

ControlPoint-Mesh/IP (CP-IP-Z)

BACnet Protocol Implementation Conformance Statement (PICS)

Product

<i>Date</i>	<i>Vendor</i>	<i>Product Name</i>	<i>Model Number</i>	<i>Software Version</i>	<i>Firmware Version</i>	<i>BACnet Protocol Revision</i>
October 1, 2013	Embedia Technologies Corp. (VIN 252)	ControlPoint-Mesh/IP	131001	N/A	8.0-9.x	135-2008

Vendor Information

Embedia Technologies Corp.
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Product Description

The Embedia ControlPoint is a multipurpose device that provides interfaces to other control systems. It supports 5 analog inputs and 3 contact closure outputs. The CP-IP-Z is identical to the CP-Z, except that it can additionally act as a BACnet/ZigBee-IP Router.

BACnet Standardized Device Profile

BACnet Application Specific Controller (B-ASC)

Supported BACnet Interoperability Building Blocks (BIBBs)

<i>BIBB</i>	<i>Name</i>	<i>Initiate</i>	<i>Execute</i>
DS-RP-B	Data Sharing-ReadProperty-B		•
DS-WP-B	Data Sharing-WriteProperty-B		•
DS-RPM-B	Data Sharing-ReadPropertyMultiple-B		•
DS-WPM-B	Data Sharing-WritePropertyMultiple-B		•
DM-DDB-B	Device Management-DynamicDeviceBinding-B		•
DM-DOB-B	Device Management-DynamicObjectBinding-B		•
DM-DCC-B	Device Management-DeviceCommunicationControl-B		•

<i>BIBB</i>	<i>Name</i>	<i>Initiate</i>	<i>Execute</i>
DM-UTC-B	Device Management-UTCTimeSynchronization-B		•

Standard Object Types Supported

<i>Object Type</i>	<i>Optional Properties Supported</i>	<i>Writable Properties</i>	<i>Creatable / Deletable</i>	<i>Range Restrictions</i>
Device	Local_Time, Local_Date, UTC_Offset, Daylight_Savings_Status, Max_Master	Object_Identifier, Object_Name, UTC_Offset, Daylight_Savings_Status, Max_Master	No / No	None
Analog Input	Reliability, Min_Pres_Value, Max_Pres_Value, COV_Increment	Object_Name, Out_Of_Service, Present_Value, Units, Min_Pres_Value, Max_Pres_Value, COV_Increment	No / No	None
Multi-state Input	None	Object_Name, Out_Of_Service, Present_Value	No / No	None
Multi-state Value	None	Object_Name, Out_Of_Service, Present_Value	No / No	None
Analog Output	None	Object_Name, Present_Value, Min_Pres_Value, Max_Pres_Value	No / No	None

Standard Object List

<i>Object Type</i>	<i>Instance Numbers</i>	<i>Description</i>
Analog Input	0-4	Represents a sensor reading on the ControlPoint. Each object represents one of the 5 inputs, going from left to right across the top of the controller.
Multi-state Input	0-4	Represents a sensor level. The thresholds and mapping to sensors are set by Embedia during commissioning.
Multi-state Input	300-303	Multipurpose objects that can represent various states of the system. The function of these are determined during commissioning.

Object Type	Instance Numbers	Description
Multi-state Value	0-2	Objects used to control the 3 contact closure outputs. The response of the contact closures to different levels is determined during commissioning.
Analog Output	0-127	Cached extent position of up to 128 shades on the ZigBee network.

Data Link Layer Options

BACnet/ZigBee Data Link Layer (BZLL), Addendum q to ANSI/ASHRAE Standard 135-2008
 BACnet IP, (Annex J)

Networking Options

Router, Clause 6 – ZigBee-IP

Gateway Options

Modbus ASCII

Segmentation Capability

Segmented requests and responses are not supported.