

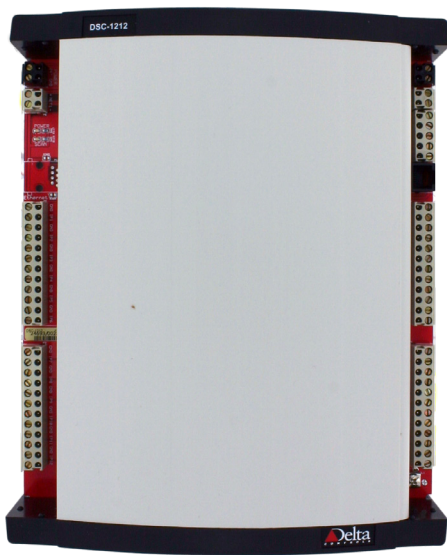
# System Controllers

## 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 controller 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 and firmware can be flash loaded over the network
- ▶ Supports Modbus® capability by flash loading in the field via hardware key
- ▶ Hand/Off/Auto (HOA) switches with position feedback
- ▶ Tri-color LEDs to indicate output status

### Specifications

#### BACnet Device Profile

BACnet Building Controller (B-BC)

#### Inputs

12 Universal Inputs (10-bit) supporting:  
0-5 VDC  
0-10 VDC  
10 kΩ Thermistor  
4-20 mA  
Dry Contact (using 10 kΩ Thermistor jumper setting)

#### Outputs

12 Universal Outputs (0-10 VDC, 8-bit), software configured as binary or analog

#### Device Addressing

Set via DIP switches and jumpers or software setup

#### Connectors

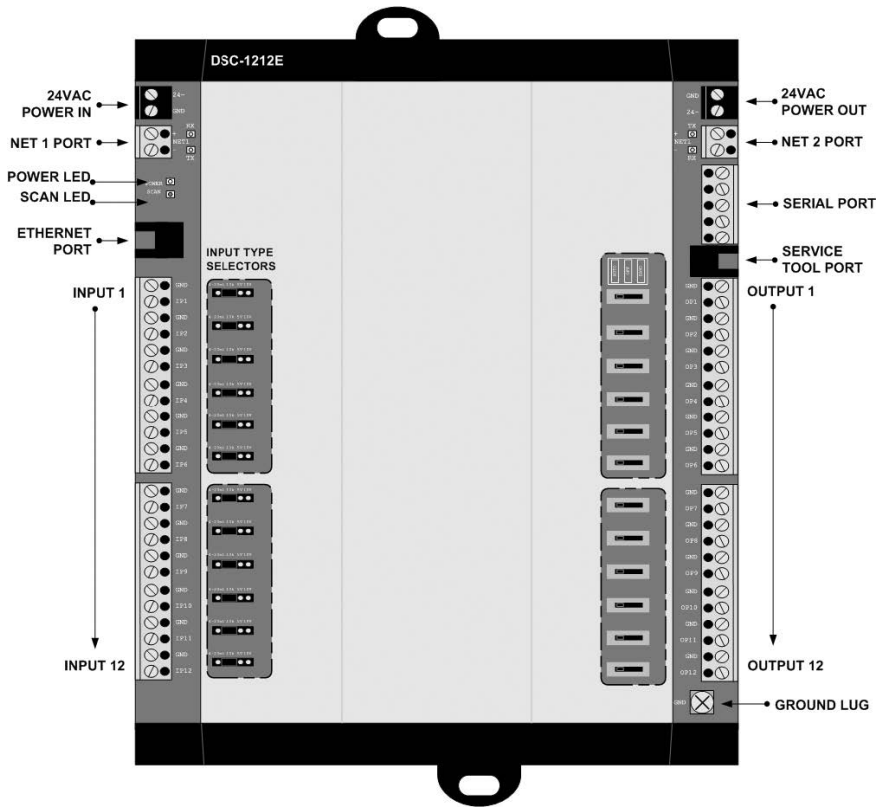
Removable screw-type terminal connectors

#### Wiring Class

Class 2

# System Controllers

## DSC-1212E: Board Layout Diagram



### Specifications (Continued)

#### Technology

16-bit processor  
 2 MB (16-megabit) flash memory  
 512 KB SRAM database memory  
 Real-time clock with lithium-ion battery and SRAM backup  
 CPU and SCAN status LED

#### Power

24 VAC 50/60 Hz @ 25 VA

#### 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), max of 99 devices per BACnet MS/TP network

#### SubLAN (NET2)

BACnet MS/TP, max 99 devices or Delta LINKnet @ 76800 bps, max 12 devices on LINKnet with no more than 2 DFM devices

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

#### Ambient

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

#### Dimensions

10<sup>5</sup>/<sub>16</sub> x 8<sup>1</sup>/<sub>8</sub> x 2<sup>1</sup>/<sub>2</sub> in. (27 x 20.5 x 6.4 cm) with housing

#### Weight

2 lb. (900 g) with housing

#### Compliance

CE  
 FCC

#### Listings

UL 916 Listed  
 BTL Listed

BACnet is a registered trademark of the American Society of Heating, Refrigerating and Air Conditioning Engineers Inc.

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Subject to change without notice.

### Ordering

Order the DSC-1212E according to the following product number:

DSC-1212E	Controller and housing, MS/TP LAN, Ethernet LAN/WAN, HOA switches with feedback
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### Accessories

DZNR-768	Delta Network Repeater for BACnet MS/TP
TRM-768	Delta Network Terminator for BACnet MS/TP
CON-768	Delta Network Converter
CON-768BT	Delta Bluetooth Network Converter
DFF099-CDT	Additional 50 credit blocks for the Modbus flash key
DFF099-KEY	Modbus flash upgrade key with 50 credits pre-loaded