

ComfortPoint CP-VAV(UNITARY CONTROLLER)

DATA SHEET

Trademark Information

ComfortPoint™ is a trademark of Honeywell International Inc.
BACnet™ is a trademark of ASHRAE Inc.

GENERAL

- Native BACnet series of controllers
- CP-VAV firmware 2.5 is based on B-AAC BACnet profile
- Outstanding performance with 32 bit technology
- Uses standard VAV application or flexible custom programming
- Built-in Real Time Clock
- Connects to one of three BACnet MS-TP channels of a ComfortPoint Open Plant Controller (CPO-PC-6A)
- Fully integrated with ComfortPoint Open Manager
- Flexible and easy configuration with ComfortPoint Open Studio and quick VAV Balancing with ComfortPoint Open online tool

Attention



Note: Due to Product renovation & technology upgrade, the specifications given in this data sheet may subject to change. Please contact your regional product management for current updates.

FEATURES

Freely Programmable Native BACnet® Controller

CP-VAV is a freely programmable native BACnet® controller.

Onboard Input and Outputs

CP-VAV comes with base 21 input and outputs with an integrated air flow Sensor.

VAV Applications

ComfortPoint Open Studio tool comes with predefined VAV Applications which can be downloaded to CP-VAV. The Tool allows spare points programming as per user needs.

Programming and Balancing

CP-VAV can be programmed using ComfortPoint Open Studio. Balancing is done via ComfortPoint Open Online which allows online discovery of VAV devices on the BACnet MSTP channel.

Easy installation

The ComfortPoint Open plant Controllers have a built in BACnet® router which eliminates the need for additional BACnet® routers for the system. ComfortPoint Open Manager can access all MSTP Unitary controllers via CPO-PC-6A BACnet® router.

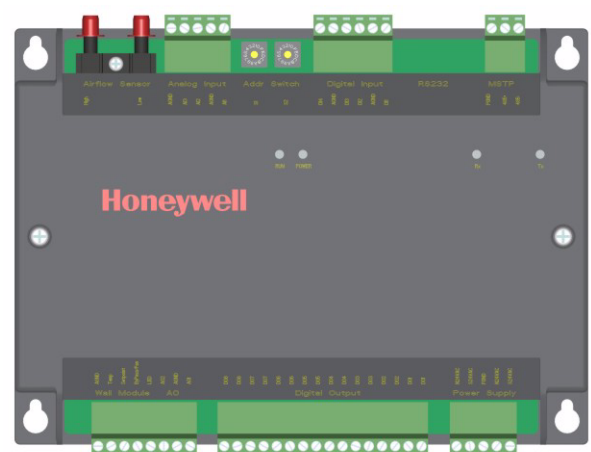
Peer to Peer communication

CP-VAV can communicate and share points with CP-VAV and CP-SPC over MSTP network.

Flexible mounting options

DIN-rail or wall mounting.

CP-VAV FRONT VIEW



SPECIFICATIONS

Electrical Data

Operating Voltage

- 24 VAC \pm 20%, 7VA

Housing Material

- ABS Plastic

Mounting

- DIN rail
- Wall mounting

Protection Class

- IP20

CPU

- Processor: ColdFire[®]; 5225x, 64 MHz, 32-Bit High Performance processor

Memory

- 1 MB Flash
- 64 KB RAM
- Battery Backup: Gold Capacitor battery for data backup upto 72 hours

Real Time Clock

- Built-in Real Time Clock

Integrated I/Os

Digital Output

- 8 DOs (Triac output)

Digital Input

- 4 potential-free contact Digital inputs
- 2 out of 4 DIs can be used as Pulse Input @ 15 Hz for Energy Meter Totalization Applications

Analog Output

- 3 AOs, 0 -10 Vdc

Analog Input

- AI 1, AI 2, AI 3, AI 4 and AI 6 are universal, and can be used as 0-10Vdc, NTC 20K, PT1000 and Potential Free contact Digital Inputs. AI 5 can not be used as PT1000, but can be used as 0-10Vdc, NTC 20K and Potential Free contact Digital Inputs. AI 4, AI 5 and AI 6 also can be used as wall module inputs.

Attention



Note: Airflow sensor is available for only CP-VAV.

Resolution

- 12 Bit A/D

Types of input signals

- NTC 20 k ohms (-50 to +150 deg.C)
- PT1000 (-50 to +150 deg.C)
- 0 to +10 V
0(4) to 20 mA (with an external resistor of 499 ohms + or - 0.25%)
- Potential Free Contact (Digital Input)
- Wall Module Connection (Only to predefined terminals)

Environmental

Temperature

- Operation: 0 ~ 50°C;
- Storage: -20 ~ +70 °C

Ambient Humidity (operation and storage)

- 5 to 93% relative humidity, non-condensing

Certifications

- CE
- BTL
- UL 916
- FCC Part15, Subpart B, Class B

Hardware Interfaces

MSTP Port 1

- Supports 9.6, 19.2, 38.4 and 76.8 Kbps
- Connects to MSTP network with maximum 30 BACnet devices per network
- 3x screw terminal, removable
- 2 service LEDs

Models

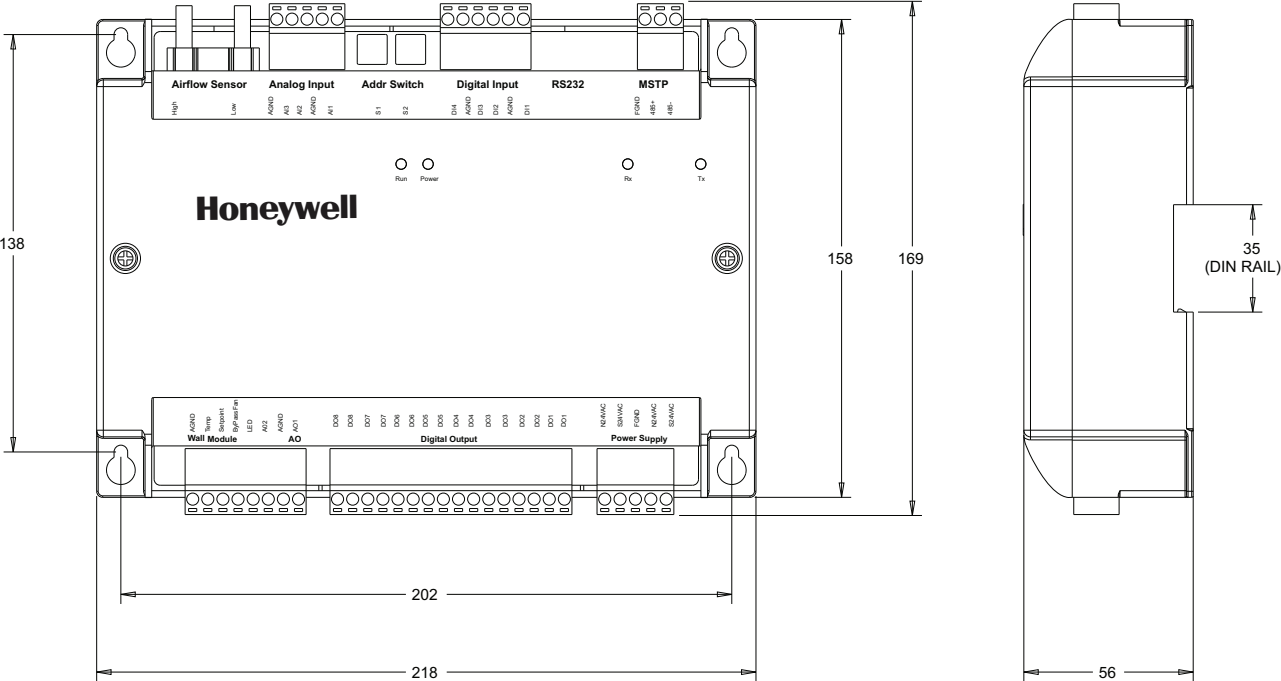
- CP-VAV: 21 points on board

Reset Button

Controller Addressing

- Two Rotary Hex switch to set CP-VAV MAC Address

DIMENSIONS



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