



i-Vu® Building Automation System TruVu™ MPC I/O Expanders

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



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

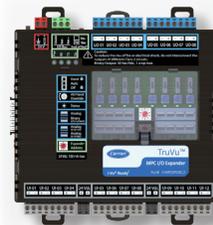
- Adds up to 180 I/O points to the TruVu MPC Processor
- Removable screw terminals for I/O connections
- Supports din-rail or screw tab mounting
- Hand-Auto-Off switches on all output channels
- Software selectable configuration - no jumpers
- Expanders can be mounted to MPC processor in a compact configuration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



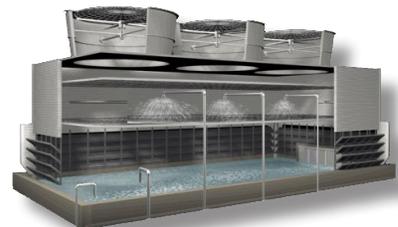
TV-MPCXPIO012
12 inputs
12 points total



AHUs



Chillers



Cooling Towers

i-Vu® Building Automation System

TruVu™ MPC I/O Expanders



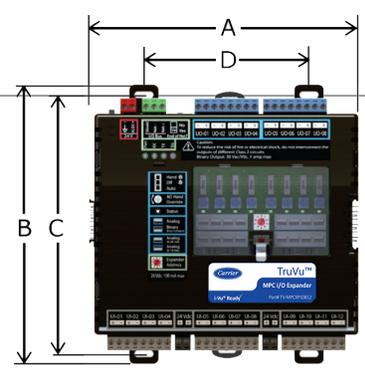
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TV-MPCXPIO012

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	<p>TV-MPCXPIO48: 8 inputs</p> <p>TV-MPCXPIO812: 12 inputs</p> <p>TV-MPCXPIO012: 12 inputs</p> <p>-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.</p> <p>-Inputs are 16 bit A/D and support up to 60 pulses per second (8.33 msec per pulse).</p>
Outputs	<p>TV-MPCXPIO48: 4 outputs</p> <p>TV-MPCXPIO812: 8 outputs</p> <p>- Outputs can be set as analog or binary outputs.</p> <p>- Analog outputs can be used for 0-10 VDC, 0-20 mA (12 bit A/D).</p> <p>- Binary outputs have a built-in relay and can be used to switch external devices or relays up to 1A, 30Vac/ Vdc.</p> <p>- HAO (hand/auto/off) switches are on each output, including potentiometers for manual adjustment of analog outputs.</p>
Protection	<p>Two fast acting, 5mm x 20mm glass fuses:</p> <p>-A 2A fuse for the TV-MPCXPIO expander's power</p> <p>-A 4A fuse for the I/O bus edge connector</p> <p>-The power and network ports comply with the EMC requirements EN50491-5-2.</p>
Status Indicators	LED status of communications, power, running, errors, and outputs
Compliance	<p>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</p> <p>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</p> <p>Australia and New Zealand: C-Tick Mark, AS/NZS 61000-6-3</p>
Environmental Operating Range	Operating: -40 to 158°F (-40 to 70°C) 10 to 95% RH, non-condensing

Power Requirements	<p>24VAC ± 10%, 50-60Hz</p> <p>50 VA power consumption</p> <p>26VDC ± 10% 12W</p>
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Dimensions	<p>Overall</p> <p>A: 6.9 in. (17.53 cm)</p> <p>B: 6.95 in. (17.65 cm)</p> <p>Mounting</p> <p>C: 6.45 in. (16.38 cm)</p> <p>D: 4.1 in. (10.4 cm)</p> <p>Depth: 2.09 in. (5.31 cm)</p> <p>Weight: 1.1 lbs (0.49 kg)</p>
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For more information, contact your local Carrier Controls Expert.
Controls Expert Locator:
www.carrier.com/controls-experts