

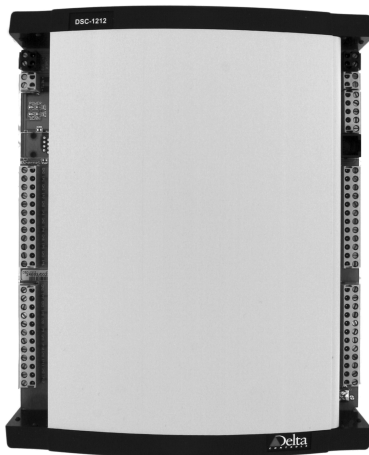
System Controllers

DSC-1212E

Description

The DSC-1212E is a fully programmable, Native BACnet™ Building Controller that communicates on a 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-1212E also supports an additional BACnet MS/TP SubLAN for VAV and other application controllers. It is designed for a wide-range of applications that have mid-sized I/O requirements. The SubLAN may be configured to support Delta BACstats and other Delta LINKnet I/O devices.



Application

The DSC-1212E is suitable for controlling equipment such as AHUs, Boilers, Chillers and a variety of HVAC control systems.

Because of its programming capability, the DSC-1212E can be used to create or modify GCL+ programs and BACnet objects for specific applications.

Features

- Native BACnet firmware
- BACnet MS/TP communications
- BACnet IP capability
- BACnet over Ethernet capability
- Integrated housing
- 12 Universal inputs and 12 Universal outputs
- 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 by flash loading in the field via hardware key
- Hand/Off/Auto switches with position feedback
- Tri-color LED's to indicate output status

Specifications

BACnet Device Profile

BACnet Building Controller (B-BC)

Inputs

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

LED status indication of each input

Outputs

12 Analog outputs - (0-10v), software configured as binary or analog

LED status indication of each output

Technology

32-bit processor

2 MB (16 megabit) Flash memory

319 KB SRAM memory for database

Real-time clock with lithium battery and SRAM backup

LED indication of CPU and SCAN status

Device Type

Configured as either an Area, System or Subnet device

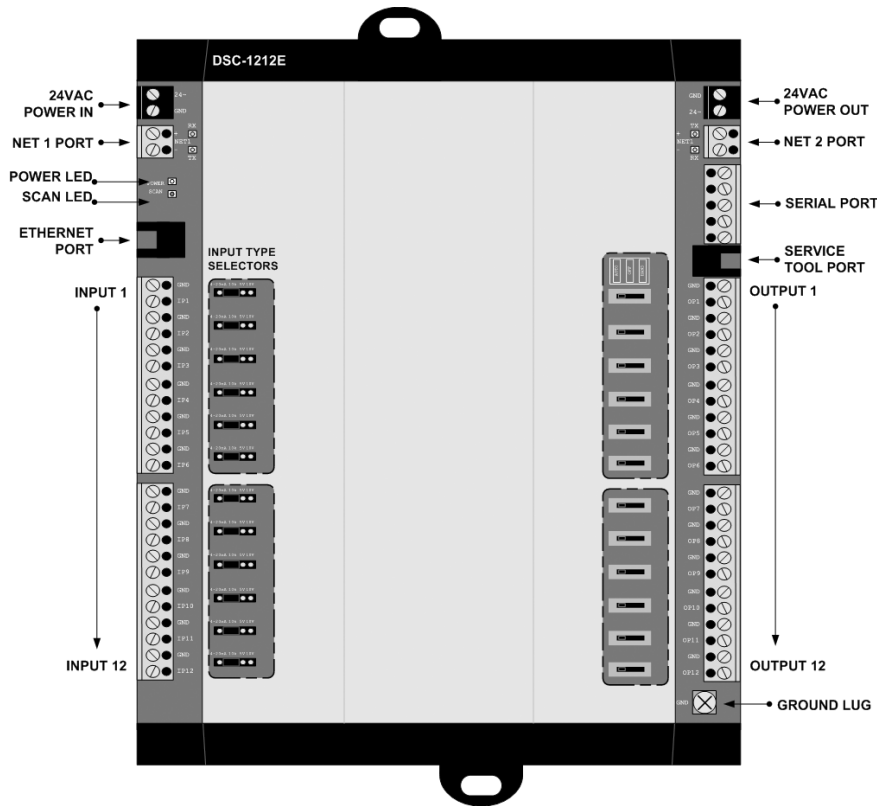
Device Addressing

Set via DIP switch and jumpers or software setup

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System Controllers

DSC-1212E: Board Layout Diagram



Accessories

DZNR-768—Delta Network Repeater for BACnet MS/TP

TRM-768—Delta Network Terminator for BACnet MS/TP

CON-768BT—Delta Network Converter

Ordering

Order the DSC-1212 with the desired options according to the following product numbers:

DSC-1212E—Controller & Housing, MS/TP LAN, Ethernet LAN/WAN, HOA Switches with Feedback

Specifications (Continued)

Communication Ports

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

Main LAN (NET1)
BACnet MS/TP @ 9600, 19200, 38400 or 76800 bps (default) (maximum of 99 devices per BACnet MS/TP segment)

SubLAN (NET2)
BACnet MS/TP (maximum 99 devices) or Delta LINKnet @ 76800 bps (maximum 12 devices on LINKnet, with no more than 2 DFM devices)

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

Connectors

Removable screw-type terminal connectors

Wiring Class

Class 2

Power

24 VAC

25 VA

Ambient

32° to 131°F (0° to 55°C)

10 - 90% RH (non-condensing)

Dimensions

10% x 8% x 2 1/2 in. (27 x 20.5 x 6.4 cm) with housing

2 lb. (900 g) with housing

Compliance

CE

FCC

Listings

UL 916 Listed

BTL Listed