

EZ4 Controller

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>
December 17, 2013	Embedia Technologies Corp. (VIN 252)	EZ4 Controller	1312002	N/A	2.0-9.x	135-2008

Vendor Information

Embedia Technologies Corp.
 Box 51027 Beddington RPO
 Calgary, AB, CANADA
 T3K 3V9

Product Description

The EZ4 Controller is a four motor controller designed specifically for the control of motorized shades. It is compatible with roller, Venetian and louvre style shading products. In addition to controlling four shades, each controller is capable of accepting ten contact closure inputs. The EZ4 Controller can operate stand-alone or networked using BACnet/ZigBee.

BACnet Standardized Device Profile

BACnet Application Specific Controller (B-ASC)

Supported BACnet Interoperability Building Blocks (BIBBs)

BIBB	Name	Initiate	Execute
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		•
SCHED-I-B	Scheduling-Internal-B		•
DM-DDB-B	Device Management-DynamicDeviceBinding-B		•
DM-DOB-B	Device Management-DynamicObjectBinding-B		•
DM-DCC-B	Device Management-DeviceCommunicationControl-B		•
DM-UTC-B	Device Management-UTCTimeSynchronization-B		•

Standard Object Types Supported

Object Type	Optional Properties Supported	Writable Properties	Creatable / Deletable	Range Restrictions
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, Max_Pres_Value, COV_Increment	Object_Name, Out_Of_Service, Present_Value, Max_Pres_Value	No / No	None
Analog Output	None	Object_Name, Present_Value, Min_Pres_Value, Max_Pres_Value	No / No	None
Multi-state Input	None	Object_Name	No / No	None
Multi-state Value	None	Object_Name, Out_Of_Service, Present_Value	No / No	None
Binary Input	Reliability	Object_Name	No / No	None

Object Type	Optional Properties Supported	Writable Properties	Creatable / Deletable	Range Restrictions
Schedule	Weekly_Schedule	Weekly_Schedule, Priority_For_Writing, Schedule_Default, List_Of_Object_Property_References, Effective_Period	No / No	None

Standard Object List

Object Type	Instance Numbers	Description
Analog Input	0-3	Motor position of shades 1-4
Analog Output	0-3	Commandable Extent position of shades 1-4
	100-103	Commandable Tilt position of shades 1-4
Multi-state Input	100-109	Once commissioned, represents the state of a switch connected to the controller.
Multi-state Value	0-9	Reserved for use by Embedia
	100-111	
	300-303	
Binary Input	0-3	Represents the current detection state for motors 1-4
	100-109	Represents the state of the 10 contact closure inputs.
Schedule	0-15	Schedules can only be applied to local properties

Data Link Layer Options

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

Segmentation Capability

Segmented requests and responses are not supported.
