

ComfortPoint Open CP-EXPIO (EXPANSION IO BOARD)

DATA SHEET

Trademark Information

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GENERAL

- Expand point capacity of the supported plant controllers to a maximum of 256 physical I/Os for firmware 2.1 and later versions. For firmware 2.1 and earlier versions a maximum of 128 physical I/Os.
- A maximum of 15 CP-EXPIO modules can be added for CP-IPC controller and 16 CP-EXPIO modules to CPO-PC-6A.
- Powerful processor to support faster IO scanning.
- Flexible and easy configuration with ComfortPoint Open Studio.



Attention

The information provided herein is correct and up to date at the time of production. Due to Product renovation & technology upgrade, the specifications given in this data sheet are subject to change. Please contact your nearest HBS branch for current updates.

FEATURES

Powerful Processor

CP-EXPIO Expansion I/O Boards have powerful onboard processors for fast input/output scanning.

Mixed Inputs and Outputs

CP-EXPIO comes with a mix of 24 input and outputs to suit any application requirements.

Expandable

The ComfortPoint Open plant controller can connect up to:

- 15 expansion IO boards (for CP-IPC).
- 16 expansion IO boards (for CPO-PC-6A).

All the Expansion IO boards are connected on the same RS485 CP-IO bus.

Programming and Configuration

ComfortPoint Open Studio allows users to add/delete/modify expansion boards and IO Assignment.

Addressing

Addressing of CP-EXPIO is done via onboard HEX Switch. The address can be between 1 through 15. For firmware 2.1 and later the address can be selected between 0 through 15.

Firmware Upgrade

Firmware on the CP-EXPIO can be easily upgraded using ComfortPoint Open Online.

Flexible mounting options

DIN-rail or Wall mounting.

CP-EXPIO FRONT VIEW



SPECIFICATIONS

Electrical Data

Operating Voltage

- 24 VAC $\pm$ 20%, 50/60 Hz, 15 VA with “power” LED indication

Power Consumption

- Max. 15 VA

Housing Material

- ABS Plastic

Mounting

- DIN rail
- Wall mounting

Protection Class

- IP 20

Integrated I/Os

Digital Output

- 4 DOs (Triac output)
- LED indication
- Maximum voltage: 24 VAC
- Maximum continuous current: 500 mA
- Minimum current: 30 mA

Digital Input

- 6 potential-free contact Digital Inputs
- Digital Inputs can be used as Pulse Input @ 15Hz for Energy Meter Totalization applications
- LED Indication (illuminated when contact closed)

Analog Output

- 6 AOs, 0-10 Vdc
- Resolution of D/A convertor: 8-bit

Analog Input

- 8 Universal inputs
- 0/2 -10 Vdc, PT 1000 (-50 to + 150) °C, NTC 20K (-50 to +150) °C
- MTBF (Mean Time Between Failure) Data: 100000 Hours or 11.4 Years
- Resolution: 12-bit A/D

Environmental

Temperature

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

Ambient Humidity (operation and storage)

- 5 to 93% relative humidity, non condensing

Certifications

- CE
- UL 916
- FCC Part 15, Subpart B, Class B
- UUKL Smoke Control Application

Models

- CP-EXPIO: 24 points on board

Hardware Interfaces

RS485 Connection

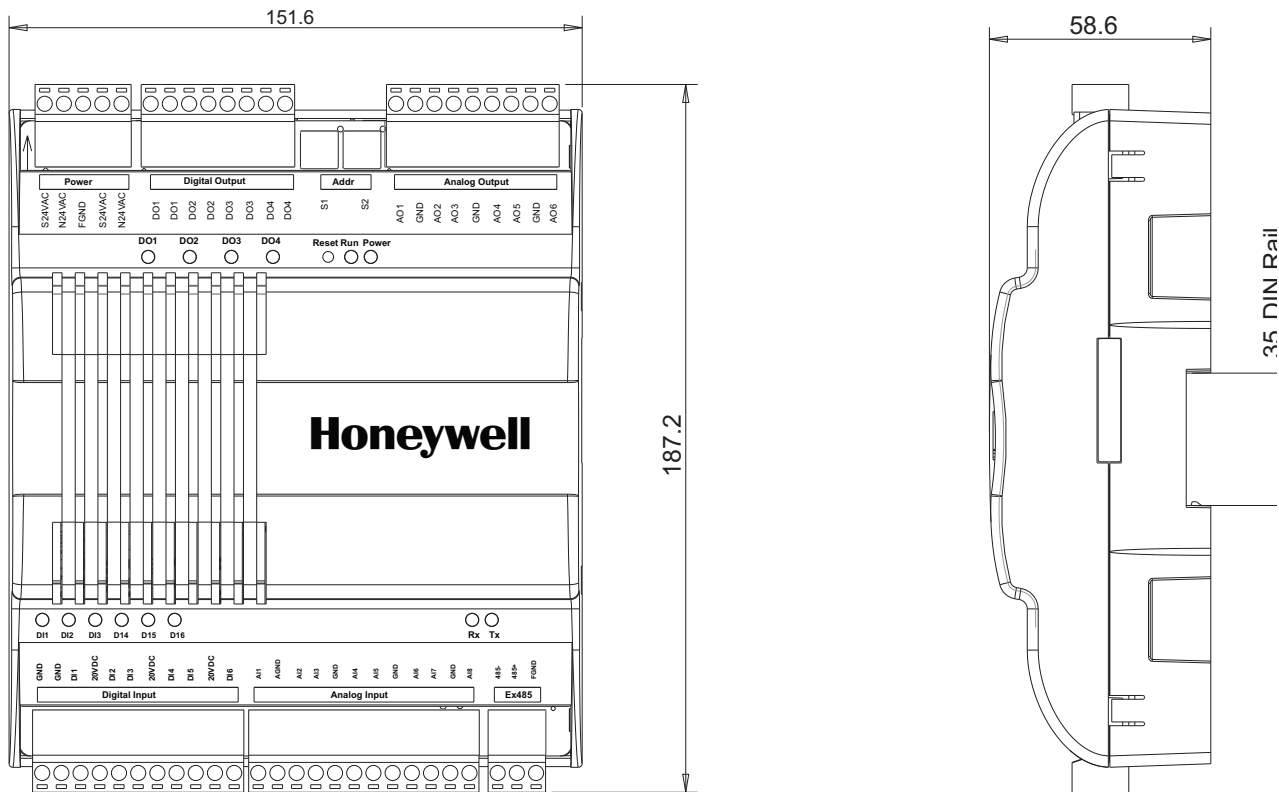
- Allows to connect ComfortPoint Open plant controllers and other Expansion IO Boards.

HEX Switch

- For Addressing of EXPIO

DIMENSIONS

All dimensions mentioned in the following figure are in mm.



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