or DIN rail mountable

Application

The DSC-1180E 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 DSC-1180E can be tailored to specific applications by creating and modifying BACnet objects and GCL+ programs.

Specifications

BACnet Device Profile

BACnet Building Controller (B-BC)

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

2 MB (16 megabit) Flash memory

319 KB SRAM memory for database

LED indication of CPU and SCAN status

Real-time clock

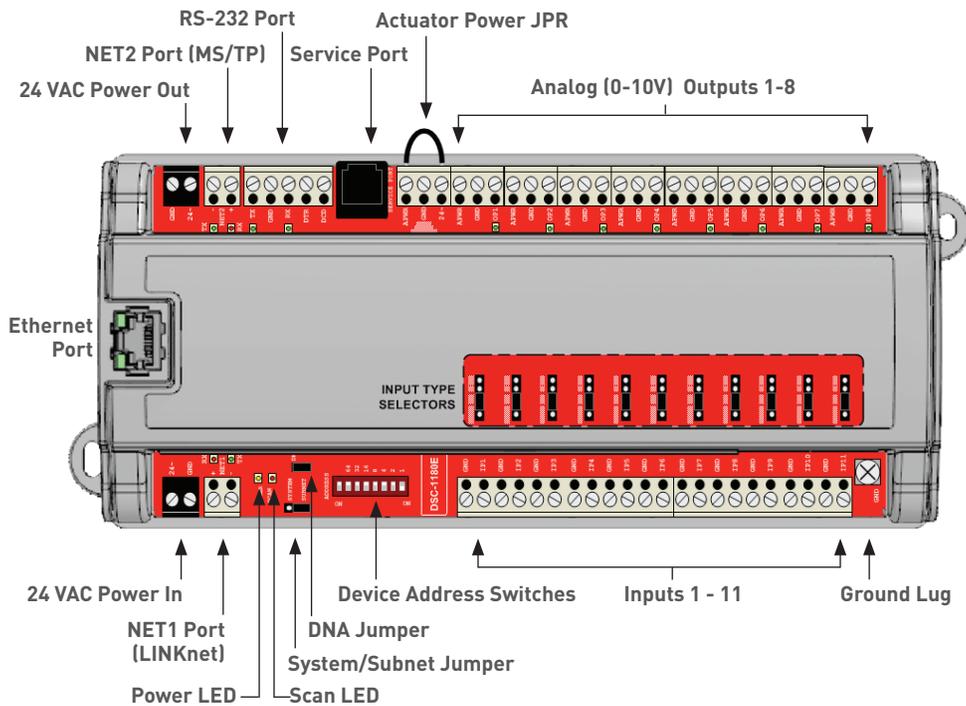
Super capacitor for 72-hr backup of real-time clock and SRAM

Device Addressing

Software addressed

System Controllers

DSC-1180E: Board Layout Diagram



Specifications (Continued)

Communications Ports

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

RS-485 NET1

Delta LINKnet @ 76800 bps (maximum 12 devices on LINKnet, with no more than 2 DFM devices)

RS-485 Net2

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

Serial RS-232 BACnet PTP 9600, 19200 or 38400 bps

Connectors

Removable screw-type terminal connectors

Wiring Class

Class 2 / SELV

Power

24 VAC
20VA

Ambient

32° to 131°F (0° to 55°C)

10 - 90% RH (non-condensing)

Dimensions

10⁵/₁₆ x 4¹/₄ x 1¹⁵/₁₆ in. (26.2 x 10.7 x 4.9 cm) with housing

0.959 lb. (435 g) with housing

Compliance

CE
FCC

Listings

C-UL
UL 916
BTL

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Subject to change without notice.

Ordering

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

DSC-1180E	Delta System Controller 11 inputs, 8 AO's
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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