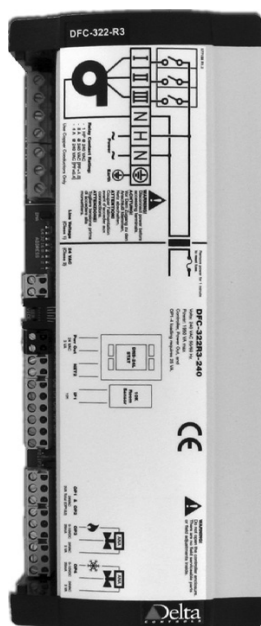


▶ Application Controllers

DFC-322R3-240 Fan Coil Controller

Description

The DFC-322R3-240 is a fully programmable, Native BACnet® Advanced Application Controller that communicates on a RS-485 LAN using the BACnet MS/TP protocol. Direct 240 VAC line voltage terminal connections are provided for 1,2 or 3 speed fans. Room temperature can be a standard 10KΩ sensor or BACstat® II, connected via a secondary LINKnet network and a 24 VAC power out connection.



Application

The DFC-322R3-240 is designed for fan coil control. With 2 TRIAC outputs and 2 analog 0-10VDC outputs, it covers a wide range of fan coil unit applications.

The DFC-322R3-240 allows for sequence modifications as required by the design engineer or building owner. It provides simple, easy-to-install fan coil control solutions for office buildings, hotels or residential buildings.

Features

- ▶ Native BACnet firmware
- ▶ BACnet MS/TP communications
- ▶ Standalone operation or on BACnet
- ▶ Fully programmable in GCL+
- ▶ Pre-loaded fan coil application database
- ▶ Direct connection to BACstat II (DNS-24 or DNS-24L)
- ▶ 2 tri-state and 2 analog outputs for relay actuation
- ▶ 3 relays rated for motor loads to control 1-, 2-, 3-speed fans, complete with interlocks and time delays for equipment protection
- ▶ Slim design fits into narrow fan coil units
- ▶ Power supplied by power mains (onboard 24 VAC transformer included)
- ▶ Derived Network Addressing (DNA) for simple integration into a standard network architecture
- ▶ Service port

Specifications

BACnet Device Profile

BACnet Advanced Application Controller (B-AAC)

Inputs

- 2 Universal Inputs (10 bit) supporting:
 - 0-5VDC
 - 0-10VDC
 - 10KΩ
 - 4-20mA
- 1 10KΩ or dry contact input (10 bit)

Outputs

- 2 Analog Outputs (0-10VDC)
- 2 Binary TRIAC Outputs
- 3 Binary Relay Outputs for fan speed control
- 240 VAC, 1HP (60 LRA/10 FLA)
- LED status indication of each output

Technology

- 1MB (8 megabit) flash memory
- 127KB SRAM memory for database
- CPU status LED

Device Address

Set via DIP switch and jumpers or software setup

Device Type

Preconfigured as a subnet device

Communication Ports

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

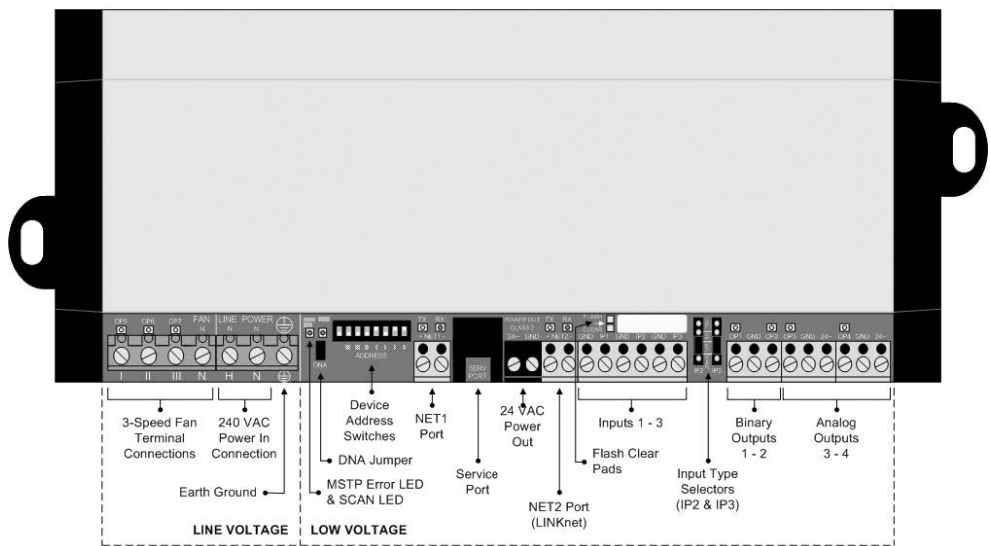
SubLAN (NET2)
Delta LINKnet @ 76800 bps (maximum 4 devices on LINKnet, with no more than 2 DFM/DNT devices per controller)

Note: On board transformer only provides enough power for 1 BACstat.

Application Controllers

DFC-322R3-240: Board Layout Diagram

DFC-322R3 Fan Coil Controller (Analog)



Specifications (Continued)

Connectors

Fixed screw-type terminal connectors (Class 1)
Removable screw-type connectors (Class 2)

Wiring Class

NEC Class 1 (Power In)
NEC Class 2, SELV (Power Out)

Power

Power In
240 VAC, 50/60 Hz
2000 VA maximum
(30 VA for internal circuitry)

Power Out (for DNS-24L)
24 VAC, 50/60 Hz
3 VA

Ambient

0° to 45°C (32 to 113°F)
10 - 90% RH (non-condensing)

Dimensions

24.13 x 10.0 x 6.96 cm (9.5 x 3.94 x 3.75 in.)
955 g (2.1 lb.)

Compliance

CE-EMC Directive 89/336/EEC and IEC 61010-1
FCC Class B
ICES Class B

Ordering

Order the Delta fan coil controller according to the following product numbers:

DFC-322R3-240	Analog fan coil controller
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Accessories

DNS-24L-FAN	Delta Network Sensor (LINKnet only) with fan keys
DZNR-768	Delta Network Repeater for BACnet MS/TP
TRM-768	Delta Network Terminator for BACnet MS/TP
CON-768	Delta Network Converter

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.

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Subject to change without notice.