

BACnet® Protocol Implementation Conformance Statement (PICS)

Date: 31 May 2011

Vendor Name: Lutron Electronics Co., Inc.

Product Name: Centralized Lighting Control System BACnet® Integrator

Product Model Number: EM-A-BAC-IP-120, EM-A-BAC-ET-120

Applications Software Version: V6.06p (E) **Firmware Revision:** V5.22fA (K) **BACnet® Protocol Revision:** V2.01 bL

Product Description:

Both the EM-A-BAC-IP-120 and EM-A-BAC-ET-120 are gateway interfaces between a BACnet® Building Automation System and the Lutron® GRAFIK Centralized Lighting Control System. The BACnet® gateway exports a single BACnet® device with objects that retrieve the status and perform actions through the Centralized Lighting Control System. The BACnet® gateway can interface with either the zones or the spaces defined in a GRAFIK Centralized Lighting Control System. Both zone control and space control are not possible through the same device. If configured to interface with zones on the GRAFIK Centralized Lighting Control System, the interface is able to retrieve the relay status and current intensity and set a desired intensity for each zone in the system. If configured to interface with spaces on the GRAFIK Centralized Lighting Control System, the interface is able to retrieve the last scene set in the space. The space is controlled by selecting a desired scene. A processor can only move one EM-A-BAC-IP-120 or EM-A-BAC-ET-120 gateway interface.

BACnet® Interoperability Building Blocks Supported (Annex K):

K.1.1 BIBB - Data Sharing - ReadProperty-B	(DS-RP-B)
K.1.3 BIBB - Data Sharing - ReadPropertyMultiple-A	(DS-RPM-A)
K.1.4 BIBB - Data Sharing - ReadPropertyMultiple-B	(DS-RPM-B)
K.1.8 BIBB - Data Sharing - WriteProperty-B	(DS-WP-B)
K.1.9 BIBB - Data Sharing - ReadPropertyMultiple-A	(DS-WPM-A)
K.1.10 BIBB - Data Sharing - ReadPropertyMultiple-B	(DS-WPM-B)
K.5.2 BIBB - Device Management - Dynamic Device Binding-B	(DM-DDB-B)

BACnet® Standardized Device Profile (Annex L):

- BACnet® Smart Sensor (B-SS)
- BACnet® Smart Actuator (B-SA)

Segmentation Capability:

Segmented requests supported?	No	Window Size	n/a
Segmented responses supported?	No	Window Size	n/a

Non-Standard Application Services:

The EM-A-BAC-IP-120 does not support non-standard application services.

Standard Object Types Supported:

- Device
- Analog Input/Output
- Binary Input/Output
- Multistate Output
- Binary Variable
- Analog Variable

Data Link Layer Options:

BACnet® Ethernet, (Annex J)

Device Address Binding:

Is static device binding supported? No

If this product is a communication gateway, describe the types of non-BACnet® equipment/network(s) that the gateway supports:

Both the EM-A-BAC-IP-120 and EM-A-BAC-ET-120 are gateway interfaces between a BACnet® protocol and the Lutron Centralized Lighting Control System communication protocol.

Job Name:	Model Numbers:
Job Number:	

BACnet® Objects

The following tables list the BACnet® objects available through this interface. Refer to the User Guide for a complete description of each object listed below. The names of the objects are configurable.

Space Machine Interface*

Analog Input[1..512]	Last system scene selected
Analog Output[1..512]	Desired scene for space
Binary Input[1..512]	Reserved for expansion***
Binary Output[1..512]	Reserved for expansion***
Multistate Output[1..512]	Reserved for expansion***
Analog Output[513..1024]	Reserved for expansion***
Binary Value[1..512]	Reserved for expansion***
Analog Value[1..512]	Reserved for expansion***

Zone Machine Interface**

Analog Input[1..512]	Current zone intensity (%)
Analog Output[1..512]	Desired zone intensit (%)
Binary Input[1..512]	Reserved for expansion***
Binary Output[1..512]	Reserved for expansion***
Multistate Output[1..512]	Reserved for expansion***
Analog Output[513..1024]	Reserved for expansion***
Binary Value[1..512]	Reserved for expansion***
Analog Value[1..512]	Reserved for expansion***

* BACnet® object ID 1 corresponds to System Space 0, object ID 2 corresponds to System Space 1 and so on.

** BACnet® object ID 1 corresponds to System Zone 0, object ID 2 corresponds to System Zone 1 and so on.

*** These objects are reserved by Lutron for future modifications and customization of the system.

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Job Number:	