The UC Open XP Controller provides auxiliary building control to interface with lighting, fans, pumps, and other HVAC equipment. The UC Open XP's pre-engineered algorithms 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. The UC Open XP 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**

- Comprehensive library of pre-engineered algorithms available through the ApplicationBuilder Tool
- Supported functions include: Constant Volume (CV) Cooling and Heating Control, Dehumidification, CV Mixed Air Damper Optimization, Fan Control, Pump Control, Lighting Control, Indoor Air Quality, Generic PID Control, Time Scheduling with/without Override, Analog Temperature Control, Discrete Interlock, Discrete Staging Control, Permissive Interlock, Set Point Reset, Optimal Start/Stop, WSHP Loop Control
- Supports Carrier SPT room sensors, which allow for local setpoint adjustment and local overrides

**System Benefits**

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

**Hardware Features**

- Real time-clock keeps time in the event of power failure
- UC Open XP supports up to 24 I/O points; add UC Open XP IO Expander to support up to 48 I/O points
- Native BACnet MS/TP communications
Specifications

Part Number: OPN-UCXP

BACnet Support
Conforms to the Advanced Application Controller (B-AAC) Standard Device Profile as defined in BACnet 135-2001 Annex L

Communication Ports
BACnet port: EIA-485 port for BACnet MS/TP communications (9600 bps, 19.2 kbps, 38.4 kbps, & 76.8 kbps); Local Access port: For system start-up and troubleshooting using a PC or BACview (115.2 kbps); Rnet port: For connecting SPT room sensors. The Rnet port supports up to four SPT Standard sensors and one SPT Plus or SPT Pro sensor for averaging or high/low select control. Xnet Remote Expansion port: For connecting to a UC Open XP IO Expander via the Xnet network.

Inputs
Twelve 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
Six analog outputs - AOs 1 and 2 are configurable for 0-10V or 0-20mA; AOs 3 through 6 are 0-10V only. Analog outputs have 10 bit D/A resolution. Six binary outputs: Relay contacts rated at 5A resistive @ 250VAC; configured as dry contact, normally open or normally closed.

Protection
Incoming power and network connections are protected by non-replaceable internal solid-state polyswitches that reset themselves when the condition that caused 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

Battery
10-year Lithium CR2032 battery provides a minimum of 10,000 hours of trend data & time retention during power outages.

Status Indicators
Visual (LED) status of power, running, and errors. LED indicators for transmit/receive for BACnet port and for each of the 12 outputs.

Addressing
Rotary dip switches set BACnet MS/TP address of controller

Listed by
UL-916, FCC Part 15-Subpart B-Class A, CE EN50082-1997

Environmental Operating Range
-20°F to 140°F (-29°C to 60°C); 10 to 95% relative humidity, non-condensing. *For indoor use only

Power Requirements
24VAC ± 10%, 50 to 60 Hz, 20 VA power consumption, single Class 2 source only, 100 VA or less

Dimensions

<table>
<thead>
<tr>
<th>Overall</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>A: 11-13/16&quot; (30 cm)</td>
<td>C: 4&quot; (10.2 cm)</td>
</tr>
<tr>
<td>B: 5&quot; (12.7 cm)</td>
<td>D: 1/2&quot; (10.3 cm)</td>
</tr>
<tr>
<td>E: 13/64&quot; (0.5 cm)</td>
<td></td>
</tr>
</tbody>
</table>

Depth: 2" (5.1 cm)-min. panel depth

Weight: 1.1 lbs (0.5 kg)

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

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