

Wireless Bluetooth NLC to BACnet Gateway

Overview

- BACnet certified
- Provides on-premise integration with BACnet BMS
- 1 × RJ45 10/100 Ethernet with PoE
- 1 × USB 2.0 Type-A
- Provides Group Health Status and Energy Use
- Provides Occupancy and Light Level Status



Suitable for Indoor Use Only



Applications

The BACnet Gateway provides integration of the Bluetooth NLC-based lighting controls system with the BACnet BMS.

The gateway can manage data from a network of approximately 200 Bluetooth mesh devices and works with qualified Bluetooth mesh stack.

Operation

TruBlu™ Mesh Controls: Qualified by Bluetooth SIG for its Bluetooth Mesh 1.0.1 specification, the gateway connects to a Bluetooth mesh network and is accessed via the TruBlu web portal or mobile app for initial design, setup and scheduling, as well as subsequent parameter adjustments.

See the TruBlu™ Commissioning User Manual for more information.

Summary

Product Type::
IoT Gateway

DC Power Supply: 5VDC, 1A or PoE 802.3af

Ethernet: 10/100 Ethernet with PoE 802.3af

Mounting: Wall or Surface Mount

Communication Protocols: Bluetooth SIG Mesh, TCP/IP, IPv4, BACnet

Max Bluetooth Range¹:
328 ft (100 m)

Operating Temperature:
14°F to 122°F (-10°C to 50°C)

Relative Humidity:
90-95% non-condensing

Color: White

Warranty: 5 years

Weight: 0.34 lbs (0.155 kg)

Note:

1. Wireless Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for range accuracy.

Project

Location/Type

Supported BACnet Interoperability Building Blocks (BIBBs)

BIBB Group	BIBB	Service*
Data sharing	ReadProperty-B	ReadProperty (EX)
	ReadPropertyMultiple-B	ReadPropertyMultiple (EX)
	WriteProperty-B	WriteProperty (EX)
	WritePropertyMultiple-B	WritePropertyMultiple (EX)
	ChangeOfValue-B	SubscribeCOV (EX) ConfirmedCOVNotification (IN) UnconfirmedCOVNotification (IN)
Device management	DynamicDeviceBinding-B	Who-Is (EX) I-Am (IN)
	DynamicObjectBinding-B	Who-Has (EX) I-Have (IN)
	DeviceCommunicationControl-B	DeviceCommunicationControl (EX)
	ReinitializeDevice-B	ReinitializeDevice (EX)

* EX – execute, IN – initiate

Features

- Data is shared through the Change of Value (CoV) method.
- Lighting system topology is displayed using Structured View objects.
- Naming of BACnet objects is configurable.
 - Group object function names use this format:
APPLICATION_GROUP_ID@GW_NAME/PROJECT_NAME/AREA_NAME/ZONE_NAME/OBJECT_FUNCTION
Lighting_G00@Silvair_Office_BACNet_GW_2/Silvair_Office/Ground_Floor/Corridor/Group_Health_Status
 - Device object function names use this format:
APPLICATION_GROUP_ID_DEVICE_ID@GW_NAME/PROJECT_NAME/AREA_NAME/ZONE_NAME/DEVICE_NAME/OBJECT_FUNCTION
Lighting_G00_D000@Silvair_Office_BACNet_GW_2/Silvair_Office/Ground_Floor/Corridor/Silvair_Dongle_c345/Device_Health_Status

where:

APPLICATION = 'Lighting'

GROUP_ID = 'G' followed by a sequential 2-digit number, assigned alphabetically by zone topology

DEVICE_ID = 'D' followed by a sequential 3-digit number, assigned alphabetically by device topology

GW_NAME = Name of the gateway (spaces and URI reserved characters are replaced with '_')

PROJECT_NAME/AREA_NAME/ZONE_NAME = Topology path (spaces and URI reserved characters are replaced with '_')

DEVICE_NAME = Name of the device (spaces and URI reserved characters are replaced with '_')

How to Order

Model No.	Description	Input Voltage	Ports
PSC-SGW-104-DC	Bluetooth SIG Mesh BACnet Gateway	5VDC, 1-1.5A or PoE 802.3 af	1 x RJ45 10/100 Ethernet port (with PoE)

Design and specifications are subject to change without notice.