Application Controllers

DFC-304R3-240 Fan Coil Controller

Description

The DFC-304R3-240 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 10 kΩ sensor or BACstat® II, connected via a secondary LINKnet network and a 24 VAC power out connection.

Application

The DFC-304R3-240 is designed for fan coil control. The binary model, with 4 additional TRIAC outputs for heating and cooling, covers a wide range of fan coil unit applications, including 2- and 4-pipe fan coils.

The DFC-304R3-240 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)
- Direct connection for up to 2 tri-state valve actuator
- 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 (on-board 24 VAC transformer included)
- Service port
- LED indicator for each output and CPU status

Specifications

BACnet Device Profile
BACnet Advanced Application Controller (B-AAC)

Inputs
2 Universal Inputs (10-bit) supporting:
- 0-5 VDC
- 0-10 VDC
- 10 kΩ Thermistor
- 4-20 mA

1 10 kΩ or Dry Contact Input (10-bit)

Outputs
4 Binary TRIAC Outputs (24 VAC)
3 Binary Relay Outputs for fan speed control
240 VAC, 1HP (60 LRA/10 FLA)

Device Addressing
Set via DIP switches and jumpers or software setup

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)