

Project		Catalog #		Type	
Prepared by		Notes		Date	



WaveLinx Wired

BMS Pro 1

Multi -protocol translator which allows data exchange between Cooper Lighting Solutions Greengate, WaveLinx Wired and Fifth Light lighting control systems and the Building Automation Systems

Typical Applications

Office • Education • Healthcare • Hospitality • Retail
Industrial • Manufacturing

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Product Certification

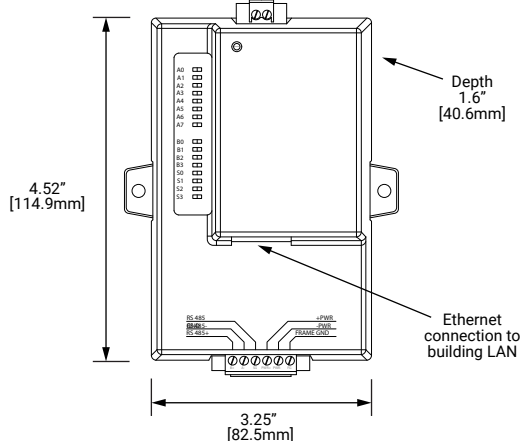


- LonMark 3.4 Certified
- TUV approved to UL 916 standard and CSA C22-2

Top Product Features

- The device translates the Greengate and iLumin proprietary communication protocols to LON allowing a LON enabled third party system to read/write from/to Greengate and iLumin systems.
- Greengate and iLumin Protocol Translator - Automatically discovers the Greengate and iLumin objects hence eliminating the need for configuration files and reducing the time required to integrate a Greengate or iLumin lighting control system with a Building Automation System
- LonMark 3.4 Certified - Minimizes interoperability issues between the two systems communicating over the LonWorks® network
- Web-based User Interface - Allowing system integrators to easily setup the BMS Pro using any device with a compatible web browser.
- Diagnostics LED - Allowing the system integrator to easily assess the status of the gateway

Dimensional Details



Order Information

Catalog Number

Catalog Number	Description
FPC-N35-1131	BMS Pro 1 – BACnet Gateway
Notes 1. For a Greengate system, an EIM (Ethernet Interface Module) is required. The EIM is a serial to Ethernet converter. Please refer to the wiring diagram section above and required accessories section below. 2. For a WaveLinx Wired system, an EG2-S-NA (Ethernet Gateway) is required. The EG2-S-NA is an iCAN to Ethernet converter. Please refer to the wiring diagram section above and required accessories section below.	

Required Accessories

Catalog Number

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EIM	Ethernet Interface Module (Required for all Greengate Installations)
EG2-S-NA	Ethernet Gateway (Required for all WaveLinx Wired installations)

Product Specifications

Key Features

- The BMS Pro 1 provides up to 4,096 points of control and can communicate to multiple panel types on the lighting control network.
- Each BMS Pro 1 can be programmed to communicate to either a Greengate or iLumin network and a single Ethernet access point (either the EIM or EG2-NA).
- For Greengate lighting control networks the BMS Pro 1 will automatically find all network lighting control panels and pre-populate the LON points of control for each panel.
- For iLumin lighting control networks users need to upload the iLumin Virtual Area file to allow the system to expose the defined Areas, Scenes and Channels. These objects are automatically mapped to LON points of control.
- The BMS Pro 1 uses a 9-30VDC power input and can be powered from auxiliary power generated from most lighting control panels.
- If auxiliary power is not available a separate power supply should be provided.

Mechanical

Size: 4.52 x 3.25 x 1.60 in.

(114.9 x 82.5 x 40.6 cm)

Weight: 0.4 lbs (0.2 kg)

Environment:

- **Operating temperature:** -40°C to 75°C (-40°F to 167°F)
- **Relative humidity** 5-95% RH non-condensing
- For indoor use only

Mounting:

- Table, Wall mount
- DIN rail mount included

Electrical

Power:

- -30 VDC or 12-24VAC
- Current draw @ 12V = 240mA

Software Specifications

Supported Protocols

- LonWorks®

Communication

- (1) 6 pin Phoenix Connector
- (1) RS-485 +/- Ground port Power +/- Frame
- Ground port
- (1) Ethernet -10/100 Ethernet port
- (1) FTT-10 LonWorks port (LonWorks Version)

Web-based configuration

Toolbox diagnostic utility

Manufacturer: FieldServer Technologies (MSA Safety Incorporated)

Standards/Ratings

- LonMark 3.4 Certified
- TUV approved to UL 916 standard and CSA C22-2
- CE

Environmental Regulations:

- RoHS Directive

Warranty

Five year warranty standard

Overview and Operation

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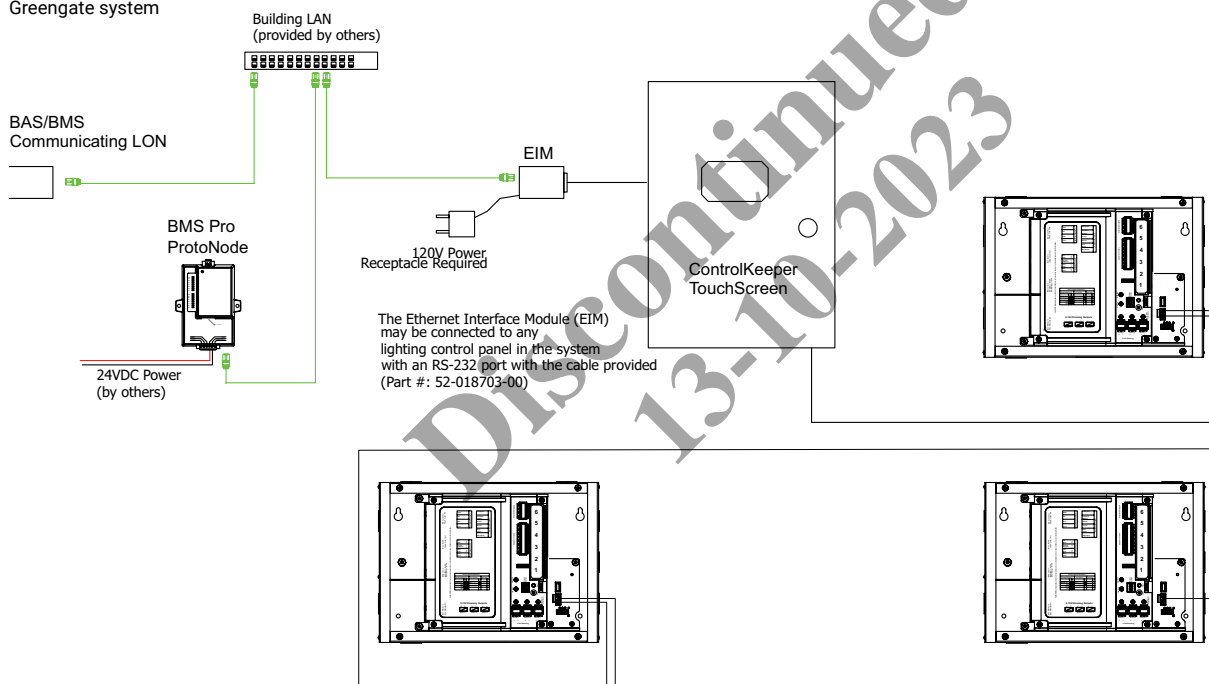
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System Performance

Property	Value
Supported Greengate System	Room Controller (115 points per panel) ControlKeeper 2 (161 points per panel) ControlKeeper 4 (161 points per panel) ControlKeeper 4A (181 points per panel) ControlKeeper T (213 points per panel) ControlKeeper M/MB (225 points per panel)
Control of Greengate System	Manually turn relays & dimmers On/Off Check status of relays and dimmers
Total Number of objects supported for Greengate	4,096
Supported WaveLinx Wired System	SCUN SCUN-FT SCRP SCRPB Note : Based on imported Virtual Area File
Control of WaveLinx Wired System	Manually trigger Area On/Off Manually trigger Scenes per area
Total Number of objects supported for WaveLinx Wired	4,096

System architecture

Greengate system



WaveLinx Wired system

