Carrier

TruVu



i-Vu® Building Automation System

TruVu™ UCXP I/O Expander

Part Number: TV-UCXPIO48

The Carrier TruVu™ UCXP I/O expander provides up to 12 additional I/O points for the TruVu UCXP683T and TruVu UCXP683T-V controllers. Flexible and versatile, the TruVu UCXP controller and expander combine to accomplish both common and custom HVAC control strategies.

i Vu

Application Features

- Comprehensive library of factory-engineered control programs available for complete air-side and water-side system control
- Graphically programmable using the Snap programming tool

Hardware Features

- Adds up to 4 outputs and 8 inputs (12 points total), to a TV-UCXP controller
- Removable screw terminals for I/O connections
- Supports din-rail or screw tab mounting
- Hand-Auto-Off switches on all output channels
- Software selectable configuration - no jumpers
- Expanders can be mounted to TV-UCXP in a compact configuration or remotely mounted up to 1000 feet away

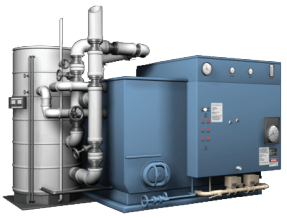
System Benefits

- 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



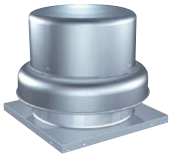
AHUs



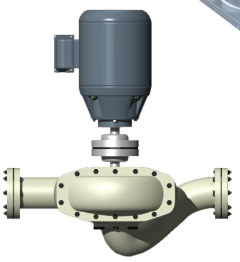
Boilers



Lighting



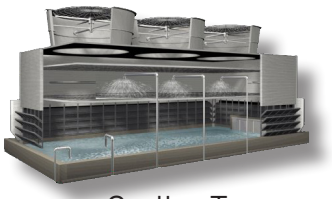
Exhaust Fans



Water Loop Control



Meters



Cooling Towers



Chillers

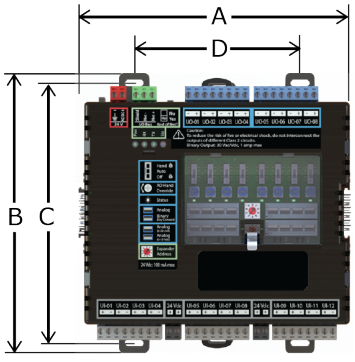
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TruVu™ UCXP I/O Expander

Part Number: TV-UCXPIO48

Specifications

Communication Ports	**IO Bus port:** Provides communication to a wired TruVu UCXP I/O expander that is powered by an external power supply.
Inputs	8 inputs -Inputs software configurable for 0-5 VDC, 0-10 VDC, 0-20 mA, thermistor, dry contact, or pulse counter -Inputs are 16 bit A/D and support up to 40 pulses per second (12.5 msec per pulse).
Outputs	4 outputs - Outputs can be set as analog or binary outputs. - Analog outputs can be used for 0-10 VDC or 0-20 mA (12 bit A/D). - Binary outputs have a built-in relay and can be used to switch external devices or relays up to 1A, 30VAC/VDC.
Protection	Two fast acting, 5mm x 20mm glass fuses: -A 2A fuse for the TV-UCXPIO expander's power -**Physical:** Fire-retardant plastic ABS, UL94-5VA
Status Indicators	LED status of communications, power, running, errors, and outputs
Compliance	**United States**: FCC compliant to Title CFR47, Part 15, Subpart B, Class A; UL Listed, File E143900; CCN PAZX, UL916, Energy Management Equipment; **AS/NZS**: RCM Mark, IEC 61000-6-3; **Canada**: UL Listed File E143900, CCN PAZX7, CAN/CSA C22.2 No. 205 Signal Equip., Industry Canada Compliant ICES-003, Class A; **CE Mark** Compliant with 2014/30/EU, and RoHS Compliant: 2015/863/EU; **UKCA Mark** compliant with Electromagnetic Compatibility Regulations 2016 – Gov.UK and RoHS for Electrical and Electronic Equipment 2012, REACH compliant
Environmental Operating Range	**Operating:** -40 to 158ºF (-40 to 70ºC), 10 to 95% RH, non-condensing. **NOTE:** Install in a UL listed enclosure only.
Power Requirements	24VAC ± 10%, 50-60Hz 50 VA power consumption 26VDC ± 10%, 12W
Dimensions	**Overall** **A:** 6.9 in. (17.53 cm) **B:** 6.95 in. (17.65 cm) **Mounting** **C:** 6.45 in. (16.38 cm) **D:** 4.1 in. (10.4 cm) **Depth:** 2.09 in. (5.31 cm) **Weight:** 1.1 lbs (0.49 kg)



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For more information, contact your local Carrier Controls Expert.

Controls Expert Locator:
www.carrier.com/controls-experts