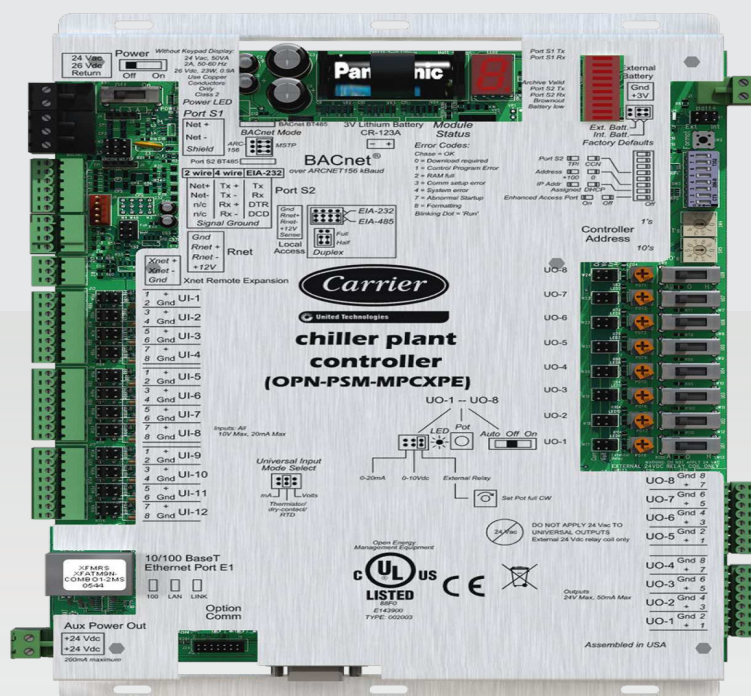


Su socio estratégico en soluciones de control





i-Vu® Building Automation System Carrier® ChillerVu™ - PSM-IO

Part Number: OPN-PSM-MPCXPE



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.

Carrier® ChillerVu™ is a sophisticated, scalable, native BACnet® control solution for chiller plant control and operation. The Carrier ChillerVu works in conjunction with a library of factory-engineered control programs that are specifically designed to cover the most common chiller plant configurations.

System Benefits

- Compatible with Carrier's 19, 23, and 30-series chillers (air or water-cooled)
- Easy startup and commissioning using the i-Vu Pro user interface
- Fully plug-and-play with the Carrier i-Vu Building Automation System. As an integrated component of the i-Vu BAS, the controller can respond to the needs of the building, automatically starting or stopping the plant, resetting the chilled water supply temperature, and matching the tonnage produced to the tonnage required by the building.
- Supports integration to chiller plant equipment using Carrier CCN®, BACnet, Modbus®, and LonWorks®¹ protocols
- Embedded trends and alarms provide insight on chiller plant performance and also aid in system troubleshooting and maintenance

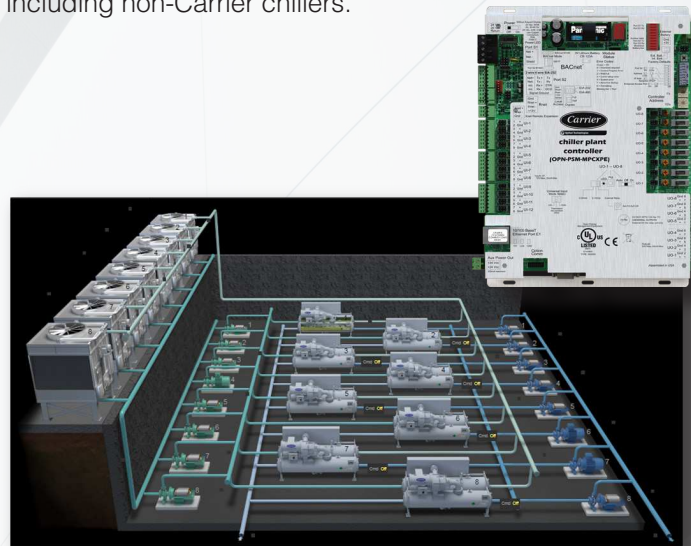
Software Features

- Supports library-driven programming using EquipmentBuilder
- Supports custom programming using Snap

Animated Chiller Plant Graphics

- High quality, automatically generated plant room graphics, requiring minimal user input
- Basic, representative piping layout showing relational equipment locations
- Equipment complement selectable from within EquipmentBuilder
- Up to eight chillers, towers, condenser and chilled water pumps in any combination
- Live status data, plus animation indicating equipment running state

These factory-engineered control programs are designed to provide control over all aspects of a chiller plant, coordinating the control of chillers, pumps and towers into a finely tuned, cohesive system. Whether you have 2 or 20 chillers, the i-Vu chiller plant controller is able to control Carrier 19, 23, or 30 series chillers (air or water-cooled). It also has full integration capabilities, allowing it to monitor and control other equipment in the chiller plant as well, including non-Carrier chillers.



Energy Saving Capabilities

- Enhanced chiller staging dynamically matches the number of running chillers to building load
- Variable flow pump sequences minimize pump energy consumption
- Staged and variable speed tower fans minimize tower fan energy consumption
- Demand limiting limits plant energy consumption to fixed levels, avoiding excess electrical demand charges
- Sophisticated system scheduling reduces unnecessary plant run time

Sampling of Supported Control Features

- Preconfigured, user editable energy dashboards – actionable plant energy data graphically displayed
- Enhanced staging via chiller, tower, and pump manager programs
- Application specific staging of Carrier 23XRV chillers (series counterflow)
- Variable primary flow chilled water pumping
- Variable flow condenser pumping
- Staged and variable speed tower fans

¹Requires Serial LonTalk Adapter (SLTA-10), available from Echelon Corporation.



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BACnet Support	Advanced Application Controller (B-BC), as defined in BACnet 135-2012 Annex L, Protocol Rev. 9
Communication Ports	Ethernet Port (E1): 10/100 BaseT Ethernet port for LAN/BACnet IP/Modbus TCP/IP communications BACnet Port (S1): BACnet MS/TP port - 9600 bps, 19.2 kbps, 38.4 kbps, or 76.8 kbps Integration Port (S2): DIP-switch selectable port for CCN, Modbus, or LonWorks communications Local Access port: For system start-up and troubleshooting (115.2 kbps) Rnet port: For connecting Carrier communicating room sensors and Carrier's touchscreen interface Xnet Remote Expansion port: For communication with up to 6 MPC Open XPIO48 and/or MPC Open XPIO816 expanders (500 kbps). Connection options: Mount 1 on top of Carrier ChillerVu controller, mount in a stack, or mount remotely up to 100 ft. away from Carrier ChillerVu controller.
Inputs	12 universal inputs, configurable for 0-5 VDC, 0-10 VDC, 0-20 mA, thermistor (5k, 10k Type II), 1k RTD (Platinum, Nickel, or Balco), and Dry Contact. All have 14 bit A/D and support up to 40 pulses per second (12.5 msec min. pulse).
Outputs	8 universal outputs, jumper configurable for 0-10 VDC, 0-20 mA (12 bit A/D), or 24 VDC (50 mA relay drive). HOA (hand/off/auto) switches for all outputs, including potentiometer for manual adjustment of analog outputs.
Protection	Incoming power: replaceable 3 Amp Pico® fuse Network: non-replaceable internal solid-state polyswitches that reset themselves when fault clears The power, network, and I/O are also protected against voltage transient and surge events.
Battery	10-year Lithium CR123A battery provides a maximum of 720 hours of time retention during power outages.
Status Indicators	LED status for communications and low battery. 7-segment status display for running, error, and power.
Listed by	UL-916 (PAZX), cUL-916 (PAZX7), CE, FCC Part 15-Subpart B-Class A
Addressing	Rotary dip switches set BACnet MS/TP address
Real Time Clock	Battery-backed real time clock
Environmental Operating Range	-Operating: 0 to 140°F (-18 to 60°C), 0 to 90% RH, non-condensing -Storage: -24 to 140°F (-30 to 60°C), 0 to 90% RH, non-condensing
Power Requirements	24VAC ± 10%, 50-60Hz 50 VA power consumption 26VDC (25V min, 30V max), 23W Single Class 2 source only, 100 VA or less

Dimensions

Overall

A: 11-5/16" (28.7 cm)

B: 7-1/2" (19 cm)

Mounting

C: 10-7/8" (27.6 cm)

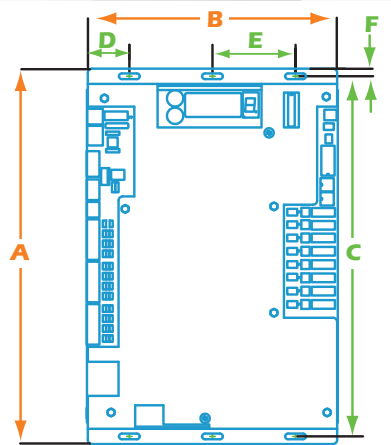
D: 1-1/4" (3.2 cm)

E: 2-1/2" (6.4 cm)

F: 1/4" (.6 cm)

Depth: 1-7/16" (3.7 cm)

Weight: 1.7 lbs (0.8 kg)



CONTROLS EXPERT

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For more information, contact
your local Carrier Controls Expert.
Controls Expert Locator:
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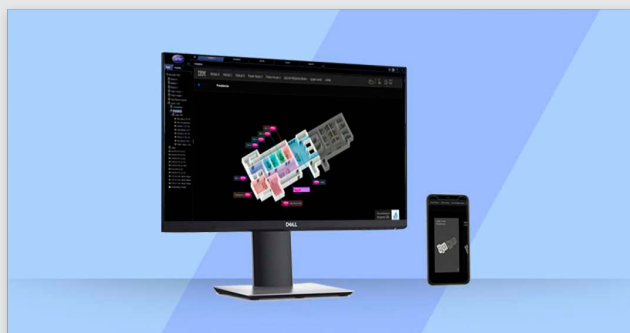
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Pruebe nuestra demo i-Vu

Experimente nuestra interfaz gráfica para el control de equipos que se encuentran en los sistemas de edificios e industrias. Interactúe como si fuera un operador mediante el sistema i-Vu.

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