

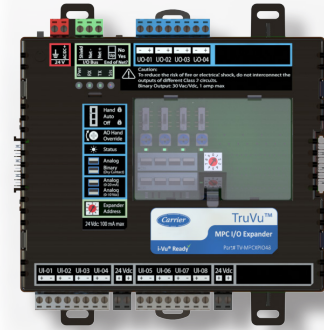


i-Vu® Building Automation System

TruVu™ MPC I/O Expanders

Part Numbers: TV-MPCXPIO48, TV-MPCXPIO812, TV-MPCXPIO012

TruVu



The Carrier® TruVu™ MPC I/O expanders provide I/O point capacity for the TruVu MPC Processor. Flexible and versatile, the TruVu MP Processor supports multiple I/O configurations for accomplishing both common and custom HVAC control strategies.



Application Features

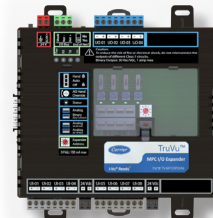
- Comprehensive library of factory-engineered control programs available for complete air-side and water-side system control
- Graphically programmable using the Snap programming tool

Hardware Features

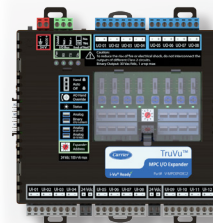
- Adds up to 180 I/O points to the TruVu MPC Processor
- Removable screw terminals for I/O connections
- Supports din-rail or screw tab mounting
- Hand-Auto-Off switches on all output channels
- Software selectable configuration - no jumpers
- Expanders can be mounted to MPC processor in a compact configuration or remotely mounted up to 1000 feet away

System Benefits

- Fully plug-and-play with the Carrier i-Vu® building automation system
- Supports demand limiting and optimal start for maximum energy savings
- Compatible with i-Vu Tenant Billing for tracking tenants' after-hours energy usage



TV-MPCXPIO48
4 outputs & 8 inputs
12 points total



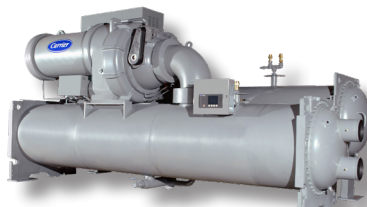
TV-MPCXPIO812
8 outputs & 12 inputs
20 points total



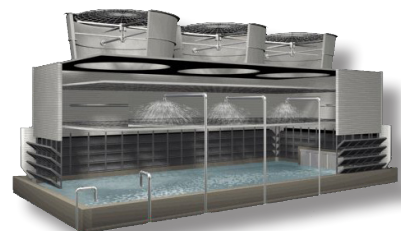
TV-MPCXPIO012
12 inputs
12 points total



AHUs



Chillers



Cooling Towers

Part Numbers: TV-MPCXPIO48, TV-MPCXPIO812,
TV-MPCXPIO012

Specifications

Communication Ports	IO Bus port: Provides communication for wired TruVu MPC I/O expanders that are powered by external power supplies. IO Bus edge connector: 6-pin connector that provides communication and power to a directly-connected TruVu MPC I/O expander
Inputs	TV-MPCXPIO48: 8 inputs TV-MPCXPIO812: 12 inputs TV-MPCXPIO012: 12 inputs -Inputs software 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. -Inputs are 16 bit A/D and support up to 60 pulses per second (8.33 msec per pulse).
Outputs	TV-MPCXPIO48: 4 outputs TV-MPCXPIO812: 8 outputs - Outputs can be set as analog or binary outputs. - Analog outputs can be used for 0-10 VDC, 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. - HAO (hand/auto/off) switches are on each output, including potentiometers for manual adjustment of analog outputs.
Protection	Two fast acting, 5mm x 20mm glass fuses: -A 2A fuse for the TV-MPCXPIO expander's power -A 4A fuse for the I/O bus edge connector -The power and network ports comply with the EMC requirements EN50491-5-2.
Status Indicators	LED status of communications, power, running, errors, and outputs
Compliance	United States of America: FCC compliant to Title CFR47, Chapter 1, Subchapter A, Part 15, Subpart B, Class A; UL listed to UL916, PAZX, Energy Management Equipment; Canada: Industry Canada Compliant, ICES-003, Class A; cUL listed UL 916, PAZX and Energy Management Equipment Europe: EN50491-5-2:2009; Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light industry environment EN50491-3:2009, Part 3: Electrical safety requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) Low Voltage Directive: 2014/35/EU RoHS Compliant: 2011/65/EU Australia and New Zealand: C-Tick Mark, AS/NZS 61000-6-3
Environmental Operating Range	Operating: -40 to 158°F (-40 to 70°C) 10 to 95% RH, non-condensing
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)

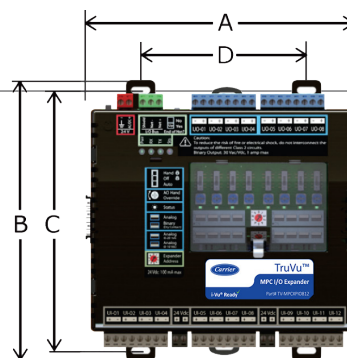
Mounting

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)



For more information, contact
your local Carrier Controls Expert.

Controls Expert Locator:

www.carrier.com/controls-experts