

EB2 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>
Feb 10, 2014	Embedia Technologies Corp. (VIN 252)	EB2 Controller	1105001	N/A	7.x-9.x	135-2004

Vendor Information

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

Product Description

The EB2 Controller is a two 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 two shades, each controller is capable of accepting six contact closure inputs. The Embedia Shade Controller can operate stand-alone or networked using BACnet/MSTP over RS-485.

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	Read only motor position of shade 1
	1	Read only motor position of shade 2
Analog Output	0	Commandable extent position of shade 1
	1	Commandable extent position of shade 2
	100	Commandable tilt position of shade 1
	101	Commandable tilt position of shade 2
Multi-state Input	100-105	Reserved for use by Embedia
Multi-state Value	0-5	Reserved for use by Embedia
	100-105	
	300,301	
Binary Input	0,1	Read only current detection state for motor 1,2
	100-105	Read only the state of the 6 contact closure inputs.
Schedule	0-7	Schedules can only be applied to local properties

Data Link Layer Options

MS/TP Master (Clause 9), baud rates: 9600, 19200, 38400 and 76800

Segmentation Capability

Segmented requests and responses are not supported.
