



## 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.



### Application

The eZFC-424R4 covers a wide range of fan coil configurations including multi-speed 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.

### 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 (12-bit), software configurable for:  
0-5 VDC  
0-10 VDC  
10 kΩ Thermistor  
Dry Contact (using 10 kΩ Thermistor jumper setting)

#### Outputs

3 interlocked relays for fan speed control

120 VAC: 5.8 FLA / 34.8 LRA  
240 VAC: 2.9 FLA / 17.4 LRA  
277 VAC: 2.4 FLA / 14.4 LRA

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

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

2 Analog Outputs  
0-10 VDC @ 20 mA each

#### Mounting

35 mm DIN rail or screw mount  
Enclosure Protection Rating IP30

#### Device Addressing

Set via DIP switches or software setup

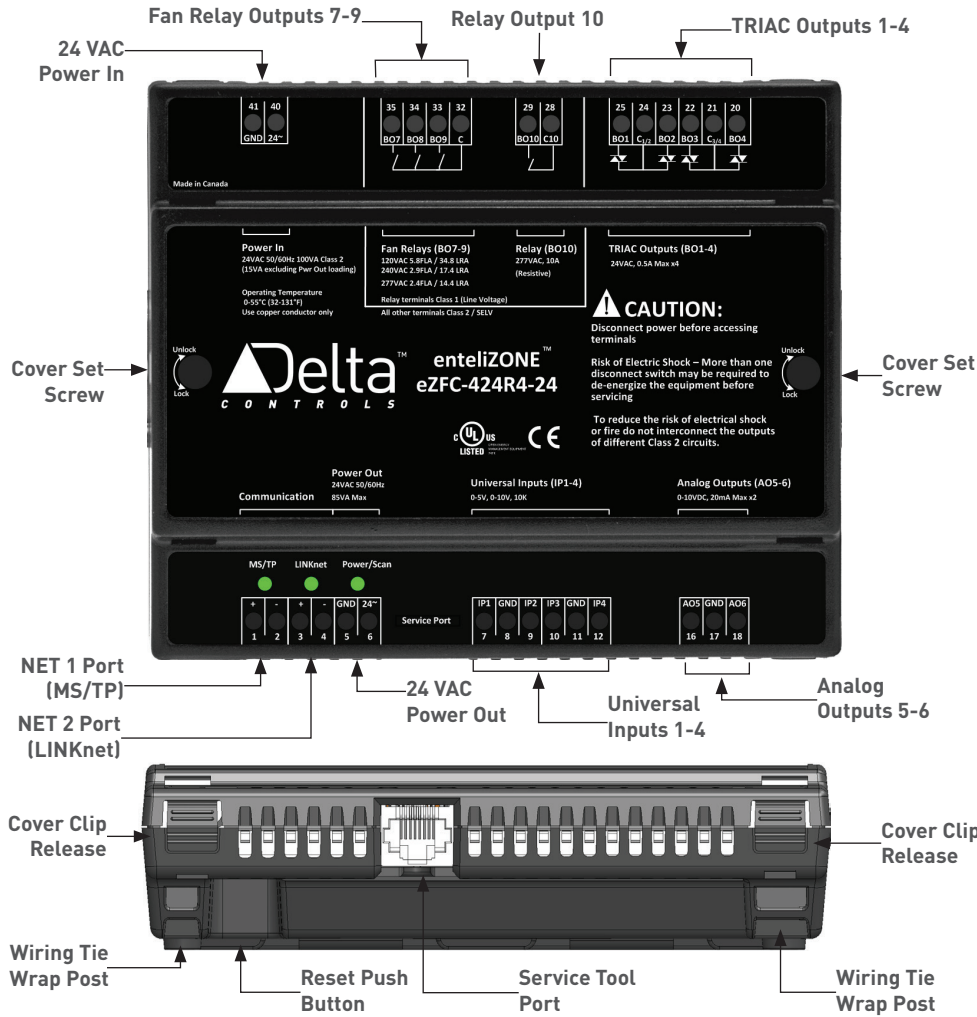
#### Connectors

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)

## eZFC-424R4-24: Board Layout Diagram



### Specifications (Continued)

**Power**  
24 VAC 50/60Hz @ 100 VA (15 VA excluding Power Out loading)

**Technology**  
ARM Cortex M3 CPU

**Communication Ports**  
RS-485 NET1  
BACnet MS/TP up to 76800 bps, max 99 devices per port

RS-485 NET2  
Delta LINKnet up to 76800 bps supports 1 DNS with -FAN button option or 1 eZNS with Mylar 046

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

**Dimensions**  
5.9 x 4.9 x 1.6 in. (15.0 x 12.5 x 4.0 cm)

**Weight**  
0.74 lb (335 g)

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

**Listings**  
C-UL Listed  
UL 916 Listed

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### Ordering

Order according to the following product numbers:

eZFC-424R4-24	enteliZONE Configurable Fan Coil Controller—24 VAC power, 4 universal inputs, 2 analog outputs, 4 TRIACs and 4 relay outputs
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### Accessories

eZ-TRM-CVR	enteliZONE terminal cover
DNS-24L-FAN	BACstat network sensor with temperature sensor, LCD display, push button interface, and fan button option
CON-768BT	Bluetooth wireless service tool

Subject to change without notice.