i-Vu® Building Automation System
UC Open XP

Part Number: OPN-UCXP

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 UC Open XP controller provides auxiliary building control to interface with air handlers, chiller plants, hot water systems, lighting, and other HVAC equipment. The UC Open XP's factory-engineered control programs provide simple building integration for commercial applications with 24 I/O point capability. The UC Open XP also provides support for 24 additional I/O points through the use of the UC Open XP IO Expander. When combined, these controllers can support up to 48 total I/O points for even greater flexibility.

Application Features

- Comprehensive library of factory-engineered control programs available for air and water systems, including: CV and VAV AHU control, WSHP loop control (boilers/towers/pumps), chiller plant control, hot water systems, lighting control, metering, and network data sharing
- 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
- Supports up to 48 I/O points with UC XP IO expander
- Native BACnet MS/TP or ARCNET communications

System Benefits

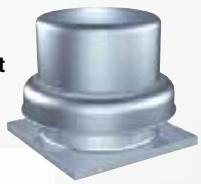
- Integrated Carrier linkage algorithm for plug-and-play integration with Carrier systems
- Fully plug-and-play with the Carrier i-Vu Building Automation System
- Supports demand limiting for maximum energy savings

Sample Applications

AHUs

Boilers

Lighting



Exhaust Fans

Water Loop Control

Electric Meters

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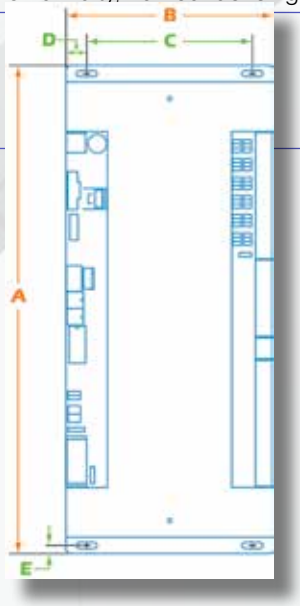
Specifications

BACnet Support	Advanced Application Controller (B-AAC), as defined in BACnet 135-2001 Annex L
Communication Ports	**BACnet port:** EIA-485 port for BACnet MS/TP communications (baud rate is DIP switch selectable) 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	**12 inputs:** Configurable for 0-10V, RTD/Thermistor/Dry contact, or 0-20mA. Inputs 1 and 2 may be used for pulse counting. All analog inputs have 12 bit A/D resolution.
Outputs	**6 analog outputs:** 1 and 2 are configurable for 0-10V or 0-20mA; 3-6 are 0-10V only. Analog outputs have 8 bit D/A resolution. **6 binary outputs:** Configured as dry contact, normally open or normally closed. All binary outputs must be powered from a Class 2 power source.
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 of power, running, and errors. LED indicators for transmit/receive for BACnet port and for each of the 12 outputs
Controller Addressing	Rotary DIP switches set BACnet MS/TP or ARCNET address of controller
Listed by	UL-916, FCC Part 15-Subpart B-Class A, CE EN50082-1997
Environmental Operating Range	**Operating:** 0 to 140°F (-30 to 60°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 20 VA power consumption 26VDC (25V min, 30V max) Single Class 2 source only, 100 VA or less
Dimensions	**Overall** **A:** 11-13/16" (30 cm) **B:** 5" (12.7 cm) **Mounting** **D:** 4" (10.2 cm) **C:** 1/2'" (1.3 cm) **E:** 13/64" (.5 cm) **Depth:** 2" (5.1 cm) **Weight:** 1.1 lbs. (0.50 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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