Honeywell

ComfortPoint Open
CP-SPC(SMALL POINT CONTROLLER)

DATA SHEET

Trademark Information

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GENERAL

- Native BACnet series of controller
- Complies to BACnet 135-2007 protocol revision
- CP-SPC firmware 2.5 is based on B-AAC BACnet profile
- Outstanding performance with 32 bit technology
- Built-in Real Time Clock
- Connects to one of three BACnet MSTP channels of a ComfortPoint Open Plant controller
- Fully integrated with ComfortPoint Open Manager (CPO-M) and Enterprise Building Integrator (EBI)
- Flexible and easy configuration with ComfortPoint Open Studio

Attention

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 Small Point Controller

CP-SPC is Freely Programmable native BACnet controller.

Onboard Input and Outputs

CP-SPC comes with base 21 input and outputs.

Scalable and Powerful

Designed with 32 bit processor and built in Real Time Clock, the system can be expanded from small to large Integrated Building Management System.

Applications

User can create own custom applications for SPC.

Programming

Easy to program and configure with the help of ComfortPoint Open Studio.

Easy installation

The ComfortPoint Open Plant controllers have a built in BACnet router which eliminates the need for external BACnet routers for the System. ComfortPoint Open Manager and EBI can access all MTSP Unitary controllers via ComfortPoint Open Plant controller BACnet Router.

Peer to Peer communication

CP-SPC can communicate and share point values with other CP VAV or SPC over MTSP network.

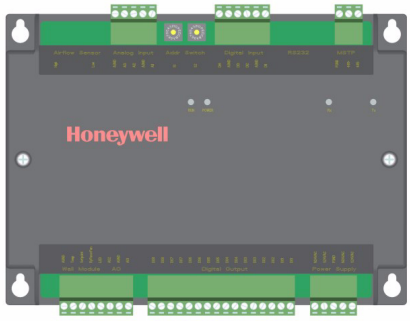
Flexible mounting options

DIN-rail or Wall mounting.

Automatic MAC addressing

Automatically assigns own unique MAC address.

CP-SPC FRONT VIEW



SPECIFICATIONS

Electrical Data

Operating Voltage

- 24 VAC ± 20%, 50/60 Hz, 7 VA

Power Consumption

- 7 VA

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)
- Maximum voltage: 24 VAC
- Maximum continuous current: 500 mA
- Minimum current: 30 mA

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
- 12-bit resolution

Analog Input

- AI 1, AI 2, AI 3, AI 4 and AI6 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.
- 12-bit A/D resolution

Attention

Airflow sensor is available for only CP-VAV.

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)

Attention

Resolution of the PT1000 sensor: 1 Fahrenheit or 0.6 Centigrade.

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 revision 7
- UL 916
- FCC Part15, Subpart B, Class B
- ICES-003 issue 4

Hardware Interfaces

MSTP Port 1

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

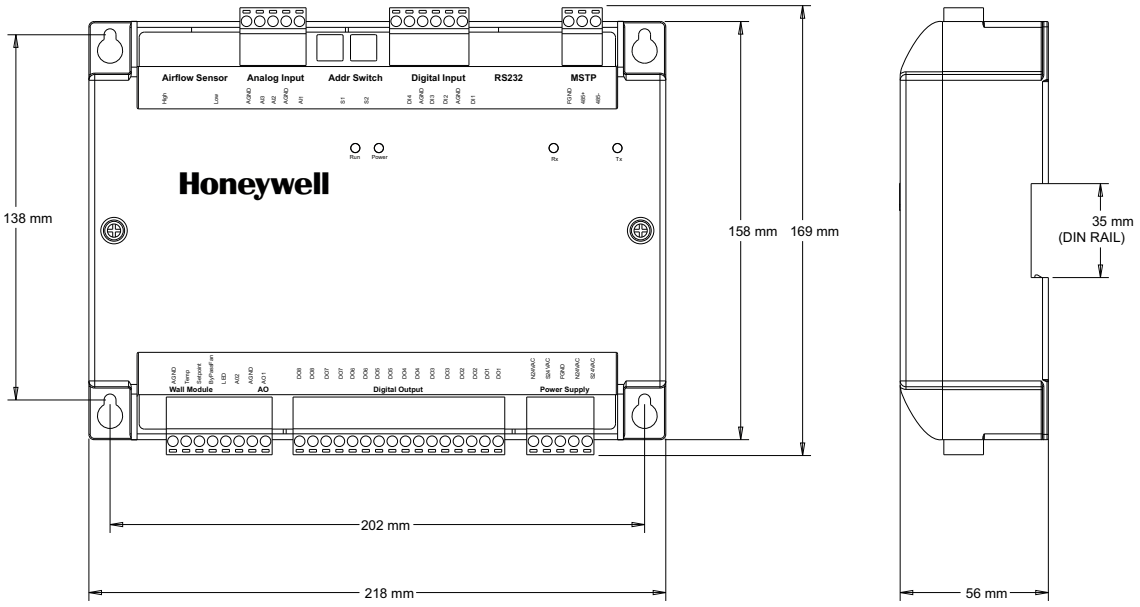
Models

- CP-SPC: 21 points on board

Controller Addressing

- Controller from factory with a sticker on the rotary switches, supports both Automatic and Manual MAC addressing:
  - AutoMAC feature is enabled by default (rotary switches are set to FF).
  - Manual MAC addressing is possible by removing the sticker and setting the rotary switches (01 ~ 1F).
- Controller without a sticker on the rotary switches, supports only Manual MAC addressing.

DIMENSIONS



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