



Turn to the Experts.™

# AppController

**Part Number: OPN-APP**

The AppController continuously monitors and regulates equipment operation with reliability and precision. The AppController's factory-engineered control programs provide optimum performance and energy efficiency for fan coil, unit ventilator, water source heat pump, and constant volume AHU operation. It also features native BACnet communications and plug-and-play connectivity to the Carrier i-Vu Open Control System. The Carrier i-Vu Open Control System combines state-of-the-art Carrier equipment, plug-and-play controllers, and the powerful, web-based i-Vu user interface to form a cohesive, intuitive, and fully-integrated BACnet® Building Automation System.

## Application Features

- Library of factory-engineered control programs for Fan Coils, Unit Ventilators, Water Source Heat Pumps, and Constant Volume AHUs
- Supports Snap graphical programming for taking control of unused I/O
- Supports Carrier SPT room sensors, which allow for local setpoint adjustment and local overrides

## Hardware Features

- Battery-backed real time-clock keeps time in the event of power failure
- Stand-alone control of up to 14 I/O points using proven algorithms
- Native BACnet MS/TP communications

## System Benefits

- Fully plug-and-play with the Carrier i-Vu Open Control System
- Supports demand limiting for maximum energy savings

## Supported Applications



**Fan Coil**



**WSHP**



**Constant Volume AHU**



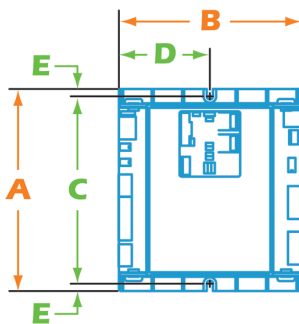
**Unit Ventilator**

# Specifications

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BACnet Support	Advanced Application Controller (B-AAC), as defined in BACnet 135-2001 Annex L
Communication Ports	<b>BACnet port:</b> EIA-485 port for BACnet MS/TP communications (baud rate is DIP switch selectable); <b>Local Access port:</b> For system start-up and troubleshooting using a PC or BACview (115.2 kbps); <b>Rnet port:</b> For connecting SPT room sensors. The Rnet port supports up to 4 SPT Standard sensors and 1 SPT Plus or SPT Pro sensor for averaging or high/low select control.
Inputs	<b>6 inputs</b> configurable for thermistor or dry contact. Inputs 1 and 2 are also configurable for 0–5 VDC. Inputs 7 and 8 are not used. AI's have 10 bit A/D resolution.
Outputs	<b>5 binary outputs:</b> Relay contacts rated at 1A max @ 24 VAC/VDC, configured normally open. <b>3 analog outputs:</b> Rated at 0-10VDC, 5mA max, with 8 bit D/A resolution using filtered PWM.
Protection	Incoming power and network connections are protected by non-replaceable internal solid-state polyswitches that reset themselves when the condition that causes a fault returns to normal. The power, network, input, and output connections are also protected against voltage transient and surge events.
Real Time Clock	Battery-backed real time clock keeps track of time in event of power failure
Battery	10-year Lithium CR2032 battery provides a minimum of 10,000 hours of trend data & time retention during power outages
Status Indicators	LED status indicators for communications, run status, error, power, and all digital outputs
Controller Addressing	Rotary DIP switches set BACnet MS/TP MAC address of controller
Listed by	UL-916 (PAZX), cUL-916 (PAZX7), FCC Part 15-Subpart B-Class A, CE EN50082-1997
Operating Temperature	0 to 130°F (-18 to 54°C), 10–90% relative humidity, non-condensing
Storage Temperature	-24 to 140°F (-30 to 60°C), 10–90% relative humidity, non-condensing
Power Requirements	24VAC ± 10%, 50-60Hz 18 VA power consumption (24 VA with BACview) 26VDC (25V min, 30V max) Single Class 2 source only, 100 VA or less

## Dimensions



## Overall

**A:** 5-5/8" (14.3cm)

**B:** 5-1/8" (13 cm)

Depth: 2" (5.1 cm)

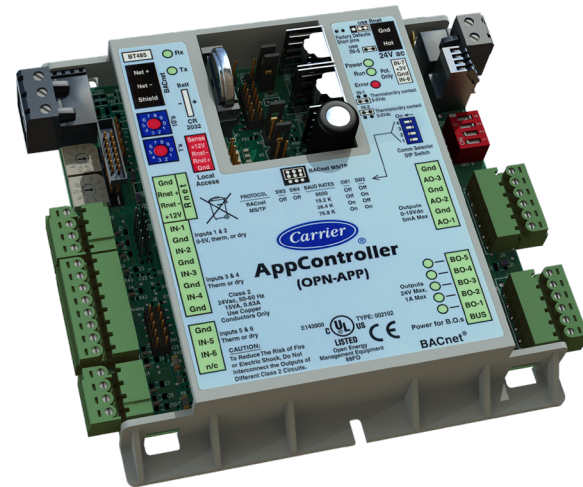
Weight: .44 lbs. (0.20 kg)

## Mounting

**C:** 5-1/4" (13.3 cm)

**D:** 2-9/16" (6.5 cm)

**E:** 3/16" (.5 cm)



Manufacturer reserves the right to discontinue, or change at any time, specifications or designs, without notice or without incurring obligations.

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