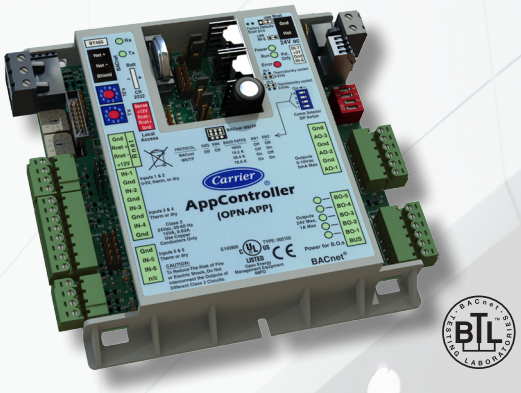
i-Vu® Building Automation System
AppController

Part Number: OPN-APP

The i-Vu® Building Automation System provides everything you need to access, manage, and control your building, including the powerful i-Vu user interface, plug-and-play BACnet controllers, and state-of-the-art Carrier equipment.

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 HVAC equipment such as fan coils, unit ventilators, water source heat pumps, and constant volume AHUs. It also features native BACnet communications and plug-and-play connectivity to the Carrier i-Vu 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 creating customized control programs
- Supports Carrier communicating 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 or ARCNET communications

System Benefits

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

Typical Applications

Fan Coil

WSHP

Constant Volume AHU

Unit Ventilator

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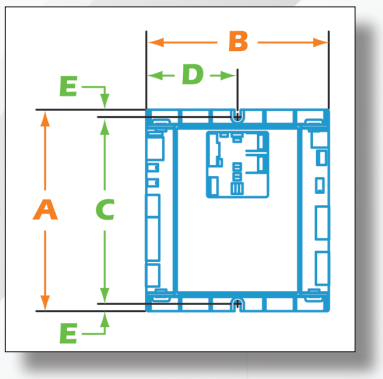
Specifications

BACnet Support	Advanced Application Controller (B-AAC), as defined in BACnet 135-2001 Annex L
Communication Ports	**BACnet port:** EIA-485 port for MS/TP (9600 bps – 76.8 Kbps) or ARCNET 156 kbps **Local Access port:** For system start-up and troubleshooting (115.2 kbps); **Rnet port:** For connecting Carrier communicating room sensors and Carrier's touchscreen user interface.
Inputs	**6 inputs** 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	**5 binary outputs:** Relay contacts rated at 1A max @ 24 VAC/VDC, configured normally open. **3 analog outputs:** 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 solidstate 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 or ARCNET MAC ddress of controller
Listed by	UL-916 (PAZX), cUL-916 (PAZX7), FCC Part 15-Subpart B-Class A, CE EN50082-1997
Environmental Operating Range	**Operating:** 0 to 140°F (-18 to 54°C), 10–90% relative humidity, non-condensing **Storage:** -24 to 140°F (-30 to 60°C), 10–90% relative humidity, non-condensing
Power Requirements	24VAC ± 10%, 50-60Hz 18 VA power consumption 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) **Mounting** **D:** 2-9/16" (6.5 cm) **C:** 5-1/4'" (13.3 cm) **E:** 3/16" (.5 cm) **Depth:** 2" (5.1 cm) **Weight:** .44 lbs. (0.20 kg)



Carrier
United Technologies

CONTROLS EXPERT

Tested. Certified. Factory Authorized.

For more information, contact your local Carrier Controls Expert.
Controls Expert Locator:
www.carrier.com/controls-experts

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