ComfortPoint™ Open
Building Management System

The Simply Smart Way to Optimize Building Control and Performance
For Consultants and Specifiers
ComfortPoint™ Open BMS.
Simply Smart.

Honeywell ComfortPoint™ Open (CPO) is a building automation system with simple, BACnet® based open integration. When implemented with Honeywell Enterprise Buildings Integrator (EBI), CPO can improve energy efficiency and operational efficiency in both new build and retrofit projects.

ComfortPoint Open can help simplify and streamline building management while reducing operational expenses through remote services and energy consumption reporting.

Specify ComfortPoint Open for the simply smart way to optimize building control and performance.
Why specify ComfortPoint Open?

EASY TO INTEGRATE
A native BACnet-compliant building management system, ComfortPoint Open is designed to connect and interoperate with other BACnet servers / devices.

INCREASE CLIENT PRODUCTIVITY AND OPERATIONAL SAVINGS
ComfortPoint Open offers the Honeywell EasyMobile client designed for mobile system access. Points and alarms can be controlled and managed from virtually anywhere through internet enabled devices including smart phones and Apple® mobile digital devices.

REDUCE ENERGY CONSUMPTION
ComfortPoint Open supports Modbus, enabling integration of open system devices including energy reporting and meter. Modbus support is built into the system with trending/reports to track energy performance and help improve efficiency. Additionally, integrating CPO with Honeywell Energy Manager can provide even more sophisticated energy monitoring and management.

SETS INDUSTRY STANDARDS
With a large library of heating, ventilation and air conditioning (HVAC) applications, ComfortPoint Open is simple to engineer – helping to maintain consistency, reduce risk and optimize performance for your client.

SPECIFYING MADE SIMPLE
Enterprise Buildings Integrator (EBI) used with ComfortPoint Open (CPO) BMS is a complete, innovative building management and energy monitoring system with guide specifications available.

FLEXIBILITY TO GROW AND EXPAND
Whether you specify ComfortPoint Open for new buildings or retrofit projects, its flexibility can help you to grow or expand your system as business requirements develop. EBI-CPO is an easy to manage web-based system that can be integrated with other applications, such as security management, video surveillance and fire detection, through Honeywell EBI to create a platform for future expansion.

In addition, ComfortPoint Open provides a simple path for expansion and migration that leverages your client’s existing Excel 5000 infrastructure with enhanced technology to deploy standardized, efficient control strategies and high-performance hardware. Using the Excel 500 Migration Kit and CPO Studio conversion tools, this migration path can deliver increased access to building and system data and promote increased operational savings.

OPTIMIZE BUILDING PERFORMANCE
ComfortPoint Open is easy to service both on-site and remotely from Honeywell’s Global Service Response Center, helping to enable improved system uptime and reduced operational costs for clients.

CPO can also be remotely connected to Honeywell’s Attune™ Advisory Services for on-site digital signage, advanced building performance analysis and continuous commissioning of the building.
ComfortPoint Open BMS with Enterprise Buildings Integrator (EBI).

The System.

Easy to specify, easy to access and easy to use, ComfortPoint Open BMS with EBI leverages the latest technology to deliver innovative building and energy management solutions.

**COMFORTPOINT OPEN STUDIO TOOL**

- One system-wide engineering configuration tool
- Tested Global Applications Library based on Honeywell best practices provides results with enhanced reliability and consistency promoting higher uptime, improved equipment optimization and lower energy costs

**SUBCONTRACTOR COMMISSIONING TOOL**

- Easy navigation with object-based work space

**EBI USER INTERFACE**

- BACnet Test Laboratory (BTL®) listed
- Organized workflow for building operator
- Quick access to system information: > status > trends > reports
- Building control and energy integration
- Easy access and links to equipment status, trends and reports
- Stationary browser (workstation) and mobile client options

**HARDWARE**

- Supports BACnet standards with BTL tested and listed workstation software and controllers (B-AWS, B-BC, B-AAC)
- IP connected
- Field Bus Adapter – less wire, smaller conduit; can be connected to metering
**TCP/IP**

**ComfortPoint Open Studio**
- ComfortPoint Open Studio
- ComfortPoint Open On-Line
- ComfortPoint Open Studio LIVE & Simulation
- ComfortPoint Open Balancing Tool
- Install, Commissioning and Service (ICS) Tool
- Global Library

**EBI Building Manager / User Interface**
- BACnet Advanced Workstation (B-AWS)
- Software Update Service (SUS)
- Microsoft® Internet Explorer® based workstation client
- Simple displays with easy access to operator resources

**EBI Building Manager Server or Virtual Machine**
- Acronis® Backup and Recovery™
- McAfee® VirusScan® Enterprise

**EBI with DSA License**
- Enterprise LAN/WAN
- Connected to ComfortPoint Open Manager via DSA
- Security Manager
- Life Safety Manager
- Building Manager
- Digital Video Manager
- Energy Manager

**Internet**
- Web browser
- Phone/SMS/Email
- Smart Phone/Tablet
- Attune™ Advisory Services

**BACNET/IP**

**MANAGEMENT LEVEL**

**AUTOMATION AND FIELD LEVEL**

**ComfortPoint Open CPO-PC-6A Plant Controller**
- CP-IO Bus
- ComfortPoint Expansion I/O
- Digital I/O Module CPO-DIO
- Panel Bus
- Mixed I/O Module
- Panel Bus I/O Modules
- Field Bus
- ComfortPoint Open Field Bus Adapter
- BACnet MS / TP
- VAV Controllers (CP-VAV and CPO-VAV2A)
- ComfortPoint Small Point Controller (CP-SPC)
- ComfortPoint Open Room Controller (CPO-Rxx family)
- Syk™ Wall Module (TR40, TR42)
- Modbus
- Metering, sub-metering and other devices

**ComfortPoint CP-IPC Controller**
- CP-IO Bus
- BACnet MS / TP
- Modbus

**ComfortPoint CP-Core**
- BACnet MS / TP
- Modbus

**ComfortPoint JACE**
- BACnet MS / TP
- Modbus
- Simple LON
- FTT-10 and other integration drivers

Other Honeywell and third-party BACnet devices and BACnet gateways
ComfortPoint Open BMS.
Technical Data.

**Plant Controller - CPO-PC-6A**

Native BACnet IP Plant Controller
BTL listed, (B-BC) Building Controller profile
Four RS-485 interfaces for BACnet MS/TP, ModBus, Panel Bus, Field Bus and I/O Bus
Two Ethernet ports
One RS232 serial port
24 Vac/DC power supply

256 hardware points, 1500 software points, 100 time schedules and 64 control loops
Built-in BACnet router, no need to add external BACnet router
Built-in web server for browser connectivity
LEDs indicating the transmission/reception, Alarm LED and power LED
Built-in advanced diagnostics

**CP-IPC & CP-Core**

Native BACnet IP Plant Controller
BTL listed, (B-BC) Building Controller profile
Built-in BACnet Router & BBMD support
Built-in Web Browser Interface & Diagnostics
(CP-IPC only) 24 I/O On-Board: 8UI, 6BI, 6AO, 4 DO

(CP-IPC only) 256 I/O supported via I/O modules
BACnet MS/TP for 30 devices/bus; total of 90 devices
Modbus Serial communication support

**Mixed I/O Module - CPO-IO830A**

Panel Bus communicating module
DIN-rail or panel-rail mounting
24 Vac (+/- 20%) or 21…30 Vdc power supply
Overvoltage protection
Status LED, service LED, power LED

Mix of 34 input and outputs to meet a wide variety of application requirements
- 8 Universal inputs
- 8 Analog outputs
- 12 Binary inputs
- 6 Relay outputs

**Expansion I/O- CP-EXPIO**

DIN-rail or wall mount
24 VAC ± 20%, 50/60 Hz, 15 VA
Mix of 24 input and outputs
- 8 Universal inputs
- 6 Binary inputs
- 6 Analog outputs
- 4 Digital outputs (24VAC triacs with LED)

Maximum fifteen CP-EXPIO modules per one plant controller
Powerful processor to support faster I/O scanning
Flexible and easy configuration with ComfortPoint Open Studio

**Digital I/O Controller - CPO-DIO**

DIN-rail or wall mount
BACnet, BTL listed, (B-AAC) profile
Expansion I/O Bus comm. for CPO Plant Controllers
24 VAC ± 20%, 50/60 Hz, 15 VA
Mix of 32 onboard I/Os
- 8 Universal inputs
- 8 Binary inputs
- 16 Digital outputs (Triac™ outputs)

Enhanced performance with 32-bit technology
Maximum fifteen CPO-DIO modules per one plant controller
Flexible and easy configuration with ComfortPoint Open Studio
**Field Bus Adapter Modules**

Microprocessor-controlled bus interfaces, providing additional bus capability (with communication and power)

Supports four connected field devices such as sensors or actuators

Plug-and-play functionality

Screw terminals for fast wiring

Suitable for wall mounting, DIN-rail-mounting and junction-box mounting

Two LEDs for visual trouble indication

Up to 30 modules on a bus

Four models with variety of input and output options:

- **CPO-FBA-1A** (Field Bus Adapter with 2 Universal Inputs and 2 Analog Outputs)
- **CPO-FBA-2A** (Field Bus Adapter with 2 Universal Inputs and 2 Digital Outputs)
- **CPO-FBA-3A** (Field Bus Adapter with 2 Universal Inputs, 1 Analog Output, and 1 Digital Output)
- **CPO-FBA-4A** (Field Bus Adapter with 4 Universal Inputs)

**Compact VAV Controller (CPO-VAV2A)**

BACnet, BTL listed, (B-AAC) profile

Fully programmable

Sylk support for TR40/TR42

Series 60 floating controller actuator

Integral I/O (4UI, 3 AO, 6 DO, (4+2 wired to actuator)

Removable terminal blocks

Internal-powered digital outputs

**VAV & SPC II Unitary Controllers**

Native BACnet series of controllers

BACnet, BTL listed, (B-AAC) profile

Enhanced performance with 32-bit technology

Use standard VAV/FCU application or flexible custom programming

Flexible and easy configuration with ComfortPoint Open Studio Tool

Connects to one of three BACnet MS/TP channels in the plant controller

BACnet schedule function support

Quicker VAV balancing with ComfortPoint Open Studio online tool

**CPO-Room Controller (CPO-Rxx family)**

BACnet, BTL listed, (B-AAC) profile (rev 1.12)

14 models available for various applications

Up to 24 I/O onboard

Fully programmable

Powered outputs with onboard relays & triacs

Sylk TR40/TR42 wall module support

Control multiple rooms with a single controller

Automatic MAC addressing

Basic lighting control (CPO-RL8)

Removable terminals (CPO-RL5)

Extended temperature range (CPO-RL7U)

**Digital Wall Module TR40, TR42**

2-wire, non-polarity sensitive, Sylk bus communicating wall module for use with Sylk compatible controllers

Non-display and large display, backlit and easy-to-read LCD user interface models available

Display options include room temperature, room temperature setpoint, fan-speed, occupancy mode, occupancy override mode, occupancy override duration, system status and system override command

One-touch override of room temperature setpoint fan-speed, occupancy and system status

Mostly language-neutral display, showing many internationally standardized symbols

Variety of models with a combination of temperature control and with humidity and CO₂ monitoring
Find out more
For more information on ComfortPoint
Open BMS and the advantages it can
bring to your customer’s facility, visit
buildingsolutions.honeywell.com
or contact your nearest representative.

Honeywell Building Solutions
1985 Douglas Drive North
Golden Valley, MN 55422-3992
1-800-345-6770
www.honeywell.com

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