



## Fan Coil Controller: eZFC-424R4-24

### Description

The eZFC-424R4-24 is a native BACnet controller optimized for fan coil and heat pump applications available in both configurable and fully programmable versions. It features line voltage relays for direct switching of fan motor loads, eliminating the need for external relays.

The eZFC-424R4-24 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 enteliZONE or BACstat® smart network sensors.



### Application

The eZFC-424R4-24 includes built-in fan coil and heat pump algorithms that are easy to configure for typical applications.

While the eZFC-424R4-24 has been optimized specifically for fan coil applications, its flexible I/O mix can easily be applied to a wide range of other terminal unit applications and configurations.

The eZFCP-424R4-24 is a fully programmable model that allows you to create your own completely custom zone programs, or modify the built-in algorithm's behavior.

### Features

- ▶ Line voltage rated relays allow direct switching of fan motor loads
- ▶ Local scheduling, trending and alarming support
- ▶ Built-in configurable algorithms for quick setup and commissioning
- ▶ Optional programmable feature allows customizations for non-standard sequences or for repurposing spare I/O
- ▶ RS-485 subLAN supports up to 4 DNS or eZNS LINKnet network sensors, or up to 4 EnOcean® devices with addition of a CON-ENOC EnOcean gateway
- ▶ 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

#### Device Addressing

Set via DIP switches or software setup

#### Connectors

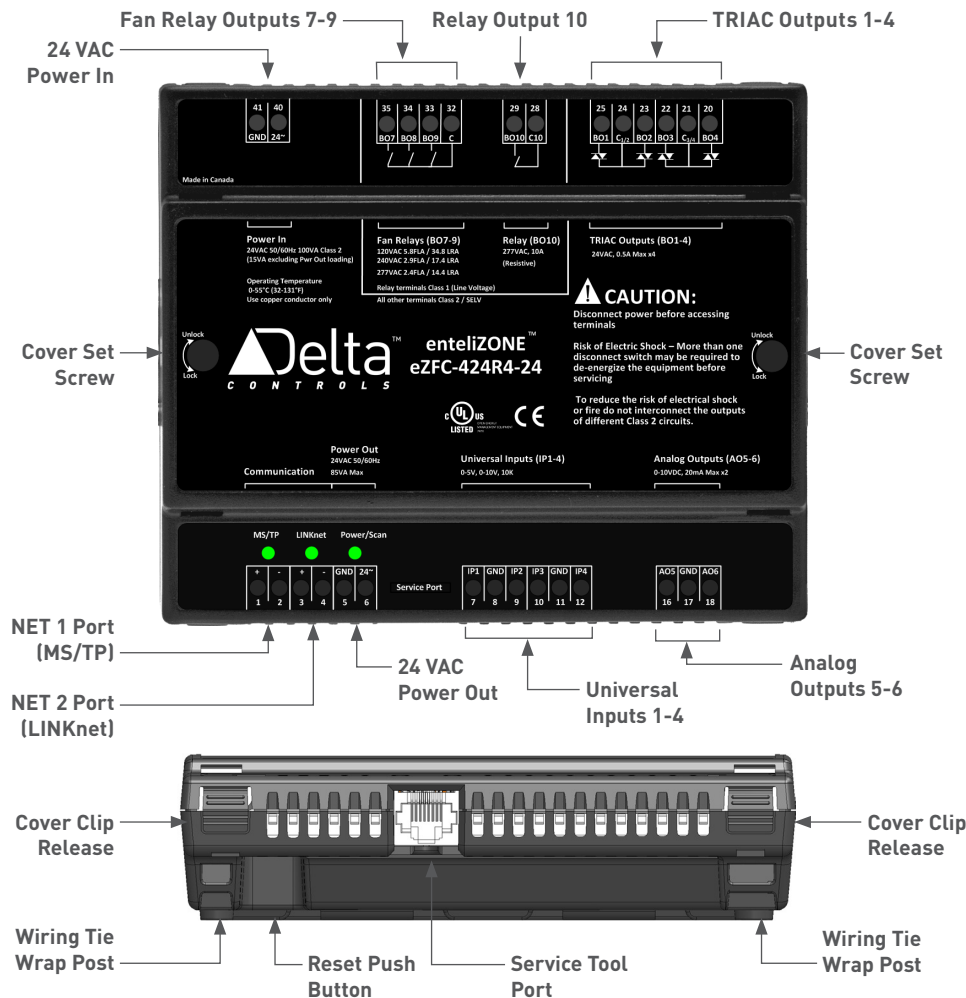
Screw-type terminal connectors on baseplate

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



### Ordering

Order according to the following product numbers:

<b>eZFC-424R4-24</b>	enteliZONE Configurable Fan Coil Controller—24 VAC power, 4 universal inputs, 2 analog outputs, 4 TRIACs and 4 relay outputs
<b>eZFCP-424R4-24</b>	enteliZONE Programmable Fan Coil Controller—24 VAC power, 4 universal inputs, 2 analog outputs, 4 TRIACs and 4 relay outputs

### Accessories

<b>eZ-TRM-CVR</b>	enteliZONE terminal cover
<b>eZNS-T100</b>	enteliZONE Network Sensor with multiple display, button and input sensor options
<b>CON-ENOC-868</b>	Delta Controls EnOcean Zone Gateway, 868 MHz Europe
<b>CON-ENOC-902</b>	Delta Controls EnOcean Zone Gateway, 902 MHz North America

### Specifications (Continued)

#### Power

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

#### Technology

Arm® Cortex® M3 CPU  
1 MB Flash  
128 KB RAM

8 Mbit external data flash

#### Communication Ports

RS-485 NET1  
BACnet MS/TP at 38400 or 76800 bps

#### RS-485 NET2

Delta LINKnet up to 76800 bps  
supports up to 4 DNS or eZNS  
network sensors on LINKnet

EnOcean Wireless (up to 4 EnOcean  
devices with addition of a CON-  
ENOC EnOcean gateway)

#### Ambient

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

#### Dimensions

15.0 × 12.5 × 4.0 cm (5.9 × 4.9 × 1.6 in.)

#### Weight

335 g (0.74 lb)

#### Enclosure Protection Rating

IP30

#### Compliance

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

#### Listings

C-UL Listed  
UL 916 Listed  
BTL Listed



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Subject to change without notice.