



# HVAC CONTROLS

eZ-440R4-230

FCU Controller

HVAC CONTROLS

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## 개요 :

The eZ-440R4-230 is a native BACnet® controller optimized for zone terminal unit applications available in both configurable and fully programmable versions. The controller is line-powered with a built-in 24 VAC inverter providing field power for low voltage peripheral devices such as sensors and valves. Line voltage rated relay outputs allow direct switching of line loads, such as fan motors. The eZ-440R4-230 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 an enteliZONE or a BACstat® smart network sensor.

## 주요 특징 :

- Line voltage rated relays allows direct switching of fan motor loads
- Universal line power input with built-in 24 VAC inverter removes need for local control transformer
- Local scheduling, trending, and alarming support
- Built-in configurable algorithms for quick setup and commissioning
- Optional programmable feature allows customization for non-standard sequences or repurposing spare I/O
- Universal outputs provide flexibility for any combination of analog, binary, or floating output stages
- Firmware upgrade and database load / save over the network
- RS-485 subLAN supports up to 4 DNS or eZNS LINKnet network sensors

## Specification :

### BACnet Device Profile

BACnet Advanced Application Controller (B-AAC)

### Inputs

4 Universal Inputs (12-bit), software configurable for:

0-5 VDC  
0-10 VDC  
10 k $\Omega$  Thermistor  
Dry Contact (using 10 k $\Omega$  Thermistor jumper setting)

### Outputs

3 relays, jumper-selectable for 3-speed fan interlocked or independent relay control

250 VAC: 5 A General Purpose 120 VAC: 4.4 FLA / 26.4 LRA 240 VAC: 2.2 FLA / 13.2 LRA 277 VAC: 1.8 FLA / 10.8 LRA

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

## Application :

The combination of line-rated relays, universal low voltage inputs and outputs ensures the eZ-440R4-230 has the I/O flexibility to cover a wide range of terminal unit applications and configurations.

The eZ-440R4-230 includes built-in fan coil algorithm that is easy to configure for typical applications. The eZP-440R4-230 is a fully programmable model that allows you to either create your own completely custom zone programs or modify the built-in algorithm's behavior.



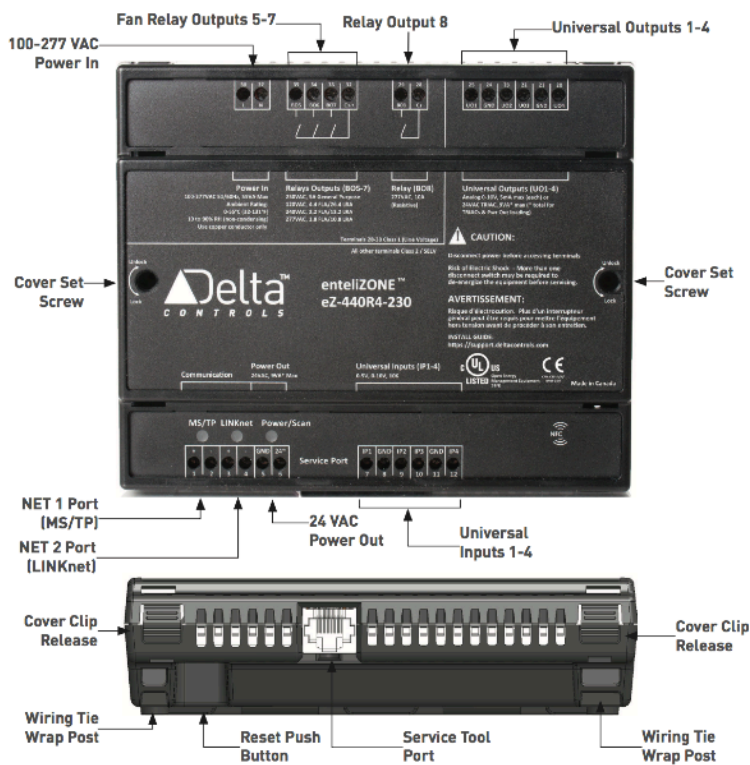


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## Board Layout Diagram :



### Ordering

Order according to the following product numbers :

**eZ-440R4-230 :**

.. enteliZONE Configurable Controller—100-277 VAC input power, 24 VAC inverter, 4 universal inputs, 4 universal outputs and 4 relay outputs

**eZP-440R4-230 :**

.. enteliZONE Configurable Controller—100-277 VAC input power, 24 VAC inverter, 4 universal inputs, 4 universal outputs and 4 relay outputs

### Accessories

**eZ-TRM-CVR :** enteliZONE terminal cover

**eZNS-T100 :**

.. enteliZONE Network Sensor with multiple display, button and input sensor options

## Specification :

### Power In

100-277 VAC, 50/60 Hz @ 55 VA max

### Power Out

24 VAC @ 9 VA max (total for Power out and TRIAC output loading)

### Technology

ARM Cortex M3 CPU

### Communication Ports

Main LAN (NET1)

BACnet MS/TP @ 38400 or 76800 bps (default)

SubLAN (NET2)

Delta LINKnet @ 76800 bps (max 4 DNS or eZNS network sensors on LINKnet)

Near Field Communication (NFC) tag

### Ambient

32° to 131°F (0° to 55°C)

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

0.730 lb (331 g)

### Enclosure Protection Rating

IP30

### Compliance

CE FCC

### Listings

C-UL Listed

UL 916 Listed UL 61010 Listed BTL Listed

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