

Fan Coil Controller: eZFC-424R4-24

Description

The eZFC-424R4-24 is a native BACnet® configurable controller optimized for fan coil applications. The eZFC features line voltage relays for direct switching of fan motor loads eliminating the need for external relays.

The eZFC communicates using BACnet MS/TP on its RS-485 main LAN port. It also has a RS-485 subLAN port for the optional addition of a BACstat smart network sensor.



Features

- Native BACnet firmware allows easy integration into any BACnet system
- Local scheduling, trending and alarming support
- Easy to configure factory algorithm covering common fan coil configurations
- 3 interlocked line voltage relays for direct control of multi-speed fans plus
 1 line voltage auxiliary relay
- 4 TRIAC outputs for tri-state, binary or thermal valve actuation
- 2 Analog outputs for analog valve actuation
- Service port for convenient field access
- Firmware upgrade and database load/ save over the network
- Screw or DIN rail mountable

Specifications

BACnet Device Profile

BACnet Application Specific Controller (B-ASC)

Inputs

4 Universal Inputs (12bit), software configurable for: 0-5VDC 0-10VDC 10 KΩ Thermistor Dry Contact (using 10K setting)

Outputs

3 interlocked relays for fan speed control 120VAC: 5.8 FLA / 34.8 LRA 240VAC: 2.9FLA / 17.4 LRA 277VAC: 2.4 FLA / 14.4 LRA

1 SPST NO Auxiliary Relay 277 VAC, 10A (resistive)

4 TRIAC outputs 24VAC, 0.5A max (each) (Switching external power)

2 Analog outputs 0-10VDC @ 20mA (each)

Technology ARM Cortex M3 CPU

Communication Ports BACnet MS/TP RS-485 Main LAN @ 38400 or 76800 bps (default).

RS-485 Sub Lan: LINKnet @ 76800 bps (for addition of BACstat smart network sensor)

Device Addressing Set via DIP switch, or software



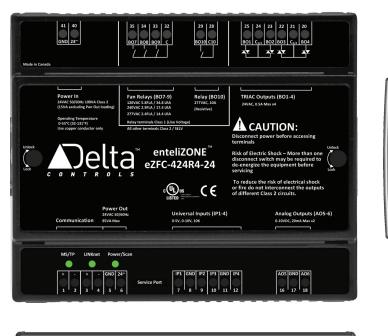
Application

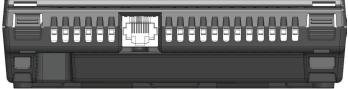
The eZFC-424R4 covers a wide range of fan coil configurations including multispeed fan control, 2 pipe or 4 pipe systems with analog, tri-state, binary or thermal valve actuator(s).

The eZFC-424R4 comes pre-loaded with a simple to configure factory algorithm.

enteli<mark>ZONE</mark>™

eZFC-424R4-24: Board Layout Diagram





Ordering

Order according to the following product numbers:

eZFC-424R4-24	enteliZONE Configurable Fan Coil Controller—24VAC power, 4x UI, 2x AO, 4x TRIACs & 4x relay outputs
Accessories	
eZ-TRM-CVR	enteliZONE Terminal Covers
DNS-24L-FAN	BACstat network sensor with temp, LCD display, pushbutton interface, and fan button option
CON-768BT	Bluetooth wireless service tool

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Specifications (Continued)

Connectors

Screw-type terminal connectors on baseplate Relay Terminals 28-35 Class 1 All other Terminals Class 2

Wiring Class

NEC Class 1 (relay terminals 28-35) NEC Class 2 (all other terminals)

Power

24VAC, 50/60Hz 100VA (15VA excluding power out loading.)

Ambient 0° to 55°C (32° to 131°C) 10—95% RH (non-condensing)

Dimensions

15.0 x 12.5 x 4.0 cm (5.9 x 4.9 x 1.6")

Mounting

35mm DIN rail or screw mount Enclosure Protection Rating IP30

Compliance CE-EMC Directive 89/336/EEC FCC Class B

Listings

C-UL UL 916

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Subject to change without notice.

