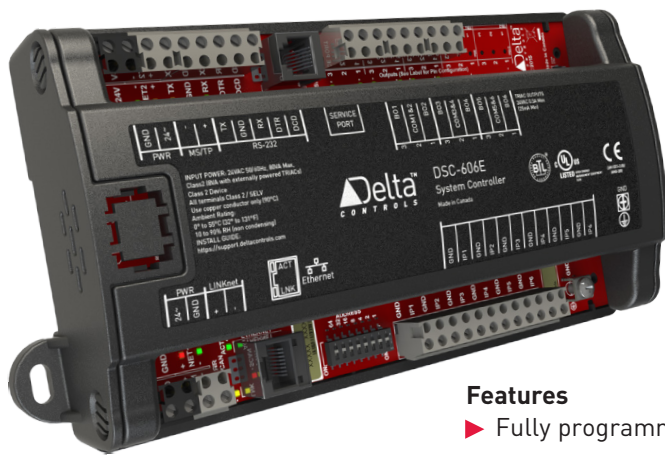


▶ System Controllers

DSC-606E

Description

The DSC-606E 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-606E is designed for a wide-range of applications that have low-density local I/O requirements. It also supports BACstat® network sensors and other Delta LINKnet devices.



Application

The DSC-606E is suitable for controlling various packaged units and equipment with low-density I/O requirements such as fan coil units, unit ventilators, heat pumps, and small boilers or chillers.

The fully programmable DSC-606E can be tailored to specific applications by creating and modifying BACnet objects and GCL+ programs.

Features

- ▶ 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
- ▶ Firmware upgrade and database load/save over the network
- ▶ Optional field upgrade to Modbus® RTU with hardware key
- ▶ Service port
- ▶ Screw or DIN rail mountable
- ▶ LED indicator for output, power, CPU and SCAN status

Specifications

BACnet Device Profile

BACnet Building Controller (B-BC)

Inputs

- 6 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

Outputs

6 Binary TRIAC Outputs (jumper configured for internal or external power)

Device Addressing

Set via DIP switches and jumper, or software setup

Connectors

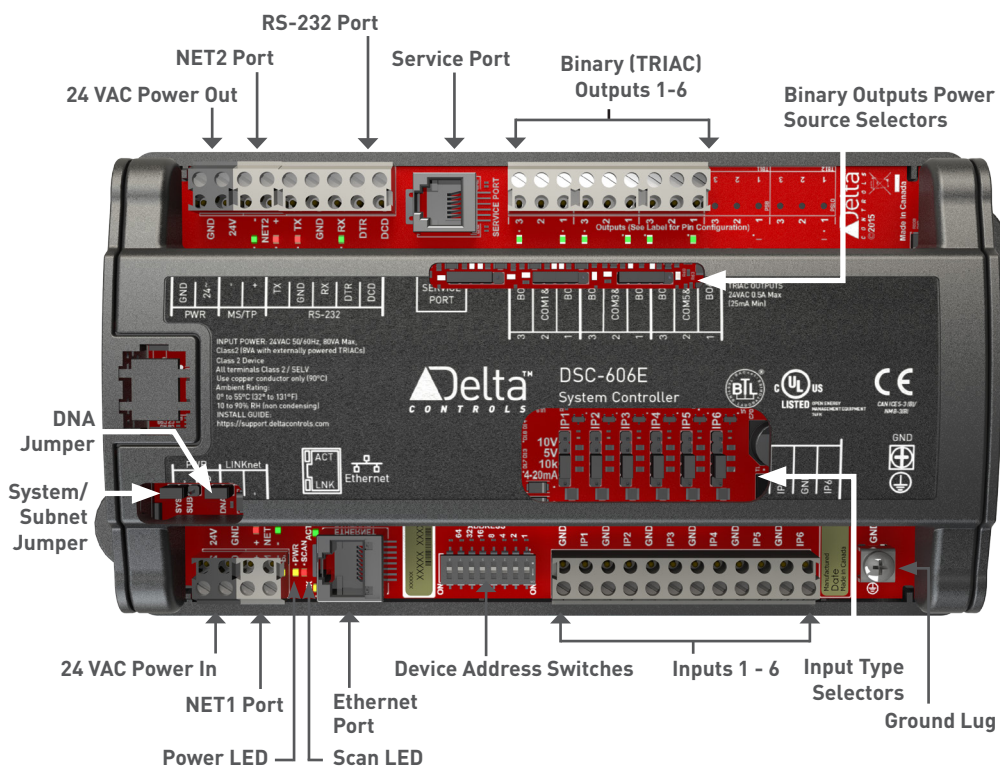
Removable screw-type terminal connectors

Wiring Class

Class 2 / SELV

System Controllers

DSC-606E: Board Layout Diagram



Specifications (Continued)

Power

24 VAC @ 8 VA, 80 VA with fully-loaded Binary Outputs

Technology

16-bit processor
2 MB (16-megabit) flash memory
319 KB SRAM memory for database
Real-time clock
Super capacitor for 72-hr backup of real-time clock and SRAM

Communications Ports

Ethernet (10-BaseT)
BACnet IP, BACnet over Ethernet

2 RS-485 NET1, NET2 supporting:
BACnet MS/TP up to 76800 bps, max 99 devices per port

Delta LINKnet up to 76800 bps, max 12 devices on LINKnet with no more than 2 DFM devices (1 port only)

Optional Modbus up to 68400 bps, max 5 devices (1 port only)

Serial RS-232
BACnet PTP, up to 38400 bps

Ambient

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

Dimensions

8½ x 4¼ x 1½¹⁶ 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
BTL Listed

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

Updated February 2016

Subject to change without notice.

Ordering

Order the DSC-606E according to the following product numbers:

DSC-606E	Delta System Controller 6 inputs, 6 binary TRIAC outputs
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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
DFF099-CDT	Additional 50 credit blocks for the Modbus flash key
DFF099-KEY	Modbus flash upgrade key with 50 credits pre-loaded